

Walker Hall Renewal Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	0.00	Employee	2.00	45,000.00	50

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage, square feet, and population set from default values to known values for the proposed project.

Construction Phase - Grading and Construction duration reduced from default values to reflect project is a renewal of an existing building, not construction of a new building. Project is mostly an interior renovation project and seismic upgrade project (in terms of overall construction effort)

Grading - Total acreage for site prep and grading reduced to reflect project specific details.

Demolition -

Vehicle Trips - Operational vehicle trips reduced from default values to reflect travel characteristics of UC Davis employees.

Road Dust - Percent paved roads increased to 100 percent to reflect characteristics of expected operational trip routes (none expected on unpaved routes). Note: This is operational, not construction trips.

Construction Off-road Equipment Mitigation - Construction traffic mitigation set to reflect adopted 2003 LRDP EIR mitigation measures.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	PhaseEndDate	11/22/2016	11/23/2016
tblConstructionPhase	PhaseEndDate	7/4/2016	7/5/2016
tblConstructionPhase	PhaseEndDate	12/7/2016	11/25/2016
tblConstructionPhase	PhaseStartDate	7/6/2016	7/7/2016
tblConstructionPhase	PhaseStartDate	7/2/2016	7/5/2016
tblConstructionPhase	PhaseStartDate	11/24/2016	11/12/2016
tblGrading	AcresOfGrading	3.00	0.50
tblLandUse	LandUseSquareFeet	0.00	45,000.00
tblLandUse	LotAcreage	0.00	2.00
tblLandUse	Population	0.00	50.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblRoadDust	RoadPercentPave	94	100
tblVehicleTrips	ST_TR	3.12	0.00
tblVehicleTrips	WD_TR	9.13	2.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2070	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0104	0.0948	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	236.2397	236.2397	7.9900e-003	3.1400e-003	237.3800
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2175	0.0948	0.0797	5.7000e-004	0.0000	7.2100e-003	7.2100e-003	0.0000	7.2100e-003	7.2100e-003	0.0000	236.2397	236.2397	7.9900e-003	3.1400e-003	237.3800

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2070	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	7.3000e-003	0.0664	0.0558	4.0000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003	0.0000	159.8565	159.8565	5.3500e-003	2.1400e-003	160.6335
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2143	0.0664	0.0558	4.0000e-004	0.0000	5.0500e-003	5.0500e-003	0.0000	5.0500e-003	5.0500e-003	0.0000	159.8565	159.8565	5.3500e-003	2.1400e-003	160.6335

	ROG	NOx	CO	SO2	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	1.44	30.00	30.00	29.82	0.00	29.96	29.96	0.00	29.96	29.96	0.00	32.33	32.33	33.04	31.85	32.33

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	6/2/2016	6/29/2016	5	20	
2	Site Preparation	Site Preparation	6/30/2016	7/1/2016	5	2	
3	Grading	Grading	7/5/2016	7/5/2016	5	1	
4	Building Construction	Building Construction	7/7/2016	11/23/2016	5	100	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Scrapers	1	8.00	361	0.48
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	45.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	19.00	7.00	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	4.00	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

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.7700e-003	0.0000	5.7700e-003	8.7000e-004	0.0000	8.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
Total	0.0291	0.2826	0.2150	2.4000e-004	5.7700e-003	0.0175	0.0232	8.7000e-004	0.0163	0.0172	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	5.9900e-003	6.6400e-003	2.0000e-005	0.0342	9.0000e-005	0.0343	3.4800e-003	8.0000e-005	3.5600e-003	0.0000	1.5302	1.5302	1.0000e-005	0.0000	1.5304
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	5.8000e-004	5.7300e-003	1.0000e-005	0.1066	1.0000e-005	0.1066	0.0108	1.0000e-005	0.0108	0.0000	0.9192	0.9192	5.0000e-005	0.0000	0.9202
Total	1.0100e-003	6.5700e-003	0.0124	3.0000e-005	0.1408	1.0000e-004	0.1409	0.0143	9.0000e-005	0.0144	0.0000	2.4494	2.4494	6.0000e-005	0.0000	2.4506

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.5900e-003	0.0000	2.5900e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
Total	0.0291	0.2826	0.2150	2.4000e-004	2.5900e-003	0.0175	0.0200	3.9000e-004	0.0163	0.0167	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	5.9900e-003	6.6400e-003	2.0000e-005	0.0342	9.0000e-005	0.0343	3.4800e-003	8.0000e-005	3.5600e-003	0.0000	1.5302	1.5302	1.0000e-005	0.0000	1.5304
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	5.8000e-004	5.7300e-003	1.0000e-005	0.1066	1.0000e-005	0.1066	0.0108	1.0000e-005	0.0108	0.0000	0.9192	0.9192	5.0000e-005	0.0000	0.9202
Total	1.0100e-003	6.5700e-003	0.0124	3.0000e-005	0.1408	1.0000e-004	0.1409	0.0143	9.0000e-005	0.0144	0.0000	2.4494	2.4494	6.0000e-005	0.0000	2.4506

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0308	0.0181	2.0000e-005		1.5100e-003	1.5100e-003		1.3900e-003	1.3900e-003	0.0000	2.2499	2.2499	6.8000e-004	0.0000	2.2642
Total	2.7000e-003	0.0308	0.0181	2.0000e-005	2.7000e-004	1.5100e-003	1.7800e-003	3.0000e-005	1.3900e-003	1.4200e-003	0.0000	2.2499	2.2499	6.8000e-004	0.0000	2.2642

