

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Pentair Warehouse Expansion

Ventura County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	80.57	1000sqft	2.46	80,566.00	0
General Office Building	4.00	1000sqft	0.19	4,000.00	0
Parking Lot	3.00	Acre	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	390.98	CH4 Intensity (lb/MW/hr)	0.033	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total project site = 5.65 acres

Construction Phase -

Vehicle Trips - Daily Trip Rates set to match TIA

Operational Off-Road Equipment - 4 Electric Powered Forklifts 8 hours per day

Water Mitigation - Install Low-Flow fixtures and Use Water-Efficient Irrigation Systems per Title 24 Requirements

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	3/22/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	1/26/2024	12/29/2023

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tblConstructionPhase	PhaseEndDate	3/10/2023	2/10/2023
tblConstructionPhase	PhaseEndDate	2/23/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	2/10/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	2/24/2024	12/2/2023
tblConstructionPhase	PhaseStartDate	3/11/2023	2/11/2023
tblConstructionPhase	PhaseStartDate	2/11/2023	1/14/2023
tblConstructionPhase	PhaseStartDate	1/27/2024	12/2/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/1/2023
tblLandUse	LotAcreage	1.85	2.46
tblLandUse	LotAcreage	0.09	0.19
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	ST_TR	2.21	14.50
tblVehicleTrips	ST_TR	1.74	1.84
tblVehicleTrips	SU_TR	0.70	14.50
tblVehicleTrips	SU_TR	1.74	1.84
tblVehicleTrips	WD_TR	9.74	14.50
tblVehicleTrips	WD_TR	1.74	1.84

2.0 Emissions Summary

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2.2 Overall Operational
Unmitigated Operational

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	2.0816	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Energy	0.0103	0.0939	0.0789	5.6000e-004		7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003		112.6839	112.6839	2.1600e-003	2.0700e-003	113.3535
Mobile	0.6288	0.6832	5.5491	0.0116	1.2045	9.0600e-003	1.2135	0.3211	8.4600e-003	0.3296		1,188.1553	1,188.1553	0.0768	0.0528	1,205.7977
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.7207	0.7772	5.6369	0.0121	1.2045	0.0162	1.2207	0.3211	0.0156	0.3367	0.0000	1,300.8583	1,300.8583	0.0790	0.0548	1,319.1717

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2.2 Overall Operational

Mitigated Operational

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204
Energy	0.0103	0.0939	0.0789	5.6000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	112.6839	112.6839	112.6839	2.1600e-003	2.0700e-003	113.3535
Mobile	0.6288	0.6832	5.5491	0.0116	1.2045	9.0600e-003	1.2135	0.3211	8.4600e-003	0.3296	1,188.1553	1,188.1553	1,188.1553	0.0768	0.0528	1,205.7977
Offroad	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	2.7207	0.7772	5.6369	0.0121	1.2045	0.0162	1.2207	0.3211	0.0156	0.3367	0.0000	1,300.8583	1,300.8583	0.0790	0.0548	1,319.1717

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/13/2023	5	10	
2	Grading	Grading	1/14/2023	2/10/2023	5	20	
3	Building Construction	Building Construction	2/11/2023	12/29/2023	5	230	
4	Paving	Paving	12/2/2023	12/29/2023	5	20	

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5	Architectural Coating	Architectural Coating	12/2/2023	12/29/2023	5	20
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Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 126,849; Non-Residential Outdoor: 42,283; Striped Parking Area: 7,841 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660	1.1647	1.1647	1.1647		3,687.308	3,687.308	1.1926		3,717.121
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308	3,687.308	1.1926		3,717.121

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3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	129.1227	3.7900e-003	3.3700e-003	130.2224
Total	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	129.1227	3.7900e-003	3.3700e-003	130.2224

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660	1.1647	1.1647	1.1647	0.0000	3.687.308	3.687.308	1.1926		3,717.121
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308	3,687.308	1.1926		3,717.121

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	129.1227	3.7900e-003	3.3700e-003	130.2224
Total	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	129.1227	3.7900e-003	3.3700e-003	130.2224

3.3 Grading - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749	0.7129	0.7129	0.7129	2.872.691	0	2.872.691	0.9291		2.895.918
Total	1.7109	17.9359	14.7507	0.0297	7.0826	0.7749	7.8575	3.4247	0.7129	4.1377	2,872.691	0	2,872.691	0.9291		2,895.918

