

APPENDIX B
Air Quality Modeling Data

Lincoln SUD-B SP Construction (Phase 1C)
Placer-Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	24.86	Acre	24.86	1,082,901.60	0
Motel	100.00	Room	4.50	196,020.00	0
Free-Standing Discount Superstore	119.47	1000sqft	2.74	119,474.00	0
Regional Shopping Center	227.40	1000sqft	5.22	227,398.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1C includes 100 room hotel, parking, and commercial (assumed 66% of total big box and commercial)

Construction Phase - Assumed construction start 1/18 over 2-years and overlapped with Paving.

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	64,974.00	66,229.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Parking	64974	46679
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	740.00	410.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	1/31/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/13/2019	11/12/2019
tblConstructionPhase	PhaseStartDate	12/14/2019	11/13/2019

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tblConstructionPhase	PhaseStartDate	10/26/2019	9/25/2019
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	LightingElect	3.49	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24E	1.37	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	NT24NG	0.26	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24E	1.96	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24NG	11.39	0.00
tblEnergyUse	T24NG	26.60	0.00
tblEnergyUse	T24NG	11.39	0.00
tblLandUse	BuildingSpaceSquareFeet	119,470.00	119,474.00
tblLandUse	BuildingSpaceSquareFeet	227,400.00	227,398.00
tblLandUse	LandUseSquareFeet	119,470.00	119,474.00
tblLandUse	LandUseSquareFeet	227,400.00	227,398.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	513.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	238.77	0.00
tblTripsAndVMT	VendorTripNumber	266.00	270.00
tblTripsAndVMT	WorkerTripNumber	648.00	657.00
tblTripsAndVMT	WorkerTripNumber	130.00	131.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	5.63	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	5.63	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	5.63	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	8,849,444.14	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	16,844,091.39	0.00
tblWater	OutdoorWaterUseRate	5,423,852.86	0.00
tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	10,323,797.95	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/26/2018	5	20	
2	Grading	Grading	1/27/2018	3/30/2018	5	45	
3	Building Construction	Building Construction	3/31/2018	10/25/2019	5	410	
4	Paving	Paving	9/25/2019	11/12/2019	5	35	
5	Architectural Coating	Architectural Coating	11/13/2019	12/31/2019	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 24.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 814,338; Non-Residential Outdoor: 271,446; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	657.00	270.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	131.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0502	0.5227	0.2513	4.1000e-004		0.0289	0.0289		0.0266	0.0266	0.0000	37.8407	37.8407	0.0118	0.0000	38.1352
Total	0.0502	0.5227	0.2513	4.1000e-004	0.1807	0.0289	0.2095	0.0993	0.0266	0.1259	0.0000	37.8407	37.8407	0.0118	0.0000	38.1352

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235
Total	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0502	0.5227	0.2513	4.1000e-004		0.0289	0.0289		0.0266	0.0266	0.0000	37.8406	37.8406	0.0118	0.0000	38.1352
Total	0.0502	0.5227	0.2513	4.1000e-004	0.0813	0.0289	0.1102	0.0447	0.0266	0.0712	0.0000	37.8406	37.8406	0.0118	0.0000	38.1352

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235
Total	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1247	1.4308	0.8492	1.4700e-003		0.0662	0.0662		0.0609	0.0609	0.0000	134.3909	134.3909	0.0418	0.0000	135.4368
Total	0.1247	1.4308	0.8492	1.4700e-003	0.1952	0.0662	0.2614	0.0809	0.0609	0.1419	0.0000	134.3909	134.3909	0.0418	0.0000	135.4368

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	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532
Total	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0878	0.0000	0.0878	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1247	1.4308	0.8492	1.4700e-003		0.0662	0.0662		0.0609	0.0609	0.0000	134.3907	134.3907	0.0418	0.0000	135.4367
Total	0.1247	1.4308	0.8492	1.4700e-003	0.0878	0.0662	0.1540	0.0364	0.0609	0.0973	0.0000	134.3907	134.3907	0.0418	0.0000	135.4367

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	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532
Total	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2626	2.2922	1.7229	2.6400e-003		0.1470	0.1470		0.1382	0.1382	0.0000	233.0119	233.0119	0.0571	0.0000	234.4391
Total	0.2626	2.2922	1.7229	2.6400e-003		0.1470	0.1470		0.1382	0.1382	0.0000	233.0119	233.0119	0.0571	0.0000	234.4391

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	0.1255	3.4593	0.7580	7.2700e-003	0.1563	0.0232	0.1795	0.0452	0.0222	0.0675	0.0000	689.4457	689.4457	0.0404	0.0000	690.4564
Worker	0.3756	0.2963	3.0067	7.9200e-003	0.7862	5.1600e-003	0.7913	0.2092	4.7600e-003	0.2140	0.0000	715.2811	715.2811	0.0205	0.0000	715.7937
Total	0.5010	3.7556	3.7646	0.0152	0.9424	0.0284	0.9708	0.2544	0.0270	0.2814	0.0000	1,404.7268	1,404.7268	0.0609	0.0000	1,406.2501

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	0.2626	2.2922	1.7229	2.6400e-003		0.1470	0.1470		0.1382	0.1382	0.0000	233.0116	233.0116	0.0571	0.0000	234.4388
Total	0.2626	2.2922	1.7229	2.6400e-003		0.1470	0.1470		0.1382	0.1382	0.0000	233.0116	233.0116	0.0571	0.0000	234.4388

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	0.1255	3.4593	0.7580	7.2700e-003	0.1563	0.0232	0.1795	0.0452	0.0222	0.0675	0.0000	689.4457	689.4457	0.0404	0.0000	690.4564
Worker	0.3756	0.2963	3.0067	7.9200e-003	0.7862	5.1600e-003	0.7913	0.2092	4.7600e-003	0.2140	0.0000	715.2811	715.2811	0.0205	0.0000	715.7937
Total	0.5010	3.7556	3.7646	0.0152	0.9424	0.0284	0.9708	0.2544	0.0270	0.2814	0.0000	1,404.7268	1,404.7268	0.0609	0.0000	1,406.2501

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2526	2.2554	1.8365	2.8800e-003		0.1380	0.1380		0.1298	0.1298	0.0000	251.5615	251.5615	0.0613	0.0000	253.0936
Total	0.2526	2.2554	1.8365	2.8800e-003		0.1380	0.1380		0.1298	0.1298	0.0000	251.5615	251.5615	0.0613	0.0000	253.0936

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	0.1209	3.5689	0.7390	7.8600e-003	0.1706	0.0206	0.1912	0.0494	0.0197	0.0691	0.0000	746.3927	746.3927	0.0420	0.0000	747.4415
Worker	0.3716	0.2843	2.9339	8.3800e-003	0.8584	5.5800e-003	0.8639	0.2284	5.1400e-003	0.2336	0.0000	757.5486	757.5486	0.0199	0.0000	758.0452
Total	0.4925	3.8533	3.6729	0.0162	1.0290	0.0262	1.0551	0.2778	0.0248	0.3026	0.0000	1,503.9413	1,503.9413	0.0618	0.0000	1,505.4867

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2526	2.2554	1.8365	2.8800e-003		0.1380	0.1380		0.1298	0.1298	0.0000	251.5612	251.5612	0.0613	0.0000	253.0933
Total	0.2526	2.2554	1.8365	2.8800e-003		0.1380	0.1380		0.1298	0.1298	0.0000	251.5612	251.5612	0.0613	0.0000	253.0933

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	0.1209	3.5689	0.7390	7.8600e-003	0.1706	0.0206	0.1912	0.0494	0.0197	0.0691	0.0000	746.3927	746.3927	0.0420	0.0000	747.4415
Worker	0.3716	0.2843	2.9339	8.3800e-003	0.8584	5.5800e-003	0.8639	0.2284	5.1400e-003	0.2336	0.0000	757.5486	757.5486	0.0199	0.0000	758.0452
Total	0.4925	3.8533	3.6729	0.0162	1.0290	0.0262	1.0551	0.2778	0.0248	0.3026	0.0000	1,503.9413	1,503.9413	0.0618	0.0000	1,505.4867

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0255	0.2668	0.2566	4.0000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	35.8316	35.8316	0.0113	0.0000	36.1150
Paving	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0580	0.2668	0.2566	4.0000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	35.8316	35.8316	0.0113	0.0000	36.1150

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306
Total	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306

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	0.0255	0.2668	0.2566	4.0000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	35.8315	35.8315	0.0113	0.0000	36.1149
Paving	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0580	0.2668	0.2566	4.0000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	35.8315	35.8315	0.0113	0.0000	36.1149

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306
Total	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0321	0.0322	5.0000e-005		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776
Total	2.6745	0.0321	0.0322	5.0000e-005		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	9.2700e-003	0.0957	2.7000e-004	0.0280	1.8000e-004	0.0282	7.4500e-003	1.7000e-004	7.6200e-003	0.0000	24.7042	24.7042	6.5000e-004	0.0000	24.7204
Total	0.0121	9.2700e-003	0.0957	2.7000e-004	0.0280	1.8000e-004	0.0282	7.4500e-003	1.7000e-004	7.6200e-003	0.0000	24.7042	24.7042	6.5000e-004	0.0000	24.7204

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0321	0.0322	5.0000e-005		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776
Total	2.6745	0.0321	0.0322	5.0000e-005		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	9.2700e-003	0.0957	2.7000e-004	0.0280	1.8000e-004	0.0282	7.4500e-003	1.7000e-004	7.6200e-003	0.0000	24.7042	24.7042	6.5000e-004	0.0000	24.7204
Total	0.0121	9.2700e-003	0.0957	2.7000e-004	0.0280	1.8000e-004	0.0282	7.4500e-003	1.7000e-004	7.6200e-003	0.0000	24.7042	24.7042	6.5000e-004	0.0000	24.7204

Lincoln SUD-B SP Construction (Phase 1C)
Placer-Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	24.86	Acre	24.86	1,082,901.60	0
Motel	100.00	Room	4.50	196,020.00	0
Free-Standing Discount Superstore	119.47	1000sqft	2.74	119,474.00	0
Regional Shopping Center	227.40	1000sqft	5.22	227,398.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1C includes 100 room hotel, parking, and commercial (assumed 66% of total big box and commercial)

Construction Phase - Assumed construction start 1/18 over 2-years and overlapped with Paving.

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Lincoln SUD-B SP Construction (Phase 1C) - Placer-Sacramento County, Summer

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	64,974.00	66,229.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Parking	64974	46679
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	740.00	410.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	1/31/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/13/2019	11/12/2019
tblConstructionPhase	PhaseStartDate	12/14/2019	11/13/2019

Lincoln SUD-B SP Construction (Phase 1C) - Placer-Sacramento County, Summer

tblConstructionPhase	PhaseStartDate	10/26/2019	9/25/2019
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	LightingElect	3.49	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24E	1.37	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	NT24NG	0.26	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24E	1.96	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24NG	11.39	0.00
tblEnergyUse	T24NG	26.60	0.00
tblEnergyUse	T24NG	11.39	0.00
tblLandUse	BuildingSpaceSquareFeet	119,470.00	119,474.00
tblLandUse	BuildingSpaceSquareFeet	227,400.00	227,398.00
tblLandUse	LandUseSquareFeet	119,470.00	119,474.00
tblLandUse	LandUseSquareFeet	227,400.00	227,398.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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 Lincoln SUD-B SP Construction (Phase 1C) - Placer-Sacramento County, Summer

tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	513.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	238.77	0.00
tblTripsAndVMT	VendorTripNumber	266.00	270.00
tblTripsAndVMT	WorkerTripNumber	648.00	657.00
tblTripsAndVMT	WorkerTripNumber	130.00	131.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	5.63	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	5.63	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	5.63	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	8,849,444.14	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	16,844,091.39	0.00
tblWater	OutdoorWaterUseRate	5,423,852.86	0.00
tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	10,323,797.95	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/26/2018	5	20	
2	Grading	Grading	1/27/2018	3/30/2018	5	45	
3	Building Construction	Building Construction	3/31/2018	10/25/2019	5	410	
4	Paving	Paving	9/25/2019	11/12/2019	5	35	
5	Architectural Coating	Architectural Coating	11/13/2019	12/31/2019	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 24.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 814,338; Non-Residential Outdoor: 271,446; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	657.00	270.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	131.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986			4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986			4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003			268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003			268.7007

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	8.1298	2.8864	11.0162	4.4688	2.6555	7.1243	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	3.9030	2.9432	6.8462	1.6184	2.7078	4.3262	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.2513	34.7118	7.0390	0.0753	1.6542	0.2346	1.8888	0.4763	0.2244	0.7007		7,872.1738	7,872.1738	0.4302		7,882.9278
Worker	4.1466	2.6576	35.1139	0.0886	8.3919	0.0527	8.4446	2.2255	0.0486	2.2740		8,820.4861	8,820.4861	0.2533		8,826.8190
Total	5.3979	37.3693	42.1529	0.1639	10.0461	0.2873	10.3333	2.7018	0.2730	2.9748		16,692.6599	16,692.6599	0.6835		16,709.7468

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.2513	34.7118	7.0390	0.0753	1.6542	0.2346	1.8888	0.4763	0.2244	0.7007		7,872.1738	7,872.1738	0.4302		7,882.9278
Worker	4.1466	2.6576	35.1139	0.0886	8.3919	0.0527	8.4446	2.2255	0.0486	2.2740		8,820.4861	8,820.4861	0.2533		8,826.8190
Total	5.3979	37.3693	42.1529	0.1639	10.0461	0.2873	10.3333	2.7018	0.2730	2.9748		16,692.6599	16,692.6599	0.6835		16,709.7468

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.1036	32.8447	6.2658	0.0746	1.6541	0.1903	1.8444	0.4763	0.1820	0.6583		7,806.5119	7,806.5119	0.4084		7,816.7211
Worker	3.7621	2.3372	31.5687	0.0859	8.3919	0.0521	8.4440	2.2255	0.0481	2.2735		8,556.5637	8,556.5637	0.2257		8,562.2055
Total	4.8657	35.1819	37.8345	0.1605	10.0460	0.2424	10.2884	2.7018	0.2301	2.9318		16,363.0755	16,363.0755	0.6341		16,378.9266

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.1036	32.8447	6.2658	0.0746	1.6541	0.1903	1.8444	0.4763	0.1820	0.6583		7,806.5119	7,806.5119	0.4084		7,816.7211
Worker	3.7621	2.3372	31.5687	0.0859	8.3919	0.0521	8.4440	2.2255	0.0481	2.2735		8,556.5637	8,556.5637	0.2257		8,562.2055
Total	4.8657	35.1819	37.8345	0.1605	10.0460	0.2424	10.2884	2.7018	0.2301	2.9318		16,363.0755	16,363.0755	0.6341		16,378.9266

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3154	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841
Total	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3154	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841
Total	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	152.5594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	152.8259	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.7501	0.4660	6.2945	0.0171	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,706.1033	1,706.1033	0.0450		1,707.2282
Total	0.7501	0.4660	6.2945	0.0171	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,706.1033	1,706.1033	0.0450		1,707.2282

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	152.5594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	152.8259	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.7501	0.4660	6.2945	0.0171	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,706.1033	1,706.1033	0.0450		1,707.2282
Total	0.7501	0.4660	6.2945	0.0171	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,706.1033	1,706.1033	0.0450		1,707.2282

Lincoln SUD-B SP Construction (Phase 1C)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	24.86	Acre	24.86	1,082,901.60	0
Motel	100.00	Room	4.50	196,020.00	0
Free-Standing Discount Superstore	119.47	1000sqft	2.74	119,474.00	0
Regional Shopping Center	227.40	1000sqft	5.22	227,398.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1C includes 100 room hotel, parking, and commercial (assumed 66% of total big box and commercial)

Construction Phase - Assumed construction start 1/18 over 2-years and overlapped with Paving.

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	64,974.00	66,229.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Parking	64974	46679
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	740.00	410.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	1/31/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/13/2019	11/12/2019
tblConstructionPhase	PhaseStartDate	12/14/2019	11/13/2019

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 Lincoln SUD-B SP Construction (Phase 1C) - Placer-Sacramento County, Winter

tblConstructionPhase	PhaseStartDate	10/26/2019	9/25/2019
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	LightingElect	3.49	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24E	1.37	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	NT24NG	0.26	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24E	1.96	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24NG	11.39	0.00
tblEnergyUse	T24NG	26.60	0.00
tblEnergyUse	T24NG	11.39	0.00
tblLandUse	BuildingSpaceSquareFeet	119,470.00	119,474.00
tblLandUse	BuildingSpaceSquareFeet	227,400.00	227,398.00
tblLandUse	LandUseSquareFeet	119,470.00	119,474.00
tblLandUse	LandUseSquareFeet	227,400.00	227,398.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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 Lincoln SUD-B SP Construction (Phase 1C) - Placer-Sacramento County, Winter

tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	513.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	238.77	0.00
tblTripsAndVMT	VendorTripNumber	266.00	270.00
tblTripsAndVMT	WorkerTripNumber	648.00	657.00
tblTripsAndVMT	WorkerTripNumber	130.00	131.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	5.63	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	5.63	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	5.63	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	8,849,444.14	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	16,844,091.39	0.00
tblWater	OutdoorWaterUseRate	5,423,852.86	0.00
tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	10,323,797.95	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/26/2018	5	20	
2	Grading	Grading	1/27/2018	3/30/2018	5	45	
3	Building Construction	Building Construction	3/31/2018	10/25/2019	5	410	
4	Paving	Paving	9/25/2019	11/12/2019	5	35	
5	Architectural Coating	Architectural Coating	11/13/2019	12/31/2019	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 24.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 814,338; Non-Residential Outdoor: 271,446; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	657.00	270.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	131.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	8.1298	2.8864	11.0162	4.4688	2.6555	7.1243	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	3.9030	2.9432	6.8462	1.6184	2.7078	4.3262	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.3223	35.1429	8.5208	0.0726	1.6542	0.2404	1.8945	0.4763	0.2299	0.7063		7,593.1185	7,593.1185	0.4841		7,605.2216
Worker	4.2355	3.3389	30.8242	0.0788	8.3919	0.0527	8.4446	2.2255	0.0486	2.2740		7,847.1622	7,847.1622	0.2284		7,852.8717
Total	5.5578	38.4818	39.3450	0.1514	10.0461	0.2930	10.3391	2.7018	0.2785	2.9803		15,440.2808	15,440.2808	0.7125		15,458.0933

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.3223	35.1429	8.5208	0.0726	1.6542	0.2404	1.8945	0.4763	0.2299	0.7063		7,593.1185	7,593.1185	0.4841		7,605.2216
Worker	4.2355	3.3389	30.8242	0.0788	8.3919	0.0527	8.4446	2.2255	0.0486	2.2740		7,847.1622	7,847.1622	0.2284		7,852.8717
Total	5.5578	38.4818	39.3450	0.1514	10.0461	0.2930	10.3391	2.7018	0.2785	2.9803		15,440.2808	15,440.2808	0.7125		15,458.0933

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.1680	33.1910	7.6281	0.0720	1.6541	0.1954	1.8495	0.4763	0.1869	0.6632		7,527.5580	7,527.5580	0.4609		7,539.0805
Worker	3.8388	2.9350	27.4376	0.0764	8.3919	0.0521	8.4440	2.2255	0.0481	2.2735		7,611.6824	7,611.6824	0.2021		7,616.7344
Total	5.0068	36.1259	35.0656	0.1484	10.0460	0.2475	10.2936	2.7018	0.2350	2.9367		15,139.2404	15,139.2404	0.6630		15,155.8149

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.1680	33.1910	7.6281	0.0720	1.6541	0.1954	1.8495	0.4763	0.1869	0.6632		7,527.5580	7,527.5580	0.4609		7,539.0805
Worker	3.8388	2.9350	27.4376	0.0764	8.3919	0.0521	8.4440	2.2255	0.0481	2.2735		7,611.6824	7,611.6824	0.2021		7,616.7344
Total	5.0068	36.1259	35.0656	0.1484	10.0460	0.2475	10.2936	2.7018	0.2350	2.9367		15,139.2404	15,139.2404	0.6630		15,155.8149

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3154	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981
Total	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3154	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981
Total	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	152.5594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	152.8259	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.7654	0.5852	5.4708	0.0152	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,517.7023	1,517.7023	0.0403		1,518.7096
Total	0.7654	0.5852	5.4708	0.0152	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,517.7023	1,517.7023	0.0403		1,518.7096

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	152.5594					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	152.8259	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.7654	0.5852	5.4708	0.0152	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,517.7023	1,517.7023	0.0403		1,518.7096
Total	0.7654	0.5852	5.4708	0.0152	1.6733	0.0104	1.6837	0.4437	9.5800e-003	0.4533		1,517.7023	1,517.7023	0.0403		1,518.7096

**Lincoln SUD-B SP Construction (Phases 1A and 1B)
 Placer-Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	16.05	Acre	16.05	699,138.00	0
City Park	5.10	Acre	5.10	222,156.00	0
Single Family Housing	317.00	Dwelling Unit	48.15	570,600.00	907

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year	2020		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1A and 1B includes 317 residential units and 5.1 acres of park space (assumed 75% of residential units developed in 1A and 1B and 25% paved acreage in PA-6).

Construction Phase - Assumed construction start 7/18 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	1,110.00	575.00
tblConstructionPhase	NumDays	110.00	70.00
tblConstructionPhase	NumDays	75.00	60.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00

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tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	City Park	Other Asphalt Surfaces
tblLandUse	LotAcreage	102.92	48.15
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.44	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	6,076,554.88	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	8/24/2018	5	40	
2	Grading	Grading	8/25/2018	11/30/2018	5	70	
3	Building Construction	Building Construction	12/1/2018	2/12/2021	5	575	
4	Paving	Paving	1/12/2021	4/5/2021	5	60	
5	Architectural Coating	Architectural Coating	4/6/2021	6/28/2021	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 175

Acres of Paving: 16.05

Residential Indoor: 1,155,465; Residential Outdoor: 385,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

Lincoln SUD-B SP Construction (Phases 1A and 1B) - Placer-Sacramento County, Annual

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	501.00	185.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	100.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1003	1.0454	0.5026	8.3000e-004		0.0577	0.0577		0.0531	0.0531	0.0000	75.6814	75.6814	0.0236	0.0000	76.2704
Total	0.1003	1.0454	0.5026	8.3000e-004	0.3613	0.0577	0.4191	0.1986	0.0531	0.2517	0.0000	75.6814	75.6814	0.0236	0.0000	76.2704

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	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469
Total	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1626	0.0000	0.1626	0.0894	0.0000	0.0894	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1003	1.0454	0.5026	8.3000e-004		0.0577	0.0577		0.0531	0.0531	0.0000	75.6813	75.6813	0.0236	0.0000	76.2703
Total	0.1003	1.0454	0.5026	8.3000e-004	0.1626	0.0577	0.2203	0.0894	0.0531	0.1425	0.0000	75.6813	75.6813	0.0236	0.0000	76.2703

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	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469
Total	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3036	0.0000	0.3036	0.1259	0.0000	0.1259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1940	2.2257	1.3209	2.2900e-003		0.1030	0.1030		0.0948	0.0948	0.0000	209.0525	209.0525	0.0651	0.0000	210.6795
Total	0.1940	2.2257	1.3209	2.2900e-003	0.3036	0.1030	0.4066	0.1259	0.0948	0.2207	0.0000	209.0525	209.0525	0.0651	0.0000	210.6795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494
Total	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1366	0.0000	0.1366	0.0566	0.0000	0.0566	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1940	2.2257	1.3209	2.2900e-003		0.1030	0.1030		0.0948	0.0948	0.0000	209.0522	209.0522	0.0651	0.0000	210.6793
Total	0.1940	2.2257	1.3209	2.2900e-003	0.1366	0.1030	0.2396	0.0566	0.0948	0.1514	0.0000	209.0522	209.0522	0.0651	0.0000	210.6793

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494
Total	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0281	0.2456	0.1846	2.8000e-004		0.0158	0.0158		0.0148	0.0148	0.0000	24.9656	24.9656	6.1200e-003	0.0000	25.1185
Total	0.0281	0.2456	0.1846	2.8000e-004		0.0158	0.0158		0.0148	0.0148	0.0000	24.9656	24.9656	6.1200e-003	0.0000	25.1185

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2100e-003	0.2540	0.0556	5.3000e-004	0.0115	1.7100e-003	0.0132	3.3200e-003	1.6300e-003	4.9500e-003	0.0000	50.6141	50.6141	2.9700e-003	0.0000	50.6883
Worker	0.0307	0.0242	0.2457	6.5000e-004	0.0642	4.2000e-004	0.0647	0.0171	3.9000e-004	0.0175	0.0000	58.4403	58.4403	1.6800e-003	0.0000	58.4822
Total	0.0399	0.2782	0.3013	1.1800e-003	0.0757	2.1300e-003	0.0778	0.0204	2.0200e-003	0.0224	0.0000	109.0544	109.0544	4.6500e-003	0.0000	109.1704

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0281	0.2456	0.1846	2.8000e-004		0.0158	0.0158		0.0148	0.0148	0.0000	24.9655	24.9655	6.1200e-003	0.0000	25.1184
Total	0.0281	0.2456	0.1846	2.8000e-004		0.0158	0.0158		0.0148	0.0148	0.0000	24.9655	24.9655	6.1200e-003	0.0000	25.1184

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2100e-003	0.2540	0.0556	5.3000e-004	0.0115	1.7100e-003	0.0132	3.3200e-003	1.6300e-003	4.9500e-003	0.0000	50.6141	50.6141	2.9700e-003	0.0000	50.6883
Worker	0.0307	0.0242	0.2457	6.5000e-004	0.0642	4.2000e-004	0.0647	0.0171	3.9000e-004	0.0175	0.0000	58.4403	58.4403	1.6800e-003	0.0000	58.4822
Total	0.0399	0.2782	0.3013	1.1800e-003	0.0757	2.1300e-003	0.0778	0.0204	2.0200e-003	0.0224	0.0000	109.0544	109.0544	4.6500e-003	0.0000	109.1704

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

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	0.1011	2.9825	0.6176	6.5700e-003	0.1426	0.0172	0.1598	0.0413	0.0165	0.0577	0.0000	623.7379	623.7379	0.0351	0.0000	624.6143
Worker	0.3456	0.2644	2.7286	7.8000e-003	0.7983	5.1900e-003	0.8035	0.2124	4.7800e-003	0.2172	0.0000	704.5464	704.5464	0.0185	0.0000	705.0083
Total	0.4466	3.2469	3.3462	0.0144	0.9409	0.0224	0.9633	0.2537	0.0212	0.2750	0.0000	1,328.2842	1,328.2842	0.0535	0.0000	1,329.6225

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

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	0.1011	2.9825	0.6176	6.5700e-003	0.1426	0.0172	0.1598	0.0413	0.0165	0.0577	0.0000	623.7379	623.7379	0.0351	0.0000	624.6143
Worker	0.3456	0.2644	2.7286	7.8000e-003	0.7983	5.1900e-003	0.8035	0.2124	4.7800e-003	0.2172	0.0000	704.5464	704.5464	0.0185	0.0000	705.0083
Total	0.4466	3.2469	3.3462	0.0144	0.9409	0.0224	0.9633	0.2537	0.0212	0.2750	0.0000	1,328.2842	1,328.2842	0.0535	0.0000	1,329.6225

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

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	0.0846	2.7724	0.5457	6.5500e-003	0.1431	0.0115	0.1546	0.0414	0.0110	0.0524	0.0000	621.2869	621.2869	0.0325	0.0000	622.0995
Worker	0.3182	0.2349	2.4562	7.5700e-003	0.8014	5.1000e-003	0.8065	0.2132	4.7000e-003	0.2179	0.0000	684.6105	684.6105	0.0162	0.0000	685.0146
Total	0.4028	3.0073	3.0019	0.0141	0.9445	0.0166	0.9611	0.2547	0.0157	0.2704	0.0000	1,305.8975	1,305.8975	0.0487	0.0000	1,307.1142

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

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	0.0846	2.7724	0.5457	6.5500e-003	0.1431	0.0115	0.1546	0.0414	0.0110	0.0524	0.0000	621.2869	621.2869	0.0325	0.0000	622.0995
Worker	0.3182	0.2349	2.4562	7.5700e-003	0.8014	5.1000e-003	0.8065	0.2132	4.7000e-003	0.2179	0.0000	684.6105	684.6105	0.0162	0.0000	685.0146
Total	0.4028	3.0073	3.0019	0.0141	0.9445	0.0166	0.9611	0.2547	0.0157	0.2704	0.0000	1,305.8975	1,305.8975	0.0487	0.0000	1,307.1142

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9038	35.9038	8.6600e-003	0.0000	36.1203
Total	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9038	35.9038	8.6600e-003	0.0000	36.1203

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	8.4200e-003	0.3021	0.0575	7.7000e-004	0.0169	6.6000e-004	0.0176	4.9000e-003	6.3000e-004	5.5300e-003	0.0000	72.9325	72.9325	3.6400e-003	0.0000	73.0234
Worker	0.0351	0.0249	0.2662	8.6000e-004	0.0948	5.9000e-004	0.0954	0.0252	5.4000e-004	0.0258	0.0000	78.1505	78.1505	1.7100e-003	0.0000	78.1933
Total	0.0435	0.3271	0.3237	1.6300e-003	0.1118	1.2500e-003	0.1130	0.0301	1.1700e-003	0.0313	0.0000	151.0830	151.0830	5.3500e-003	0.0000	151.2167

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9037	35.9037	8.6600e-003	0.0000	36.1203
Total	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9037	35.9037	8.6600e-003	0.0000	36.1203

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	8.4200e-003	0.3021	0.0575	7.7000e-004	0.0169	6.6000e-004	0.0176	4.9000e-003	6.3000e-004	5.5300e-003	0.0000	72.9325	72.9325	3.6400e-003	0.0000	73.0234
Worker	0.0351	0.0249	0.2662	8.6000e-004	0.0948	5.9000e-004	0.0954	0.0252	5.4000e-004	0.0258	0.0000	78.1505	78.1505	1.7100e-003	0.0000	78.1933
Total	0.0435	0.3271	0.3237	1.6300e-003	0.1118	1.2500e-003	0.1130	0.0301	1.1700e-003	0.0313	0.0000	151.0830	151.0830	5.3500e-003	0.0000	151.2167

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0377	0.3876	0.4396	6.8000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561
Paving	0.0210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0587	0.3876	0.4396	6.8000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561

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	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312
Total	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0377	0.3876	0.4396	6.8000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561
Paving	0.0210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0587	0.3876	0.4396	6.8000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561

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	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312
Total	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.6676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5700e-003	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729
Total	3.6742	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080
Total	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.6676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5700e-003	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729
Total	3.6742	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080
Total	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080

Lincoln SUD-B SP Construction (Phases 1A and 1B)
Placer-Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	16.05	Acre	16.05	699,138.00	0
City Park	5.10	Acre	5.10	222,156.00	0
Single Family Housing	317.00	Dwelling Unit	48.15	570,600.00	907

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1A and 1B includes 317 residential units and 5.1 acres of park space (assumed 75% of residential units developed in 1A and 1B and 25% paved acreage in PA-6).