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	3.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0566	0.0566	0.0000	0.0000	0.0566
Total	3.0000e-005	4.0000e-005	3.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0566	0.0566	0.0000	0.0000	0.0566

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0308	0.0181	2.0000e-005		1.5100e-003	1.5100e-003		1.3900e-003	1.3900e-003	0.0000	2.2499	2.2499	6.8000e-004	0.0000	2.2642
Total	2.7000e-003	0.0308	0.0181	2.0000e-005	1.2000e-004	1.5100e-003	1.6300e-003	1.0000e-005	1.3900e-003	1.4000e-003	0.0000	2.2499	2.2499	6.8000e-004	0.0000	2.2642

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	3.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0566	0.0566	0.0000	0.0000	0.0566
Total	3.0000e-005	4.0000e-005	3.5000e-004	0.0000	6.5600e-003	0.0000	6.5600e-003	6.6000e-004	0.0000	6.7000e-004	0.0000	0.0566	0.0566	0.0000	0.0000	0.0566

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2800e-003	0.0000	3.2800e-003	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	0.0150	9.8200e-003	1.0000e-005		8.3000e-004	8.3000e-004		7.7000e-004	7.7000e-004	0.0000	0.9704	0.9704	2.9000e-004	0.0000	0.9765
Total	1.4300e-003	0.0150	9.8200e-003	1.0000e-005	3.2800e-003	8.3000e-004	4.1100e-003	1.6800e-003	7.7000e-004	2.4500e-003	0.0000	0.9704	0.9704	2.9000e-004	0.0000	0.9765

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	4.1000e-003	0.0000	4.1000e-003	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0354	0.0354	0.0000	0.0000	0.0354	0.0354
Total	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	4.1000e-003	0.0000	4.1000e-003	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0354	0.0354	0.0000	0.0000	0.0354	0.0354

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4700e-003	0.0000	1.4700e-003	7.6000e-004	0.0000	7.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	0.0150	9.8200e-003	1.0000e-005		8.3000e-004	8.3000e-004		7.7000e-004	7.7000e-004	0.0000	0.9704	0.9704	2.9000e-004	0.0000	0.9765
Total	1.4300e-003	0.0150	9.8200e-003	1.0000e-005	1.4700e-003	8.3000e-004	2.3000e-003	7.6000e-004	7.7000e-004	1.5300e-003	0.0000	0.9704	0.9704	2.9000e-004	0.0000	0.9765

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	4.1000e-003	0.0000	4.1000e-003	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0354	0.0354	0.0000	0.0000	0.0354
Total	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	4.1000e-003	0.0000	4.1000e-003	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0354	0.0354	0.0000	0.0000	0.0354

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1849	1.2316	0.8358	1.2400e-003		0.0813	0.0813		0.0778	0.0778	0.0000	106.6951	106.6951	0.0246	0.0000	107.2114
Total	0.1849	1.2316	0.8358	1.2400e-003		0.0813	0.0813		0.0778	0.0778	0.0000	106.6951	106.6951	0.0246	0.0000	107.2114

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.0337	0.0573	8.0000e-005	0.1944	5.6000e-004	0.1950	0.0198	5.1000e-004	0.0203	0.0000	7.6191	7.6191	6.0000e-005	0.0000	0.0000	7.6204
Worker	3.2900e-003	4.2400e-003	0.0419	9.0000e-005	0.7792	6.0000e-005	0.7792	0.0789	5.0000e-005	0.0790	0.0000	6.7175	6.7175	3.5000e-004	0.0000	0.0000	6.7248
Total	8.1800e-003	0.0380	0.0992	1.7000e-004	0.9736	6.2000e-004	0.9742	0.0988	5.6000e-004	0.0993	0.0000	14.3367	14.3367	4.1000e-004	0.0000	0.0000	14.3453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1849	1.2316	0.8358	1.2400e-003		0.0813	0.0813		0.0778	0.0778	0.0000	106.6950	106.6950	0.0246	0.0000	107.2112
Total	0.1849	1.2316	0.8358	1.2400e-003		0.0813	0.0813		0.0778	0.0778	0.0000	106.6950	106.6950	0.0246	0.0000	107.2112

3.5 Building Construction - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.0337	0.0573	8.0000e-005	0.1944	5.6000e-004	0.1950	0.0198	5.1000e-004	0.0203	0.0000	7.6191	7.6191	6.0000e-005	0.0000	7.6204
Worker	3.2900e-003	4.2400e-003	0.0419	9.0000e-005	0.7792	6.0000e-005	0.7792	0.0789	5.0000e-005	0.0790	0.0000	6.7175	6.7175	3.5000e-004	0.0000	6.7248
Total	8.1800e-003	0.0380	0.0992	1.7000e-004	0.9736	6.2000e-004	0.9742	0.0988	5.6000e-004	0.0993	0.0000	14.3367	14.3367	4.1000e-004	0.0000	14.3453

3.6 Paving - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	3.3000e-004	3.3000e-003	1.0000e-005	0.0615	0.0000	0.0615	6.2300e-003	0.0000	6.2400e-003	0.0000	0.5303	0.5303	3.0000e-005	0.0000	0.5309
Total	2.6000e-004	3.3000e-004	3.3000e-003	1.0000e-005	0.0615	0.0000	0.0615	6.2300e-003	0.0000	6.2400e-003	0.0000	0.5303	0.5303	3.0000e-005	0.0000	0.5309