Construction Phase - Assumed construction start 7/18 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	1,110.00	575.00
tblConstructionPhase	NumDays	110.00	70.00
tblConstructionPhase	NumDays	75.00	60.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00

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 Lincoln SUD-B SP Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	City Park	Other Asphalt Surfaces
tblLandUse	LotAcreage	102.92	48.15
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.44	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	6,076,554.88	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	8/24/2018	5	40	
2	Grading	Grading	8/25/2018	11/30/2018	5	70	
3	Building Construction	Building Construction	12/1/2018	2/12/2021	5	575	
4	Paving	Paving	1/12/2021	4/5/2021	5	60	
5	Architectural Coating	Architectural Coating	4/6/2021	6/28/2021	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 175

Acres of Paving: 16.05

Residential Indoor: 1,155,465; Residential Outdoor: 385,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	501.00	185.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	100.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	8.1298	2.8864	11.0162	4.4688	2.6555	7.1243	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	3.9030	2.9432	6.8462	1.6184	2.7078	4.3262	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.8574	23.7840	4.8230	0.0516	1.1334	0.1607	1.2942	0.3264	0.1538	0.4801		5,393.8968	5,393.8968	0.2947		5,401.2653
Worker	3.1620	2.0265	26.7764	0.0676	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		6,726.1241	6,726.1241	0.1932		6,730.9533
Total	4.0194	25.8105	31.5994	0.1191	7.5327	0.2009	7.7336	2.0234	0.1908	2.2142		12,120.0210	12,120.0210	0.4879		12,132.2187

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.8574	23.7840	4.8230	0.0516	1.1334	0.1607	1.2942	0.3264	0.1538	0.4801		5,393.8968	5,393.8968	0.2947		5,401.2653
Worker	3.1620	2.0265	26.7764	0.0676	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		6,726.1241	6,726.1241	0.1932		6,730.9533
Total	4.0194	25.8105	31.5994	0.1191	7.5327	0.2009	7.7336	2.0234	0.1908	2.2142		12,120.0210	12,120.0210	0.4879		12,132.2187

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.7562	22.5047	4.2932	0.0511	1.1334	0.1304	1.2638	0.3264	0.1247	0.4511		5,348.9063	5,348.9063	0.2798		5,355.9015
Worker	2.8688	1.7823	24.0730	0.0655	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		6,524.8682	6,524.8682	0.1721		6,529.1704
Total	3.6250	24.2870	28.3662	0.1167	7.5327	0.1701	7.7028	2.0234	0.1614	2.1847		11,873.7745	11,873.7745	0.4519		11,885.0719

Lincoln SUD-B SP Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.7562	22.5047	4.2932	0.0511	1.1334	0.1304	1.2638	0.3264	0.1247	0.4511		5,348.9063	5,348.9063	0.2798		5,355.9015
Worker	2.8688	1.7823	24.0730	0.0655	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		6,524.8682	6,524.8682	0.1721		6,529.1704
Total	3.6250	24.2870	28.3662	0.1167	7.5327	0.1701	7.7028	2.0234	0.1614	2.1847		11,873.7745	11,873.7745	0.4519		11,885.0719

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6293	20.8809	3.7698	0.0507	1.1334	0.0867	1.2201	0.3264	0.0830	0.4093		5,308.3232	5,308.3232	0.2581		5,314.7754
Worker	2.6317	1.5790	21.6960	0.0634	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		6,316.3296	6,316.3296	0.1507		6,320.0963
Total	3.2610	22.4600	25.4658	0.1141	7.5327	0.1257	7.6583	2.0234	0.1189	2.1422		11,624.6527	11,624.6527	0.4088		11,634.8717

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6293	20.8809	3.7698	0.0507	1.1334	0.0867	1.2201	0.3264	0.0830	0.4093		5,308.3232	5,308.3232	0.2581		5,314.7754
Worker	2.6317	1.5790	21.6960	0.0634	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		6,316.3296	6,316.3296	0.1507		6,320.0963
Total	3.2610	22.4600	25.4658	0.1141	7.5327	0.1257	7.6583	2.0234	0.1189	2.1422		11,624.6527	11,624.6527	0.4088		11,634.8717

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5282	19.2776	3.3389	0.0503	1.1333	0.0416	1.1749	0.3263	0.0398	0.3661		5,267.1692	5,267.1692	0.2438		5,273.2652
Worker	2.4517	1.4164	19.9396	0.0611	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		6,093.6923	6,093.6923	0.1351		6,097.0688
Total	2.9799	20.6939	23.2786	0.1115	7.5326	0.0795	7.6121	2.0234	0.0747	2.0980		11,360.8614	11,360.8614	0.3789		11,370.3340

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5282	19.2776	3.3389	0.0503	1.1333	0.0416	1.1749	0.3263	0.0398	0.3661		5,267.1692	5,267.1692	0.2438		5,273.2652
Worker	2.4517	1.4164	19.9396	0.0611	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		6,093.6923	6,093.6923	0.1351		6,097.0688
Total	2.9799	20.6939	23.2786	0.1115	7.5326	0.0795	7.6121	2.0234	0.0747	2.0980		11,360.8614	11,360.8614	0.3789		11,370.3340

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9564	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470
Total	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9564	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470
Total	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	122.2534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	122.4723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798
Total	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798

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	122.2534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	122.4723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798
Total	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798

Lincoln SUD-B SP Construction (Phases 1A and 1B)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	16.05	Acre	16.05	699,138.00	0
City Park	5.10	Acre	5.10	222,156.00	0
Single Family Housing	317.00	Dwelling Unit	48.15	570,600.00	907

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1A and 1B includes 317 residential units and 5.1 acres of park space (assumed 75% of residential units developed in 1A and 1B and 25% paved access in DA C)

Construction Phase - Assumed construction start 7/18 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	1,110.00	575.00
tblConstructionPhase	NumDays	110.00	70.00
tblConstructionPhase	NumDays	75.00	60.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00

Lincoln SUD-B SP Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	City Park	Other Asphalt Surfaces
tblLandUse	LotAcreage	102.92	48.15
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.44	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	6,076,554.88	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	8/24/2018	5	40	
2	Grading	Grading	8/25/2018	11/30/2018	5	70	
3	Building Construction	Building Construction	12/1/2018	2/12/2021	5	575	
4	Paving	Paving	1/12/2021	4/5/2021	5	60	
5	Architectural Coating	Architectural Coating	4/6/2021	6/28/2021	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 175

Acres of Paving: 16.05

Residential Indoor: 1,155,465; Residential Outdoor: 385,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	501.00	185.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	100.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	8.1298	2.8864	11.0162	4.4688	2.6555	7.1243	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	3.9030	2.9432	6.8462	1.6184	2.7078	4.3262	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.9060	24.0794	5.8383	0.0498	1.1334	0.1647	1.2981	0.3264	0.1576	0.4839		5,202.6923	5,202.6923	0.3317		5,210.9852
Worker	3.2298	2.5461	23.5053	0.0601	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		5,983.9091	5,983.9091	0.1742		5,988.2629
Total	4.1359	26.6255	29.3436	0.1099	7.5327	0.2048	7.7376	2.0234	0.1946	2.2180		11,186.6014	11,186.6014	0.5059		11,199.2481

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.9351	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.9351	0.6421		2,636.988 3

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	0.9060	24.0794	5.8383	0.0498	1.1334	0.1647	1.2981	0.3264	0.1576	0.4839		5,202.692 3	5,202.6923	0.3317		5,210.985 2
Worker	3.2298	2.5461	23.5053	0.0601	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		5,983.909 1	5,983.9091	0.1742		5,988.262 9
Total	4.1359	26.6255	29.3436	0.1099	7.5327	0.2048	7.7376	2.0234	0.1946	2.2180		11,186.60 14	11,186.601 4	0.5059		11,199.24 81

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.8003	22.7420	5.2266	0.0493	1.1334	0.1339	1.2673	0.3264	0.1281	0.4544		5,157.7712	5,157.7712	0.3158		5,165.6663
Worker	2.9273	2.2381	20.9227	0.0583	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		5,804.3423	5,804.3423	0.1541		5,808.1947
Total	3.7276	24.9800	26.1494	0.1076	7.5327	0.1736	7.7063	2.0234	0.1647	2.1881		10,962.1135	10,962.1135	0.4699		10,973.8610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.8003	22.7420	5.2266	0.0493	1.1334	0.1339	1.2673	0.3264	0.1281	0.4544		5,157.7712	5,157.7712	0.3158		5,165.6663
Worker	2.9273	2.2381	20.9227	0.0583	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		5,804.3423	5,804.3423	0.1541		5,808.1947
Total	3.7276	24.9800	26.1494	0.1076	7.5327	0.1736	7.7063	2.0234	0.1647	2.1881		10,962.1135	10,962.1135	0.4699		10,973.8610

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6690	21.0441	4.6116	0.0489	1.1334	0.0894	1.2227	0.3264	0.0855	0.4118		5,116.8298	5,116.8298	0.2922		5,124.1345
Worker	2.6872	1.9806	18.7045	0.0564	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		5,618.4886	5,618.4886	0.1337		5,621.8310
Total	3.3561	23.0246	23.3162	0.1053	7.5327	0.1283	7.6609	2.0234	0.1213	2.1447		10,735.3184	10,735.3184	0.4259		10,745.9655

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6690	21.0441	4.6116	0.0489	1.1334	0.0894	1.2227	0.3264	0.0855	0.4118		5,116.8298	5,116.8298	0.2922		5,124.1345
Worker	2.6872	1.9806	18.7045	0.0564	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		5,618.4886	5,618.4886	0.1337		5,621.8310
Total	3.3561	23.0246	23.3162	0.1053	7.5327	0.1283	7.6609	2.0234	0.1213	2.1447		10,735.3184	10,735.3184	0.4259		10,745.9655

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5651	19.3640	4.1196	0.0485	1.1333	0.0438	1.1772	0.3263	0.0419	0.3683		5,075.6924	5,075.6924	0.2767		5,082.6099
Worker	2.5077	1.7755	17.1008	0.0544	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		5,420.6332	5,420.6332	0.1195		5,423.6195
Total	3.0727	21.1395	21.2203	0.1029	7.5326	0.0817	7.6144	2.0234	0.0768	2.1002		10,496.3256	10,496.3256	0.3962		10,506.2294

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5651	19.3640	4.1196	0.0485	1.1333	0.0438	1.1772	0.3263	0.0419	0.3683		5,075.6924	5,075.6924	0.2767		5,082.6099
Worker	2.5077	1.7755	17.1008	0.0544	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		5,420.6332	5,420.6332	0.1195		5,423.6195
Total	3.0727	21.1395	21.2203	0.1029	7.5326	0.0817	7.6144	2.0234	0.0768	2.1002		10,496.3256	10,496.3256	0.3962		10,506.2294

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9564	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838
Total	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9564	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838
Total	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	122.2534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	122.4723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588
Total	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588

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	122.2534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	122.4723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588
Total	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588

Lincoln SUD-B SP Construction (Phase 2B)
Placer-Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
Parking Lot	21.47	Acre	21.47	935,233.20	0
Regional Shopping Center	115.20	1000sqft	2.64	115,202.00	0
Free-Standing Discount Store	60.53	1000sqft	1.39	60,526.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2B includes construction of 348,400 sf of office space, parking, and commercial (assumed 34% of total big box and commercial)

Construction Phase - Assumed construction start 7/21 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Grading - Assumes soils balanced on-site

Lincoln SUD-B SP Construction (Phases 2B) - Placer-Sacramento County, Annual

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Consumer Products - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Area Coating - Modeling construction only

Trips and VMT -

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	440.00	410.00
tblConstructionPhase	PhaseEndDate	9/13/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	6/7/2023	4/26/2023
tblConstructionPhase	PhaseEndDate	7/26/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	7/27/2023	5/13/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	3/26/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.25	0.00

Lincoln SUD-B SP Construction (Phases 2B) - Placer-Sacramento County, Annual

tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	NT24E	3.62	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	T24E	3.37	0.00
tblEnergyUse	T24NG	16.07	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	OperationalYear	2018	2023
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	324.01	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	61,922,437.80	0.00
tblWater	OutdoorWaterUseRate	37,952,461.88	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/28/2021	5	20	
2	Grading	Grading	7/29/2021	9/29/2021	5	45	
3	Building Construction	Building Construction	9/30/2021	4/26/2023	5	410	
4	Paving	Paving	3/26/2023	5/12/2023	5	35	
5	Architectural Coating	Architectural Coating	5/13/2023	6/30/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 21.47

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 522,600; Non-Residential Outdoor: 174,200; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Trenchers	1	8.00	78	0.50
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	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
Architectural Coating	1	101.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	504.00	210.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0427	0.4401	0.2376	4.1000e-004		0.0230	0.0230		0.0212	0.0212	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958
Total	0.0427	0.4401	0.2376	4.1000e-004	0.1807	0.0230	0.2037	0.0993	0.0212	0.1205	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139
Total	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0427	0.4401	0.2376	4.1000e-004		0.0230	0.0230		0.0212	0.0212	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958
Total	0.0427	0.4401	0.2376	4.1000e-004	0.0813	0.0230	0.1043	0.0447	0.0212	0.0659	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139
Total	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1029	1.1230	0.7534	1.4700e-003		0.0504	0.0504		0.0464	0.0464	0.0000	129.2867	129.2867	0.0418	0.0000	130.3321
Total	0.1029	1.1230	0.7534	1.4700e-003	0.1952	0.0504	0.2456	0.0809	0.0464	0.1273	0.0000	129.2867	129.2867	0.0418	0.0000	130.3321

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	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109
Total	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0878	0.0000	0.0878	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1029	1.1230	0.7534	1.4700e-003		0.0504	0.0504		0.0464	0.0464	0.0000	129.2866	129.2866	0.0418	0.0000	130.3319
Total	0.1029	1.1230	0.7534	1.4700e-003	0.0878	0.0504	0.1382	0.0364	0.0464	0.0828	0.0000	129.2866	129.2866	0.0418	0.0000	130.3319

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	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109
Total	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0637	0.5840	0.5553	9.0000e-004		0.0321	0.0321		0.0302	0.0302	0.0000	77.5985	77.5985	0.0187	0.0000	78.0665
Total	0.0637	0.5840	0.5553	9.0000e-004		0.0321	0.0321		0.0302	0.0302	0.0000	77.5985	77.5985	0.0187	0.0000	78.0665

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	0.0207	0.7412	0.1409	1.8800e-003	0.0415	1.6200e-003	0.0432	0.0120	1.5500e-003	0.0136	0.0000	178.9294	178.9294	8.9200e-003	0.0000	179.1525
Worker	0.0763	0.0542	0.5788	1.8800e-003	0.2062	1.2800e-003	0.2074	0.0549	1.1800e-003	0.0560	0.0000	169.9174	169.9174	3.7200e-003	0.0000	170.0104
Total	0.0970	0.7954	0.7197	3.7600e-003	0.2477	2.9000e-003	0.2506	0.0669	2.7300e-003	0.0696	0.0000	348.8467	348.8467	0.0126	0.0000	349.1629

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	0.0637	0.5840	0.5553	9.0000e-004		0.0321	0.0321		0.0302	0.0302	0.0000	77.5984	77.5984	0.0187	0.0000	78.0664
Total	0.0637	0.5840	0.5553	9.0000e-004		0.0321	0.0321		0.0302	0.0302	0.0000	77.5984	77.5984	0.0187	0.0000	78.0664

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	0.0207	0.7412	0.1409	1.8800e-003	0.0415	1.6200e-003	0.0432	0.0120	1.5500e-003	0.0136	0.0000	178.9294	178.9294	8.9200e-003	0.0000	179.1525
Worker	0.0763	0.0542	0.5788	1.8800e-003	0.2062	1.2800e-003	0.2074	0.0549	1.1800e-003	0.0560	0.0000	169.9174	169.9174	3.7200e-003	0.0000	170.0104
Total	0.0970	0.7954	0.7197	3.7600e-003	0.2477	2.9000e-003	0.2506	0.0669	2.7300e-003	0.0696	0.0000	348.8467	348.8467	0.0126	0.0000	349.1629

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471

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	0.0746	2.7342	0.5075	7.2500e-003	0.1612	5.3700e-003	0.1666	0.0467	5.1400e-003	0.0518	0.0000	688.6895	688.6895	0.0327	0.0000	689.5081
Worker	0.2780	0.1893	2.0714	7.0200e-003	0.8000	4.8400e-003	0.8049	0.2129	4.4600e-003	0.2173	0.0000	635.2116	635.2116	0.0130	0.0000	635.5360
Total	0.3526	2.9235	2.5788	0.0143	0.9612	0.0102	0.9714	0.2596	9.6000e-003	0.2692	0.0000	1,323.9012	1,323.9012	0.0457	0.0000	1,325.0441

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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

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	0.0746	2.7342	0.5075	7.2500e-003	0.1612	5.3700e-003	0.1666	0.0467	5.1400e-003	0.0518	0.0000	688.6895	688.6895	0.0327	0.0000	689.5081
Worker	0.2780	0.1893	2.0714	7.0200e-003	0.8000	4.8400e-003	0.8049	0.2129	4.4600e-003	0.2173	0.0000	635.2116	635.2116	0.0130	0.0000	635.5360
Total	0.3526	2.9235	2.5788	0.0143	0.9612	0.0102	0.9714	0.2596	9.6000e-003	0.2692	0.0000	1,323.9012	1,323.9012	0.0457	0.0000	1,325.0441

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0653	0.5970	0.6741	1.1200e-003		0.0290	0.0290		0.0273	0.0273	0.0000	96.1990	96.1990	0.0229	0.0000	96.7711
Total	0.0653	0.5970	0.6741	1.1200e-003		0.0290	0.0290		0.0273	0.0273	0.0000	96.1990	96.1990	0.0229	0.0000	96.7711

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	0.0182	0.7261	0.1405	2.2700e-003	0.0515	7.5000e-004	0.0522	0.0149	7.2000e-004	0.0156	0.0000	215.8960	215.8960	7.6700e-003	0.0000	216.0878
Worker	0.0834	0.0545	0.6095	2.1600e-003	0.2554	1.5100e-003	0.2569	0.0680	1.3900e-003	0.0694	0.0000	195.0497	195.0497	3.7200e-003	0.0000	195.1425
Total	0.1016	0.7806	0.7500	4.4300e-003	0.3069	2.2600e-003	0.3091	0.0829	2.1100e-003	0.0850	0.0000	410.9456	410.9456	0.0114	0.0000	411.2303

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	0.0653	0.5970	0.6741	1.1200e-003		0.0290	0.0290		0.0273	0.0273	0.0000	96.1989	96.1989	0.0229	0.0000	96.7710
Total	0.0653	0.5970	0.6741	1.1200e-003		0.0290	0.0290		0.0273	0.0273	0.0000	96.1989	96.1989	0.0229	0.0000	96.7710

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	0.0182	0.7261	0.1405	2.2700e-003	0.0515	7.5000e-004	0.0522	0.0149	7.2000e-004	0.0156	0.0000	215.8960	215.8960	7.6700e-003	0.0000	216.0878
Worker	0.0834	0.0545	0.6095	2.1600e-003	0.2554	1.5100e-003	0.2569	0.0680	1.3900e-003	0.0694	0.0000	195.0497	195.0497	3.7200e-003	0.0000	195.1425
Total	0.1016	0.7806	0.7500	4.4300e-003	0.3069	2.2600e-003	0.3091	0.0829	2.1100e-003	0.0850	0.0000	410.9456	410.9456	0.0114	0.0000	411.2303

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0462	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491
Total	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491

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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0462	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491
Total	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7449					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
Total	1.7482	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749

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	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905
Total	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7449					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
Total	1.7482	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749

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	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905
Total	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905

Lincoln SUD-B SP Construction (Phase 2B)
Placer-Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
Parking Lot	21.47	Acre	21.47	935,233.20	0
Regional Shopping Center	115.20	1000sqft	2.64	115,202.00	0
Free-Standing Discount Store	60.53	1000sqft	1.39	60,526.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2B includes construction of 348,400 sf of office space, parking, and commercial (assumed 34% of total big box and commercial)

Construction Phase - Assumed construction start 7/21 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Grading - Assumes soils balanced on-site

Lincoln SUD-B SP Construction (Phases 2B) - Placer-Sacramento County, Summer

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Consumer Products - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Area Coating - Modeling construction only

Trips and VMT -

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	440.00	410.00
tblConstructionPhase	PhaseEndDate	9/13/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	6/7/2023	4/26/2023
tblConstructionPhase	PhaseEndDate	7/26/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	7/27/2023	5/13/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	3/26/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.25	0.00

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Lincoln SUD-B SP Construction (Phases 2B) - Placer-Sacramento County, Summer

tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	NT24E	3.62	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	T24E	3.37	0.00
tblEnergyUse	T24NG	16.07	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	OperationalYear	2018	2023
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	324.01	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	61,922,437.80	0.00
tblWater	OutdoorWaterUseRate	37,952,461.88	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/28/2021	5	20	
2	Grading	Grading	7/29/2021	9/29/2021	5	45	
3	Building Construction	Building Construction	9/30/2021	4/26/2023	5	410	
4	Paving	Paving	3/26/2023	5/12/2023	5	35	
5	Architectural Coating	Architectural Coating	5/13/2023	6/30/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 21.47

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 522,600; Non-Residential Outdoor: 174,200; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Trenchers	1	8.00	78	0.50
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	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
Architectural Coating	1	101.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	504.00	210.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.2707	44.0092	23.7606	0.0414		2.2995	2.2995		2.1155	2.1155		4,012.5794	4,012.5794	1.2978		4,045.0231
Total	4.2707	44.0092	23.7606	0.0414	18.0663	2.2995	20.3657	9.9307	2.1155	12.0462		4,012.5794	4,012.5794	1.2978		4,045.0231

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	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960
Total	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.2707	44.0092	23.7606	0.0414		2.2995	2.2995		2.1155	2.1155	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231
Total	4.2707	44.0092	23.7606	0.0414	8.1298	2.2995	10.4293	4.4688	2.1155	6.5843	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231

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	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960
Total	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.5736	49.9119	33.4848	0.0654		2.2404	2.2404		2.0611	2.0611		6,333.9659	6,333.9659	2.0485		6,385.1793
Total	4.5736	49.9119	33.4848	0.0654	8.6733	2.2404	10.9137	3.5965	2.0611	5.6576		6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054
Total	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	4.5736	49.9119	33.4848	0.0654		2.2404	2.2404		2.0611	2.0611	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793
Total	4.5736	49.9119	33.4848	0.0654	3.9030	2.2404	6.1434	1.6184	2.0611	3.6796	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054
Total	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5996	21.8826	3.7901	0.0571	1.2865	0.0472	1.3337	0.3704	0.0451	0.4156		5,978.9488	5,978.9488	0.2768		5,985.8686
Worker	2.4664	1.4248	20.0590	0.0615	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		6,130.1814	6,130.1814	0.1359		6,133.5782
Total	3.0659	23.3075	23.8492	0.1186	7.7241	0.0853	7.8094	2.0776	0.0802	2.1579		12,109.1302	12,109.1302	0.4127		12,119.4468

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5996	21.8826	3.7901	0.0571	1.2865	0.0472	1.3337	0.3704	0.0451	0.4156		5,978.9488	5,978.9488	0.2768		5,985.8686
Worker	2.4664	1.4248	20.0590	0.0615	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		6,130.1814	6,130.1814	0.1359		6,133.5782
Total	3.0659	23.3075	23.8492	0.1186	7.7241	0.0853	7.8094	2.0776	0.0802	2.1579		12,109.1302	12,109.1302	0.4127		12,119.4468

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5576	20.8236	3.5172	0.0567	1.2864	0.0403	1.3268	0.3704	0.0386	0.4090		5,931.0718	5,931.0718	0.2616		5,937.6121
Worker	2.3123	1.2836	18.5662	0.0592	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,905.1606	5,905.1606	0.1223		5,908.2174
Total	2.8699	22.1071	22.0834	0.1159	7.7241	0.0776	7.8016	2.0776	0.0729	2.1505		11,836.2324	11,836.2324	0.3839		11,845.8295

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5576	20.8236	3.5172	0.0567	1.2864	0.0403	1.3268	0.3704	0.0386	0.4090		5,931.0718	5,931.0718	0.2616		5,937.6121
Worker	2.3123	1.2836	18.5662	0.0592	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,905.1606	5,905.1606	0.1223		5,908.2174
Total	2.8699	22.1071	22.0834	0.1159	7.7241	0.0776	7.8016	2.0776	0.0729	2.1505		11,836.2324	11,836.2324	0.3839		11,845.8295

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4256	17.3585	3.0756	0.0557	1.2864	0.0177	1.3041	0.3704	0.0169	0.3873		5,824.4313	5,824.4313	0.1918		5,829.2270
Worker	2.1713	1.1585	17.1807	0.0570	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,679.7576	5,679.7576	0.1099		5,682.5042
Total	2.5969	18.5169	20.2563	0.1126	7.7240	0.0542	7.7782	2.0776	0.0505	2.1281		11,504.1889	11,504.1889	0.3017		11,511.7312

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4256	17.3585	3.0756	0.0557	1.2864	0.0177	1.3041	0.3704	0.0169	0.3873		5,824.4313	5,824.4313	0.1918		5,829.2270
Worker	2.1713	1.1585	17.1807	0.0570	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,679.7576	5,679.7576	0.1099		5,682.5042
Total	2.5969	18.5169	20.2563	0.1126	7.7240	0.0542	7.7782	2.0776	0.0505	2.1281		11,504.1889	11,504.1889	0.3017		11,511.7312

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6399	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222
Total	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6399	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222
Total	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	99.7073					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	99.8990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558
Total	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558

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	99.7073					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	99.8990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558
Total	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558

Lincoln SUD-B SP Construction (Phase 2B)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
Parking Lot	21.47	Acre	21.47	935,233.20	0
Regional Shopping Center	115.20	1000sqft	2.64	115,202.00	0
Free-Standing Discount Store	60.53	1000sqft	1.39	60,526.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2B includes construction of 348,400 sf of office space, parking, and commercial (assumed 34% of total big box and commercial)

Construction Phase - Assumed construction start 7/21 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Consumer Products - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Area Coating - Modeling construction only

Trips and VMT -

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	440.00	410.00
tblConstructionPhase	PhaseEndDate	9/13/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	6/7/2023	4/26/2023
tblConstructionPhase	PhaseEndDate	7/26/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	7/27/2023	5/13/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	3/26/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.25	0.00

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 Lincoln SUD-B SP Construction (Phases 2B) - Placer-Sacramento County, Winter

tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	NT24E	3.62	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	T24E	3.37	0.00
tblEnergyUse	T24NG	16.07	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	OperationalYear	2018	2023
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	324.01	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	61,922,437.80	0.00
tblWater	OutdoorWaterUseRate	37,952,461.88	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/28/2021	5	20	
2	Grading	Grading	7/29/2021	9/29/2021	5	45	
3	Building Construction	Building Construction	9/30/2021	4/26/2023	5	410	
4	Paving	Paving	3/26/2023	5/12/2023	5	35	
5	Architectural Coating	Architectural Coating	5/13/2023	6/30/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 21.47

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 522,600; Non-Residential Outdoor: 174,200; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Trenchers	1	8.00	78	0.50
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	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
Architectural Coating	1	101.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	504.00	210.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.2707	44.0092	23.7606	0.0414		2.2995	2.2995		2.1155	2.1155		4,012.5794	4,012.5794	1.2978		4,045.0231
Total	4.2707	44.0092	23.7606	0.0414	18.0663	2.2995	20.3657	9.9307	2.1155	12.0462		4,012.5794	4,012.5794	1.2978		4,045.0231

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	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003		216.5118
Total	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003		216.5118

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.2707	44.0092	23.7606	0.0414		2.2995	2.2995		2.1155	2.1155	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231
Total	4.2707	44.0092	23.7606	0.0414	8.1298	2.2995	10.4293	4.4688	2.1155	6.5843	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231

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	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003		216.5118
Total	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003		216.5118

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.5736	49.9119	33.4848	0.0654		2.2404	2.2404		2.0611	2.0611		6,333.9659	6,333.9659	2.0485		6,385.1793
Total	4.5736	49.9119	33.4848	0.0654	8.6733	2.2404	10.9137	3.5965	2.0611	5.6576		6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885
Total	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	4.5736	49.9119	33.4848	0.0654		2.2404	2.2404		2.0611	2.0611	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793
Total	4.5736	49.9119	33.4848	0.0654	3.9030	2.2404	6.1434	1.6184	2.0611	3.6796	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885
Total	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6415	21.9808	4.6763	0.0551	1.2865	0.0498	1.3363	0.3704	0.0476	0.4180		5,761.5968	5,761.5968	0.3141		5,769.4491
Worker	2.5227	1.7862	17.2032	0.0547	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		5,453.0921	5,453.0921	0.1202		5,456.0963
Total	3.1641	23.7669	21.8794	0.1098	7.7241	0.0879	7.8120	2.0776	0.0827	2.1603		11,214.6889	11,214.6889	0.4343		11,225.5454

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.743
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.743

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	0.6415	21.9808	4.6763	0.0551	1.2865	0.0498	1.3363	0.3704	0.0476	0.4180		5,761.5968	5,761.5968	0.3141		5,769.4491
Worker	2.5227	1.7862	17.2032	0.0547	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		5,453.0921	5,453.0921	0.1202		5,456.0963
Total	3.1641	23.7669	21.8794	0.1098	7.7241	0.0879	7.8120	2.0776	0.0827	2.1603		11,214.6889	11,214.6889	0.4343		11,225.5454

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5967	20.8860	4.3427	0.0546	1.2864	0.0427	1.3292	0.3704	0.0409	0.4113		5,713.3768	5,713.3768	0.2973		5,720.8089
Worker	2.3710	1.6082	15.8339	0.0527	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,253.2879	5,253.2879	0.1078		5,255.9820
Total	2.9678	22.4942	20.1765	0.1073	7.7241	0.0800	7.8040	2.0776	0.0752	2.1528		10,966.6647	10,966.6647	0.4050		10,976.7909

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5967	20.8860	4.3427	0.0546	1.2864	0.0427	1.3292	0.3704	0.0409	0.4113		5,713.3768	5,713.3768	0.2973		5,720.8089
Worker	2.3710	1.6082	15.8339	0.0527	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,253.2879	5,253.2879	0.1078		5,255.9820
Total	2.9678	22.4942	20.1765	0.1073	7.7241	0.0800	7.8040	2.0776	0.0752	2.1528		10,966.6647	10,966.6647	0.4050		10,976.7909

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4555	17.3797	3.7274	0.0536	1.2864	0.0185	1.3049	0.3704	0.0177	0.3881		5,610.5231	5,610.5231	0.2181		5,615.9762
Worker	2.2329	1.4504	14.5604	0.0507	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,053.1191	5,053.1191	0.0964		5,055.5293
Total	2.6884	18.8300	18.2877	0.1043	7.7240	0.0549	7.7789	2.0776	0.0512	2.1288		10,663.6422	10,663.6422	0.3145		10,671.5055

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4555	17.3797	3.7274	0.0536	1.2864	0.0185	1.3049	0.3704	0.0177	0.3881		5,610.5231	5,610.5231	0.2181		5,615.9762
Worker	2.2329	1.4504	14.5604	0.0507	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,053.1191	5,053.1191	0.0964		5,055.5293
Total	2.6884	18.8300	18.2877	0.1043	7.7240	0.0549	7.7789	2.0776	0.0512	2.1288		10,663.6422	10,663.6422	0.3145		10,671.5055

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6399	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622
Total	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6399	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622
Total	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	99.7073					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	99.8990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120
Total	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120

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	99.7073					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	99.8990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120
Total	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120

Lincoln SUD-B SP Construction (Phase 2A)
Placer-Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	5.15	Acre	5.15	224,334.00	0
Single Family Housing	102.00	Dwelling Unit	15.45	183,600.00	292

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year		2025	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2A includes 102 residential units (assumed 25% of residential units developed in 2A and 25% of area paved).

Construction Phase - Assumed construction start 1/23 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Lincoln SUD-B SP Construction (Phase 2A) - Placer-Sacramento County, Annual

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	370.00	290.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00

Lincoln SUD-B SP Construction (Phase 2A) - Placer-Sacramento County, Annual

tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblGrading	AcresOfGrading	100.00	87.50
tblLandUse	LotAcreage	33.12	15.45
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	105.12	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	6,645,710.61	0.00
tblWater	OutdoorWaterUseRate	4,189,687.13	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/27/2023	5	20	
2	Grading	Grading	1/28/2023	3/24/2023	5	40	
3	Building Construction	Building Construction	3/25/2023	5/3/2024	5	290	
4	Paving	Paving	4/3/2024	5/14/2024	5	30	
5	Architectural Coating	Architectural Coating	5/15/2024	6/25/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 5.15

Residential Indoor: 371,790; Residential Outdoor: 123,930; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	131.00	48.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	26.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0301	0.3076	0.2084	4.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	36.4190	36.4190	0.0118	0.0000	36.7135
Total	0.0301	0.3076	0.2084	4.1000e-004	0.1807	0.0149	0.1956	0.0993	0.0137	0.1130	0.0000	36.4190	36.4190	0.0118	0.0000	36.7135

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	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660
Total	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0301	0.3076	0.2084	4.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	36.4190	36.4190	0.0118	0.0000	36.7134
Total	0.0301	0.3076	0.2084	4.1000e-004	0.0813	0.0149	0.0962	0.0447	0.0137	0.0584	0.0000	36.4190	36.4190	0.0118	0.0000	36.7134

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	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660
Total	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1668	0.0000	0.1668	0.0712	0.0000	0.0712	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0734	0.7550	0.6129	1.3100e-003		0.0330	0.0330		0.0303	0.0303	0.0000	115.0070	115.0070	0.0372	0.0000	115.9369
Total	0.0734	0.7550	0.6129	1.3100e-003	0.1668	0.0330	0.1998	0.0712	0.0303	0.1016	0.0000	115.0070	115.0070	0.0372	0.0000	115.9369

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917
Total	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0751	0.0000	0.0751	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0734	0.7550	0.6129	1.3100e-003		0.0330	0.0330		0.0303	0.0303	0.0000	115.0069	115.0069	0.0372	0.0000	115.9368
Total	0.0734	0.7550	0.6129	1.3100e-003	0.0751	0.0330	0.1081	0.0321	0.0303	0.0624	0.0000	115.0069	115.0069	0.0372	0.0000	115.9368

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917
Total	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1573	1.4385	1.6244	2.6900e-003		0.0700	0.0700		0.0658	0.0658	0.0000	231.8048	231.8048	0.0551	0.0000	233.1833
Total	0.1573	1.4385	1.6244	2.6900e-003		0.0700	0.0700		0.0658	0.0658	0.0000	231.8048	231.8048	0.0551	0.0000	233.1833

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	0.0100	0.3999	0.0774	1.2500e-003	0.0283	4.1000e-004	0.0288	8.2100e-003	3.9000e-004	8.6000e-003	0.0000	118.9100	118.9100	4.2300e-003	0.0000	119.0156
Worker	0.0523	0.0341	0.3817	1.3500e-003	0.1600	9.5000e-004	0.1609	0.0426	8.7000e-004	0.0434	0.0000	122.1625	122.1625	2.3300e-003	0.0000	122.2207
Total	0.0623	0.4341	0.4591	2.6000e-003	0.1883	1.3600e-003	0.1897	0.0508	1.2600e-003	0.0520	0.0000	241.0725	241.0725	6.5600e-003	0.0000	241.2363

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	0.1573	1.4385	1.6244	2.6900e-003		0.0700	0.0700		0.0658	0.0658	0.0000	231.8045	231.8045	0.0551	0.0000	233.1830
Total	0.1573	1.4385	1.6244	2.6900e-003		0.0700	0.0700		0.0658	0.0658	0.0000	231.8045	231.8045	0.0551	0.0000	233.1830

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	0.0100	0.3999	0.0774	1.2500e-003	0.0283	4.1000e-004	0.0288	8.2100e-003	3.9000e-004	8.6000e-003	0.0000	118.9100	118.9100	4.2300e-003	0.0000	119.0156
Worker	0.0523	0.0341	0.3817	1.3500e-003	0.1600	9.5000e-004	0.1609	0.0426	8.7000e-004	0.0434	0.0000	122.1625	122.1625	2.3300e-003	0.0000	122.2207
Total	0.0623	0.4341	0.4591	2.6000e-003	0.1883	1.3600e-003	0.1897	0.0508	1.2600e-003	0.0520	0.0000	241.0725	241.0725	6.5600e-003	0.0000	241.2363

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0662	0.6050	0.7275	1.2100e-003		0.0276	0.0276		0.0260	0.0260	0.0000	104.3321	104.3321	0.0247	0.0000	104.9489
Total	0.0662	0.6050	0.7275	1.2100e-003		0.0276	0.0276		0.0260	0.0260	0.0000	104.3321	104.3321	0.0247	0.0000	104.9489

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	4.3500e-003	0.1776	0.0332	5.6000e-004	0.0128	1.8000e-004	0.0129	3.6900e-003	1.7000e-004	3.8600e-003	0.0000	53.1488	53.1488	1.8500e-003	0.0000	53.1950
Worker	0.0222	0.0139	0.1593	5.8000e-004	0.0720	4.2000e-004	0.0724	0.0192	3.8000e-004	0.0195	0.0000	52.8130	52.8130	9.4000e-004	0.0000	52.8366
Total	0.0265	0.1915	0.1925	1.1400e-003	0.0847	6.0000e-004	0.0853	0.0228	5.5000e-004	0.0234	0.0000	105.9618	105.9618	2.7900e-003	0.0000	106.0316

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	0.0662	0.6050	0.7275	1.2100e-003		0.0276	0.0276		0.0260	0.0260	0.0000	104.3320	104.3320	0.0247	0.0000	104.9488
Total	0.0662	0.6050	0.7275	1.2100e-003		0.0276	0.0276		0.0260	0.0260	0.0000	104.3320	104.3320	0.0247	0.0000	104.9488

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	4.3500e-003	0.1776	0.0332	5.6000e-004	0.0128	1.8000e-004	0.0129	3.6900e-003	1.7000e-004	3.8600e-003	0.0000	53.1488	53.1488	1.8500e-003	0.0000	53.1950
Worker	0.0222	0.0139	0.1593	5.8000e-004	0.0720	4.2000e-004	0.0724	0.0192	3.8000e-004	0.0195	0.0000	52.8130	52.8130	9.4000e-004	0.0000	52.8366
Total	0.0265	0.1915	0.1925	1.1400e-003	0.0847	6.0000e-004	0.0853	0.0228	5.5000e-004	0.0234	0.0000	105.9618	105.9618	2.7900e-003	0.0000	106.0316

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0148	0.1429	0.2194	3.4000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827
Paving	6.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0216	0.1429	0.2194	3.4000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827

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	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167
Total	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167

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	0.0148	0.1429	0.2194	3.4000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827
Paving	6.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0216	0.1429	0.2194	3.4000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827

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	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167
Total	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1800					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	1.1827	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956
Total	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1800					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	1.1827	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956
Total	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956

Lincoln SUD-B SP Construction (Phase 2A)
Placer-Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	5.15	Acre	5.15	224,334.00	0
Single Family Housing	102.00	Dwelling Unit	15.45	183,600.00	292

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2A includes 102 residential units (assumed 25% of residential units developed in 2A and 25% of area paved).

Construction Phase - Assumed construction start 1/23 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	370.00	290.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00

Lincoln SUD-B SP Construction (Phase 2A) - Placer-Sacramento County, Summer

tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblGrading	AcresOfGrading	100.00	87.50
tblLandUse	LotAcreage	33.12	15.45
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	105.12	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	6,645,710.61	0.00
tblWater	OutdoorWaterUseRate	4,189,687.13	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/27/2023	5	20	
2	Grading	Grading	1/28/2023	3/24/2023	5	40	
3	Building Construction	Building Construction	3/25/2023	5/3/2024	5	290	
4	Paving	Paving	4/3/2024	5/14/2024	5	30	
5	Architectural Coating	Architectural Coating	5/15/2024	6/25/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 5.15

Residential Indoor: 371,790; Residential Outdoor: 123,930; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	131.00	48.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	26.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0061	30.7573	20.8364	0.0414		1.4903	1.4903		1.3711	1.3711		4,014.5080	4,014.5080	1.2984		4,046.9673
Total	3.0061	30.7573	20.8364	0.0414	18.0663	1.4903	19.5566	9.9307	1.3711	11.3018		4,014.5080	4,014.5080	1.2984		4,046.9673

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	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962
Total	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.0061	30.7573	20.8364	0.0414		1.4903	1.4903		1.3711	1.3711	0.0000	4,014.5080	4,014.5080	1.2984		4,046.9673
Total	3.0061	30.7573	20.8364	0.0414	8.1298	1.4903	9.6201	4.4688	1.3711	5.8399	0.0000	4,014.5080	4,014.5080	1.2984		4,046.9673

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	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962
Total	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.3419	0.0000	8.3419	3.5607	0.0000	3.5607			0.0000			0.0000
Off-Road	3.6684	37.7488	30.6432	0.0655		1.6488	1.6488		1.5169	1.5169		6,338.6776	6,338.6776	2.0501		6,389.9290
Total	3.6684	37.7488	30.6432	0.0655	8.3419	1.6488	9.9907	3.5607	1.5169	5.0776		6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206
Total	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7539	0.0000	3.7539	1.6023	0.0000	1.6023			0.0000			0.0000
Off-Road	3.6684	37.7488	30.6432	0.0655		1.6488	1.6488		1.5169	1.5169	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290
Total	3.6684	37.7488	30.6432	0.0655	3.7539	1.6488	5.4027	1.6023	1.5169	3.1192	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206
Total	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0973	3.9677	0.7030	0.0127	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,331.2986	1,331.2986	0.0439		1,332.3947
Worker	0.5644	0.3011	4.4656	0.0148	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,476.2862	1,476.2862	0.0286		1,477.0001
Total	0.6616	4.2688	5.1686	0.0275	1.9673	0.0135	1.9808	0.5284	0.0126	0.5410		2,807.5848	2,807.5848	0.0724		2,809.3948

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0973	3.9677	0.7030	0.0127	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,331.2986	1,331.2986	0.0439		1,332.3947
Worker	0.5644	0.3011	4.4656	0.0148	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,476.2862	1,476.2862	0.0286		1,477.0001
Total	0.6616	4.2688	5.1686	0.0275	1.9673	0.0135	1.9808	0.5284	0.0126	0.5410		2,807.5848	2,807.5848	0.0724		2,809.3948

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0940	3.9175	0.6698	0.0126	0.2940	3.8900e-003	0.2979	0.0847	3.7200e-003	0.0884		1,322.2241	1,322.2241	0.0426		1,323.2893
Worker	0.5318	0.2726	4.1554	0.0142	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,418.1994	1,418.1994	0.0258		1,418.8430
Total	0.6258	4.1901	4.8252	0.0269	1.9673	0.0132	1.9805	0.5284	0.0123	0.5407		2,740.4235	2,740.4235	0.0684		2,742.1323

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0940	3.9175	0.6698	0.0126	0.2940	3.8900e-003	0.2979	0.0847	3.7200e-003	0.0884		1,322.2241	1,322.2241	0.0426		1,323.2893
Worker	0.5318	0.2726	4.1554	0.0142	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,418.1994	1,418.1994	0.0258		1,418.8430
Total	0.6258	4.1901	4.8252	0.0269	1.9673	0.0132	1.9805	0.5284	0.0123	0.5407		2,740.4235	2,740.4235	0.0684		2,742.1323

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4379	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4379	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	78.6683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	78.8491	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024
Total	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024

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	78.6683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	78.8491	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024
Total	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024

Lincoln SUD-B SP Construction (Phase 2A)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	5.15	Acre	5.15	224,334.00	0
Single Family Housing	102.00	Dwelling Unit	15.45	183,600.00	292

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2A includes 102 residential units (assumed 25% of residential units developed in 2A and 25% of area paved).

Construction Phase - Assumed construction start 1/23 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	370.00	290.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00

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 Lincoln SUD-B SP Construction (Phase 2A) - Placer-Sacramento County, Winter

tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblGrading	AcresOfGrading	100.00	87.50
tblLandUse	LotAcreage	33.12	15.45
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	105.12	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	6,645,710.61	0.00
tblWater	OutdoorWaterUseRate	4,189,687.13	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/27/2023	5	20	
2	Grading	Grading	1/28/2023	3/24/2023	5	40	
3	Building Construction	Building Construction	3/25/2023	5/3/2024	5	290	
4	Paving	Paving	4/3/2024	5/14/2024	5	30	
5	Architectural Coating	Architectural Coating	5/15/2024	6/25/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 5.15

Residential Indoor: 371,790; Residential Outdoor: 123,930; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	131.00	48.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	26.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0061	30.7573	20.8364	0.0414		1.4903	1.4903		1.3711	1.3711		4,014.5080	4,014.5080	1.2984		4,046.9673
Total	3.0061	30.7573	20.8364	0.0414	18.0663	1.4903	19.5566	9.9307	1.3711	11.3018		4,014.5080	4,014.5080	1.2984		4,046.9673

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	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003		200.6162
Total	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003		200.6162

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000				0.0000
Off-Road	3.0061	30.7573	20.8364	0.0414		1.4903	1.4903		1.3711	1.3711	0.0000	4,014.5080	4,014.5080	1.2984			4,046.9673
Total	3.0061	30.7573	20.8364	0.0414	8.1298	1.4903	9.6201	4.4688	1.3711	5.8399	0.0000	4,014.5080	4,014.5080	1.2984			4,046.9673

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	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003			200.6162
Total	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003			200.6162

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.3419	0.0000	8.3419	3.5607	0.0000	3.5607			0.0000			0.0000
Off-Road	3.6684	37.7488	30.6432	0.0655		1.6488	1.6488		1.5169	1.5169		6,338.6776	6,338.6776	2.0501		6,389.9290
Total	3.6684	37.7488	30.6432	0.0655	8.3419	1.6488	9.9907	3.5607	1.5169	5.0776		6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087
Total	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7539	0.0000	3.7539	1.6023	0.0000	1.6023			0.0000			0.0000
Off-Road	3.6684	37.7488	30.6432	0.0655		1.6488	1.6488		1.5169	1.5169	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290
Total	3.6684	37.7488	30.6432	0.0655	3.7539	1.6488	5.4027	1.6023	1.5169	3.1192	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087
Total	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.1041	3.9725	0.8520	0.0123	0.2940	4.2200e-003	0.2983	0.0847	4.0400e-003	0.0887		1,282.4053	1,282.4053	0.0499		1,283.6517
Worker	0.5804	0.3770	3.7845	0.0132	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,313.4099	1,313.4099	0.0251		1,314.0364
Total	0.6845	4.3495	4.6365	0.0254	1.9673	0.0137	1.9810	0.5284	0.0128	0.5412		2,595.8152	2,595.8152	0.0749		2,597.6881

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.1041	3.9725	0.8520	0.0123	0.2940	4.2200e-003	0.2983	0.0847	4.0400e-003	0.0887		1,282.4053	1,282.4053	0.0499		1,283.6517
Worker	0.5804	0.3770	3.7845	0.0132	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,313.4099	1,313.4099	0.0251		1,314.0364
Total	0.6845	4.3495	4.6365	0.0254	1.9673	0.0137	1.9810	0.5284	0.0128	0.5412		2,595.8152	2,595.8152	0.0749		2,597.6881

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1005	3.9210	0.8114	0.0122	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,273.8992	1,273.8992	0.0485		1,275.1103
Worker	0.5487	0.3411	3.5047	0.0127	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,261.8207	1,261.8207	0.0225		1,262.3832
Total	0.6492	4.2621	4.3161	0.0248	1.9673	0.0133	1.9806	0.5284	0.0124	0.5408		2,535.7198	2,535.7198	0.0710		2,537.4935

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1005	3.9210	0.8114	0.0122	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,273.8992	1,273.8992	0.0485		1,275.1103
Worker	0.5487	0.3411	3.5047	0.0127	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,261.8207	1,261.8207	0.0225		1,262.3832
Total	0.6492	4.2621	4.3161	0.0248	1.9673	0.0133	1.9806	0.5284	0.0124	0.5408		2,535.7198	2,535.7198	0.0710		2,537.4935

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4379	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4379	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	78.6683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	78.8491	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493
Total	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493

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	78.6683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	78.8491	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493
Total	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493

**Lincoln SUD-B SP Construction (Phase 2C)
 Placer-Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	9.40	Acre	9.40	409,464.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only
 Land Use - Construction of Phase 2C includes construction of a 100,000 sf self-storage facility.
 Construction Phase - Assumed construction start 1/24 and overlapped with Paving
 Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
 Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
 Trips and VMT -
 Grading - Assumes soils balanced on-site
 Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	PhaseEndDate	1/24/2025	12/23/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	11/25/2024
tblConstructionPhase	PhaseStartDate	12/28/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	11/30/2024	10/29/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.68	0.00
tblEnergyUse	NT24E	4.20	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.73	0.00

Lincoln SUD-B SP Construction (Phase 2C) - Placer-Sacramento County, Annual

tblEnergyUse	T24NG	18.67	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	124.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/12/2024	5	10	
2	Grading	Grading	1/13/2024	2/23/2024	5	30	
3	Building Construction	Building Construction	2/24/2024	11/29/2024	5	200	
4	Paving	Paving	10/29/2024	11/25/2024	5	20	
5	Architectural Coating	Architectural Coating	11/26/2024	12/23/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,000; Non-Residential Outdoor: 50,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	214.00	84.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.1517	0.1046	2.1000e-004		7.2400e-003	7.2400e-003		6.6600e-003	6.6600e-003	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3598
Total	0.0150	0.1517	0.1046	2.1000e-004	0.0903	7.2400e-003	0.0976	0.0497	6.6600e-003	0.0563	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3598

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	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963
Total	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.1517	0.1046	2.1000e-004		7.2400e-003	7.2400e-003		6.6600e-003	6.6600e-003	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3597
Total	0.0150	0.1517	0.1046	2.1000e-004	0.0407	7.2400e-003	0.0479	0.0223	6.6600e-003	0.0290	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3597

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	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963
Total	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0534	0.5331	0.4547	9.8000e-004		0.0233	0.0233		0.0214	0.0214	0.0000	86.2312	86.2312	0.0279	0.0000	86.9284
Total	0.0534	0.5331	0.4547	9.8000e-004	0.1301	0.0233	0.1534	0.0540	0.0214	0.0754	0.0000	86.2312	86.2312	0.0279	0.0000	86.9284

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922
Total	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0586	0.0000	0.0586	0.0243	0.0000	0.0243	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0534	0.5330	0.4547	9.8000e-004		0.0233	0.0233		0.0214	0.0214	0.0000	86.2311	86.2311	0.0279	0.0000	86.9283
Total	0.0534	0.5330	0.4547	9.8000e-004	0.0586	0.0233	0.0819	0.0243	0.0214	0.0457	0.0000	86.2311	86.2311	0.0279	0.0000	86.9283

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922
Total	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8491	231.8491	0.0548	0.0000	233.2198
Total	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8491	231.8491	0.0548	0.0000	233.2198

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	0.0169	0.6908	0.1289	2.1800e-003	0.0496	6.9000e-004	0.0503	0.0144	6.6000e-004	0.0150	0.0000	206.6898	206.6898	7.1800e-003	0.0000	206.8694
Worker	0.0806	0.0505	0.5784	2.1200e-003	0.2613	1.5200e-003	0.2628	0.0695	1.3900e-003	0.0709	0.0000	191.7217	191.7217	3.4200e-003	0.0000	191.8072
Total	0.0975	0.7413	0.7074	4.3000e-003	0.3109	2.2100e-003	0.3131	0.0839	2.0500e-003	0.0860	0.0000	398.4114	398.4114	0.0106	0.0000	398.6765

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	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8488	231.8488	0.0548	0.0000	233.2195
Total	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8488	231.8488	0.0548	0.0000	233.2195

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	0.0169	0.6908	0.1289	2.1800e-003	0.0496	6.9000e-004	0.0503	0.0144	6.6000e-004	0.0150	0.0000	206.6898	206.6898	7.1800e-003	0.0000	206.8694
Worker	0.0806	0.0505	0.5784	2.1200e-003	0.2613	1.5200e-003	0.2628	0.0695	1.3900e-003	0.0709	0.0000	191.7217	191.7217	3.4200e-003	0.0000	191.8072
Total	0.0975	0.7413	0.7074	4.3000e-003	0.3109	2.2100e-003	0.3131	0.0839	2.0500e-003	0.0860	0.0000	398.4114	398.4114	0.0106	0.0000	398.6765

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0222	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.5000e-004	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444
Total	5.6000e-004	3.5000e-004	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444

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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0222	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.5000e-003	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444
Total	5.6000e-004	3.5000e-003	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	0.5223	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541
Total	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	0.5223	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541
Total	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541

Lincoln SUD-B SP Construction (Phase 2C)
Placer-Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	9.40	Acre	9.40	409,464.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2C includes construction of a 100,000 sf self-storage facility.

Construction Phase - Assumed construction start 1/24 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	PhaseEndDate	1/24/2025	12/23/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	11/25/2024
tblConstructionPhase	PhaseStartDate	12/28/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	11/30/2024	10/29/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.68	0.00
tblEnergyUse	NT24E	4.20	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.73	0.00

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 incoln SUD-B SP Construction (Phase 2C) - Placer-Sacramento County, Summer

tblEnergyUse	T24NG	18.67	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	124.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/12/2024	5	10	
2	Grading	Grading	1/13/2024	2/23/2024	5	30	
3	Building Construction	Building Construction	2/24/2024	11/29/2024	5	200	
4	Paving	Paving	10/29/2024	11/25/2024	5	20	
5	Architectural Coating	Architectural Coating	11/26/2024	12/23/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,000; Non-Residential Outdoor: 50,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	214.00	84.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0009	30.3354	20.9278	0.0415		1.4479	1.4479		1.3321	1.3321		4,015.1700	4,015.1700	1.2986		4,047.6347
Total	3.0009	30.3354	20.9278	0.0415	18.0663	1.4479	19.5142	9.9307	1.3321	11.2628		4,015.1700	4,015.1700	1.2986		4,047.6347

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	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173
Total	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.0009	30.3354	20.9278	0.0415		1.4479	1.4479		1.3321	1.3321	0.0000	4,015.1700	4,015.1700	1.2986		4,047.6347
Total	3.0009	30.3354	20.9278	0.0415	8.1298	1.4479	9.5778	4.4688	1.3321	5.8009	0.0000	4,015.1700	4,015.1700	1.2986		4,047.6347

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	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173
Total	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.5582	35.5364	30.3150	0.0655		1.5540	1.5540		1.4297	1.4297		6,336.9087	6,336.9087	2.0495		6,388.1458
Total	3.5582	35.5364	30.3150	0.0655	8.6733	1.5540	10.2273	3.5965	1.4297	5.0262		6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098
Total	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.5582	35.5364	30.3150	0.0655		1.5540	1.5540		1.4297	1.4297	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458
Total	3.5582	35.5364	30.3150	0.0655	3.9030	1.5540	5.4570	1.6184	1.4297	3.0481	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098
Total	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1645	6.8556	1.1721	0.0221	0.5145	6.8100e-003	0.5214	0.1482	6.5100e-003	0.1547		2,313.8922	2,313.8922	0.0746		2,315.7562
Worker	0.8687	0.4453	6.7883	0.0232	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,316.7532	2,316.7532	0.0421		2,317.8046
Total	1.0332	7.3009	7.9604	0.0453	3.2480	0.0220	3.2699	0.8730	0.0205	0.8935		4,630.6454	4,630.6454	0.1166		4,633.5608

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1645	6.8556	1.1721	0.0221	0.5145	6.8100e-003	0.5214	0.1482	6.5100e-003	0.1547		2,313.8922	2,313.8922	0.0746		2,315.7562
Worker	0.8687	0.4453	6.7883	0.0232	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,316.7532	2,316.7532	0.0421		2,317.8046
Total	1.0332	7.3009	7.9604	0.0453	3.2480	0.0220	3.2699	0.8730	0.0205	0.8935		4,630.6454	4,630.6454	0.1166		4,633.5608

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2196	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2196	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.0436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	52.2244	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271
Total	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271

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	52.0436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	52.2244	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271
Total	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271

Lincoln SUD-B SP Construction (Phase 2C)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	9.40	Acre	9.40	409,464.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Modeling Construction Only
- Land Use - Construction of Phase 2C includes construction of a 100,000 sf self-storage facility.
- Construction Phase - Assumed construction start 1/24 and overlapped with Paving
- Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
- Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
- Trips and VMT -
- Grading - Assumes soils balanced on-site
- Architectural Coating - Reduced VOC (g/L) to 100g/L consistent with Rule 218.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	PhaseEndDate	1/24/2025	12/23/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	11/25/2024
tblConstructionPhase	PhaseStartDate	12/28/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	11/30/2024	10/29/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.68	0.00
tblEnergyUse	NT24E	4.20	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.73	0.00

Lincoln SUD-B SP Construction (Phase 2C) - Placer-Sacramento County, Winter

tblEnergyUse	T24NG	18.67	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	124.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/12/2024	5	10	
2	Grading	Grading	1/13/2024	2/23/2024	5	30	
3	Building Construction	Building Construction	2/24/2024	11/29/2024	5	200	
4	Paving	Paving	10/29/2024	11/25/2024	5	20	
5	Architectural Coating	Architectural Coating	11/26/2024	12/23/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,000; Non-Residential Outdoor: 50,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	214.00	84.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0009	30.3354	20.9278	0.0415		1.4479	1.4479		1.3321	1.3321		4,015.1700	4,015.1700	1.2986		4,047.6347
Total	3.0009	30.3354	20.9278	0.0415	18.0663	1.4479	19.5142	9.9307	1.3321	11.2628		4,015.1700	4,015.1700	1.2986		4,047.6347

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	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003		192.7303
Total	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003		192.7303

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000				0.0000
Off-Road	3.0009	30.3354	20.9278	0.0415		1.4479	1.4479		1.3321	1.3321	0.0000	4,015.1700	4,015.1700	1.2986			4,047.6347
Total	3.0009	30.3354	20.9278	0.0415	8.1298	1.4479	9.5778	4.4688	1.3321	5.8009	0.0000	4,015.1700	4,015.1700	1.2986			4,047.6347

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	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003			192.7303
Total	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003			192.7303

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.5582	35.5364	30.3150	0.0655		1.5540	1.5540		1.4297	1.4297		6,336.9087	6,336.9087	2.0495		6,388.1458
Total	3.5582	35.5364	30.3150	0.0655	8.6733	1.5540	10.2273	3.5965	1.4297	5.0262		6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398
Total	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.5582	35.5364	30.3150	0.0655		1.5540	1.5540		1.4297	1.4297	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458
Total	3.5582	35.5364	30.3150	0.0655	3.9030	1.5540	5.4570	1.6184	1.4297	3.0481	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398
Total	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1759	6.8617	1.4199	0.0213	0.5145	7.0900e-003	0.5216	0.1482	6.7800e-003	0.1549		2,229.3236	2,229.3236	0.0848		2,231.4430
Worker	0.8963	0.5572	5.7253	0.0207	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,061.2948	2,061.2948	0.0368		2,062.2137
Total	1.0723	7.4189	7.1452	0.0420	3.2480	0.0222	3.2702	0.8730	0.0207	0.8938		4,290.6184	4,290.6184	0.1215		4,293.6567

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1759	6.8617	1.4199	0.0213	0.5145	7.0900e-003	0.5216	0.1482	6.7800e-003	0.1549		2,229.3236	2,229.3236	0.0848		2,231.4430
Worker	0.8963	0.5572	5.7253	0.0207	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,061.2948	2,061.2948	0.0368		2,062.2137
Total	1.0723	7.4189	7.1452	0.0420	3.2480	0.0222	3.2702	0.8730	0.0207	0.8938		4,290.6184	4,290.6184	0.1215		4,293.6567

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2196	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2196	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.0436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	52.2244	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701
Total	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701

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	52.0436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	52.2244	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701
Total	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	86.00	Acre	86.00	3,746,160.00	0
City Park	3.00	Acre	3.00	130,680.00	0
Motel	100.00	Room	4.50	196,020.00	0
Single Family Housing	419.00	Dwelling Unit	63.60	754,200.00	2949
Free-Standing Discount Superstore	180.00	1000sqft	4.13	180,000.00	0
Regional Shopping Center	342.60	1000sqft	7.87	342,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	499.66	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted based on 33% Renewables by 2020

Land Use - Land use assumptions based on Lincoln SUD-B buildout. Paved area estimated for roadways and parking lots. Population updated.