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376

3.6 Paving - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	3.3000e-004	3.3000e-003	1.0000e-005	0.0615	0.0000	0.0615	6.2300e-003	0.0000	6.2400e-003	0.0000	0.5303	0.5303	3.0000e-005	0.0000	0.5309
Total	2.6000e-004	3.3000e-004	3.3000e-003	1.0000e-005	0.0615	0.0000	0.0615	6.2300e-003	0.0000	6.2400e-003	0.0000	0.5303	0.5303	3.0000e-005	0.0000	0.5309

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	0.3147	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798

3.7 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	9.0000e-005	8.8000e-004	0.0000	0.0164	0.0000	0.0164	1.6600e-003	0.0000	1.6600e-003	0.0000	0.1414	0.1414	1.0000e-005	0.0000	0.1416
Total	7.0000e-005	9.0000e-005	8.8000e-004	0.0000	0.0164	0.0000	0.0164	1.6600e-003	0.0000	1.6600e-003	0.0000	0.1414	0.1414	1.0000e-005	0.0000	0.1416

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	0.3147	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
University/College (4Yr)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479563	0.067953	0.152843	0.149548	0.059518	0.006725	0.036021	0.034679	0.000926	0.001898	0.007583	0.000671	0.002073

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	87.5920	87.5920	3.9600e-003	8.2000e-004	87.9292
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	133.0047	133.0047	6.0100e-003	1.2400e-003	133.5168
NaturalGas Mitigated	7.3000e-003	0.0664	0.0558	4.0000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003	0.0000	72.2645	72.2645	1.3900e-003	1.3200e-003	72.7043
NaturalGas Unmitigated	0.0104	0.0948	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	103.2350	103.2350	1.9800e-003	1.8900e-003	103.8632

5.2 Energy by Land Use - NaturalGas
Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
University/College (4Yr)	1.93455e+006	0.0104	0.0948	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	103.2350	103.2350	1.9800e-003	1.8900e-003	103.8632
Total		0.0104	0.0948	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	103.2350	103.2350	1.9800e-003	1.8900e-003	103.8632

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
University/College (4Yr)	1.35419e+006	7.3000e-003	0.0664	0.0558	4.0000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003	0.0000	72.2645	72.2645	1.3900e-003	1.3200e-003	72.7043
Total		7.3000e-003	0.0664	0.0558	4.0000e-004		5.0500e-003	5.0500e-003		5.0500e-003	5.0500e-003	0.0000	72.2645	72.2645	1.3900e-003	1.3200e-003	72.7043

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
University/College (4Yr)	457200	133.0047	6.0100e-003	1.2400e-003	133.5168
Total		133.0047	6.0100e-003	1.2400e-003	133.5168

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	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	0.2070	0.0000	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Consumer Products	0.1758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Architectural Coating	0.0313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2070	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
University/College (4Yr)	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
University/College (4Yr)	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
University/College (4Yr)	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
University/College (4Yr)	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

**Walker Hall Renewal
Yolo County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	0.00	Employee	2.00	45,000.00	50

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage, square feet, and population set from default values to known values for the proposed project.

Construction Phase - Grading and Construction duration reduced from default values to reflect project is a renewal of an existing building, not construction of a new building. Project is mostly an interior renovation project and seismic upgrade project (in terms of overall construction effort)

Grading - Total acreage for site prep and grading reduced to reflect project specific details.

Demolition -

Vehicle Trips - Operational vehicle trips reduced from default values to reflect travel characteristics of UC Davis employees.

Road Dust - Percent paved roads increased to 100 percent to reflect characteristics of expected operational trip routes (none expected on unpaved routes). Note: This is operational, not construction trips.

Construction Off-road Equipment Mitigation - Construction traffic mitigation set to reflect adopted 2003 LRDP EIR mitigation measures.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	PhaseEndDate	11/22/2016	11/23/2016
tblConstructionPhase	PhaseEndDate	7/4/2016	7/5/2016
tblConstructionPhase	PhaseEndDate	12/7/2016	11/25/2016
tblConstructionPhase	PhaseStartDate	7/6/2016	7/7/2016
tblConstructionPhase	PhaseStartDate	7/2/2016	7/5/2016
tblConstructionPhase	PhaseStartDate	11/24/2016	11/12/2016
tblGrading	AcresOfGrading	3.00	0.50
tblLandUse	LandUseSquareFeet	0.00	45,000.00
tblLandUse	LotAcreage	0.00	2.00
tblLandUse	Population	0.00	50.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblRoadDust	RoadPercentPave	94	100
tblVehicleTrips	ST_TR	3.12	0.00
tblVehicleTrips	WD_TR	9.13	2.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.1916	0.5196	0.4365	3.1200e-003	0.0000	0.0395	0.0395	0.0000	0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403

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	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.1744	0.3637	0.3055	2.1800e-003	0.0000	0.0276	0.0276	0.0000	0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382

	ROG	NOx	CO	SO2	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	1.44	30.00	30.00	30.13	0.00	30.01	30.01	0.00	30.01	30.01	0.00	30.00	30.00	29.96	30.01	30.00

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	6/2/2016	6/29/2016	5	20	
2	Site Preparation	Site Preparation	6/30/2016	7/1/2016	5	2	
3	Grading	Grading	7/5/2016	7/5/2016	5	1	
4	Building Construction	Building Construction	7/7/2016	11/23/2016	5	100	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Scrapers	1	8.00	361	0.48
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	45.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	19.00	7.00	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	4.00	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
- Water Exposed Area
- Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5765	0.0000	0.5765	0.0873	0.0000	0.0873			0.0000			0.0000
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
Total	2.9066	28.2579	21.4980	0.0245	0.5765	1.7445	2.3211	0.0873	1.6328	1.7201		2,487.1296	2,487.1296	0.6288		2,500.3343