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Construction Phase - Modeling operations only

Off-road Equipment - Modeling operations only

Trips and VMT - Modeling operations only

Grading -

Architectural Coating - Modeling operations only

Vehicle Trips - Modified trip rates to match Trip Generation provided by traffic analysis. Updated C-C to reflect internal trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves - Use of natural gas hearths.

Consumer Products -

Area Coating - Compliance with Rule 218 requirements (100 g/L).

Energy Use - Residential and NonResidential Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 28% and 5% to reflect 2016 Title 24 compliance.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance. Use of water-efficient irrigation systems. Use of low-flow toilets and showerheads.

Waste Mitigation - 50% waste diversion consistent with the County.

Mobile Land Use Mitigation - Low density suburban. Improve pedestrian network. Provide traffic calming measures. Implement NEV network.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	0.00
tblEnergyUse	T24E	4.08	3.88
tblEnergyUse	T24E	1.73	1.64
tblEnergyUse	T24E	3.37	3.20
tblEnergyUse	T24E	1.96	1.86
tblEnergyUse	T24E	4.08	3.88

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tblEnergyUse	T24E	768.93	553.63
tblEnergyUse	T24NG	11.39	10.82
tblEnergyUse	T24NG	18.67	17.74
tblEnergyUse	T24NG	16.07	15.27
tblEnergyUse	T24NG	26.60	25.27
tblEnergyUse	T24NG	11.39	10.82
tblEnergyUse	T24NG	29,300.87	21,096.63
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	230.45	303.77
tblFireplaces	NumberNoFireplace	41.90	115.22
tblFireplaces	NumberWood	146.65	0.00
tblLandUse	BuildingSpaceSquareFeet	0.00	130,680.00
tblLandUse	GreenSpaceAllowEdit	1.00	0.00
tblLandUse	GreenSpaceSquareFeet	130,680.00	0.00
tblLandUse	LotAcreage	136.04	63.60
tblLandUse	Population	1,198.00	2,949.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	499.66
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	467.00	0.00
tblVehicleTrips	CC_TL	6.60	5.67
tblVehicleTrips	CC_TL	6.60	5.36
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	64.07	59.21
tblVehicleTrips	ST_TR	1.32	1.44
tblVehicleTrips	ST_TR	2.46	3.95
tblVehicleTrips	ST_TR	5.63	5.60
tblVehicleTrips	ST_TR	49.97	40.96

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tblVehicleTrips	ST_TR	9.91	9.37
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	56.12	51.86
tblVehicleTrips	SU_TR	0.68	0.74
tblVehicleTrips	SU_TR	1.05	1.68
tblVehicleTrips	SU_TR	5.63	5.60
tblVehicleTrips	SU_TR	25.24	20.69
tblVehicleTrips	SU_TR	8.62	8.15
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	50.75	46.90
tblVehicleTrips	WD_TR	6.97	7.60
tblVehicleTrips	WD_TR	11.03	17.70
tblVehicleTrips	WD_TR	5.63	5.60
tblVehicleTrips	WD_TR	42.70	35.00
tblVehicleTrips	WD_TR	9.52	9.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

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	9.4998	0.2425	3.2067	1.4800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	244.3671	244.3671	9.5100e-003	4.3900e-003	245.9119
Energy	0.1514	1.3470	0.9411	8.2600e-003		0.1046	0.1046		0.1046	0.1046	0.0000	5,039.0026	5,039.0026	0.2342	0.0700	5,065.7139
Mobile	6.4287	45.1141	66.6378	0.2896	23.0386	0.2010	23.2396	6.1972	0.1877	6.3849	0.0000	26,709.8266	26,709.8266	0.9232	0.0000	26,732.9058
Waste						0.0000	0.0000		0.0000	0.0000	419.8178	0.0000	419.8178	24.8105	0.0000	1,040.0808
Water						0.0000	0.0000		0.0000	0.0000	48.7283	253.9986	302.7269	5.0196	0.1212	464.3422
Total	16.0799	46.7036	70.7857	0.2993	23.0386	0.3396	23.3782	6.1972	0.3263	6.5235	468.5461	32,247.1949	32,715.7410	30.9970	0.1956	33,548.9546

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	9.4998	0.2425	3.2067	1.4800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	244.3671	244.3671	9.5100e-003	4.3900e-003	245.9119
Energy	0.1514	1.3470	0.9411	8.2600e-003		0.1046	0.1046		0.1046	0.1046	0.0000	5,039.0026	5,039.0026	0.2342	0.0700	5,065.7139
Mobile	6.1171	42.8080	59.5821	0.2524	19.5828	0.1754	19.7583	5.2677	0.1638	5.4314	0.0000	23,287.6717	23,287.6717	0.8554	0.0000	23,309.0577
Waste						0.0000	0.0000		0.0000	0.0000	209.9089	0.0000	209.9089	12.4053	0.0000	520.0404
Water						0.0000	0.0000		0.0000	0.0000	38.9826	203.1989	242.1815	4.0157	0.0970	371.4738
Total	15.7684	44.3974	63.7300	0.2621	19.5828	0.3140	19.8969	5.2677	0.3024	5.5700	248.8915	28,774.2403	29,023.1318	17.5201	0.1714	29,512.1977

	ROG	NOx	CO	SO2	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	1.94	4.94	9.97	12.43	15.00	7.53	14.89	15.00	7.33	14.62	46.88	10.77	11.29	43.48	12.40	12.03

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Provide Traffic Calming Measures

Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.1171	42.8080	59.5821	0.2524	19.5828	0.1754	19.7583	5.2677	0.1638	5.4314	0.0000	23,287.67 17	23,287.671 7	0.8554	0.0000	23,309.05 77
Unmitigated	6.4287	45.1141	66.6378	0.2896	23.0386	0.2010	23.2396	6.1972	0.1877	6.3849	0.0000	26,709.82 66	26,709.826 6	0.9232	0.0000	26,732.90 58

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Free-Standing Discount Superstore	8,442.00	10,657.80	9334.80	12,889,767	11,600,790
General Light Industry	760.00	144.00	74.00	2,217,629	1,995,867
General Office Building	6,166.68	1,376.18	585.31	12,934,411	11,640,970
Motel	560.00	560.00	560.00	1,120,677	1,008,609
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	11,991.00	14,032.90	7088.39	18,877,235	16,989,512
Single Family Housing	3,771.00	3,926.03	3414.85	13,935,184	12,541,666
Total	31,690.68	30,696.91	21,057.36	61,974,904	55,777,413

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
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Free-Standing Discount	14.70	5.67	6.60	13.20	67.80	19.00	47.5	35.5	17
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Motel	14.70	6.60	6.60	19.00	62.00	19.00	58	38	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Regional Shopping Center	14.70	5.36	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
General Light Industry	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Other Asphalt Surfaces	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Motel	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Single Family Housing	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Free-Standing Discount	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Superstore	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Regional Shopping Center	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

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Regional Shopping Center	3.83027e+006	0.0207	0.1878	0.1577	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.3977	204.3977	3.9200e-003	3.7500e-003	205.6123
Single Family Housing	9.96534e+006	0.0537	0.4592	0.1954	2.9300e-003		0.0371	0.0371		0.0371	0.0371	0.0000	531.7885	531.7885	0.0102	9.7500e-003	534.9487
Total		0.1514	1.3470	0.9411	8.2500e-003		0.1046	0.1046		0.1046	0.1046	0.0000	1,498.2538	1,498.2538	0.0287	0.0275	1,507.1572

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount	2.0124e+006	0.0109	0.0987	0.0829	5.9000e-004		7.5000e-003	7.5000e-003		7.5000e-003	7.5000e-003	0.0000	107.3893	107.3893	2.0600e-003	1.9700e-003	108.0275
General Light Industry	1.78e+006	9.6000e-003	0.0873	0.0733	5.2000e-004		6.6300e-003	6.6300e-003		6.6300e-003	6.6300e-003	0.0000	94.9876	94.9876	1.8200e-003	1.7400e-003	95.5520
General Office Building	5.48382e+006	0.0296	0.2688	0.2258	1.6100e-003		0.0204	0.0204		0.0204	0.0204	0.0000	292.6373	292.6373	5.6100e-003	5.3700e-003	294.3763
Motel	5.00439e+006	0.0270	0.2453	0.2061	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	267.0533	267.0533	5.1200e-003	4.9000e-003	268.6403
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.83027e+006	0.0207	0.1878	0.1577	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.3977	204.3977	3.9200e-003	3.7500e-003	205.6123
Single Family Housing	9.96534e+006	0.0537	0.4592	0.1954	2.9300e-003		0.0371	0.0371		0.0371	0.0371	0.0000	531.7885	531.7885	0.0102	9.7500e-003	534.9487
Total		0.1514	1.3470	0.9411	8.2500e-003		0.1046	0.1046		0.1046	0.1046	0.0000	1,498.2538	1,498.2538	0.0287	0.0275	1,507.1572

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount	2.1492e+06	487.0989	0.0283	5.8500e-003	489.5487
General Light Industry	852000	193.0990	0.0112	2.3200e-003	194.0701
General Office Building	3.50839e+006	795.1480	0.0462	9.5500e-003	799.1471
Motel	1.31725e+006	298.5451	0.0173	3.5800e-003	300.0466
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	4.09064e+006	927.1116	0.0538	0.0111	931.7744
Single Family Housing	3.70517e+006	839.7463	0.0487	0.0101	843.9697
Total		3,540.7488	0.2055	0.0425	3,558.5567

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount	2.1492e+06	487.0989	0.0283	5.8500e-003	489.5487
General Light Industry	852000	193.0990	0.0112	2.3200e-003	194.0701
General Office Building	3.50839e+006	795.1480	0.0462	9.5500e-003	799.1471
Motel	1.31725e+006	298.5451	0.0173	3.5800e-003	300.0466
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	4.09064e+006	927.1116	0.0538	0.0111	931.7744
Single Family Housing	3.70517e+006	839.7463	0.0487	0.0101	843.9697
Total		3,540.7488	0.2055	0.0425	3,558.5567

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.4998	0.2425	3.2067	1.4800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	244.3671	244.3671	9.5100e-003	4.3900e-003	245.9119
Unmitigated	9.4998	0.2425	3.2067	1.4800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	244.3671	244.3671	9.5100e-003	4.3900e-003	245.9119

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.2559					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0242	0.2066	0.0879	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.2644	239.2644	4.5900e-003	4.3900e-003	240.6862
Landscaping	0.0943	0.0359	3.1188	1.7000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.1027	5.1027	4.9200e-003	0.0000	5.2257
Total	9.4998	0.2425	3.2067	1.4900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	244.3671	244.3671	9.5100e-003	4.3900e-003	245.9119

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.2559					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0242	0.2066	0.0879	1.3200e-003		0.0167	0.0167		0.0167	0.0167	0.0000	239.2644	239.2644	4.5900e-003	4.3900e-003	240.6862
Landscaping	0.0943	0.0359	3.1188	1.7000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.1027	5.1027	4.9200e-003	0.0000	5.2257
Total	9.4998	0.2425	3.2067	1.4900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	244.3671	244.3671	9.5100e-003	4.3900e-003	245.9119

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	242.1815	4.0157	0.0970	371.4738
Unmitigated	302.7269	5.0196	0.1212	464.3422

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 3.57444	2.8354	1.6000e-004	3.0000e-005	2.8497
Free-Standing Discount	13.3331 / 8.17187	27.0634	0.4358	0.0105	41.0967
General Light Industry	23.125 / 0	35.6961	0.7552	0.0181	59.9791
General Office Building	61.9224 / 37.9525	125.6900	2.0239	0.0489	190.8646
Motel	2.53668 / 0.281853	4.1392	0.0829	1.9900e-003	6.8041
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	25.3772 / 15.5538	51.5107	0.8294	0.0201	78.2207
Single Family Housing	27.2995 / 17.2106	55.7922	0.8923	0.0216	84.5274
Total		302.7269	5.0196	0.1212	464.3422

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.85956	2.2683	1.3000e-004	3.0000e-005	2.2797
Free-Standing Discount	10.6664 / 6.5375	21.6507	0.3486	8.4300e-003	32.8774
General Light Industry	18.5 / 0	28.5569	0.6041	0.0145	47.9832
General Office Building	49.538 / 30.362	100.5520	1.6191	0.0391	152.6917
Motel	2.02934 / 0.225482	3.3114	0.0663	1.5900e-003	5.4432
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	20.3018 / 12.443	41.2085	0.6636	0.0160	62.5766
Single Family Housing	21.8396 / 13.7685	44.6337	0.7138	0.0173	67.6219
Total		242.1815	4.0157	0.0970	371.4738

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	209.9089	12.4053	0.0000	520.0404
Unmitigated	419.8178	24.8105	0.0000	1,040.0808

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Free-Standing Discount	774.13	157.1414	9.2868	0.0000	389.3112
General Light Industry	124	25.1709	1.4876	0.0000	62.3598
General Office Building	324.01	65.7711	3.8870	0.0000	162.9451
Motel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	359.73	73.0219	4.3155	0.0000	180.9088
Single Family Housing	431.28	87.5459	5.1738	0.0000	216.8914
Total		419.8178	24.8105	0.0000	1,040.0808

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Free-Standing Discount	387.065	78.5707	4.6434	0.0000	194.6556
General Light Industry	62	12.5854	0.7438	0.0000	31.1799
General Office Building	162.005	32.8856	1.9435	0.0000	81.4726
Motel	27.375	5.5569	0.3284	0.0000	13.7669
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	179.865	36.5110	2.1577	0.0000	90.4544
Single Family Housing	215.64	43.7730	2.5869	0.0000	108.4457
Total		209.9089	12.4053	0.0000	520.0404

**Lincoln SUD-B SP Buildout Operations
 Placer-Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	86.00	Acre	86.00	3,746,160.00	0
City Park	3.00	Acre	3.00	130,680.00	0
Motel	100.00	Room	4.50	196,020.00	0
Single Family Housing	419.00	Dwelling Unit	63.60	754,200.00	2949
Free-Standing Discount Superstore	180.00	1000sqft	4.13	180,000.00	0
Regional Shopping Center	342.60	1000sqft	7.87	342,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	499.66	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted based on 33% Renewables by 2020

Land Use - Land use assumptions based on Lincoln SUD-B buildout. Paved area estimated for roadways and parking lots. Population updated.

Construction Phase - Modeling operations only

Off-road Equipment - Modeling operations only

Trips and VMT - Modeling operations only

Grading -

Architectural Coating - Modeling operations only

Vehicle Trips - Modified trip rates to match Trip Generation provided by traffic analysis. Updated C-C to reflect internal trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves - Use of natural gas hearths.

Consumer Products -

Area Coating - Compliance with Rule 218 requirements (100 g/L).

Energy Use - Residential and NonResidential Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 28% and 5% to reflect 2016 Title 24 compliance.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance. Use of water-efficient irrigation systems. Use of low-flow toilets and showerheads.

Waste Mitigation - 50% waste diversion consistent with the County.

Mobile Land Use Mitigation - Low density suburban. Improve pedestrian network. Provide traffic calming measures. Implement NEV network.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	0.00
tblEnergyUse	T24E	4.08	3.88
tblEnergyUse	T24E	1.73	1.64
tblEnergyUse	T24E	3.37	3.20
tblEnergyUse	T24E	1.96	1.86
tblEnergyUse	T24E	4.08	3.88
tblEnergyUse	T24E	768.93	553.63

Lincoln SUD-B SP Buildout Operations - Placer-Sacramento County, Summer

tblEnergyUse	T24NG	11.39	10.82
tblEnergyUse	T24NG	18.67	17.74
tblEnergyUse	T24NG	16.07	15.27
tblEnergyUse	T24NG	26.60	25.27
tblEnergyUse	T24NG	11.39	10.82
tblEnergyUse	T24NG	29,300.87	21,096.63
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	230.45	303.77
tblFireplaces	NumberNoFireplace	41.90	115.22
tblFireplaces	NumberWood	146.65	0.00
tblLandUse	BuildingSpaceSquareFeet	0.00	130,680.00
tblLandUse	GreenSpaceAllowEdit	1.00	0.00
tblLandUse	GreenSpaceSquareFeet	130,680.00	0.00
tblLandUse	LotAcreage	136.04	63.60
tblLandUse	Population	1,198.00	2,949.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	499.66
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	467.00	0.00
tblVehicleTrips	CC_TL	6.60	5.67
tblVehicleTrips	CC_TL	6.60	5.36
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	64.07	59.21
tblVehicleTrips	ST_TR	1.32	1.44
tblVehicleTrips	ST_TR	2.46	3.95
tblVehicleTrips	ST_TR	5.63	5.60
tblVehicleTrips	ST_TR	49.97	40.96
tblVehicleTrips	ST_TR	9.91	9.37

Lincoln SUD-B SP Buildout Operations - Placer-Sacramento County, Summer

tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	56.12	51.86
tblVehicleTrips	SU_TR	0.68	0.74
tblVehicleTrips	SU_TR	1.05	1.68
tblVehicleTrips	SU_TR	5.63	5.60
tblVehicleTrips	SU_TR	25.24	20.69
tblVehicleTrips	SU_TR	8.62	8.15
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	50.75	46.90
tblVehicleTrips	WD_TR	6.97	7.60
tblVehicleTrips	WD_TR	11.03	17.70
tblVehicleTrips	WD_TR	5.63	5.60
tblVehicleTrips	WD_TR	42.70	35.00
tblVehicleTrips	WD_TR	9.52	9.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

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	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072
Energy	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226
Mobile	52.7025	291.7805	465.1759	2.0213	158.0284	1.3179	159.3462	42.3481	1.2305	43.5786		205,372.7069	205,372.7069	6.6206		205,538.221
Total	106.5741	304.5991	507.1305	2.1005	158.0284	2.4905	160.5188	42.3481	2.4031	44.7512	0.0000	220,917.5263	220,917.5263	6.9776	0.2838	221,176.5519

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	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072
Energy	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226
Mobile	50.6123	277.7367	410.9360	1.7613	134.3241	1.1499	135.4740	35.9959	1.0734	37.0693		179,037.5791	179,037.5791	6.1007		179,190.964
Total	104.4840	290.5553	452.8906	1.8405	134.3241	2.3225	136.6466	35.9959	2.2460	38.2419	0.0000	194,582.3986	194,582.3986	6.4577	0.2838	194,828.4262

	ROG	NOx	CO	SO2	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	1.96	4.61	10.70	12.38	15.00	6.74	14.87	15.00	6.54	14.55	0.00	11.92	11.92	7.45	0.00	11.91

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Provide Traffic Calming Measures

Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	50.6123	277.7367	410.9360	1.7613	134.3241	1.1499	135.4740	35.9959	1.0734	37.0693	179,037.5791	179,037.5791	6.1007			179,190.0964
Unmitigated	52.7025	291.7805	465.1759	2.0213	158.0284	1.3179	159.3462	42.3481	1.2305	43.5786	205,372.7069	205,372.7069	6.6206			205,538.2221

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Free-Standing Discount Superstore	8,442.00	10,657.80	9334.80	12,889,767	11,600,790
General Light Industry	760.00	144.00	74.00	2,217,629	1,995,867
General Office Building	6,166.68	1,376.18	585.31	12,934,411	11,640,970
Motel	560.00	560.00	560.00	1,120,677	1,008,609
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	11,991.00	14,032.90	7088.39	18,877,235	16,989,512
Single Family Housing	3,771.00	3,926.03	3414.85	13,935,184	12,541,666
Total	31,690.68	30,696.91	21,057.36	61,974,904	55,777,413

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
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Free-Standing Discount	14.70	5.67	6.60	13.20	67.80	19.00	47.5	35.5	17
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Motel	14.70	6.60	6.60	19.00	62.00	19.00	58	38	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Regional Shopping Center	14.70	5.36	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
General Light Industry	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Other Asphalt Surfaces	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Motel	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Single Family Housing	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Free-Standing Discount	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Superstore	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Regional Shopping Center	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226
NaturalGas Unmitigated	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount	5513.42	0.0595	0.5405	0.4541	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.6382	648.6382	0.0124	0.0119	652.4927
General Light Industry	4876.71	0.0526	0.4781	0.4016	2.8700e-003		0.0363	0.0363		0.0363	0.0363		573.7309	573.7309	0.0110	0.0105	577.1403
General Office Building	15024.2	0.1620	1.4730	1.2373	8.8400e-003		0.1119	0.1119		0.1119	0.1119		1,767.5475	1,767.5475	0.0339	0.0324	1,778.0511
Motel	13710.7	0.1479	1.3442	1.1291	8.0700e-003		0.1022	0.1022		0.1022	0.1022		1,613.0187	1,613.0187	0.0309	0.0296	1,622.6041
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	10493.9	0.1132	1.0288	0.8642	6.1700e-003		0.0782	0.0782		0.0782	0.0782		1,234.5747	1,234.5747	0.0237	0.0226	1,241.9112
Single Family Housing	27302.3	0.2944	2.5161	1.0707	0.0161		0.2034	0.2034		0.2034	0.2034		3,212.0358	3,212.0358	0.0616	0.0589	3,231.1233
Total		0.8296	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount	5.51342	0.0595	0.5405	0.4541	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.6382	648.6382	0.0124	0.0119	652.4927
General Light Industry	4.87671	0.0526	0.4781	0.4016	2.8700e-003		0.0363	0.0363		0.0363	0.0363		573.7309	573.7309	0.0110	0.0105	577.1403
General Office Building	15.0242	0.1620	1.4730	1.2373	8.8400e-003		0.1119	0.1119		0.1119	0.1119		1,767.5475	1,767.5475	0.0339	0.0324	1,778.0511
Motel	13.7107	0.1479	1.3442	1.1291	8.0700e-003		0.1022	0.1022		0.1022	0.1022		1,613.0187	1,613.0187	0.0309	0.0296	1,622.6041
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	10.4939	0.1132	1.0288	0.8642	6.1700e-003		0.0782	0.0782		0.0782	0.0782		1,234.5747	1,234.5747	0.0237	0.0226	1,241.9112
Single Family Housing	27.3023	0.2944	2.5161	1.0707	0.0161		0.2034	0.2034		0.2034	0.2034		3,212.0358	3,212.0358	0.0616	0.0589	3,231.1233
Total		0.8296	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072
Unmitigated	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.2376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5897	5.0390	2.1443	0.0322		0.4074	0.4074		0.4074	0.4074	0.0000	6,432.7765	6,432.7765	0.1233	0.1179	6,471.0032
Landscaping	1.0478	0.3989	34.6534	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4973	62.4973	0.0603		64.0039
Total	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.2376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5897	5.0390	2.1443	0.0322		0.4074	0.4074		0.4074	0.4074	0.0000	6,432.7765	6,432.7765	0.1233	0.1179	6,471.0032
Landscaping	1.0478	0.3989	34.6534	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4973	62.4973	0.0603		64.0039
Total	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072

**Lincoln SUD-B SP Buildout Operations
 Placer-Sacramento County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	86.00	Acre	86.00	3,746,160.00	0
City Park	3.00	Acre	3.00	130,680.00	0
Motel	100.00	Room	4.50	196,020.00	0
Single Family Housing	419.00	Dwelling Unit	63.60	754,200.00	2949
Free-Standing Discount Superstore	180.00	1000sqft	4.13	180,000.00	0
Regional Shopping Center	342.60	1000sqft	7.87	342,600.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	499.66	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted based on 33% Renewables by 2020

Land Use - Land use assumptions based on Lincoln SUD-B buildout. Paved area estimated for roadways and parking lots. Population updated.

Construction Phase - Modeling operations only

Off-road Equipment - Modeling operations only

Trips and VMT - Modeling operations only

Grading -

Architectural Coating - Modeling operations only

Vehicle Trips - Modified trip rates to match Trip Generation provided by traffic analysis. Updated C-C to reflect internal trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves - Use of natural gas hearths.

Consumer Products -

Area Coating - Compliance with Rule 218 requirements (100 g/L).

Energy Use - Residential and NonResidential Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 28% and 5% to reflect 2016 Title 24 compliance.

Water Mitigation - 20% indoor/outdoor reduction in water assumed for CALGreen compliance. Use of water-efficient irrigation systems. Use of low-flow toilets and showerheads.

Waste Mitigation - 50% waste diversion consistent with the County.

Mobile Land Use Mitigation - Low density suburban. Improve pedestrian network. Provide traffic calming measures. Implement NEV network.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	0.00
tblEnergyUse	T24E	4.08	3.88
tblEnergyUse	T24E	1.73	1.64
tblEnergyUse	T24E	3.37	3.20
tblEnergyUse	T24E	1.96	1.86
tblEnergyUse	T24E	4.08	3.88
tblEnergyUse	T24E	768.93	553.63

Lincoln SUD-B SP Buildout Operations - Placer-Sacramento County, Winter

tblEnergyUse	T24NG	11.39	10.82
tblEnergyUse	T24NG	18.67	17.74
tblEnergyUse	T24NG	16.07	15.27
tblEnergyUse	T24NG	26.60	25.27
tblEnergyUse	T24NG	11.39	10.82
tblEnergyUse	T24NG	29,300.87	21,096.63
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	230.45	303.77
tblFireplaces	NumberNoFireplace	41.90	115.22
tblFireplaces	NumberWood	146.65	0.00
tblLandUse	BuildingSpaceSquareFeet	0.00	130,680.00
tblLandUse	GreenSpaceAllowEdit	1.00	0.00
tblLandUse	GreenSpaceSquareFeet	130,680.00	0.00
tblLandUse	LotAcreage	136.04	63.60
tblLandUse	Population	1,198.00	2,949.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	499.66
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	WorkerTripNumber	467.00	0.00
tblVehicleTrips	CC_TL	6.60	5.67
tblVehicleTrips	CC_TL	6.60	5.36
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	64.07	59.21
tblVehicleTrips	ST_TR	1.32	1.44
tblVehicleTrips	ST_TR	2.46	3.95
tblVehicleTrips	ST_TR	5.63	5.60
tblVehicleTrips	ST_TR	49.97	40.96
tblVehicleTrips	ST_TR	9.91	9.37

Lincoln SUD-B SP Buildout Operations - Placer-Sacramento County, Winter

tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	56.12	51.86
tblVehicleTrips	SU_TR	0.68	0.74
tblVehicleTrips	SU_TR	1.05	1.68
tblVehicleTrips	SU_TR	5.63	5.60
tblVehicleTrips	SU_TR	25.24	20.69
tblVehicleTrips	SU_TR	8.62	8.15
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	50.75	46.90
tblVehicleTrips	WD_TR	6.97	7.60
tblVehicleTrips	WD_TR	11.03	17.70
tblVehicleTrips	WD_TR	5.63	5.60
tblVehicleTrips	WD_TR	42.70	35.00
tblVehicleTrips	WD_TR	9.52	9.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

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	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072
Energy	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226
Mobile	40.5028	299.1754	458.8580	1.8601	158.0284	1.3280	159.3563	42.3481	1.2401	43.5883		189,075.9346	189,075.9346	6.9899		189,250.6815
Total	94.3744	311.9940	500.8126	1.9393	158.0284	2.5006	160.5289	42.3481	2.4127	44.7609	0.0000	204,620.7541	204,620.7541	7.3469	0.2838	204,889.0113

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	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072
Energy	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226
Mobile	38.4425	283.4572	413.3671	1.6196	134.3241	1.1600	135.4841	35.9959	1.0830	37.0789		164,683.2721	164,683.2721	6.5033		164,845.8555
Total	92.3142	296.2758	455.3217	1.6989	134.3241	2.3326	136.6567	35.9959	2.2556	38.2515	0.0000	180,228.0915	180,228.0915	6.8604	0.2838	180,484.1853

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.18	5.04	9.08	12.40	15.00	6.72	14.87	15.00	6.51	14.54	0.00	11.92	11.92	6.62	0.00	11.91

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

Provide Traffic Calming Measures

Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	38.4425	283.4572	413.3671	1.6196	134.3241	1.1600	135.4841	35.9959	1.0830	37.0789		164,683.2721	164,683.2721	6.5033		164,845.8555
Unmitigated	40.5028	299.1754	458.8580	1.8601	158.0284	1.3280	159.3563	42.3481	1.2401	43.5883		189,075.9346	189,075.9346	6.9899		189,250.6815

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Free-Standing Discount Superstore	8,442.00	10,657.80	9334.80	12,889,767	11,600,790
General Light Industry	760.00	144.00	74.00	2,217,629	1,995,867
General Office Building	6,166.68	1,376.18	585.31	12,934,411	11,640,970
Motel	560.00	560.00	560.00	1,120,677	1,008,609
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	11,991.00	14,032.90	7088.39	18,877,235	16,989,512
Single Family Housing	3,771.00	3,926.03	3414.85	13,935,184	12,541,666
Total	31,690.68	30,696.91	21,057.36	61,974,904	55,777,413

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
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
Free-Standing Discount	14.70	5.67	6.60	13.20	67.80	19.00	47.5	35.5	17
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Motel	14.70	6.60	6.60	19.00	62.00	19.00	58	38	4
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Regional Shopping Center	14.70	5.36	6.60	16.30	64.70	19.00	54	35	11
Single Family Housing	16.80	7.10	7.90	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
General Light Industry	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Other Asphalt Surfaces	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Motel	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Single Family Housing	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Free-Standing Discount	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Superstore	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922
Regional Shopping Center	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226
NaturalGas Unmitigated	0.8295	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount	5513.42	0.0595	0.5405	0.4541	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.6382	648.6382	0.0124	0.0119	652.4927
General Light Industry	4876.71	0.0526	0.4781	0.4016	2.8700e-003		0.0363	0.0363		0.0363	0.0363		573.7309	573.7309	0.0110	0.0105	577.1403
General Office Building	15024.2	0.1620	1.4730	1.2373	8.8400e-003		0.1119	0.1119		0.1119	0.1119		1,767.5475	1,767.5475	0.0339	0.0324	1,778.0511
Motel	13710.7	0.1479	1.3442	1.1291	8.0700e-003		0.1022	0.1022		0.1022	0.1022		1,613.0187	1,613.0187	0.0309	0.0296	1,622.6041
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	10493.9	0.1132	1.0288	0.8642	6.1700e-003		0.0782	0.0782		0.0782	0.0782		1,234.5747	1,234.5747	0.0237	0.0226	1,241.9112
Single Family Housing	27302.3	0.2944	2.5161	1.0707	0.0161		0.2034	0.2034		0.2034	0.2034		3,212.0358	3,212.0358	0.0616	0.0589	3,231.1233
Total		0.8296	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Free-Standing Discount	5.51342	0.0595	0.5405	0.4541	3.2400e-003		0.0411	0.0411		0.0411	0.0411		648.6382	648.6382	0.0124	0.0119	652.4927
General Light Industry	4.87671	0.0526	0.4781	0.4016	2.8700e-003		0.0363	0.0363		0.0363	0.0363		573.7309	573.7309	0.0110	0.0105	577.1403
General Office Building	15.0242	0.1620	1.4730	1.2373	8.8400e-003		0.1119	0.1119		0.1119	0.1119		1,767.5475	1,767.5475	0.0339	0.0324	1,778.0511
Motel	13.7107	0.1479	1.3442	1.1291	8.0700e-003		0.1022	0.1022		0.1022	0.1022		1,613.0187	1,613.0187	0.0309	0.0296	1,622.6041
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	10.4939	0.1132	1.0288	0.8642	6.1700e-003		0.0782	0.0782		0.0782	0.0782		1,234.5747	1,234.5747	0.0237	0.0226	1,241.9112
Single Family Housing	27.3023	0.2944	2.5161	1.0707	0.0161		0.2034	0.2034		0.2034	0.2034		3,212.0358	3,212.0358	0.0616	0.0589	3,231.1233
Total		0.8296	7.3807	5.1569	0.0453		0.5731	0.5731		0.5731	0.5731		9,049.5457	9,049.5457	0.1735	0.1659	9,103.3226

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072
Unmitigated	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.2376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5897	5.0390	2.1443	0.0322		0.4074	0.4074		0.4074	0.4074	0.0000	6,432.7765	6,432.7765	0.1233	0.1179	6,471.0032
Landscaping	1.0478	0.3989	34.6534	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4973	62.4973	0.0603		64.0039
Total	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	45.2376					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5897	5.0390	2.1443	0.0322		0.4074	0.4074		0.4074	0.4074	0.0000	6,432.7765	6,432.7765	0.1233	0.1179	6,471.0032
Landscaping	1.0478	0.3989	34.6534	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4973	62.4973	0.0603		64.0039
Total	53.0421	5.4379	36.7977	0.0340		0.5995	0.5995		0.5995	0.5995	0.0000	6,495.2738	6,495.2738	0.1836	0.1179	6,535.0072

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	24.86	Acre	24.86	1,082,901.60	0
Motel	100.00	Room	4.50	196,020.00	0
Free-Standing Discount Superstore	119.47	1000sqft	2.74	119,474.00	0
Regional Shopping Center	227.40	1000sqft	5.22	227,398.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1C includes 100 room hotel, parking, and commercial (assumed 66% of total big box and commercial)

Construction Phase - Assumed construction start 1/18 over 2-years and overlapped with Paving.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment -

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Area Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Parking	64974	46679
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	740.00	410.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	30.00	20.00

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tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	LightingElect	3.49	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24E	1.37	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	NT24NG	0.26	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24E	1.96	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24NG	11.39	0.00
tblEnergyUse	T24NG	26.60	0.00
tblEnergyUse	T24NG	11.39	0.00
tblLandUse	BuildingSpaceSquareFeet	119,470.00	119,474.00
tblLandUse	BuildingSpaceSquareFeet	227,400.00	227,398.00
tblLandUse	LandUseSquareFeet	119,470.00	119,474.00
tblLandUse	LandUseSquareFeet	227,400.00	227,398.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00

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tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	513.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	238.77	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	5.63	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	5.63	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	5.63	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	8,849,444.14	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	16,844,091.39	0.00
tblWater	OutdoorWaterUseRate	5,423,852.86	0.00
tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	10,323,797.95	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/26/2018	5	20	
2	Grading	Grading	1/27/2018	3/30/2018	5	45	
3	Building Construction	Building Construction	3/31/2018	10/25/2019	5	410	
4	Paving	Paving	9/25/2019	11/12/2019	5	35	
5	Architectural Coating	Architectural Coating	11/13/2019	12/31/2019	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 24.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 814,338; Non-Residential Outdoor: 271,446; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	648.00	266.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	130.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0502	0.5227	0.2513	4.1000e-004		0.0289	0.0289		0.0266	0.0266	0.0000	37.8407	37.8407	0.0118	0.0000	38.1352
Total	0.0502	0.5227	0.2513	4.1000e-004	0.1807	0.0289	0.2095	0.0993	0.0266	0.1259	0.0000	37.8407	37.8407	0.0118	0.0000	38.1352

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235

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Total	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7200e-003	0.1363	0.2551	4.1000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	37.8406	37.8406	0.0118	0.0000	38.1352
Total	7.7200e-003	0.1363	0.2551	4.1000e-004	0.0813	6.8000e-004	0.0820	0.0447	6.8000e-004	0.0454	0.0000	37.8406	37.8406	0.0118	0.0000	38.1352

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235
Total	1.1700e-003	9.2000e-004	9.3400e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.2219	2.2219	6.0000e-005	0.0000	2.2235

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1247	1.4308	0.8492	1.4700e-003		0.0662	0.0662		0.0609	0.0609	0.0000	134.3909	134.3909	0.0418	0.0000	135.4368
Total	0.1247	1.4308	0.8492	1.4700e-003	0.1952	0.0662	0.2614	0.0809	0.0609	0.1419	0.0000	134.3909	134.3909	0.0418	0.0000	135.4368

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	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532
Total	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0878	0.0000	0.0878	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0245	0.4667	0.8835	1.4700e-003		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	134.3907	134.3907	0.0418	0.0000	135.4367
Total	0.0245	0.4667	0.8835	1.4700e-003	0.0878	2.4100e-003	0.0902	0.0364	2.4100e-003	0.0388	0.0000	134.3907	134.3907	0.0418	0.0000	135.4367

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	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532
Total	3.0200e-003	2.3800e-003	0.0242	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.7490	5.7490	1.6000e-004	0.0000	5.7532

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2626	2.2922	1.7229	2.6400e-003		0.1470	0.1470		0.1382	0.1382	0.0000	233.0119	233.0119	0.0571	0.0000	234.4391
Total	0.2626	2.2922	1.7229	2.6400e-003		0.1470	0.1470		0.1382	0.1382	0.0000	233.0119	233.0119	0.0571	0.0000	234.4391

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	0.1236	3.4080	0.7467	7.1600e-003	0.1539	0.0229	0.1768	0.0446	0.0219	0.0665	0.0000	679.2317	679.2317	0.0398	0.0000	680.2274
Worker	0.3704	0.2923	2.9655	7.8100e-003	0.7754	5.0900e-003	0.7805	0.2063	4.7000e-003	0.2110	0.0000	705.4828	705.4828	0.0202	0.0000	705.9884
Total	0.4940	3.7003	3.7122	0.0150	0.9293	0.0280	0.9573	0.2509	0.0266	0.2775	0.0000	1,384.7145	1,384.7145	0.0601	0.0000	1,386.2158

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0913	1.0714	1.7871	2.6400e-003		0.0148	0.0148		0.0148	0.0148	0.0000	233.0116	233.0116	0.0571	0.0000	234.4388
Total	0.0913	1.0714	1.7871	2.6400e-003		0.0148	0.0148		0.0148	0.0148	0.0000	233.0116	233.0116	0.0571	0.0000	234.4388

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	0.1236	3.4080	0.7467	7.1600e-003	0.1539	0.0229	0.1768	0.0446	0.0219	0.0665	0.0000	679.2317	679.2317	0.0398	0.0000	680.2274
Worker	0.3704	0.2923	2.9655	7.8100e-003	0.7754	5.0900e-003	0.7805	0.2063	4.7000e-003	0.2110	0.0000	705.4828	705.4828	0.0202	0.0000	705.9884
Total	0.4940	3.7003	3.7122	0.0150	0.9293	0.0280	0.9573	0.2509	0.0266	0.2775	0.0000	1,384.7145	1,384.7145	0.0601	0.0000	1,386.2158

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2526	2.2554	1.8365	2.8800e-003		0.1380	0.1380		0.1298	0.1298	0.0000	251.5615	251.5615	0.0613	0.0000	253.0936
Total	0.2526	2.2554	1.8365	2.8800e-003		0.1380	0.1380		0.1298	0.1298	0.0000	251.5615	251.5615	0.0613	0.0000	253.0936

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	0.1191	3.5161	0.7280	7.7500e-003	0.1681	0.0203	0.1884	0.0487	0.0194	0.0681	0.0000	735.3351	735.3351	0.0413	0.0000	736.3683
Worker	0.3665	0.2804	2.8937	8.2700e-003	0.8466	5.5000e-003	0.8521	0.2253	5.0700e-003	0.2304	0.0000	747.1712	747.1712	0.0196	0.0000	747.6610
Total	0.4856	3.7965	3.6217	0.0160	1.0147	0.0258	1.0405	0.2739	0.0245	0.2984	0.0000	1,482.5063	1,482.5063	0.0609	0.0000	1,484.0293

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0936	1.1637	1.9457	2.8800e-003		0.0147	0.0147		0.0147	0.0147	0.0000	251.5612	251.5612	0.0613	0.0000	253.0933
Total	0.0936	1.1637	1.9457	2.8800e-003		0.0147	0.0147		0.0147	0.0147	0.0000	251.5612	251.5612	0.0613	0.0000	253.0933

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	0.1191	3.5161	0.7280	7.7500e-003	0.1681	0.0203	0.1884	0.0487	0.0194	0.0681	0.0000	735.3351	735.3351	0.0413	0.0000	736.3683
Worker	0.3665	0.2804	2.8937	8.2700e-003	0.8466	5.5000e-003	0.8521	0.2253	5.0700e-003	0.2304	0.0000	747.1712	747.1712	0.0196	0.0000	747.6610
Total	0.4856	3.7965	3.6217	0.0160	1.0147	0.0258	1.0405	0.2739	0.0245	0.2984	0.0000	1,482.5063	1,482.5063	0.0609	0.0000	1,484.0293

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0255	0.2668	0.2566	4.0000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	35.8316	35.8316	0.0113	0.0000	36.1150
Paving	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0580	0.2668	0.2566	4.0000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	35.8316	35.8316	0.0113	0.0000	36.1150

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306
Total	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306

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	5.8500e-003	0.1757	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.8315	35.8315	0.0113	0.0000	36.1149
Paving	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0384	0.1757	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.8315	35.8315	0.0113	0.0000	36.1149

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306
Total	1.3900e-003	1.0600e-003	0.0110	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.8287	2.8287	7.0000e-005	0.0000	2.8306

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3334					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6600e-003	0.0321	0.0322	5.0000e-005		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776
Total	1.3381	0.0321	0.0322	5.0000e-005		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0120	9.2000e-003	0.0950	2.7000e-004	0.0278	1.8000e-004	0.0280	7.3900e-003	1.7000e-004	7.5600e-003	0.0000	24.5156	24.5156	6.4000e-004	0.0000	24.5317
Total	0.0120	9.2000e-003	0.0950	2.7000e-004	0.0278	1.8000e-004	0.0280	7.3900e-003	1.7000e-004	7.5600e-003	0.0000	24.5156	24.5156	6.4000e-004	0.0000	24.5317

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3334					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	0.0186	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776
Total	1.3344	0.0186	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	3.8000e-004	0.0000	4.4776

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0120	9.2000e-003	0.0950	2.7000e-004	0.0278	1.8000e-004	0.0280	7.3900e-003	1.7000e-004	7.5600e-003	0.0000	24.5156	24.5156	6.4000e-004	0.0000	24.5317
Total	0.0120	9.2000e-003	0.0950	2.7000e-004	0.0278	1.8000e-004	0.0280	7.3900e-003	1.7000e-004	7.5600e-003	0.0000	24.5156	24.5156	6.4000e-004	0.0000	24.5317

Lincoln SUD-B SP Mitigated Construction (Phase 1C)
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	24.86	Acre	24.86	1,082,901.60	0
Motel	100.00	Room	4.50	196,020.00	0
Free-Standing Discount Superstore	119.47	1000sqft	2.74	119,474.00	0
Regional Shopping Center	227.40	1000sqft	5.22	227,398.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1C includes 100 room hotel, parking, and commercial (assumed 66% of total big box and commercial)

Construction Phase - Assumed construction start 1/18 over 2-years and overlapped with Paving.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment -

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Area Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Parking	64974	46679
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	740.00	410.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	30.00	20.00

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tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	LightingElect	3.49	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24E	1.37	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	NT24NG	0.26	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24E	1.96	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24NG	11.39	0.00
tblEnergyUse	T24NG	26.60	0.00
tblEnergyUse	T24NG	11.39	0.00
tblLandUse	BuildingSpaceSquareFeet	119,470.00	119,474.00
tblLandUse	BuildingSpaceSquareFeet	227,400.00	227,398.00
tblLandUse	LandUseSquareFeet	119,470.00	119,474.00
tblLandUse	LandUseSquareFeet	227,400.00	227,398.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Summer

tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	513.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	238.77	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	5.63	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	5.63	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	5.63	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	8,849,444.14	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	16,844,091.39	0.00
tblWater	OutdoorWaterUseRate	5,423,852.86	0.00
tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	10,323,797.95	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/26/2018	5	20	
2	Grading	Grading	1/27/2018	3/30/2018	5	45	
3	Building Construction	Building Construction	3/31/2018	10/25/2019	5	410	
4	Paving	Paving	9/25/2019	11/12/2019	5	35	
5	Architectural Coating	Architectural Coating	11/13/2019	12/31/2019	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 24.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 814,338; Non-Residential Outdoor: 271,446; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	648.00	266.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	130.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Summer

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.7724	13.6340	25.5051	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	0.7724	13.6340	25.5051	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	1.0867	20.7427	39.2676	0.0654		0.1070	0.1070		0.1070	0.1070	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	1.0867	20.7427	39.2676	0.0654	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.2328	34.1975	6.9347	0.0741	1.6297	0.2311	1.8608	0.4693	0.2211	0.6904		7,755.5490	7,755.5490	0.4238		7,766.1437
Worker	4.0898	2.6212	34.6329	0.0874	8.2769	0.0519	8.3289	2.1950	0.0479	2.2429		8,699.6576	8,699.6576	0.2499		8,705.9037
Total	5.3226	36.8187	41.5676	0.1615	9.9066	0.2831	10.1897	2.6642	0.2690	2.9332		16,455.2065	16,455.2065	0.6736		16,472.0474

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9314	10.9330	18.2359	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	0.9314	10.9330	18.2359	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.2328	34.1975	6.9347	0.0741	1.6297	0.2311	1.8608	0.4693	0.2211	0.6904		7,755.5490	7,755.5490	0.4238		7,766.1437
Worker	4.0898	2.6212	34.6329	0.0874	8.2769	0.0519	8.3289	2.1950	0.0479	2.2429		8,699.6576	8,699.6576	0.2499		8,705.9037
Total	5.3226	36.8187	41.5676	0.1615	9.9066	0.2831	10.1897	2.6642	0.2690	2.9332		16,455.2065	16,455.2065	0.6736		16,472.0474

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.0873	32.3581	6.1730	0.0735	1.6296	0.1874	1.8171	0.4693	0.1793	0.6486		7,690.8599	7,690.8599	0.4023		7,700.9178
Worker	3.7106	2.3052	31.1363	0.0847	8.2769	0.0514	8.3283	2.1950	0.0474	2.2424		8,439.3505	8,439.3505	0.2226		8,444.9151
Total	4.7978	34.6633	37.3093	0.1583	9.9066	0.2389	10.1454	2.6642	0.2267	2.8909		16,130.2103	16,130.2103	0.6249		16,145.8328

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8748	10.8753	18.1841	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.8748	10.8753	18.1841	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.0873	32.3581	6.1730	0.0735	1.6296	0.1874	1.8171	0.4693	0.1793	0.6486		7,690.8599	7,690.8599	0.4023		7,700.9178
Worker	3.7106	2.3052	31.1363	0.0847	8.2769	0.0514	8.3283	2.1950	0.0474	2.2424		8,439.3505	8,439.3505	0.2226		8,444.9151
Total	4.7978	34.6633	37.3093	0.1583	9.9066	0.2389	10.1454	2.6642	0.2267	2.8909		16,130.2103	16,130.2103	0.6249		16,145.8328

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3154	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841
Total	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1950	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841
Total	0.0859	0.0534	0.7208	1.9600e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		195.3553	195.3553	5.1500e-003		195.4841

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	76.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	76.4631	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.7444	0.4625	6.2465	0.0170	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,693.0796	1,693.0796	0.0447		1,694.1959
Total	0.7444	0.4625	6.2465	0.0170	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,693.0796	1,693.0796	0.0447		1,694.1959

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Summer

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	76.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423
Total	76.2511	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.7444	0.4625	6.2465	0.0170	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,693.0796	1,693.0796	0.0447		1,694.1959
Total	0.7444	0.4625	6.2465	0.0170	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,693.0796	1,693.0796	0.0447		1,694.1959

Lincoln SUD-B SP Mitigated Construction (Phase 1C)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	24.86	Acre	24.86	1,082,901.60	0
Motel	100.00	Room	4.50	196,020.00	0
Free-Standing Discount Superstore	119.47	1000sqft	2.74	119,474.00	0
Regional Shopping Center	227.40	1000sqft	5.22	227,398.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1C includes 100 room hotel, parking, and commercial (assumed 66% of total big box and commercial)

Construction Phase - Assumed construction start 1/18 over 2-years and overlapped with Paving.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment -

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Area Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Parking	64974	46679
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	740.00	410.00
tblConstructionPhase	NumDays	75.00	45.00
tblConstructionPhase	NumDays	55.00	35.00
tblConstructionPhase	NumDays	30.00	20.00

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 Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Winter

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	LightingElect	3.49	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	6.08	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24E	1.37	0.00
tblEnergyUse	NT24E	1.98	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	NT24NG	0.26	0.00
tblEnergyUse	NT24NG	0.36	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24E	1.96	0.00
tblEnergyUse	T24E	4.08	0.00
tblEnergyUse	T24NG	11.39	0.00
tblEnergyUse	T24NG	26.60	0.00
tblEnergyUse	T24NG	11.39	0.00
tblLandUse	BuildingSpaceSquareFeet	119,470.00	119,474.00
tblLandUse	BuildingSpaceSquareFeet	227,400.00	227,398.00
tblLandUse	LandUseSquareFeet	119,470.00	119,474.00
tblLandUse	LandUseSquareFeet	227,400.00	227,398.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Winter

tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	513.80	0.00
tblSolidWaste	SolidWasteGenerationRate	54.75	0.00
tblSolidWaste	SolidWasteGenerationRate	238.77	0.00
tblVehicleTrips	ST_TR	64.07	0.00
tblVehicleTrips	ST_TR	5.63	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	56.12	0.00
tblVehicleTrips	SU_TR	5.63	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	50.75	0.00
tblVehicleTrips	WD_TR	5.63	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblWater	IndoorWaterUseRate	8,849,444.14	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	16,844,091.39	0.00
tblWater	OutdoorWaterUseRate	5,423,852.86	0.00
tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	10,323,797.95	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	1/26/2018	5	20	
2	Grading	Grading	1/27/2018	3/30/2018	5	45	
3	Building Construction	Building Construction	3/31/2018	10/25/2019	5	410	
4	Paving	Paving	9/25/2019	11/12/2019	5	35	
5	Architectural Coating	Architectural Coating	11/13/2019	12/31/2019	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 24.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 814,338; Non-Residential Outdoor: 271,446; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	648.00	266.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	130.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

Lincoln SUD-B SP Mitigated Construction (Phase 1C) - Placer-Sacramento County, Winter

Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.7724	13.6340	25.5051	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	0.7724	13.6340	25.5051	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	1.0867	20.7427	39.2676	0.0654		0.1070	0.1070		0.1070	0.1070	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	1.0867	20.7427	39.2676	0.0654	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.3027	34.6223	8.3945	0.0715	1.6297	0.2368	1.8665	0.4693	0.2265	0.6958		7,480.6279	7,480.6279	0.4770		7,492.5516
Worker	4.1775	3.2932	30.4020	0.0778	8.2769	0.0519	8.3289	2.1950	0.0479	2.2429		7,739.6669	7,739.6669	0.2253		7,745.2981
Total	5.4802	37.9155	38.7965	0.1493	9.9066	0.2887	10.1953	2.6642	0.2744	2.9387		15,220.2948	15,220.2948	0.7022		15,237.8498

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9314	10.9330	18.2359	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	0.9314	10.9330	18.2359	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

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	1.3027	34.6223	8.3945	0.0715	1.6297	0.2368	1.8665	0.4693	0.2265	0.6958		7,480.6279	7,480.6279	0.4770		7,492.5516
Worker	4.1775	3.2932	30.4020	0.0778	8.2769	0.0519	8.3289	2.1950	0.0479	2.2429		7,739.6669	7,739.6669	0.2253		7,745.2981
Total	5.4802	37.9155	38.7965	0.1493	9.9066	0.2887	10.1953	2.6642	0.2744	2.9387		15,220.2948	15,220.2948	0.7022		15,237.8498

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.1507	32.6992	7.5151	0.0709	1.6296	0.1925	1.8221	0.4693	0.1842	0.6534		7,416.0386	7,416.0386	0.4541		7,427.3905
Worker	3.7862	2.8948	27.0617	0.0754	8.2769	0.0514	8.3283	2.1950	0.0474	2.2424		7,507.4128	7,507.4128	0.1993		7,512.3956
Total	4.9369	35.5940	34.5768	0.1463	9.9066	0.2439	10.1505	2.6642	0.2316	2.8958		14,923.4514	14,923.4514	0.6534		14,939.7860

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8748	10.8753	18.1841	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.8748	10.8753	18.1841	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	1.1507	32.6992	7.5151	0.0709	1.6296	0.1925	1.8221	0.4693	0.1842	0.6534		7,416.0386	7,416.0386	0.4541		7,427.3905
Worker	3.7862	2.8948	27.0617	0.0754	8.2769	0.0514	8.3283	2.1950	0.0474	2.2424		7,507.4128	7,507.4128	0.1993		7,512.3956
Total	4.9369	35.5940	34.5768	0.1463	9.9066	0.2439	10.1505	2.6642	0.2316	2.8958		14,923.4514	14,923.4514	0.6534		14,939.7860

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3154	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981
Total	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1950	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981
Total	0.0876	0.0670	0.6264	1.7400e-003	0.1916	1.1900e-003	0.1928	0.0508	1.1000e-003	0.0519		173.7827	173.7827	4.6100e-003		173.8981

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	76.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	76.4631	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.7596	0.5807	5.4291	0.0151	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,506.1168	1,506.1168	0.0400		1,507.1164
Total	0.7596	0.5807	5.4291	0.0151	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,506.1168	1,506.1168	0.0400		1,507.1164

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	76.1966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423
Total	76.2511	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.7596	0.5807	5.4291	0.0151	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,506.1168	1,506.1168	0.0400		1,507.1164
Total	0.7596	0.5807	5.4291	0.0151	1.6605	0.0103	1.6708	0.4404	9.5100e-003	0.4499		1,506.1168	1,506.1168	0.0400		1,507.1164

**Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B)
Placer-Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	16.05	Acre	16.05	699,138.00	0
City Park	5.10	Acre	5.10	222,156.00	0
Single Family Housing	317.00	Dwelling Unit	48.15	570,600.00	907

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year	2020		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1A and 1B includes 317 residential units and 5.1 acres of park space (assumed 75% of residential units developed in 1A and 1B and 25% paved acreage in PA-6).