3.2 Demolition - 2016

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	0.0511	0.5650	0.5435	1.6800e-003	4.0113	9.0500e-003	4.0204	0.4068	8.3200e-003	0.4151		168.8376	168.8376	1.2000e-003			168.8627
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	0.0533	0.0520	0.6517	1.3500e-003	12.4996	7.7000e-004	12.5003	1.2641	7.0000e-004	1.2648		111.6109	111.6109	5.2400e-003			111.7209
Total	0.1044	0.6170	1.1952	3.0300e-003	16.5109	9.8200e-003	16.5207	1.6709	9.0200e-003	1.6799		280.4485	280.4485	6.4400e-003			280.5836

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2594	0.0000	0.2594	0.0393	0.0000	0.0393			0.0000			0.0000	
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
Total	2.9066	28.2579	21.4980	0.0245	0.2594	1.7445	2.0040	0.0393	1.6328	1.6720	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343

3.2 Demolition - 2016

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	0.0511	0.5650	0.5435	1.6800e-003	4.0113	9.0500e-003	4.0204	0.4068	8.3200e-003	0.4151		168.8376	168.8376	1.2000e-003			168.8627
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	0.0533	0.0520	0.6517	1.3500e-003	12.4996	7.7000e-004	12.5003	1.2641	7.0000e-004	1.2648		111.6109	111.6109	5.2400e-003			111.7209
Total	0.1044	0.6170	1.1952	3.0300e-003	16.5109	9.8200e-003	16.5207	1.6709	9.0200e-003	1.6799		280.4485	280.4485	6.4400e-003			280.5836

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000				0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907		2,480.1000	2,480.1000	0.7481			2,495.8099
Total	2.6992	30.8238	18.0600	0.0239	0.2651	1.5116	1.7768	0.0286	1.3907	1.4193		2,480.1000	2,480.1000	0.7481			2,495.8099

3.3 Site Preparation - 2016

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	0.0328	0.0320	0.4011	8.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		68.6836	68.6836	3.2200e-003			68.7513
Total	0.0328	0.0320	0.4011	8.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		68.6836	68.6836	3.2200e-003			68.7513

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.1193	0.0000	0.1193	0.0129	0.0000	0.0129			0.0000			0.0000	
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907	0.0000	2,480.1000	2,480.1000	0.7481			2,495.8099
Total	2.6992	30.8238	18.0600	0.0239	0.1193	1.5116	1.6310	0.0129	1.3907	1.4036	0.0000	2,480.1000	2,480.1000	0.7481			2,495.8099

3.3 Site Preparation - 2016

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	0.0328	0.0320	0.4011	8.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		68.6836	68.6836	3.2200e-003			68.7513
Total	0.0328	0.0320	0.4011	8.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		68.6836	68.6836	3.2200e-003			68.7513

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337		2,139.274 2	2,139.274 2	0.6453		2,152.825 1
Total	2.8530	29.9470	19.6345	0.0206	6.5523	1.6671	8.2195	3.3675	1.5337	4.9012		2,139.274 2	2,139.274 2	0.6453		2,152.825 1

3.4 Grading - 2016

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	0.0410	0.0400	0.5013	1.0400e-003	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		85.8545	85.8545	4.0300e-003		85.9392
Total	0.0410	0.0400	0.5013	1.0400e-003	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		85.8545	85.8545	4.0300e-003		85.9392

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337	0.0000	2,139.274 2	2,139.274 2	0.6453		2,152.825 1
Total	2.8530	29.9470	19.6345	0.0206	2.9486	1.6671	4.6157	1.5154	1.5337	3.0491	0.0000	2,139.274 2	2,139.274 2	0.6453		2,152.825 1

3.4 Grading - 2016

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	0.0410	0.0400	0.5013	1.0400e-003	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		85.8545	85.8545	4.0300e-003			85.9392
Total	0.0410	0.0400	0.5013	1.0400e-003	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		85.8545	85.8545	4.0300e-003			85.9392

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569		2,352.2239	2,352.2239	0.5420			2,363.6057
Total	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569		2,352.2239	2,352.2239	0.5420			2,363.6057

3.5 Building Construction - 2016

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	0.0878	0.6414	0.9050	1.6800e-003	4.5573	0.0111	4.5685	0.4632	0.0102	0.4734		168.5077	168.5077	1.3500e-003			168.5360
Worker	0.0779	0.0760	0.9526	1.9700e-003	18.2686	1.1200e-003	18.2697	1.8475	1.0300e-003	1.8485		163.1236	163.1236	7.6600e-003			163.2844
Total	0.1656	0.7174	1.8576	3.6500e-003	22.8259	0.0123	22.8382	2.3107	0.0113	2.3219		331.6313	331.6313	9.0100e-003			331.8204

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	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569	0.0000	2,352.2239	2,352.2239	0.5420			2,363.6057
Total	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569	0.0000	2,352.2239	2,352.2239	0.5420			2,363.6057

3.5 Building Construction - 2016

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	0.0878	0.6414	0.9050	1.6800e-003	4.5573	0.0111	4.5685	0.4632	0.0102	0.4734		168.5077	168.5077	1.3500e-003			168.5360
Worker	0.0779	0.0760	0.9526	1.9700e-003	18.2686	1.1200e-003	18.2697	1.8475	1.0300e-003	1.8485		163.1236	163.1236	7.6600e-003			163.2844
Total	0.1656	0.7174	1.8576	3.6500e-003	22.8259	0.0123	22.8382	2.3107	0.0113	2.3219		331.6313	331.6313	9.0100e-003			331.8204

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363		1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363		1,804.8600	1,804.8600	0.5344			1,816.0828

3.6 Paving - 2016

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	0.0615	0.0600	0.7520	1.5600e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		128.7818	128.7818	6.0500e-003			128.9088
Total	0.0615	0.0600	0.7520	1.5600e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		128.7818	128.7818	6.0500e-003			128.9088

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	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363	0.0000	1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363	0.0000	1,804.8600	1,804.8600	0.5344			1,816.0828

3.6 Paving - 2016

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	0.0615	0.0600	0.7520	1.5600e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		128.7818	128.7818	6.0500e-003			128.9088
Total	0.0615	0.0600	0.7520	1.5600e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		128.7818	128.7818	6.0500e-003			128.9088

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	62.5725					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
Total	62.9410	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449

3.7 Architectural Coating - 2016

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	0.0164	0.0160	0.2005	4.2000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		34.3418	34.3418	1.6100e-003			34.3757
Total	0.0164	0.0160	0.2005	4.2000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		34.3418	34.3418	1.6100e-003			34.3757

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	62.5725					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449
Total	62.9410	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449

3.7 Architectural Coating - 2016

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	0.0164	0.0160	0.2005	4.2000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		34.3418	34.3418	1.6100e-003		34.3757
Total	0.0164	0.0160	0.2005	4.2000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		34.3418	34.3418	1.6100e-003		34.3757

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
University/College (4Yr)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479563	0.067953	0.152843	0.149548	0.059518	0.006725	0.036021	0.034679	0.000926	0.001898	0.007583	0.000671	0.002073

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382
NaturalGas Unmitigated	0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403

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					
University/College (4Yr)	5300.14	0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403
Total		0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
University/College (4Yr)	3.7101	0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382
Total		0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382

6.0 Area Detail

6.1 Mitigation Measures Area

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	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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					
Consumer Products	0.9630					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Architectural Coating	0.1714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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					
Consumer Products	0.9630					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Architectural Coating	0.1714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

**Walker Hall Renewal
Yolo County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	0.00	Employee	2.00	45,000.00	50

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	6.8	Precipitation Freq (Days)	54
Climate Zone	2			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage, square feet, and population set from default values to known values for the proposed project.

Construction Phase - Grading and Construction duration reduced from default values to reflect project is a renewal of an existing building, not construction of a new building. Project is mostly an interior renovation project and seismic upgrade project (in terms of overall construction effort)

Grading - Total acreage for site prep and grading reduced to reflect project specific details.

Demolition -

Vehicle Trips - Operational vehicle trips reduced from default values to reflect travel characteristics of UC Davis employees.

Road Dust - Percent paved roads increased to 100 percent to reflect characteristics of expected operational trip routes (none expected on unpaved routes). Note: This is operational, not construction trips.

Construction Off-road Equipment Mitigation - Construction traffic mitigation set to reflect adopted 2003 LRDP EIR mitigation measures.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	PhaseEndDate	11/22/2016	11/23/2016
tblConstructionPhase	PhaseEndDate	7/4/2016	7/5/2016
tblConstructionPhase	PhaseEndDate	12/7/2016	11/25/2016
tblConstructionPhase	PhaseStartDate	7/6/2016	7/7/2016
tblConstructionPhase	PhaseStartDate	7/2/2016	7/5/2016
tblConstructionPhase	PhaseStartDate	11/24/2016	11/12/2016
tblGrading	AcresOfGrading	3.00	0.50
tblLandUse	LandUseSquareFeet	0.00	45,000.00
tblLandUse	LotAcreage	0.00	2.00
tblLandUse	Population	0.00	50.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblRoadDust	RoadPercentPave	94	100
tblVehicleTrips	ST_TR	3.12	0.00
tblVehicleTrips	WD_TR	9.13	2.00

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Energy	0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114		627.3403
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Total	1.1916	0.5196	0.4365	3.1200e-003	0.0000	0.0395	0.0395	0.0000	0.0395	0.0395		623.5455	623.5455	0.0120	0.0114		627.3403

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	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Energy	0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003		439.1382
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Total	1.1744	0.3637	0.3055	2.1800e-003	0.0000	0.0276	0.0276	0.0000	0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003		439.1382

	ROG	NOx	CO	SO2	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	1.44	30.00	30.00	30.13	0.00	30.01	30.01	0.00	30.01	30.01	0.00	30.00	30.00	29.96	30.01	30.00

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	6/2/2016	6/29/2016	5	20	
2	Site Preparation	Site Preparation	6/30/2016	7/1/2016	5	2	
3	Grading	Grading	7/5/2016	7/5/2016	5	1	
4	Building Construction	Building Construction	7/7/2016	11/23/2016	5	100	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Scrapers	1	8.00	361	0.48
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	45.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	19.00	7.00	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	4.00	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

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5765	0.0000	0.5765	0.0873	0.0000	0.0873			0.0000			0.0000
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.129 6	2,487.129 6	0.6288		2,500.334 3
Total	2.9066	28.2579	21.4980	0.0245	0.5765	1.7445	2.3211	0.0873	1.6328	1.7201		2,487.129 6	2,487.129 6	0.6288		2,500.334 3