Construction Phase - Assumed construction start 7/18 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Annual

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	1,110.00	575.00
tblConstructionPhase	NumDays	110.00	70.00
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	PhaseEndDate	7/30/2021	6/28/2021
tblConstructionPhase	PhaseEndDate	5/7/2021	4/5/2021
tblConstructionPhase	PhaseStartDate	5/8/2021	4/6/2021
tblConstructionPhase	PhaseStartDate	2/13/2021	1/12/2021
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Annual

tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00
tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LotAcreage	102.92	48.15
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.44	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	6,076,554.88	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.3694	3.8003	2.3657	4.7300e-003	0.7553	0.1787	0.9340	0.3488	0.1648	0.5136	0.0000	432.1405	432.1405	0.0998	0.0000	434.6351
2019	0.7547	5.9977	5.5860	0.0179	0.9409	0.1907	1.1316	0.2537	0.1795	0.4332	0.0000	1,635.0952	1,635.0952	0.1283	0.0000	1,638.3021
2020	0.6805	5.5207	5.2091	0.0176	0.9445	0.1629	1.1074	0.2547	0.1533	0.4080	0.0000	1,609.3065	1,609.3065	0.1227	0.0000	1,612.3738
2021	1.9877	1.0417	1.1930	3.2100e-003	0.1539	0.0395	0.1934	0.0413	0.0369	0.0783	0.0000	289.4371	289.4371	0.0347	0.0000	290.3052
Maximum	1.9877	5.9977	5.5860	0.0179	0.9445	0.1907	1.1316	0.3488	0.1795	0.5136	0.0000	1,635.0952	1,635.0952	0.1283	0.0000	1,638.3021

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.0928	0.4800	2.2570	4.7300e-003	0.3896	8.9100e-003	0.3985	0.1704	8.8000e-003	0.1792	0.0000	432.1401	432.1401	0.0998	0.0000	434.6347
2019	0.5339	3.6195	5.6652	0.0179	0.9409	0.0403	0.9812	0.2537	0.0392	0.2929	0.0000	1,635.0949	1,635.0949	0.1283	0.0000	1,638.3017
2020	0.4848	3.3744	5.3246	0.0176	0.9445	0.0330	0.9774	0.2547	0.0321	0.2867	0.0000	1,609.3062	1,609.3062	0.1227	0.0000	1,612.3734
2021	1.9324	0.4209	1.2898	3.2100e-003	0.1539	4.4800e-003	0.1584	0.0413	4.3900e-003	0.0457	0.0000	289.4370	289.4370	0.0347	0.0000	290.3051
Maximum	1.9324	3.6195	5.6652	0.0179	0.9445	0.0403	0.9812	0.2547	0.0392	0.2929	0.0000	1,635.0949	1,635.0949	0.1283	0.0000	1,638.3017

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	19.73	51.74	-1.27	0.00	13.09	84.84	25.28	19.86	84.20	43.86	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	8/24/2018	5	40	
2	Grading	Grading	8/25/2018	11/30/2018	5	70	
3	Building Construction	Building Construction	12/1/2018	2/12/2021	5	575	
4	Paving	Paving	1/12/2021	4/5/2021	5	60	
5	Architectural Coating	Architectural Coating	4/6/2021	6/28/2021	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 175

Acres of Paving: 16.05

Residential Indoor: 1,155,465; Residential Outdoor: 385,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	501.00	185.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	100.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1003	1.0454	0.5026	8.3000e-004		0.0577	0.0577		0.0531	0.0531	0.0000	75.6814	75.6814	0.0236	0.0000	76.2704
Total	0.1003	1.0454	0.5026	8.3000e-004	0.3613	0.0577	0.4191	0.1986	0.0531	0.2517	0.0000	75.6814	75.6814	0.0236	0.0000	76.2704

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	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469
Total	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1626	0.0000	0.1626	0.0894	0.0000	0.0894	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.0439	0.4683	8.3000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	75.6813	75.6813	0.0236	0.0000	76.2703
Total	0.0101	0.0439	0.4683	8.3000e-004	0.1626	1.3500e-003	0.1640	0.0894	1.3500e-003	0.0907	0.0000	75.6813	75.6813	0.0236	0.0000	76.2703

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	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469
Total	2.3300e-003	1.8400e-003	0.0187	5.0000e-005	4.8800e-003	3.0000e-005	4.9200e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4437	4.4437	1.3000e-004	0.0000	4.4469

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3036	0.0000	0.3036	0.1259	0.0000	0.1259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1940	2.2257	1.3209	2.2900e-003		0.1030	0.1030		0.0948	0.0948	0.0000	209.0525	209.0525	0.0651	0.0000	210.6795
Total	0.1940	2.2257	1.3209	2.2900e-003	0.3036	0.1030	0.4066	0.1259	0.0948	0.2207	0.0000	209.0525	209.0525	0.0651	0.0000	210.6795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494
Total	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1366	0.0000	0.1366	0.0566	0.0000	0.0566	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0281	0.1218	1.2440	2.2900e-003		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	209.0522	209.0522	0.0651	0.0000	210.6793
Total	0.0281	0.1218	1.2440	2.2900e-003	0.1366	3.7500e-003	0.1404	0.0566	3.7500e-003	0.0604	0.0000	209.0522	209.0522	0.0651	0.0000	210.6793

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494
Total	4.7000e-003	3.7000e-003	0.0376	1.0000e-004	9.8300e-003	6.0000e-005	9.8900e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.9430	8.9430	2.6000e-004	0.0000	8.9494

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0281	0.2456	0.1846	2.8000e-004		0.0158	0.0158		0.0148	0.0148	0.0000	24.9656	24.9656	6.1200e-003	0.0000	25.1185
Total	0.0281	0.2456	0.1846	2.8000e-004		0.0158	0.0158		0.0148	0.0148	0.0000	24.9656	24.9656	6.1200e-003	0.0000	25.1185

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2100e-003	0.2540	0.0556	5.3000e-004	0.0115	1.7100e-003	0.0132	3.3200e-003	1.6300e-003	4.9500e-003	0.0000	50.6141	50.6141	2.9700e-003	0.0000	50.6883
Worker	0.0307	0.0242	0.2457	6.5000e-004	0.0642	4.2000e-004	0.0647	0.0171	3.9000e-004	0.0175	0.0000	58.4403	58.4403	1.6800e-003	0.0000	58.4822
Total	0.0399	0.2782	0.3013	1.1800e-003	0.0757	2.1300e-003	0.0778	0.0204	2.0200e-003	0.0224	0.0000	109.0544	109.0544	4.6500e-003	0.0000	109.1704

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.6200e-003	0.0306	0.1871	2.8000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	24.9655	24.9655	6.1200e-003	0.0000	25.1184
Total	7.6200e-003	0.0306	0.1871	2.8000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	24.9655	24.9655	6.1200e-003	0.0000	25.1184

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2100e-003	0.2540	0.0556	5.3000e-004	0.0115	1.7100e-003	0.0132	3.3200e-003	1.6300e-003	4.9500e-003	0.0000	50.6141	50.6141	2.9700e-003	0.0000	50.6883
Worker	0.0307	0.0242	0.2457	6.5000e-004	0.0642	4.2000e-004	0.0647	0.0171	3.9000e-004	0.0175	0.0000	58.4403	58.4403	1.6800e-003	0.0000	58.4822
Total	0.0399	0.2782	0.3013	1.1800e-003	0.0757	2.1300e-003	0.0778	0.0204	2.0200e-003	0.0224	0.0000	109.0544	109.0544	4.6500e-003	0.0000	109.1704

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

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	0.1011	2.9825	0.6176	6.5700e-003	0.1426	0.0172	0.1598	0.0413	0.0165	0.0577	0.0000	623.7379	623.7379	0.0351	0.0000	624.6143
Worker	0.3456	0.2644	2.7286	7.8000e-003	0.7983	5.1900e-003	0.8035	0.2124	4.7800e-003	0.2172	0.0000	704.5464	704.5464	0.0185	0.0000	705.0083
Total	0.4466	3.2469	3.3462	0.0144	0.9409	0.0224	0.9633	0.2537	0.0212	0.2750	0.0000	1,328.2842	1,328.2842	0.0535	0.0000	1,329.6225

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0873	0.3726	2.3191	3.5100e-003		0.0180	0.0180		0.0180	0.0180	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.0873	0.3726	2.3191	3.5100e-003		0.0180	0.0180		0.0180	0.0180	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

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	0.1011	2.9825	0.6176	6.5700e-003	0.1426	0.0172	0.1598	0.0413	0.0165	0.0577	0.0000	623.7379	623.7379	0.0351	0.0000	624.6143
Worker	0.3456	0.2644	2.7286	7.8000e-003	0.7983	5.1900e-003	0.8035	0.2124	4.7800e-003	0.2172	0.0000	704.5464	704.5464	0.0185	0.0000	705.0083
Total	0.4466	3.2469	3.3462	0.0144	0.9409	0.0224	0.9633	0.2537	0.0212	0.2750	0.0000	1,328.2842	1,328.2842	0.0535	0.0000	1,329.6225

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

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	0.0846	2.7724	0.5457	6.5500e-003	0.1431	0.0115	0.1546	0.0414	0.0110	0.0524	0.0000	621.2869	621.2869	0.0325	0.0000	622.0995
Worker	0.3182	0.2349	2.4562	7.5700e-003	0.8014	5.1000e-003	0.8065	0.2132	4.7000e-003	0.2179	0.0000	684.6105	684.6105	0.0162	0.0000	685.0146
Total	0.4028	3.0073	3.0019	0.0141	0.9445	0.0166	0.9611	0.2547	0.0157	0.2704	0.0000	1,305.8975	1,305.8975	0.0487	0.0000	1,307.1142

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Annual

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	0.0820	0.3671	2.3227	3.5300e-003		0.0163	0.0163		0.0163	0.0163	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.0820	0.3671	2.3227	3.5300e-003		0.0163	0.0163		0.0163	0.0163	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

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	0.0846	2.7724	0.5457	6.5500e-003	0.1431	0.0115	0.1546	0.0414	0.0110	0.0524	0.0000	621.2869	621.2869	0.0325	0.0000	622.0995
Worker	0.3182	0.2349	2.4562	7.5700e-003	0.8014	5.1000e-003	0.8065	0.2132	4.7000e-003	0.2179	0.0000	684.6105	684.6105	0.0162	0.0000	685.0146
Total	0.4028	3.0073	3.0019	0.0141	0.9445	0.0166	0.9611	0.2547	0.0157	0.2704	0.0000	1,305.8975	1,305.8975	0.0487	0.0000	1,307.1142

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9038	35.9038	8.6600e-003	0.0000	36.1203
Total	0.0295	0.2702	0.2569	4.2000e-004		0.0149	0.0149		0.0140	0.0140	0.0000	35.9038	35.9038	8.6600e-003	0.0000	36.1203

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	8.4200e-003	0.3021	0.0575	7.7000e-004	0.0169	6.6000e-004	0.0176	4.9000e-003	6.3000e-004	5.5300e-003	0.0000	72.9325	72.9325	3.6400e-003	0.0000	73.0234
Worker	0.0351	0.0249	0.2662	8.6000e-004	0.0948	5.9000e-004	0.0954	0.0252	5.4000e-004	0.0258	0.0000	78.1505	78.1505	1.7100e-003	0.0000	78.1933
Total	0.0435	0.3271	0.3237	1.6300e-003	0.1118	1.2500e-003	0.1130	0.0301	1.1700e-003	0.0313	0.0000	151.0830	151.0830	5.3500e-003	0.0000	151.2167

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0900e-003	0.0425	0.2741	4.2000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	35.9037	35.9037	8.6600e-003	0.0000	36.1203
Total	9.0900e-003	0.0425	0.2741	4.2000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	35.9037	35.9037	8.6600e-003	0.0000	36.1203

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	8.4200e-003	0.3021	0.0575	7.7000e-004	0.0169	6.6000e-004	0.0176	4.9000e-003	6.3000e-004	5.5300e-003	0.0000	72.9325	72.9325	3.6400e-003	0.0000	73.0234
Worker	0.0351	0.0249	0.2662	8.6000e-004	0.0948	5.9000e-004	0.0954	0.0252	5.4000e-004	0.0258	0.0000	78.1505	78.1505	1.7100e-003	0.0000	78.1933
Total	0.0435	0.3271	0.3237	1.6300e-003	0.1118	1.2500e-003	0.1130	0.0301	1.1700e-003	0.0313	0.0000	151.0830	151.0830	5.3500e-003	0.0000	151.2167

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0377	0.3876	0.4396	6.8000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561
Paving	0.0210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0587	0.3876	0.4396	6.8000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561

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	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312
Total	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4100e-003	0.0365	0.5189	6.8000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561
Paving	0.0210					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0294	0.0365	0.5189	6.8000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	60.0704	60.0704	0.0194	0.0000	60.5561

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	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312
Total	2.0300e-003	1.4400e-003	0.0154	5.0000e-005	5.4900e-003	3.0000e-005	5.5300e-003	1.4600e-003	3.0000e-005	1.4900e-003	0.0000	4.5287	4.5287	1.0000e-004	0.0000	4.5312

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.8338					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5700e-003	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729
Total	1.8404	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080
Total	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.8338					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9000e-004	3.8600e-003	0.0550	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729
Total	1.8347	3.8600e-003	0.0550	9.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080
Total	0.0136	9.6300e-003	0.1028	3.3000e-004	0.0366	2.3000e-004	0.0369	9.7500e-003	2.1000e-004	9.9600e-003	0.0000	30.1914	30.1914	6.6000e-004	0.0000	30.2080

**Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B)
Placer-Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	16.05	Acre	16.05	699,138.00	0
City Park	5.10	Acre	5.10	222,156.00	0
Single Family Housing	317.00	Dwelling Unit	48.15	570,600.00	907

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year		2020	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1A and 1B includes 317 residential units and 5.1 acres of park space (assumed 75% of residential units developed in 1A and 1B and 25% paved access in DA C)

Construction Phase - Assumed construction start 7/18 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	1,110.00	575.00
tblConstructionPhase	NumDays	110.00	70.00
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	PhaseEndDate	7/30/2021	6/28/2021
tblConstructionPhase	PhaseEndDate	5/7/2021	4/5/2021
tblConstructionPhase	PhaseStartDate	5/8/2021	4/6/2021
tblConstructionPhase	PhaseStartDate	2/13/2021	1/12/2021
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00
tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LotAcreage	102.92	48.15
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.44	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	6,076,554.88	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.6989	63.6836	49.1798	0.1461	18.3217	2.9451	21.2097	9.9984	2.7095	12.6554	0.0000	14,740.9561	14,740.9561	2.0586	0.0000	14,769.2069
2019	5.9862	45.3658	45.5300	0.1436	7.5327	1.4600	8.9927	2.0234	1.3741	3.3975	0.0000	14,465.3546	14,465.3546	1.0832	0.0000	14,492.4354
2020	5.3808	41.6460	42.3143	0.1410	7.5327	1.2427	8.7754	2.0234	1.1692	3.1926	0.0000	14,177.7158	14,177.7158	1.0316	0.0000	14,203.5062
2021	61.8350	51.0875	55.1040	0.1630	7.7242	1.7169	9.4411	2.0742	1.6005	3.6747	0.0000	16,303.8821	16,303.8821	1.7128	0.0000	16,346.7026
Maximum	61.8350	63.6836	55.1040	0.1630	18.3217	2.9451	21.2097	9.9984	2.7095	12.6554	0.0000	16,303.8821	16,303.8821	2.0586	0.0000	16,346.7026

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.7452	28.7232	49.4218	0.1461	8.3853	0.3523	8.4545	4.5366	0.3422	4.6056	0.0000	14,740.9561	14,740.9561	2.0586	0.0000	14,769.2069
2019	4.2942	27.1420	46.1368	0.1436	7.5327	0.3077	7.8403	2.0234	0.2989	2.3223	0.0000	14,465.3546	14,465.3546	1.0832	0.0000	14,492.4354
2020	3.8871	25.2620	43.1962	0.1410	7.5327	0.2504	7.7831	2.0234	0.2436	2.2670	0.0000	14,177.7158	14,177.7158	1.0316	0.0000	14,203.5062
2021	61.6458	24.6913	58.8534	0.1630	7.7242	0.2300	7.9542	2.0742	0.2251	2.2993	0.0000	16,303.8821	16,303.8821	1.7128	0.0000	16,346.7025
Maximum	61.6458	28.7232	58.8534	0.1630	8.3853	0.3523	8.4545	4.5366	0.3422	4.6056	0.0000	16,303.8821	16,303.8821	2.0586	0.0000	16,346.7025

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.67	47.56	-2.85	0.00	24.17	84.52	33.84	33.88	83.81	49.85	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	8/24/2018	5	40	
2	Grading	Grading	8/25/2018	11/30/2018	5	70	
3	Building Construction	Building Construction	12/1/2018	2/12/2021	5	575	
4	Paving	Paving	1/12/2021	4/5/2021	5	60	
5	Architectural Coating	Architectural Coating	4/6/2021	6/28/2021	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 175

Acres of Paving: 16.05

Residential Indoor: 1,155,465; Residential Outdoor: 385,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	501.00	185.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	100.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	0.5068	2.1963	23.4140	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007
Total	0.1262	0.0809	1.0689	2.7000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		268.5080	268.5080	7.7100e-003		268.7007

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0654		0.1070	0.1070		0.1070	0.1070	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	0.8028	3.4789	35.5442	0.0654	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058
Total	0.1452	0.0930	1.2293	3.1000e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		308.7841	308.7841	8.8700e-003		309.0058

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.8574	23.7840	4.8230	0.0516	1.1334	0.1607	1.2942	0.3264	0.1538	0.4801		5,393.8968	5,393.8968	0.2947		5,401.2653
Worker	3.1620	2.0265	26.7764	0.0676	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		6,726.1241	6,726.1241	0.1932		6,730.9533
Total	4.0194	25.8105	31.5994	0.1191	7.5327	0.2009	7.7336	2.0234	0.1908	2.2142		12,120.0210	12,120.0210	0.4879		12,132.2187

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7258	2.9127	17.8224	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	0.7258	2.9127	17.8224	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.8574	23.7840	4.8230	0.0516	1.1334	0.1607	1.2942	0.3264	0.1538	0.4801		5,393.8968	5,393.8968	0.2947		5,401.2653
Worker	3.1620	2.0265	26.7764	0.0676	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		6,726.1241	6,726.1241	0.1932		6,730.9533
Total	4.0194	25.8105	31.5994	0.1191	7.5327	0.2009	7.7336	2.0234	0.1908	2.2142		12,120.0210	12,120.0210	0.4879		12,132.2187

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.7562	22.5047	4.2932	0.0511	1.1334	0.1304	1.2638	0.3264	0.1247	0.4511		5,348.9063	5,348.9063	0.2798		5,355.9015
Worker	2.8688	1.7823	24.0730	0.0655	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		6,524.8682	6,524.8682	0.1721		6,529.1704
Total	3.6250	24.2870	28.3662	0.1167	7.5327	0.1701	7.7028	2.0234	0.1614	2.1847		11,873.7745	11,873.7745	0.4519		11,885.0719

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6692	2.8550	17.7706	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.6692	2.8550	17.7706	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.7562	22.5047	4.2932	0.0511	1.1334	0.1304	1.2638	0.3264	0.1247	0.4511		5,348.9063	5,348.9063	0.2798		5,355.9015
Worker	2.8688	1.7823	24.0730	0.0655	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		6,524.8682	6,524.8682	0.1721		6,529.1704
Total	3.6250	24.2870	28.3662	0.1167	7.5327	0.1701	7.7028	2.0234	0.1614	2.1847		11,873.7745	11,873.7745	0.4519		11,885.0719

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6293	20.8809	3.7698	0.0507	1.1334	0.0867	1.2201	0.3264	0.0830	0.4093		5,308.3232	5,308.3232	0.2581		5,314.7754
Worker	2.6317	1.5790	21.6960	0.0634	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		6,316.3296	6,316.3296	0.1507		6,320.0963
Total	3.2610	22.4600	25.4658	0.1141	7.5327	0.1257	7.6583	2.0234	0.1189	2.1422		11,624.6527	11,624.6527	0.4088		11,634.8717

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.6293	20.8809	3.7698	0.0507	1.1334	0.0867	1.2201	0.3264	0.0830	0.4093		5,308.3232	5,308.3232	0.2581		5,314.7754
Worker	2.6317	1.5790	21.6960	0.0634	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		6,316.3296	6,316.3296	0.1507		6,320.0963
Total	3.2610	22.4600	25.4658	0.1141	7.5327	0.1257	7.6583	2.0234	0.1189	2.1422		11,624.6527	11,624.6527	0.4088		11,634.8717

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5282	19.2776	3.3389	0.0503	1.1333	0.0416	1.1749	0.3263	0.0398	0.3661		5,267.1692	5,267.1692	0.2438		5,273.2652
Worker	2.4517	1.4164	19.9396	0.0611	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		6,093.6923	6,093.6923	0.1351		6,097.0688
Total	2.9799	20.6939	23.2786	0.1115	7.5326	0.0795	7.6121	2.0234	0.0747	2.0980		11,360.8614	11,360.8614	0.3789		11,370.3340

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5282	19.2776	3.3389	0.0503	1.1333	0.0416	1.1749	0.3263	0.0398	0.3661		5,267.1692	5,267.1692	0.2438		5,273.2652
Worker	2.4517	1.4164	19.9396	0.0611	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		6,093.6923	6,093.6923	0.1351		6,097.0688
Total	2.9799	20.6939	23.2786	0.1115	7.5326	0.0795	7.6121	2.0234	0.0747	2.0980		11,360.8614	11,360.8614	0.3789		11,370.3340

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9564	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470
Total	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9813	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470
Total	0.0734	0.0424	0.5970	1.8300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		182.4459	182.4459	4.0400e-003		182.5470

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.1267					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	61.3456	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798
Total	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798

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	61.1267					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
Total	61.1564	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798
Total	0.4894	0.2827	3.9800	0.0122	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,216.3058	1,216.3058	0.0270		1,216.9798

**Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B)
Placer-Sacramento County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	16.05	Acre	16.05	699,138.00	0
City Park	5.10	Acre	5.10	222,156.00	0
Single Family Housing	317.00	Dwelling Unit	48.15	570,600.00	907

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year	2020		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 1A and 1B includes 317 residential units and 5.1 acres of park space (assumed 75% of residential units developed in 1A and 1B and 25% paved access in DA C)

Construction Phase - Assumed construction start 7/18 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	NumDays	1,110.00	575.00
tblConstructionPhase	NumDays	110.00	70.00
tblConstructionPhase	NumDays	75.00	60.00
tblConstructionPhase	PhaseEndDate	7/30/2021	6/28/2021
tblConstructionPhase	PhaseEndDate	5/7/2021	4/5/2021
tblConstructionPhase	PhaseStartDate	5/8/2021	4/6/2021
tblConstructionPhase	PhaseStartDate	2/13/2021	1/12/2021
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00
tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LotAcreage	102.92	48.15
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.44	0.00
tblSolidWaste	SolidWasteGenerationRate	326.52	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	6,076,554.88	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	6.8154	63.7075	46.9240	0.1368	18.3217	2.9451	21.2097	9.9984	2.7095	12.6554	0.0000	13,807.53 65	13,807.536 5	2.0577	0.0000	13,836.23 64
2019	6.0887	46.0588	43.3131	0.1345	7.5327	1.4635	8.9962	2.0234	1.3774	3.4008	0.0000	13,553.69 37	13,553.693 7	1.1012	0.0000	13,581.22 45
2020	5.4760	42.2107	40.1647	0.1322	7.5327	1.2453	8.7780	2.0234	1.1717	3.1951	0.0000	13,288.38 15	13,288.381 5	1.0487	0.0000	13,314.60 00
2021	61.8461	51.5439	52.9608	0.1542	7.7242	1.7192	9.4434	2.0742	1.6027	3.6768	0.0000	15,419.19 48	15,419.194 8	1.7296	0.0000	15,462.43 48
Maximum	61.8461	63.7075	52.9608	0.1542	18.3217	2.9451	21.2097	9.9984	2.7095	12.6554	0.0000	15,419.19 48	15,419.194 8	2.0577	0.0000	15,462.43 48

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.8616	29.5382	47.1660	0.1368	8.3853	0.3563	8.4545	4.5366	0.3460	4.6056	0.0000	13,807.53 65	13,807.536 5	2.0577	0.0000	13,836.23 63
2019	4.3968	27.8350	43.9199	0.1345	7.5327	0.3112	7.8439	2.0234	0.3023	2.3257	0.0000	13,553.69 37	13,553.693 7	1.1012	0.0000	13,581.22 45
2020	3.9822	25.8267	41.0466	0.1322	7.5327	0.2530	7.7857	2.0234	0.2461	2.2695	0.0000	13,288.38 15	13,288.381 5	1.0487	0.0000	13,314.60 00
2021	61.6569	25.1477	56.7102	0.1542	7.7242	0.2322	7.9565	2.0742	0.2273	2.3014	0.0000	15,419.19 48	15,419.194 8	1.7296	0.0000	15,462.43 48
Maximum	61.6569	29.5382	56.7102	0.1542	8.3853	0.3563	8.4545	4.5366	0.3460	4.6056	0.0000	15,419.19 48	15,419.194 8	2.0577	0.0000	15,462.43 48

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.64	46.76	-2.99	0.00	24.17	84.37	33.84	33.88	83.65	49.83	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2018	8/24/2018	5	40	
2	Grading	Grading	8/25/2018	11/30/2018	5	70	
3	Building Construction	Building Construction	12/1/2018	2/12/2021	5	575	
4	Paving	Paving	1/12/2021	4/5/2021	5	60	
5	Architectural Coating	Architectural Coating	4/6/2021	6/28/2021	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 175

Acres of Paving: 16.05

Residential Indoor: 1,155,465; Residential Outdoor: 385,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	501.00	185.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	100.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0154	52.2675	25.1278	0.0414		2.8864	2.8864		2.6555	2.6555		4,171.2219	4,171.2219	1.2986		4,203.6859
Total	5.0154	52.2675	25.1278	0.0414	18.0663	2.8864	20.9527	9.9307	2.6555	12.5862		4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859
Total	0.5068	2.1963	23.4140	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,171.2219	4,171.2219	1.2986		4,203.6859

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	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524
Total	0.1289	0.1016	0.9383	2.4000e-003	0.2555	1.6000e-003	0.2571	0.0678	1.4800e-003	0.0692		238.8786	238.8786	6.9500e-003		239.0524

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.5428	63.5906	37.7409	0.0654		2.9432	2.9432		2.7078	2.7078		6,584.0265	6,584.0265	2.0497		6,635.2689
Total	5.5428	63.5906	37.7409	0.0654	8.6733	2.9432	11.6166	3.5965	2.7078	6.3043		6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0654		0.1070	0.1070		0.1070	0.1070	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689
Total	0.8028	3.4789	35.5442	0.0654	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,584.0265	6,584.0265	2.0497		6,635.2689

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	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103
Total	0.1483	0.1169	1.0791	2.7600e-003	0.2938	1.8400e-003	0.2956	0.0779	1.7000e-003	0.0796		274.7104	274.7104	8.0000e-003		274.9103

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

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	0.9060	24.0794	5.8383	0.0498	1.1334	0.1647	1.2981	0.3264	0.1576	0.4839		5,202.6923	5,202.6923	0.3317		5,210.9852
Worker	3.2298	2.5461	23.5053	0.0601	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		5,983.9091	5,983.9091	0.1742		5,988.2629
Total	4.1359	26.6255	29.3436	0.1099	7.5327	0.2048	7.7376	2.0234	0.1946	2.2180		11,186.6014	11,186.6014	0.5059		11,199.2481

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7258	2.9127	17.8224	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.935 1	2,620.9351	0.6421		2,636.988 3
Total	0.7258	2.9127	17.8224	0.0269		0.1514	0.1514		0.1514	0.1514	0.0000	2,620.935 1	2,620.9351	0.6421		2,636.988 3

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	0.9060	24.0794	5.8383	0.0498	1.1334	0.1647	1.2981	0.3264	0.1576	0.4839		5,202.692 3	5,202.6923	0.3317		5,210.985 2
Worker	3.2298	2.5461	23.5053	0.0601	6.3993	0.0402	6.4395	1.6970	0.0370	1.7341		5,983.909 1	5,983.9091	0.1742		5,988.262 9
Total	4.1359	26.6255	29.3436	0.1099	7.5327	0.2048	7.7376	2.0234	0.1946	2.2180		11,186.60 14	11,186.601 4	0.5059		11,199.24 81

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.8003	22.7420	5.2266	0.0493	1.1334	0.1339	1.2673	0.3264	0.1281	0.4544		5,157.7712	5,157.7712	0.3158		5,165.6663
Worker	2.9273	2.2381	20.9227	0.0583	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		5,804.3423	5,804.3423	0.1541		5,808.1947
Total	3.7276	24.9800	26.1494	0.1076	7.5327	0.1736	7.7063	2.0234	0.1647	2.1881		10,962.1135	10,962.1135	0.4699		10,973.8610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6692	2.8550	17.7706	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.6692	2.8550	17.7706	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

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	0.8003	22.7420	5.2266	0.0493	1.1334	0.1339	1.2673	0.3264	0.1281	0.4544		5,157.7712	5,157.7712	0.3158		5,165.6663
Worker	2.9273	2.2381	20.9227	0.0583	6.3993	0.0398	6.4390	1.6970	0.0366	1.7337		5,804.3423	5,804.3423	0.1541		5,808.1947
Total	3.7276	24.9800	26.1494	0.1076	7.5327	0.1736	7.7063	2.0234	0.1647	2.1881		10,962.1135	10,962.1135	0.4699		10,973.8610

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6690	21.0441	4.6116	0.0489	1.1334	0.0894	1.2227	0.3264	0.0855	0.4118		5,116.8298	5,116.8298	0.2922		5,124.1345
Worker	2.6872	1.9806	18.7045	0.0564	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		5,618.4886	5,618.4886	0.1337		5,621.8310
Total	3.3561	23.0246	23.3162	0.1053	7.5327	0.1283	7.6609	2.0234	0.1213	2.1447		10,735.3184	10,735.3184	0.4259		10,745.9655

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.6690	21.0441	4.6116	0.0489	1.1334	0.0894	1.2227	0.3264	0.0855	0.4118		5,116.8298	5,116.8298	0.2922		5,124.1345
Worker	2.6872	1.9806	18.7045	0.0564	6.3993	0.0389	6.4382	1.6970	0.0359	1.7329		5,618.4886	5,618.4886	0.1337		5,621.8310
Total	3.3561	23.0246	23.3162	0.1053	7.5327	0.1283	7.6609	2.0234	0.1213	2.1447		10,735.3184	10,735.3184	0.4259		10,745.9655

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5651	19.3640	4.1196	0.0485	1.1333	0.0438	1.1772	0.3263	0.0419	0.3683		5,075.6924	5,075.6924	0.2767		5,082.6099
Worker	2.5077	1.7755	17.1008	0.0544	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		5,420.6332	5,420.6332	0.1195		5,423.6195
Total	3.0727	21.1395	21.2203	0.1029	7.5326	0.0817	7.6144	2.0234	0.0768	2.1002		10,496.3256	10,496.3256	0.3962		10,506.2294

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5651	19.3640	4.1196	0.0485	1.1333	0.0438	1.1772	0.3263	0.0419	0.3683		5,075.6924	5,075.6924	0.2767		5,082.6099
Worker	2.5077	1.7755	17.1008	0.0544	6.3993	0.0379	6.4372	1.6970	0.0349	1.7319		5,420.6332	5,420.6332	0.1195		5,423.6195
Total	3.0727	21.1395	21.2203	0.1029	7.5326	0.0817	7.6144	2.0234	0.0768	2.1002		10,496.3256	10,496.3256	0.3962		10,506.2294