3.2 Demolition - 2016

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	0.0651	0.6109	0.8657	1.6800e-003	4.0113	9.0800e-003	4.0204	0.4068	8.3400e-003	0.4152		168.4404	168.4404	1.2100e-003		168.4659
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	0.0472	0.0652	0.6000	1.1900e-003	12.4996	7.7000e-004	12.5003	1.2641	7.0000e-004	1.2648		98.5305	98.5305	5.2400e-003		98.6405
Total	0.1123	0.6761	1.4657	2.8700e-003	16.5109	9.8500e-003	16.5207	1.6709	9.0400e-003	1.6799		266.9709	266.9709	6.4500e-003		267.1064

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2594	0.0000	0.2594	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288		2,500.3343
Total	2.9066	28.2579	21.4980	0.0245	0.2594	1.7445	2.0040	0.0393	1.6328	1.6720	0.0000	2,487.1296	2,487.1296	0.6288		2,500.3343

3.2 Demolition - 2016

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	0.0651	0.6109	0.8657	1.6800e-003	4.0113	9.0800e-003	4.0204	0.4068	8.3400e-003	0.4152		168.4404	168.4404	1.2100e-003		168.4659
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	0.0472	0.0652	0.6000	1.1900e-003	12.4996	7.7000e-004	12.5003	1.2641	7.0000e-004	1.2648		98.5305	98.5305	5.2400e-003		98.6405
Total	0.1123	0.6761	1.4657	2.8700e-003	16.5109	9.8500e-003	16.5207	1.6709	9.0400e-003	1.6799		266.9709	266.9709	6.4500e-003		267.1064

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907		2,480.1000	2,480.1000	0.7481		2,495.8099
Total	2.6992	30.8238	18.0600	0.0239	0.2651	1.5116	1.7768	0.0286	1.3907	1.4193		2,480.1000	2,480.1000	0.7481		2,495.8099

3.3 Site Preparation - 2016

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	0.0291	0.0401	0.3692	7.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		60.6341	60.6341	3.2200e-003			60.7018
Total	0.0291	0.0401	0.3692	7.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		60.6341	60.6341	3.2200e-003			60.7018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1193	0.0000	0.1193	0.0129	0.0000	0.0129			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907	0.0000	2,480.1000	2,480.1000	0.7481		2,495.8099
Total	2.6992	30.8238	18.0600	0.0239	0.1193	1.5116	1.6310	0.0129	1.3907	1.4036	0.0000	2,480.1000	2,480.1000	0.7481		2,495.8099

3.3 Site Preparation - 2016

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	0.0291	0.0401	0.3692	7.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		60.6341	60.6341	3.2200e-003			60.7018
Total	0.0291	0.0401	0.3692	7.3000e-004	7.6920	4.7000e-004	7.6925	0.7779	4.3000e-004	0.7783		60.6341	60.6341	3.2200e-003			60.7018

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337		2,139.274 2	2,139.274 2	0.6453			2,152.825 1
Total	2.8530	29.9470	19.6345	0.0206	6.5523	1.6671	8.2195	3.3675	1.5337	4.9012		2,139.274 2	2,139.274 2	0.6453			2,152.825 1

3.4 Grading - 2016

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	0.0363	0.0502	0.4615	9.2000e-004	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		75.7927	75.7927	4.0300e-003		75.8773
Total	0.0363	0.0502	0.4615	9.2000e-004	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		75.7927	75.7927	4.0300e-003		75.8773

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					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337	0.0000	2,139.274 2	2,139.274 2	0.6453		2,152.825 1
Total	2.8530	29.9470	19.6345	0.0206	2.9486	1.6671	4.6157	1.5154	1.5337	3.0491	0.0000	2,139.274 2	2,139.274 2	0.6453		2,152.825 1

3.4 Grading - 2016

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	0.0363	0.0502	0.4615	9.2000e-004	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		75.7927	75.7927	4.0300e-003			75.8773
Total	0.0363	0.0502	0.4615	9.2000e-004	9.6151	5.9000e-004	9.6156	0.9724	5.4000e-004	0.9729		75.7927	75.7927	4.0300e-003			75.8773

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569		2,352.2239	2,352.2239	0.5420			2,363.6057
Total	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569		2,352.2239	2,352.2239	0.5420			2,363.6057

3.5 Building Construction - 2016

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	0.1176	0.6857	1.5459	1.6800e-003	4.5573	0.0113	4.5686	0.4632	0.0104	0.4735		167.2344	167.2344	1.3800e-003			167.2634
Worker	0.0690	0.0953	0.8769	1.7400e-003	18.2686	1.1200e-003	18.2697	1.8475	1.0300e-003	1.8485		144.0061	144.0061	7.6600e-003			144.1669
Total	0.1867	0.7810	2.4228	3.4200e-003	22.8259	0.0124	22.8383	2.3107	0.0114	2.3220		311.2405	311.2405	9.0400e-003			311.4302

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	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569	0.0000	2,352.2239	2,352.2239	0.5420			2,363.6057
Total	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569	0.0000	2,352.2239	2,352.2239	0.5420			2,363.6057

3.5 Building Construction - 2016

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	0.1176	0.6857	1.5459	1.6800e-003	4.5573	0.0113	4.5686	0.4632	0.0104	0.4735		167.2344	167.2344	1.3800e-003			167.2634
Worker	0.0690	0.0953	0.8769	1.7400e-003	18.2686	1.1200e-003	18.2697	1.8475	1.0300e-003	1.8485		144.0061	144.0061	7.6600e-003			144.1669
Total	0.1867	0.7810	2.4228	3.4200e-003	22.8259	0.0124	22.8383	2.3107	0.0114	2.3220		311.2405	311.2405	9.0400e-003			311.4302

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363		1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363		1,804.8600	1,804.8600	0.5344			1,816.0828

3.6 Paving - 2016

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	0.0545	0.0752	0.6923	1.3700e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		113.6890	113.6890	6.0500e-003			113.8160
Total	0.0545	0.0752	0.6923	1.3700e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		113.6890	113.6890	6.0500e-003			113.8160

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	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363	0.0000	1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363	0.0000	1,804.8600	1,804.8600	0.5344			1,816.0828

3.6 Paving - 2016

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	0.0545	0.0752	0.6923	1.3700e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		113.6890	113.6890	6.0500e-003			113.8160
Total	0.0545	0.0752	0.6923	1.3700e-003	14.4226	8.8000e-004	14.4235	1.4585	8.1000e-004	1.4594		113.6890	113.6890	6.0500e-003			113.8160

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	62.5725					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
Total	62.9410	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449

3.7 Architectural Coating - 2016

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	0.0145	0.0201	0.1846	3.7000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		30.3171	30.3171	1.6100e-003			30.3509
Total	0.0145	0.0201	0.1846	3.7000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		30.3171	30.3171	1.6100e-003			30.3509

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	62.5725					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449
Total	62.9410	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449

3.7 Architectural Coating - 2016

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	0.0145	0.0201	0.1846	3.7000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		30.3171	30.3171	1.6100e-003		30.3509
Total	0.0145	0.0201	0.1846	3.7000e-004	3.8460	2.4000e-004	3.8463	0.3889	2.2000e-004	0.3892		30.3171	30.3171	1.6100e-003		30.3509

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
University/College (4Yr)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479563	0.067953	0.152843	0.149548	0.059518	0.006725	0.036021	0.034679	0.000926	0.001898	0.007583	0.000671	0.002073

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382
NaturalGas Unmitigated	0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403

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					
University/College (4Yr)	5300.14	0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403
Total		0.0572	0.5196	0.4365	3.1200e-003		0.0395	0.0395		0.0395	0.0395		623.5455	623.5455	0.0120	0.0114	627.3403

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
University/College (4Yr)	3.7101	0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382
Total		0.0400	0.3637	0.3055	2.1800e-003		0.0276	0.0276		0.0276	0.0276		436.4819	436.4819	8.3700e-003	8.0000e-003	439.1382

6.0 Area Detail

6.1 Mitigation Measures Area

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	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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					
Consumer Products	0.9630					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Architectural Coating	0.1714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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					
Consumer Products	0.9630					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Architectural Coating	0.1714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1344	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