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9564	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838
Total	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7009					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9813	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838
Total	0.0751	0.0532	0.5120	1.6300e-003	0.1916	1.1300e-003	0.1927	0.0508	1.0400e-003	0.0519		162.2944	162.2944	3.5800e-003		162.3838

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.1267					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	61.3456	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588
Total	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588

Lincoln SUD-B SP Mitigated Construction (Phases 1A and 1B) - Placer-Sacramento County, Winter

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	61.1267					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
Total	61.1564	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588
Total	0.5005	0.3544	3.4133	0.0109	1.2773	7.5600e-003	1.2849	0.3387	6.9700e-003	0.3457		1,081.9627	1,081.9627	0.0238		1,082.5588

Lincoln SUD-B SP Mitigated Construction (Phases 2B)
Placer-Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
Parking Lot	21.47	Acre	21.47	935,233.20	0
Free-Standing Discount Store	60.53	1000sqft	1.39	60,526.00	0
Regional Shopping Center	115.20	1000sqft	2.64	115,202.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year		2023	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2B includes construction of 348,400 sf of office space, parking, and commercial (assumed 34% of total big box and commercial)

Construction Phase - Assumed construction start 7/21 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Annual

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	262,064.00	174,200.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	786,192.00	522,600.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	262064	174200
tblAreaCoating	Area_Nonresidential_Interior	786192	522600
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	500.00	410.00
tblConstructionPhase	PhaseEndDate	8/2/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	6/15/2023	5/13/2023
tblConstructionPhase	PhaseStartDate	4/27/2023	3/26/2023

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Annual

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.25	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	NT24E	3.62	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	T24E	3.37	0.00
tblEnergyUse	T24NG	16.07	0.00
tblLandUse	BuildingSpaceSquareFeet	60,530.00	60,526.00
tblLandUse	BuildingSpaceSquareFeet	115,200.00	115,202.00
tblLandUse	LandUseSquareFeet	60,530.00	60,526.00
tblLandUse	LandUseSquareFeet	115,200.00	115,202.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	324.01	0.00
tblTripsAndVMT	VendorTripNumber	239.00	210.00
tblTripsAndVMT	WorkerTripNumber	561.00	504.00
tblTripsAndVMT	WorkerTripNumber	112.00	101.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	61,922,437.80	0.00
tblWater	OutdoorWaterUseRate	37,952,461.88	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/28/2021	5	20	
2	Grading	Grading	7/29/2021	9/29/2021	5	45	
3	Building Construction	Building Construction	9/30/2021	4/26/2023	5	410	
4	Paving	Paving	3/26/2023	5/12/2023	5	35	
5	Architectural Coating	Architectural Coating	5/13/2023	6/30/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 21.47

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 522,600; Non-Residential Outdoor: 174,200; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	504.00	210.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	101.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0427	0.4401	0.2376	4.1000e-004		0.0230	0.0230		0.0212	0.0212	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958
Total	0.0427	0.4401	0.2376	4.1000e-004	0.1807	0.0230	0.2037	0.0993	0.0212	0.1205	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139
Total	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0700e-003	0.0220	0.2341	4.1000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958
Total	5.0700e-003	0.0220	0.2341	4.1000e-004	0.0813	6.8000e-004	0.0820	0.0447	6.8000e-004	0.0454	0.0000	36.4015	36.4015	0.0118	0.0000	36.6958

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139
Total	9.0000e-004	6.4000e-004	6.8600e-003	2.0000e-005	2.4400e-003	2.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0128	2.0128	4.0000e-005	0.0000	2.0139

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1029	1.1230	0.7534	1.4700e-003		0.0504	0.0504		0.0464	0.0464	0.0000	129.2867	129.2867	0.0418	0.0000	130.3321
Total	0.1029	1.1230	0.7534	1.4700e-003	0.1952	0.0504	0.2456	0.0809	0.0464	0.1273	0.0000	129.2867	129.2867	0.0418	0.0000	130.3321

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	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109
Total	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0878	0.0000	0.0878	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.0783	0.7997	1.4700e-003		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	129.2866	129.2866	0.0418	0.0000	130.3319
Total	0.0181	0.0783	0.7997	1.4700e-003	0.0878	2.4100e-003	0.0902	0.0364	2.4100e-003	0.0388	0.0000	129.2866	129.2866	0.0418	0.0000	130.3319

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	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109
Total	2.3400e-003	1.6600e-003	0.0177	6.0000e-005	6.3200e-003	4.0000e-005	6.3600e-003	1.6800e-003	4.0000e-005	1.7200e-003	0.0000	5.2080	5.2080	1.1000e-004	0.0000	5.2109

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0637	0.5840	0.5553	9.0000e-004		0.0321	0.0321		0.0302	0.0302	0.0000	77.5985	77.5985	0.0187	0.0000	78.0665
Total	0.0637	0.5840	0.5553	9.0000e-004		0.0321	0.0321		0.0302	0.0302	0.0000	77.5985	77.5985	0.0187	0.0000	78.0665

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	0.0207	0.7412	0.1409	1.8800e-003	0.0415	1.6200e-003	0.0432	0.0120	1.5500e-003	0.0136	0.0000	178.9294	178.9294	8.9200e-003	0.0000	179.1525
Worker	0.0763	0.0542	0.5788	1.8800e-003	0.2062	1.2800e-003	0.2074	0.0549	1.1800e-003	0.0560	0.0000	169.9174	169.9174	3.7200e-003	0.0000	170.0104
Total	0.0970	0.7954	0.7197	3.7600e-003	0.2477	2.9000e-003	0.2506	0.0669	2.7300e-003	0.0696	0.0000	348.8467	348.8467	0.0126	0.0000	349.1629

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0197	0.0918	0.5924	9.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	77.5984	77.5984	0.0187	0.0000	78.0664
Total	0.0197	0.0918	0.5924	9.0000e-004		3.7500e-003	3.7500e-003		3.7500e-003	3.7500e-003	0.0000	77.5984	77.5984	0.0187	0.0000	78.0664

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	0.0207	0.7412	0.1409	1.8800e-003	0.0415	1.6200e-003	0.0432	0.0120	1.5500e-003	0.0136	0.0000	178.9294	178.9294	8.9200e-003	0.0000	179.1525
Worker	0.0763	0.0542	0.5788	1.8800e-003	0.2062	1.2800e-003	0.2074	0.0549	1.1800e-003	0.0560	0.0000	169.9174	169.9174	3.7200e-003	0.0000	170.0104
Total	0.0970	0.7954	0.7197	3.7600e-003	0.2477	2.9000e-003	0.2506	0.0669	2.7300e-003	0.0696	0.0000	348.8467	348.8467	0.0126	0.0000	349.1629

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471

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	0.0746	2.7342	0.5075	7.2500e-003	0.1612	5.3700e-003	0.1666	0.0467	5.1400e-003	0.0518	0.0000	688.6895	688.6895	0.0327	0.0000	689.5081
Worker	0.2780	0.1893	2.0714	7.0200e-003	0.8000	4.8400e-003	0.8049	0.2129	4.4600e-003	0.2173	0.0000	635.2116	635.2116	0.0130	0.0000	635.5360
Total	0.3526	2.9235	2.5788	0.0143	0.9612	0.0102	0.9714	0.2596	9.6000e-003	0.2692	0.0000	1,323.9012	1,323.9012	0.0457	0.0000	1,325.0441

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0729	0.3502	2.2957	3.5000e-003		0.0132	0.0132		0.0132	0.0132	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.0729	0.3502	2.2957	3.5000e-003		0.0132	0.0132		0.0132	0.0132	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

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	0.0746	2.7342	0.5075	7.2500e-003	0.1612	5.3700e-003	0.1666	0.0467	5.1400e-003	0.0518	0.0000	688.6895	688.6895	0.0327	0.0000	689.5081
Worker	0.2780	0.1893	2.0714	7.0200e-003	0.8000	4.8400e-003	0.8049	0.2129	4.4600e-003	0.2173	0.0000	635.2116	635.2116	0.0130	0.0000	635.5360
Total	0.3526	2.9235	2.5788	0.0143	0.9612	0.0102	0.9714	0.2596	9.6000e-003	0.2692	0.0000	1,323.9012	1,323.9012	0.0457	0.0000	1,325.0441

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0653	0.5970	0.6741	1.1200e-003		0.0290	0.0290		0.0273	0.0273	0.0000	96.1990	96.1990	0.0229	0.0000	96.7711
Total	0.0653	0.5970	0.6741	1.1200e-003		0.0290	0.0290		0.0273	0.0273	0.0000	96.1990	96.1990	0.0229	0.0000	96.7711

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	0.0182	0.7261	0.1405	2.2700e-003	0.0515	7.5000e-004	0.0522	0.0149	7.2000e-004	0.0156	0.0000	215.8960	215.8960	7.6700e-003	0.0000	216.0878
Worker	0.0834	0.0545	0.6095	2.1600e-003	0.2554	1.5100e-003	0.2569	0.0680	1.3900e-003	0.0694	0.0000	195.0497	195.0497	3.7200e-003	0.0000	195.1425
Total	0.1016	0.7806	0.7500	4.4300e-003	0.3069	2.2600e-003	0.3091	0.0829	2.1100e-003	0.0850	0.0000	410.9456	410.9456	0.0114	0.0000	411.2303

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0224	0.1100	0.7321	1.1200e-003		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	96.1989	96.1989	0.0229	0.0000	96.7710
Total	0.0224	0.1100	0.7321	1.1200e-003		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	96.1989	96.1989	0.0229	0.0000	96.7710

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	0.0182	0.7261	0.1405	2.2700e-003	0.0515	7.5000e-004	0.0522	0.0149	7.2000e-004	0.0156	0.0000	215.8960	215.8960	7.6700e-003	0.0000	216.0878
Worker	0.0834	0.0545	0.6095	2.1600e-003	0.2554	1.5100e-003	0.2569	0.0680	1.3900e-003	0.0694	0.0000	195.0497	195.0497	3.7200e-003	0.0000	195.1425
Total	0.1016	0.7806	0.7500	4.4300e-003	0.3069	2.2600e-003	0.3091	0.0829	2.1100e-003	0.0850	0.0000	410.9456	410.9456	0.0114	0.0000	411.2303

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0462	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491
Total	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9100e-003	0.0213	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0330	0.0213	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491
Total	1.0500e-003	6.8000e-004	7.6500e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.4479	2.4479	5.0000e-005	0.0000	2.4491

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
Total	0.8758	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749

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	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905
Total	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Annual

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	0.8724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-004	2.2500e-003	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
Total	0.8730	2.2500e-003	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749

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	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905
Total	7.0500e-003	4.6100e-003	0.0515	1.8000e-004	0.0216	1.3000e-004	0.0217	5.7400e-003	1.2000e-004	5.8600e-003	0.0000	16.4826	16.4826	3.1000e-004	0.0000	16.4905

Lincoln SUD-B SP Mitigated Construction (Phases 2B)
Placer-Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
Parking Lot	21.47	Acre	21.47	935,233.20	0
Free-Standing Discount Store	60.53	1000sqft	1.39	60,526.00	0
Regional Shopping Center	115.20	1000sqft	2.64	115,202.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year		2023	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2B includes construction of 348,400 sf of office space, parking, and commercial (assumed 34% of total big box and commercial)

Construction Phase - Assumed construction start 7/21 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Summer

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	262,064.00	174,200.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	786,192.00	522,600.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	262064	174200
tblAreaCoating	Area_Nonresidential_Interior	786192	522600
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	500.00	410.00
tblConstructionPhase	PhaseEndDate	8/2/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	6/15/2023	5/13/2023
tblConstructionPhase	PhaseStartDate	4/27/2023	3/26/2023

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Summer

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.25	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	NT24E	3.62	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	T24E	3.37	0.00
tblEnergyUse	T24NG	16.07	0.00
tblLandUse	BuildingSpaceSquareFeet	60,530.00	60,526.00
tblLandUse	BuildingSpaceSquareFeet	115,200.00	115,202.00
tblLandUse	LandUseSquareFeet	60,530.00	60,526.00
tblLandUse	LandUseSquareFeet	115,200.00	115,202.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	324.01	0.00
tblTripsAndVMT	VendorTripNumber	239.00	210.00
tblTripsAndVMT	WorkerTripNumber	561.00	504.00
tblTripsAndVMT	WorkerTripNumber	112.00	101.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	61,922,437.80	0.00
tblWater	OutdoorWaterUseRate	37,952,461.88	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/28/2021	5	20	
2	Grading	Grading	7/29/2021	9/29/2021	5	45	
3	Building Construction	Building Construction	9/30/2021	4/26/2023	5	410	
4	Paving	Paving	3/26/2023	5/12/2023	5	35	
5	Architectural Coating	Architectural Coating	5/13/2023	6/30/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 21.47

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 522,600; Non-Residential Outdoor: 174,200; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	504.00	210.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	101.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.2707	44.0092	23.7606	0.0414		2.2995	2.2995		2.1155	2.1155		4,012.5794	4,012.5794	1.2978		4,045.0231
Total	4.2707	44.0092	23.7606	0.0414	18.0663	2.2995	20.3657	9.9307	2.1155	12.0462		4,012.5794	4,012.5794	1.2978		4,045.0231

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	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960
Total	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Summer

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231
Total	0.5068	2.1963	23.4140	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231

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	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960
Total	0.0979	0.0565	0.7960	2.4400e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		243.2612	243.2612	5.3900e-003		243.3960

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.5736	49.9119	33.4848	0.0654		2.2404	2.2404		2.0611	2.0611		6,333.9659	6,333.9659	2.0485		6,385.1793
Total	4.5736	49.9119	33.4848	0.0654	8.6733	2.2404	10.9137	3.5965	2.0611	5.6576		6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054
Total	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0654		0.1070	0.1070		0.1070	0.1070	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793
Total	0.8028	3.4789	35.5442	0.0654	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054
Total	0.1126	0.0650	0.9154	2.8100e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		279.7503	279.7503	6.2000e-003		279.9054

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5996	21.8826	3.7901	0.0571	1.2865	0.0472	1.3337	0.3704	0.0451	0.4156		5,978.9488	5,978.9488	0.2768		5,985.8686
Worker	2.4664	1.4248	20.0590	0.0615	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		6,130.1814	6,130.1814	0.1359		6,133.5782
Total	3.0659	23.3075	23.8492	0.1186	7.7241	0.0853	7.8094	2.0776	0.0802	2.1579		12,109.1302	12,109.1302	0.4127		12,119.4468

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5996	21.8826	3.7901	0.0571	1.2865	0.0472	1.3337	0.3704	0.0451	0.4156		5,978.9488	5,978.9488	0.2768		5,985.8686
Worker	2.4664	1.4248	20.0590	0.0615	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		6,130.1814	6,130.1814	0.1359		6,133.5782
Total	3.0659	23.3075	23.8492	0.1186	7.7241	0.0853	7.8094	2.0776	0.0802	2.1579		12,109.1302	12,109.1302	0.4127		12,119.4468

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5576	20.8236	3.5172	0.0567	1.2864	0.0403	1.3268	0.3704	0.0386	0.4090		5,931.0718	5,931.0718	0.2616		5,937.6121
Worker	2.3123	1.2836	18.5662	0.0592	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,905.1606	5,905.1606	0.1223		5,908.2174
Total	2.8699	22.1071	22.0834	0.1159	7.7241	0.0776	7.8016	2.0776	0.0729	2.1505		11,836.2324	11,836.2324	0.3839		11,845.8295

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5608	2.6936	17.6592	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.5608	2.6936	17.6592	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5576	20.8236	3.5172	0.0567	1.2864	0.0403	1.3268	0.3704	0.0386	0.4090		5,931.0718	5,931.0718	0.2616		5,937.6121
Worker	2.3123	1.2836	18.5662	0.0592	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,905.1606	5,905.1606	0.1223		5,908.2174
Total	2.8699	22.1071	22.0834	0.1159	7.7241	0.0776	7.8016	2.0776	0.0729	2.1505		11,836.2324	11,836.2324	0.3839		11,845.8295

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4256	17.3585	3.0756	0.0557	1.2864	0.0177	1.3041	0.3704	0.0169	0.3873		5,824.4313	5,824.4313	0.1918		5,829.2270
Worker	2.1713	1.1585	17.1807	0.0570	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,679.7576	5,679.7576	0.1099		5,682.5042
Total	2.5969	18.5169	20.2563	0.1126	7.7240	0.0542	7.7782	2.0776	0.0505	2.1281		11,504.1889	11,504.1889	0.3017		11,511.7312

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4256	17.3585	3.0756	0.0557	1.2864	0.0177	1.3041	0.3704	0.0169	0.3873		5,824.4313	5,824.4313	0.1918		5,829.2270
Worker	2.1713	1.1585	17.1807	0.0570	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,679.7576	5,679.7576	0.1099		5,682.5042
Total	2.5969	18.5169	20.2563	0.1126	7.7240	0.0542	7.7782	2.0776	0.0505	2.1281		11,504.1889	11,504.1889	0.3017		11,511.7312

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6399	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222
Total	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.5841	0.7140		2,225.433 6
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8877	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.5841	0.7140		2,225.433 6

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	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222
Total	0.0646	0.0345	0.5113	1.7000e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		169.0404	169.0404	3.2700e-003		169.1222

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.8537					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	50.0453	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558
Total	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558

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	49.8537					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	49.8834	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558
Total	0.4351	0.2322	3.4430	0.0114	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,138.2054	1,138.2054	0.0220		1,138.7558

Lincoln SUD-B SP Mitigated Construction (Phases 2B)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	348.40	1000sqft	8.00	348,400.00	0
Parking Lot	21.47	Acre	21.47	935,233.20	0
Free-Standing Discount Store	60.53	1000sqft	1.39	60,526.00	0
Regional Shopping Center	115.20	1000sqft	2.64	115,202.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year		2023	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2B includes construction of 348,400 sf of office space, parking, and commercial (assumed 34% of total big box and commercial)

Construction Phase - Assumed construction start 7/21 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	262,064.00	174,200.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	786,192.00	522,600.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_Nonresidential_Exterior	262064	174200
tblAreaCoating	Area_Nonresidential_Interior	786192	522600
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	500.00	410.00
tblConstructionPhase	PhaseEndDate	8/2/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	6/15/2023	5/13/2023
tblConstructionPhase	PhaseStartDate	4/27/2023	3/26/2023

Lincoln SUD-B SP Mitigated Construction (Phases 2B) - Placer-Sacramento County, Winter

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	3.25	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	NT24E	3.62	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	T24E	3.37	0.00
tblEnergyUse	T24NG	16.07	0.00
tblLandUse	BuildingSpaceSquareFeet	60,530.00	60,526.00
tblLandUse	BuildingSpaceSquareFeet	115,200.00	115,202.00
tblLandUse	LandUseSquareFeet	60,530.00	60,526.00
tblLandUse	LandUseSquareFeet	115,200.00	115,202.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	324.01	0.00
tblTripsAndVMT	VendorTripNumber	239.00	210.00
tblTripsAndVMT	WorkerTripNumber	561.00	504.00
tblTripsAndVMT	WorkerTripNumber	112.00	101.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	61,922,437.80	0.00
tblWater	OutdoorWaterUseRate	37,952,461.88	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	7/28/2021	5	20	
2	Grading	Grading	7/29/2021	9/29/2021	5	45	
3	Building Construction	Building Construction	9/30/2021	4/26/2023	5	410	
4	Paving	Paving	3/26/2023	5/12/2023	5	35	
5	Architectural Coating	Architectural Coating	5/13/2023	6/30/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 21.47

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 522,600; Non-Residential Outdoor: 174,200; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	504.00	210.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	101.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.2707	44.0092	23.7606	0.0414		2.2995	2.2995		2.1155	2.1155		4,012.5794	4,012.5794	1.2978			4,045.0231
Total	4.2707	44.0092	23.7606	0.0414	18.0663	2.2995	20.3657	9.9307	2.1155	12.0462		4,012.5794	4,012.5794	1.2978			4,045.0231

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	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003			216.5118
Total	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003			216.5118

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231
Total	0.5068	2.1963	23.4140	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,012.5794	4,012.5794	1.2978		4,045.0231

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	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003		216.5118
Total	0.1001	0.0709	0.6827	2.1700e-003	0.2555	1.5100e-003	0.2570	0.0678	1.3900e-003	0.0691		216.3925	216.3925	4.7700e-003		216.5118

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.5736	49.9119	33.4848	0.0654		2.2404	2.2404		2.0611	2.0611		6,333.9659	6,333.9659	2.0485		6,385.1793
Total	4.5736	49.9119	33.4848	0.0654	8.6733	2.2404	10.9137	3.5965	2.0611	5.6576		6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885
Total	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0654		0.1070	0.1070		0.1070	0.1070	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793
Total	0.8028	3.4789	35.5442	0.0654	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,333.9659	6,333.9659	2.0485		6,385.1793

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	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885
Total	0.1151	0.0815	0.7851	2.5000e-003	0.2938	1.7400e-003	0.2955	0.0779	1.6000e-003	0.0795		248.8514	248.8514	5.4800e-003		248.9885

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6415	21.9808	4.6763	0.0551	1.2865	0.0498	1.3363	0.3704	0.0476	0.4180		5,761.5968	5,761.5968	0.3141		5,769.4491
Worker	2.5227	1.7862	17.2032	0.0547	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		5,453.0921	5,453.0921	0.1202		5,456.0963
Total	3.1641	23.7669	21.8794	0.1098	7.7241	0.0879	7.8120	2.0776	0.0827	2.1603		11,214.6889	11,214.6889	0.4343		11,225.5454

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6415	21.9808	4.6763	0.0551	1.2865	0.0498	1.3363	0.3704	0.0476	0.4180		5,761.5968	5,761.5968	0.3141		5,769.4491
Worker	2.5227	1.7862	17.2032	0.0547	6.4376	0.0381	6.4757	1.7072	0.0351	1.7423		5,453.0921	5,453.0921	0.1202		5,456.0963
Total	3.1641	23.7669	21.8794	0.1098	7.7241	0.0879	7.8120	2.0776	0.0827	2.1603		11,214.6889	11,214.6889	0.4343		11,225.5454

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5967	20.8860	4.3427	0.0546	1.2864	0.0427	1.3292	0.3704	0.0409	0.4113		5,713.3768	5,713.3768	0.2973		5,720.8089
Worker	2.3710	1.6082	15.8339	0.0527	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,253.2879	5,253.2879	0.1078		5,255.9820
Total	2.9678	22.4942	20.1765	0.1073	7.7241	0.0800	7.8040	2.0776	0.0752	2.1528		10,966.6647	10,966.6647	0.4050		10,976.7909

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5608	2.6936	17.6592	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.5608	2.6936	17.6592	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5967	20.8860	4.3427	0.0546	1.2864	0.0427	1.3292	0.3704	0.0409	0.4113		5,713.3768	5,713.3768	0.2973		5,720.8089
Worker	2.3710	1.6082	15.8339	0.0527	6.4376	0.0372	6.4749	1.7072	0.0343	1.7415		5,253.2879	5,253.2879	0.1078		5,255.9820
Total	2.9678	22.4942	20.1765	0.1073	7.7241	0.0800	7.8040	2.0776	0.0752	2.1528		10,966.6647	10,966.6647	0.4050		10,976.7909

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4555	17.3797	3.7274	0.0536	1.2864	0.0185	1.3049	0.3704	0.0177	0.3881		5,610.5231	5,610.5231	0.2181		5,615.9762
Worker	2.2329	1.4504	14.5604	0.0507	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,053.1191	5,053.1191	0.0964		5,055.5293
Total	2.6884	18.8300	18.2877	0.1043	7.7240	0.0549	7.7789	2.0776	0.0512	2.1288		10,663.6422	10,663.6422	0.3145		10,671.5055

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.4555	17.3797	3.7274	0.0536	1.2864	0.0185	1.3049	0.3704	0.0177	0.3881		5,610.5231	5,610.5231	0.2181		5,615.9762
Worker	2.2329	1.4504	14.5604	0.0507	6.4376	0.0365	6.4741	1.7072	0.0336	1.7408		5,053.1191	5,053.1191	0.0964		5,055.5293
Total	2.6884	18.8300	18.2877	0.1043	7.7240	0.0549	7.7789	2.0776	0.0512	2.1288		10,663.6422	10,663.6422	0.3145		10,671.5055

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6399	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622
Total	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.6072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8877	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622
Total	0.0665	0.0432	0.4333	1.5100e-003	0.1916	1.0900e-003	0.1927	0.0508	1.0000e-003	0.0518		150.3905	150.3905	2.8700e-003		150.4622

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.8537					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	50.0453	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120
Total	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120

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	49.8537					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	49.8834	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120
Total	0.4475	0.2907	2.9179	0.0102	1.2901	7.3100e-003	1.2974	0.3421	6.7300e-003	0.3488		1,012.6290	1,012.6290	0.0193		1,013.1120

Lincoln SUD-B SP Mitigated Construction (Phase 2A)
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	5.15	Acre	5.15	224,334.00	0
Single Family Housing	102.00	Dwelling Unit	15.45	183,600.00	292

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year		2025	
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 - Modeling Construction Only

Land Use - Construction of Phase 2A includes 102 residential units (assumed 25% of residential units developed in 2A and 25% of area paved).

Construction Phase - Assumed construction start 1/23 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	370.00	290.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	7/26/2024	6/25/2024
tblConstructionPhase	PhaseEndDate	6/14/2024	5/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2024	5/15/2024
tblConstructionPhase	PhaseStartDate	5/4/2024	4/3/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Annual

tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00
tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblGrading	AcresOfGrading	100.00	87.50
tblLandUse	LotAcreage	33.12	15.45
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	105.12	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	6,645,710.61	0.00
tblWater	OutdoorWaterUseRate	4,189,687.13	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/27/2023	5	20	
2	Grading	Grading	1/28/2023	3/24/2023	5	40	
3	Building Construction	Building Construction	3/25/2023	5/3/2024	5	290	
4	Paving	Paving	4/3/2024	5/14/2024	5	30	
5	Architectural Coating	Architectural Coating	5/15/2024	6/25/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 5.15

Residential Indoor: 371,790; Residential Outdoor: 123,930; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	131.00	48.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	26.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0301	0.3076	0.2084	4.1000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	36.4190	36.4190	0.0118	0.0000	36.7135
Total	0.0301	0.3076	0.2084	4.1000e-004	0.1807	0.0149	0.1956	0.0993	0.0137	0.1130	0.0000	36.4190	36.4190	0.0118	0.0000	36.7135

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	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660
Total	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0700e-003	0.0220	0.2341	4.1000e-004		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	36.4190	36.4190	0.0118	0.0000	36.7134
Total	5.0700e-003	0.0220	0.2341	4.1000e-004	0.0813	6.8000e-004	0.0820	0.0447	6.8000e-004	0.0454	0.0000	36.4190	36.4190	0.0118	0.0000	36.7134

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	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660
Total	8.0000e-004	5.2000e-004	5.8300e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.8651	1.8651	4.0000e-005	0.0000	1.8660

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1668	0.0000	0.1668	0.0712	0.0000	0.0712	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0734	0.7550	0.6129	1.3100e-003		0.0330	0.0330		0.0303	0.0303	0.0000	115.0070	115.0070	0.0372	0.0000	115.9369
Total	0.0734	0.7550	0.6129	1.3100e-003	0.1668	0.0330	0.1998	0.0712	0.0303	0.1016	0.0000	115.0070	115.0070	0.0372	0.0000	115.9369

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917
Total	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0751	0.0000	0.0751	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0161	0.0696	0.7109	1.3100e-003		2.1400e-003	2.1400e-003		2.1400e-003	2.1400e-003	0.0000	115.0069	115.0069	0.0372	0.0000	115.9368
Total	0.0161	0.0696	0.7109	1.3100e-003	0.0751	2.1400e-003	0.0772	0.0321	2.1400e-003	0.0342	0.0000	115.0069	115.0069	0.0372	0.0000	115.9368

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917
Total	1.8400e-003	1.2000e-003	0.0134	5.0000e-005	5.6200e-003	3.0000e-005	5.6500e-003	1.4900e-003	3.0000e-005	1.5300e-003	0.0000	4.2897	4.2897	8.0000e-005	0.0000	4.2917

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1573	1.4385	1.6244	2.6900e-003		0.0700	0.0700		0.0658	0.0658	0.0000	231.8048	231.8048	0.0551	0.0000	233.1833
Total	0.1573	1.4385	1.6244	2.6900e-003		0.0700	0.0700		0.0658	0.0658	0.0000	231.8048	231.8048	0.0551	0.0000	233.1833

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	0.0100	0.3999	0.0774	1.2500e-003	0.0283	4.1000e-004	0.0288	8.2100e-003	3.9000e-004	8.6000e-003	0.0000	118.9100	118.9100	4.2300e-003	0.0000	119.0156
Worker	0.0523	0.0341	0.3817	1.3500e-003	0.1600	9.5000e-004	0.1609	0.0426	8.7000e-004	0.0434	0.0000	122.1625	122.1625	2.3300e-003	0.0000	122.2207
Total	0.0623	0.4341	0.4591	2.6000e-003	0.1883	1.3600e-003	0.1897	0.0508	1.2600e-003	0.0520	0.0000	241.0725	241.0725	6.5600e-003	0.0000	241.2363

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0539	0.2651	1.7641	2.6900e-003		9.3000e-003	9.3000e-003		9.3000e-003	9.3000e-003	0.0000	231.8045	231.8045	0.0551	0.0000	233.1830
Total	0.0539	0.2651	1.7641	2.6900e-003		9.3000e-003	9.3000e-003		9.3000e-003	9.3000e-003	0.0000	231.8045	231.8045	0.0551	0.0000	233.1830

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	0.0100	0.3999	0.0774	1.2500e-003	0.0283	4.1000e-004	0.0288	8.2100e-003	3.9000e-004	8.6000e-003	0.0000	118.9100	118.9100	4.2300e-003	0.0000	119.0156
Worker	0.0523	0.0341	0.3817	1.3500e-003	0.1600	9.5000e-004	0.1609	0.0426	8.7000e-004	0.0434	0.0000	122.1625	122.1625	2.3300e-003	0.0000	122.2207
Total	0.0623	0.4341	0.4591	2.6000e-003	0.1883	1.3600e-003	0.1897	0.0508	1.2600e-003	0.0520	0.0000	241.0725	241.0725	6.5600e-003	0.0000	241.2363

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0662	0.6050	0.7275	1.2100e-003		0.0276	0.0276		0.0260	0.0260	0.0000	104.3321	104.3321	0.0247	0.0000	104.9489
Total	0.0662	0.6050	0.7275	1.2100e-003		0.0276	0.0276		0.0260	0.0260	0.0000	104.3321	104.3321	0.0247	0.0000	104.9489

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	4.3500e-003	0.1776	0.0332	5.6000e-004	0.0128	1.8000e-004	0.0129	3.6900e-003	1.7000e-004	3.8600e-003	0.0000	53.1488	53.1488	1.8500e-003	0.0000	53.1950
Worker	0.0222	0.0139	0.1593	5.8000e-004	0.0720	4.2000e-004	0.0724	0.0192	3.8000e-004	0.0195	0.0000	52.8130	52.8130	9.4000e-004	0.0000	52.8366
Total	0.0265	0.1915	0.1925	1.1400e-003	0.0847	6.0000e-004	0.0853	0.0228	5.5000e-004	0.0234	0.0000	105.9618	105.9618	2.7900e-003	0.0000	106.0316

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0234	0.1175	0.7932	1.2100e-003		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	104.3320	104.3320	0.0247	0.0000	104.9488
Total	0.0234	0.1175	0.7932	1.2100e-003		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003	0.0000	104.3320	104.3320	0.0247	0.0000	104.9488

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	4.3500e-003	0.1776	0.0332	5.6000e-004	0.0128	1.8000e-004	0.0129	3.6900e-003	1.7000e-004	3.8600e-003	0.0000	53.1488	53.1488	1.8500e-003	0.0000	53.1950
Worker	0.0222	0.0139	0.1593	5.8000e-004	0.0720	4.2000e-004	0.0724	0.0192	3.8000e-004	0.0195	0.0000	52.8130	52.8130	9.4000e-004	0.0000	52.8366
Total	0.0265	0.1915	0.1925	1.1400e-003	0.0847	6.0000e-004	0.0853	0.0228	5.5000e-004	0.0234	0.0000	105.9618	105.9618	2.7900e-003	0.0000	106.0316

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0148	0.1429	0.2194	3.4000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827
Paving	6.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0216	0.1429	0.2194	3.4000e-004		7.0300e-003	7.0300e-003		6.4700e-003	6.4700e-003	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827

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	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167
Total	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167

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	4.2100e-003	0.0182	0.2594	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827
Paving	6.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.0182	0.2594	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	30.0398	30.0398	9.7200e-003	0.0000	30.2827

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	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167
Total	8.5000e-004	5.3000e-004	6.0800e-003	2.0000e-005	2.7500e-003	2.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.5000e-004	0.0000	2.0158	2.0158	4.0000e-005	0.0000	2.0167

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5900					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	0.5927	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956
Total	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956

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	0.5900					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	1.9300e-003	0.0275	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	0.5905	1.9300e-003	0.0275	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956
Total	1.4700e-003	9.2000e-004	0.0105	4.0000e-005	4.7600e-003	3.0000e-005	4.7900e-003	1.2700e-003	3.0000e-005	1.2900e-003	0.0000	3.4940	3.4940	6.0000e-005	0.0000	3.4956

Lincoln SUD-B SP Mitigated Construction (Phase 2A)
Placer-Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	5.15	Acre	5.15	224,334.00	0
Single Family Housing	102.00	Dwelling Unit	15.45	183,600.00	292

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2A includes 102 residential units (assumed 25% of residential units developed in 2A and 25% of area paved).

Construction Phase - Assumed construction start 1/23 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	370.00	290.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	7/26/2024	6/25/2024
tblConstructionPhase	PhaseEndDate	6/14/2024	5/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2024	5/15/2024
tblConstructionPhase	PhaseStartDate	5/4/2024	4/3/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Summer

tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00
tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblGrading	AcresOfGrading	100.00	87.50
tblLandUse	LotAcreage	33.12	15.45
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	105.12	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	6,645,710.61	0.00
tblWater	OutdoorWaterUseRate	4,189,687.13	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/27/2023	5	20	
2	Grading	Grading	1/28/2023	3/24/2023	5	40	
3	Building Construction	Building Construction	3/25/2023	5/3/2024	5	290	
4	Paving	Paving	4/3/2024	5/14/2024	5	30	
5	Architectural Coating	Architectural Coating	5/15/2024	6/25/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 5.15

Residential Indoor: 371,790; Residential Outdoor: 123,930; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	131.00	48.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	26.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0061	30.7573	20.8364	0.0414		1.4903	1.4903		1.3711	1.3711		4,014.5080	4,014.5080	1.2984		4,046.9673
Total	3.0061	30.7573	20.8364	0.0414	18.0663	1.4903	19.5566	9.9307	1.3711	11.3018		4,014.5080	4,014.5080	1.2984		4,046.9673

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	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962
Total	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,014.5080	4,014.5080	1.2984		4,046.9673
Total	0.5068	2.1963	23.4140	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,014.5080	4,014.5080	1.2984		4,046.9673

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	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962
Total	0.0862	0.0460	0.6818	2.2600e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		225.3872	225.3872	4.3600e-003		225.4962

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.3419	0.0000	8.3419	3.5607	0.0000	3.5607			0.0000			0.0000
Off-Road	3.6684	37.7488	30.6432	0.0655		1.6488	1.6488		1.5169	1.5169		6,338.6776	6,338.6776	2.0501		6,389.9290
Total	3.6684	37.7488	30.6432	0.0655	8.3419	1.6488	9.9907	3.5607	1.5169	5.0776		6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206
Total	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7539	0.0000	3.7539	1.6023	0.0000	1.6023			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0655		0.1070	0.1070		0.1070	0.1070	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290
Total	0.8028	3.4789	35.5442	0.0655	3.7539	0.1070	3.8609	1.6023	0.1070	1.7094	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206
Total	0.0991	0.0529	0.7840	2.6000e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		259.1953	259.1953	5.0100e-003		259.3206

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0973	3.9677	0.7030	0.0127	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,331.2986	1,331.2986	0.0439		1,332.3947
Worker	0.5644	0.3011	4.4656	0.0148	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,476.2862	1,476.2862	0.0286		1,477.0001
Total	0.6616	4.2688	5.1686	0.0275	1.9673	0.0135	1.9808	0.5284	0.0126	0.5410		2,807.5848	2,807.5848	0.0724		2,809.3948

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0973	3.9677	0.7030	0.0127	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,331.2986	1,331.2986	0.0439		1,332.3947
Worker	0.5644	0.3011	4.4656	0.0148	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,476.2862	1,476.2862	0.0286		1,477.0001
Total	0.6616	4.2688	5.1686	0.0275	1.9673	0.0135	1.9808	0.5284	0.0126	0.5410		2,807.5848	2,807.5848	0.0724		2,809.3948

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0940	3.9175	0.6698	0.0126	0.2940	3.8900e-003	0.2979	0.0847	3.7200e-003	0.0884		1,322.2241	1,322.2241	0.0426		1,323.2893
Worker	0.5318	0.2726	4.1554	0.0142	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,418.1994	1,418.1994	0.0258		1,418.8430
Total	0.6258	4.1901	4.8252	0.0269	1.9673	0.0132	1.9805	0.5284	0.0123	0.5407		2,740.4235	2,740.4235	0.0684		2,742.1323

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0940	3.9175	0.6698	0.0126	0.2940	3.8900e-003	0.2979	0.0847	3.7200e-003	0.0884		1,322.2241	1,322.2241	0.0426		1,323.2893
Worker	0.5318	0.2726	4.1554	0.0142	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,418.1994	1,418.1994	0.0258		1,418.8430
Total	0.6258	4.1901	4.8252	0.0269	1.9673	0.0132	1.9805	0.5284	0.0123	0.5407		2,740.4235	2,740.4235	0.0684		2,742.1323

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4379	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7302	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.3342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	39.5149	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024
Total	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024

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	39.3342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	39.3639	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024
Total	0.1055	0.0541	0.8247	2.8200e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		281.4747	281.4747	5.1100e-003		281.6024

Lincoln SUD-B SP Mitigated Construction (Phase 2A)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	5.15	Acre	5.15	224,334.00	0
Single Family Housing	102.00	Dwelling Unit	15.45	183,600.00	292

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2025
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 - Modeling Construction Only

Land Use - Construction of Phase 2A includes 102 residential units (assumed 25% of residential units developed in 2A and 25% of area paved).

Construction Phase - Assumed construction start 1/23 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	100	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	370.00	290.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	7/26/2024	6/25/2024
tblConstructionPhase	PhaseEndDate	6/14/2024	5/14/2024
tblConstructionPhase	PhaseStartDate	6/15/2024	5/15/2024
tblConstructionPhase	PhaseStartDate	5/4/2024	4/3/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

Lincoln SUD-B SP Mitigated Construction (Phase 2A) - Placer-Sacramento County, Winter

tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,680.41	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	768.93	0.00
tblEnergyUse	T24NG	29,300.87	0.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblGrading	AcresOfGrading	100.00	87.50
tblLandUse	LotAcreage	33.12	15.45
tblProjectCharacteristics	OperationalYear	2018	2025
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	105.12	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	6,645,710.61	0.00
tblWater	OutdoorWaterUseRate	4,189,687.13	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/27/2023	5	20	
2	Grading	Grading	1/28/2023	3/24/2023	5	40	
3	Building Construction	Building Construction	3/25/2023	5/3/2024	5	290	
4	Paving	Paving	4/3/2024	5/14/2024	5	30	
5	Architectural Coating	Architectural Coating	5/15/2024	6/25/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 5.15

Residential Indoor: 371,790; Residential Outdoor: 123,930; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	131.00	48.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	26.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0061	30.7573	20.8364	0.0414		1.4903	1.4903		1.3711	1.3711		4,014.5080	4,014.5080	1.2984		4,046.9673
Total	3.0061	30.7573	20.8364	0.0414	18.0663	1.4903	19.5566	9.9307	1.3711	11.3018		4,014.5080	4,014.5080	1.2984		4,046.9673

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	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003		200.6162
Total	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003		200.6162

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0414		0.0676	0.0676		0.0676	0.0676	0.0000	4,014.5080	4,014.5080	1.2984		4,046.9673
Total	0.5068	2.1963	23.4140	0.0414	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,014.5080	4,014.5080	1.2984		4,046.9673

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	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003		200.6162
Total	0.0886	0.0576	0.5778	2.0100e-003	0.2555	1.4500e-003	0.2569	0.0678	1.3300e-003	0.0691		200.5206	200.5206	3.8300e-003		200.6162

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.3419	0.0000	8.3419	3.5607	0.0000	3.5607			0.0000			0.0000
Off-Road	3.6684	37.7488	30.6432	0.0655		1.6488	1.6488		1.5169	1.5169		6,338.6776	6,338.6776	2.0501		6,389.9290
Total	3.6684	37.7488	30.6432	0.0655	8.3419	1.6488	9.9907	3.5607	1.5169	5.0776		6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087
Total	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7539	0.0000	3.7539	1.6023	0.0000	1.6023			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0655		0.1070	0.1070		0.1070	0.1070	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290
Total	0.8028	3.4789	35.5442	0.0655	3.7539	0.1070	3.8609	1.6023	0.1070	1.7094	0.0000	6,338.6776	6,338.6776	2.0501		6,389.9290

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	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087
Total	0.1019	0.0662	0.6645	2.3100e-003	0.2938	1.6600e-003	0.2954	0.0779	1.5300e-003	0.0794		230.5987	230.5987	4.4000e-003		230.7087

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.1041	3.9725	0.8520	0.0123	0.2940	4.2200e-003	0.2983	0.0847	4.0400e-003	0.0887		1,282.4053	1,282.4053	0.0499		1,283.6517
Worker	0.5804	0.3770	3.7845	0.0132	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,313.4099	1,313.4099	0.0251		1,314.0364
Total	0.6845	4.3495	4.6365	0.0254	1.9673	0.0137	1.9810	0.5284	0.0128	0.5412		2,595.8152	2,595.8152	0.0749		2,597.6881

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.5385	2.6513	17.6413	0.0269		0.0930	0.0930		0.0930	0.0930	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.1041	3.9725	0.8520	0.0123	0.2940	4.2200e-003	0.2983	0.0847	4.0400e-003	0.0887		1,282.4053	1,282.4053	0.0499		1,283.6517
Worker	0.5804	0.3770	3.7845	0.0132	1.6733	9.4800e-003	1.6828	0.4437	8.7300e-003	0.4525		1,313.4099	1,313.4099	0.0251		1,314.0364
Total	0.6845	4.3495	4.6365	0.0254	1.9673	0.0137	1.9810	0.5284	0.0128	0.5412		2,595.8152	2,595.8152	0.0749		2,597.6881

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1005	3.9210	0.8114	0.0122	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,273.8992	1,273.8992	0.0485		1,275.1103
Worker	0.5487	0.3411	3.5047	0.0127	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,261.8207	1,261.8207	0.0225		1,262.3832
Total	0.6492	4.2621	4.3161	0.0248	1.9673	0.0133	1.9806	0.5284	0.0124	0.5408		2,535.7198	2,535.7198	0.0710		2,537.4935

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1005	3.9210	0.8114	0.0122	0.2940	4.0500e-003	0.2981	0.0847	3.8700e-003	0.0885		1,273.8992	1,273.8992	0.0485		1,275.1103
Worker	0.5487	0.3411	3.5047	0.0127	1.6733	9.2800e-003	1.6825	0.4437	8.5400e-003	0.4523		1,261.8207	1,261.8207	0.0225		1,262.3832
Total	0.6492	4.2621	4.3161	0.0248	1.9673	0.0133	1.9806	0.5284	0.0124	0.5408		2,535.7198	2,535.7198	0.0710		2,537.4935

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4379	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7302	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.3342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	39.5149	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493
Total	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493

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	39.3342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	39.3639	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493
Total	0.1089	0.0677	0.6956	2.5100e-003	0.3321	1.8400e-003	0.3339	0.0881	1.6900e-003	0.0898		250.4377	250.4377	4.4700e-003		250.5493

**Lincoln SUD-B SP Mitigatopm Construction (Phase 2C)
Placer-Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	9.40	Acre	9.40	409,464.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2	Operational Year		2026	
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 - Modeling Construction Only
- Land Use - Construction of Phase 2C includes construction of a 100,000 sf self-storage facility.
- Construction Phase - Assumed construction start 1/24 and overlapped with Paving
- Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
- Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
- Trips and VMT -
- Grading - Assumes soils balanced on-site
- Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

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Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	PhaseEndDate	1/24/2025	12/23/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	11/25/2024
tblConstructionPhase	PhaseStartDate	12/28/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	11/30/2024	10/29/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.68	0.00
tblEnergyUse	NT24E	4.20	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.73	0.00

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tblEnergyUse	T24NG	18.67	0.00
tblProjectCharacteristics	OperationalYear	2018	2026
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	124.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/12/2024	5	10	
2	Grading	Grading	1/13/2024	2/23/2024	5	30	
3	Building Construction	Building Construction	2/24/2024	11/29/2024	5	200	
4	Paving	Paving	10/29/2024	11/25/2024	5	20	
5	Architectural Coating	Architectural Coating	11/26/2024	12/23/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,000; Non-Residential Outdoor: 50,000; Striped Parking Area:

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	214.00	84.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.1517	0.1046	2.1000e-004		7.2400e-003	7.2400e-003		6.6600e-003	6.6600e-003	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3598
Total	0.0150	0.1517	0.1046	2.1000e-004	0.0903	7.2400e-003	0.0976	0.0497	6.6600e-003	0.0563	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3598

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	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963
Total	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5300e-003	0.0110	0.1171	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3597
Total	2.5300e-003	0.0110	0.1171	2.1000e-004	0.0407	3.4000e-004	0.0410	0.0223	3.4000e-004	0.0227	0.0000	18.2125	18.2125	5.8900e-003	0.0000	18.3597

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	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963
Total	3.8000e-004	2.4000e-004	2.7000e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2300e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8959	0.8959	2.0000e-005	0.0000	0.8963

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0534	0.5331	0.4547	9.8000e-004		0.0233	0.0233		0.0214	0.0214	0.0000	86.2312	86.2312	0.0279	0.0000	86.9284
Total	0.0534	0.5331	0.4547	9.8000e-004	0.1301	0.0233	0.1534	0.0540	0.0214	0.0754	0.0000	86.2312	86.2312	0.0279	0.0000	86.9284

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922
Total	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0586	0.0000	0.0586	0.0243	0.0000	0.0243	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0522	0.5332	9.8000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	86.2311	86.2311	0.0279	0.0000	86.9283
Total	0.0120	0.0522	0.5332	9.8000e-004	0.0586	1.6100e-003	0.0602	0.0243	1.6100e-003	0.0259	0.0000	86.2311	86.2311	0.0279	0.0000	86.9283

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922
Total	1.3000e-003	8.1000e-004	9.3300e-003	3.0000e-005	4.2100e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0908	3.0908	6.0000e-005	0.0000	3.0922

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8491	231.8491	0.0548	0.0000	233.2198
Total	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8491	231.8491	0.0548	0.0000	233.2198

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	0.0169	0.6908	0.1289	2.1800e-003	0.0496	6.9000e-004	0.0503	0.0144	6.6000e-004	0.0150	0.0000	206.6898	206.6898	7.1800e-003	0.0000	206.8694
Worker	0.0806	0.0505	0.5784	2.1200e-003	0.2613	1.5200e-003	0.2628	0.0695	1.3900e-003	0.0709	0.0000	191.7217	191.7217	3.4200e-003	0.0000	191.8072
Total	0.0975	0.7413	0.7074	4.3000e-003	0.3109	2.2100e-003	0.3131	0.0839	2.0500e-003	0.0860	0.0000	398.4114	398.4114	0.0106	0.0000	398.6765

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0520	0.2612	1.7627	2.7000e-003		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	231.8488	231.8488	0.0548	0.0000	233.2195
Total	0.0520	0.2612	1.7627	2.7000e-003		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	231.8488	231.8488	0.0548	0.0000	233.2195

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	0.0169	0.6908	0.1289	2.1800e-003	0.0496	6.9000e-004	0.0503	0.0144	6.6000e-004	0.0150	0.0000	206.6898	206.6898	7.1800e-003	0.0000	206.8694
Worker	0.0806	0.0505	0.5784	2.1200e-003	0.2613	1.5200e-003	0.2628	0.0695	1.3900e-003	0.0709	0.0000	191.7217	191.7217	3.4200e-003	0.0000	191.8072
Total	0.0975	0.7413	0.7074	4.3000e-003	0.3109	2.2100e-003	0.3131	0.0839	2.0500e-003	0.0860	0.0000	398.4114	398.4114	0.0106	0.0000	398.6765

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0222	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.5000e-004	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444
Total	5.6000e-004	3.5000e-004	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0151	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.5000e-004	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444
Total	5.6000e-004	3.5000e-004	4.0500e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8400e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.3438	1.3438	2.0000e-005	0.0000	1.3444

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	0.2620	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541
Total	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	0.2605	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541
Total	1.6200e-003	1.0100e-003	0.0116	4.0000e-005	5.2500e-003	3.0000e-005	5.2800e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	3.8524	3.8524	7.0000e-005	0.0000	3.8541

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	9.40	Acre	9.40	409,464.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Modeling Construction Only

Land Use - Construction of Phase 2C includes construction of a 100,000 sf self-storage facility.

Construction Phase - Assumed construction start 1/24 and overlapped with Paving

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure

Trips and VMT -

Grading - Assumes soils balanced on-site

Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Lincoln SUD-B SP Mitigatopm Construction (Phase 2C) - Placer-Sacramento County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	PhaseEndDate	1/24/2025	12/23/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	11/25/2024
tblConstructionPhase	PhaseStartDate	12/28/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	11/30/2024	10/29/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.68	0.00
tblEnergyUse	NT24E	4.20	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.73	0.00

Lincoln SUD-B SP Mitigatopm Construction (Phase 2C) - Placer-Sacramento County, Summer

tblEnergyUse	T24NG	18.67	0.00
tblProjectCharacteristics	OperationalYear	2018	2026
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	124.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/12/2024	5	10	
2	Grading	Grading	1/13/2024	2/23/2024	5	30	
3	Building Construction	Building Construction	2/24/2024	11/29/2024	5	200	
4	Paving	Paving	10/29/2024	11/25/2024	5	20	
5	Architectural Coating	Architectural Coating	11/26/2024	12/23/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,000; Non-Residential Outdoor: 50,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	214.00	84.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0009	30.3354	20.9278	0.0415		1.4479	1.4479		1.3321	1.3321		4,015.1700	4,015.1700	1.2986		4,047.6347
Total	3.0009	30.3354	20.9278	0.0415	18.0663	1.4479	19.5142	9.9307	1.3321	11.2628		4,015.1700	4,015.1700	1.2986		4,047.6347

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	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173
Total	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0415		0.0676	0.0676		0.0676	0.0676	0.0000	4,015.1700	4,015.1700	1.2986		4,047.6347
Total	0.5068	2.1963	23.4140	0.0415	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,015.1700	4,015.1700	1.2986		4,047.6347

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	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173
Total	0.0812	0.0416	0.6344	2.1700e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		216.5190	216.5190	3.9300e-003		216.6173

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.5582	35.5364	30.3150	0.0655		1.5540	1.5540		1.4297	1.4297		6,336.9087	6,336.9087	2.0495		6,388.1458
Total	3.5582	35.5364	30.3150	0.0655	8.6733	1.5540	10.2273	3.5965	1.4297	5.0262		6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098
Total	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098

Lincoln SUD-B SP Mitigatopm Construction (Phase 2C) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0655		0.1070	0.1070		0.1070	0.1070	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458
Total	0.8028	3.4789	35.5442	0.0655	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098
Total	0.0934	0.0479	0.7296	2.5000e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		248.9968	248.9968	4.5200e-003		249.1098

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1645	6.8556	1.1721	0.0221	0.5145	6.8100e-003	0.5214	0.1482	6.5100e-003	0.1547		2,313.8922	2,313.8922	0.0746		2,315.7562
Worker	0.8687	0.4453	6.7883	0.0232	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,316.7532	2,316.7532	0.0421		2,317.8046
Total	1.0332	7.3009	7.9604	0.0453	3.2480	0.0220	3.2699	0.8730	0.0205	0.8935		4,630.6454	4,630.6454	0.1166		4,633.5608

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1645	6.8556	1.1721	0.0221	0.5145	6.8100e-003	0.5214	0.1482	6.5100e-003	0.1547		2,313.8922	2,313.8922	0.0746		2,315.7562
Worker	0.8687	0.4453	6.7883	0.0232	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,316.7532	2,316.7532	0.0421		2,317.8046
Total	1.0332	7.3009	7.9604	0.0453	3.2480	0.0220	3.2699	0.8730	0.0205	0.8935		4,630.6454	4,630.6454	0.1166		4,633.5608

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2196	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5119	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629
Total	0.0609	0.0312	0.4758	1.6300e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		162.3892	162.3892	2.9500e-003		162.4629

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	26.2026	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271
Total	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271

Lincoln SUD-B SP Mitigatopm Construction (Phase 2C) - Placer-Sacramento County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	26.0515	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271
Total	0.1746	0.0895	1.3640	4.6700e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		465.5158	465.5158	8.4500e-003		465.7271

Lincoln SUD-B SP Mitigatopm Construction (Phase 2C)
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	100.00	1000sqft	2.30	100,000.00	0
Other Asphalt Surfaces	9.40	Acre	9.40	409,464.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Modeling Construction Only
- Land Use - Construction of Phase 2C includes construction of a 100,000 sf self-storage facility.
- Construction Phase - Assumed construction start 1/24 and overlapped with Paving
- Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
- Off-road Equipment - Added Trencher to Site Prep and Grading for Infrastructure
- Trips and VMT -
- Grading - Assumes soils balanced on-site
- Architectural Coating - Reduced VOC (g/L) to 50g/L beyond Rule 218 requirements.

Vehicle Trips - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Vehicle Emission Factors - Modeling construction only

Road Dust - Modeling construction only

Woodstoves - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Mitigation includes on-site fugitive dust control. Use of Tier 4 Final equipment.

Stationary Sources - Emergency Generators and Fire Pumps - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Lincoln SUD-B SP Mitigatopm Construction (Phase 2C) - Placer-Sacramento County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	PhaseEndDate	1/24/2025	12/23/2024
tblConstructionPhase	PhaseEndDate	12/27/2024	11/25/2024
tblConstructionPhase	PhaseStartDate	12/28/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	11/30/2024	10/29/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.68	0.00
tblEnergyUse	NT24E	4.20	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	1.73	0.00

Lincoln SUD-B SP Mitigatopm Construction (Phase 2C) - Placer-Sacramento County, Winter

tblEnergyUse	T24NG	18.67	0.00
tblProjectCharacteristics	OperationalYear	2018	2026
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	124.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/12/2024	5	10	
2	Grading	Grading	1/13/2024	2/23/2024	5	30	
3	Building Construction	Building Construction	2/24/2024	11/29/2024	5	200	
4	Paving	Paving	10/29/2024	11/25/2024	5	20	
5	Architectural Coating	Architectural Coating	11/26/2024	12/23/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 9.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 150,000; Non-Residential Outdoor: 50,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Trenchers	1	8.00	78	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	214.00	84.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	43.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.0009	30.3354	20.9278	0.0415		1.4479	1.4479		1.3321	1.3321		4,015.1700	4,015.1700	1.2986		4,047.6347
Total	3.0009	30.3354	20.9278	0.0415	18.0663	1.4479	19.5142	9.9307	1.3321	11.2628		4,015.1700	4,015.1700	1.2986		4,047.6347

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	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003		192.7303
Total	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003		192.7303

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.5068	2.1963	23.4140	0.0415		0.0676	0.0676		0.0676	0.0676	0.0000	4,015.1700	4,015.1700	1.2986		4,047.6347
Total	0.5068	2.1963	23.4140	0.0415	8.1298	0.0676	8.1974	4.4688	0.0676	4.5364	0.0000	4,015.1700	4,015.1700	1.2986		4,047.6347

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	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003		192.7303
Total	0.0838	0.0521	0.5351	1.9300e-003	0.2555	1.4200e-003	0.2569	0.0678	1.3000e-003	0.0691		192.6444	192.6444	3.4400e-003		192.7303

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.5582	35.5364	30.3150	0.0655		1.5540	1.5540		1.4297	1.4297		6,336.9087	6,336.9087	2.0495		6,388.1458
Total	3.5582	35.5364	30.3150	0.0655	8.6733	1.5540	10.2273	3.5965	1.4297	5.0262		6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398
Total	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	0.8028	3.4789	35.5442	0.0655		0.1070	0.1070		0.1070	0.1070	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458
Total	0.8028	3.4789	35.5442	0.0655	3.9030	0.1070	4.0100	1.6184	0.1070	1.7255	0.0000	6,336.9087	6,336.9087	2.0495		6,388.1458

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	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398
Total	0.0963	0.0599	0.6153	2.2200e-003	0.2938	1.6300e-003	0.2954	0.0779	1.5000e-003	0.0794		221.5410	221.5410	3.9500e-003		221.6398

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1759	6.8617	1.4199	0.0213	0.5145	7.0900e-003	0.5216	0.1482	6.7800e-003	0.1549		2,229.3236	2,229.3236	0.0848		2,231.4430
Worker	0.8963	0.5572	5.7253	0.0207	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,061.2948	2,061.2948	0.0368		2,062.2137
Total	1.0723	7.4189	7.1452	0.0420	3.2480	0.0222	3.2702	0.8730	0.0207	0.8938		4,290.6184	4,290.6184	0.1215		4,293.6567

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.1759	6.8617	1.4199	0.0213	0.5145	7.0900e-003	0.5216	0.1482	6.7800e-003	0.1549		2,229.3236	2,229.3236	0.0848		2,231.4430
Worker	0.8963	0.5572	5.7253	0.0207	2.7334	0.0152	2.7486	0.7249	0.0140	0.7388		2,061.2948	2,061.2948	0.0368		2,062.2137
Total	1.0723	7.4189	7.1452	0.0420	3.2480	0.0222	3.2702	0.8730	0.0207	0.8938		4,290.6184	4,290.6184	0.1215		4,293.6567

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2196	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.2314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5119	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477
Total	0.0628	0.0391	0.4013	1.4500e-003	0.1916	1.0600e-003	0.1927	0.0508	9.8000e-004	0.0518		144.4833	144.4833	2.5800e-003		144.5477

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	26.2026	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701
Total	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	26.0515	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701
Total	0.1801	0.1120	1.1504	4.1500e-003	0.5492	3.0400e-003	0.5523	0.1457	2.8000e-003	0.1485		414.1854	414.1854	7.3900e-003		414.3701