Walker Hall Renewal Yolo County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	Tier 3	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	Tier 3	0	2	No Change	0.00
Pavers	Diesel	Tier 3	0	1	No Change	0.00
Rollers	Diesel	Tier 3	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	0	8	No Change	0.00
Generator Sets	Diesel	Tier 3	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.84000E-003	1.18600E-002	9.42000E-003	1.00000E-005	9.80000E-004	9.80000E-004	0.00000E+000	1.27663E+000	1.27663E+000	1.50000E-004	0.00000E+000	1.27979E+000
Cement and Mortar Mixers	2.90000E-004	1.85000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29640E-001
Concrete/Industrial Saws	6.47000E-003	4.62200E-002	3.77500E-002	6.00000E-005	3.47000E-003	3.47000E-003	0.00000E+000	5.37657E+000	5.37657E+000	5.20000E-004	0.00000E+000	5.38750E+000
Cranes	3.60000E-002	4.26580E-001	1.49240E-001	2.80000E-004	1.93600E-002	1.78100E-002	0.00000E+000	2.65912E+001	2.65912E+001	8.02000E-003	0.00000E+000	2.67596E+001
Forklifts	1.98600E-002	1.70910E-001	1.10510E-001	1.30000E-004	1.42900E-002	1.31500E-002	0.00000E+000	1.25991E+001	1.25991E+001	3.80000E-003	0.00000E+000	1.26789E+001
Generator Sets	3.19600E-002	2.41740E-001	1.90160E-001	3.30000E-004	1.69400E-002	1.69400E-002	0.00000E+000	2.82604E+001	2.82604E+001	2.59000E-003	0.00000E+000	2.83147E+001
Graders	1.53000E-003	1.55700E-002	7.39000E-003	1.00000E-005	8.70000E-004	8.00000E-004	0.00000E+000	8.83700E-001	8.83700E-001	2.70000E-004	0.00000E+000	8.89300E-001
Pavers	2.01000E-003	2.25700E-002	1.42600E-002	2.00000E-005	1.12000E-003	1.03000E-003	0.00000E+000	2.12747E+000	2.12747E+000	6.40000E-004	0.00000E+000	2.14094E+000
Paving Equipment	1.53000E-003	1.78400E-002	1.27200E-002	2.00000E-005	8.90000E-004	8.10000E-004	0.00000E+000	1.89005E+000	1.89005E+000	5.70000E-004	0.00000E+000	1.90202E+000
Rollers	3.37000E-003	3.11300E-002	2.01300E-002	3.00000E-005	2.29000E-003	2.11000E-003	0.00000E+000	2.47188E+000	2.47188E+000	7.50000E-004	0.00000E+000	2.48754E+000
Rubber Tired Dozers	1.30000E-002	1.45640E-001	1.10090E-001	9.00000E-005	6.78000E-003	6.23000E-003	0.00000E+000	8.79610E+000	8.79610E+000	2.65000E-003	0.00000E+000	8.85181E+000
Scrapers	1.38000E-003	1.76000E-002	1.10200E-002	1.00000E-005	7.10000E-004	6.50000E-004	0.00000E+000	1.40385E+000	1.40385E+000	4.20000E-004	0.00000E+000	1.41274E+000
Tractors/Loaders/Backhoes	2.52900E-002	2.41690E-001	1.79140E-001	2.30000E-004	1.86100E-002	1.71200E-002	0.00000E+000	2.18024E+001	2.18024E+001	6.58000E-003	0.00000E+000	2.19405E+001
Welders	8.43300E-002	2.70310E-001	2.95450E-001	3.80000E-004	2.13000E-002	2.13000E-002	0.00000E+000	2.82331E+001	2.82331E+001	6.86000E-003	0.00000E+000	2.83771E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.84000E-003	1.18600E-002	9.42000E-003	1.00000E-005	9.80000E-004	9.80000E-004	0.00000E+000	1.27663E+000	1.27663E+000	1.50000E-004	0.00000E+000	1.27979E+000
Cement and Mortar Mixers	2.90000E-004	1.85000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29640E-001
Concrete/Industrial Saws	6.47000E-003	4.62200E-002	3.77500E-002	6.00000E-005	3.47000E-003	3.47000E-003	0.00000E+000	5.37657E+000	5.37657E+000	5.20000E-004	0.00000E+000	5.38749E+000
Cranes	3.60000E-002	4.26580E-001	1.49240E-001	2.80000E-004	1.93600E-002	1.78100E-002	0.00000E+000	2.65911E+001	2.65911E+001	8.02000E-003	0.00000E+000	2.67596E+001
Forklifts	1.98600E-002	1.70910E-001	1.10510E-001	1.30000E-004	1.42900E-002	1.31500E-002	0.00000E+000	1.25991E+001	1.25991E+001	3.80000E-003	0.00000E+000	1.26789E+001
Generator Sets	3.19600E-002	2.41740E-001	1.90160E-001	3.30000E-004	1.69400E-002	1.69400E-002	0.00000E+000	2.82603E+001	2.82603E+001	2.59000E-003	0.00000E+000	2.83146E+001
Graders	1.53000E-003	1.55700E-002	7.39000E-003	1.00000E-005	8.70000E-004	8.00000E-004	0.00000E+000	8.83700E-001	8.83700E-001	2.70000E-004	0.00000E+000	8.89290E-001
Pavers	2.01000E-003	2.25700E-002	1.42600E-002	2.00000E-005	1.12000E-003	1.03000E-003	0.00000E+000	2.12747E+000	2.12747E+000	6.40000E-004	0.00000E+000	2.14094E+000
Paving Equipment	1.53000E-003	1.78400E-002	1.27200E-002	2.00000E-005	8.90000E-004	8.10000E-004	0.00000E+000	1.89004E+000	1.89004E+000	5.70000E-004	0.00000E+000	1.90202E+000
Rollers	3.37000E-003	3.11300E-002	2.01300E-002	3.00000E-005	2.29000E-003	2.11000E-003	0.00000E+000	2.47188E+000	2.47188E+000	7.50000E-004	0.00000E+000	2.48753E+000
Rubber Tired Dozers	1.30000E-002	1.45640E-001	1.10090E-001	9.00000E-005	6.78000E-003	6.23000E-003	0.00000E+000	8.79609E+000	8.79609E+000	2.65000E-003	0.00000E+000	8.85180E+000
Scrapers	1.38000E-003	1.76000E-002	1.10200E-002	1.00000E-005	7.10000E-004	6.50000E-004	0.00000E+000	1.40384E+000	1.40384E+000	4.20000E-004	0.00000E+000	1.41274E+000
Tractors/Loaders/Backhoes	2.52900E-002	2.41690E-001	1.79140E-001	2.30000E-004	1.86100E-002	1.71200E-002	0.00000E+000	2.18024E+001	2.18024E+001	6.58000E-003	0.00000E+000	2.19405E+001
Welders	8.43300E-002	2.70310E-001	2.95450E-001	3.80000E-004	2.13000E-002	2.13000E-002	0.00000E+000	2.82331E+001	2.82331E+001	6.86000E-003	0.00000E+000	2.83770E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85615E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12819E-006	1.12819E-006	0.00000E+000	0.00000E+000	1.12109E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.58741E-006	1.58741E-006	0.00000E+000	0.00000E+000	7.88709E-007
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06156E-006	1.06156E-006	0.00000E+000	0.00000E+000	1.41269E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12448E-005
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	5.29087E-006	5.29087E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.02004E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13687E-006	1.13687E-006	0.00000E+000	0.00000E+000	1.12971E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.12327E-006	7.12327E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.37599E-006	1.37599E-006	0.00000E+000	0.00000E+000	1.36733E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.40959E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input			
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.02	0.00	0.02	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.97	0.10	0.97	0.10	0.00	0.00
Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Demolition	Roads	0.14	0.01	0.14	0.01	0.00	0.00
Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.55
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.06	0.01	0.06	0.01	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.56	0.67
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.14	34.14	34.11	33.87	34.14
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	30.01	30.00	30.00	29.82	29.96	29.96	0.00	30.00	30.00	29.80	30.16	30.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	150.00
Yes	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	30.00	
Yes	Install High Efficiency Lighting	40.00	
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

DishWasher	15.00
Fan	50.00
Refrigerator	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	15.00	15.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	80.00