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3.3 Grading - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187
Total	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749	0.7129	0.7129	0.7129	0.0000	2.872.6910	2.872.6910	0.9291		2.895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.0826	0.7749	7.8575	3.4247	0.7129	4.1377	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

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3.3 Grading - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187
Total	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.3261	0.4711	6.4800e-003	0.2368	7.8800e-003	0.2447	0.0682	7.5400e-003	0.0757	703.3412	703.3412	703.3412	0.0289	0.1052	735.4257
Worker	0.2590	0.1601	2.3108	6.3100e-003	0.7393	4.0100e-003	0.7433	0.1961	3.6900e-003	0.1998	645.6137	645.6137	645.6137	0.0189	0.0169	651.1121
Total	0.2937	1.4861	2.7819	0.0128	0.9762	0.0119	0.9881	0.2643	0.0112	0.2755	1,348.9549	1,348.9549	1,348.9549	0.0479	0.1221	1,386.5378

Mitigated Construction On-Site

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

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3.4 Building Construction - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.3261	0.4711	6.4800e-003	0.2368	7.8800e-003	0.2447	0.0682	7.5400e-003	0.0757	703.3412	703.3412	703.3412	0.0289	0.1052	735.4257
Worker	0.2590	0.1601	2.3108	6.3100e-003	0.7393	4.0100e-003	0.7433	0.1961	3.6900e-003	0.1998	645.6137	645.6137	645.6137	0.0189	0.0169	651.1121
Total	0.2937	1.4861	2.7819	0.0128	0.9762	0.0119	0.9881	0.2643	0.0112	0.2755	1,348.9549	1,348.9549	1,348.9549	0.0479	0.1221	1,386.5378

3.5 Paving - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	2,207.5841	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4257	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	2,207.5841	2,207.5841	2,207.5841	0.7140		2,225.4336

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187
Total	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 ₁	2,207.584 ₁	0.7140		2,225.433 ₆
Paving	0.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4257	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

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187
Total	0.0432	0.0267	0.3851	1.0500e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	107.6023	107.6023	107.6023	3.1600e-003	2.8100e-003	108.5187

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Archit. Coating	41.0135					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	0.0708	0.0708	281.4481	281.4481	281.4481	0.0168		281.8690
Total	41.2052	1.3030	1.8111	2.9700e-003	0.0708	0.0708	0.0708	0.0708	0.0708	0.0708	281.4481	281.4481	281.4481	0.0168		281.8690

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023
Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	129.1227	3.7900e-003	3.3700e-003	130.2224
Total	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	129.1227	3.7900e-003	3.3700e-003	130.2224

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	41.0135					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	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	41.2052	1.3030	1.8111	2.9700e-003		0.0708	0.0708	0.0708	0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	3.7900e-003	3.7900e-003	3.3700e-003	130.2224
Total	0.0518	0.0320	0.4622	1.2600e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	129.1227	129.1227	3.7900e-003	3.7900e-003	3.3700e-003	130.2224

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.6288	0.6832	5.5491	0.0116	1.2045	9.0600e-003	1.2135	0.3211	8.4600e-003	0.3296	1,188,155	3	1,188,155	0.0768	0.0528	1,205,797
Unmitigated	0.6288	0.6832	5.5491	0.0116	1.2045	9.0600e-003	1.2135	0.3211	8.4600e-003	0.3296	1,188,155	3	1,188,155	0.0768	0.0528	1,205,797

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
General Office Building	58.00	58.00	58.00	138,606	138,606	138,606	138,606
Parking Lot	0.00	0.00	0.00				
Unrefrigerated Warehouse-No Rail	148.24	148.24	148.24	432,793	432,793	432,793	432,793
Total	206.24	206.24	206.24	571,398	571,398	571,398	571,398

4.3 Trip Type Information

Land Use	Miles										Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4				
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0				
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3				

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304
Parking Lot	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unrefrigerated Warehouse-No Rail	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	0.0103	0.0939	0.0789	5.6000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003		112.6639	112.6639	2.1600e-003	2.0700e-003	113.3535
NaturalGas Unmitigated	0.0103	0.0939	0.0789	5.6000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003		112.6639	112.6639	2.1600e-003	2.0700e-003	113.3535

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	lb/day											CO2e				
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2		NBio- CO2	Total CO2	CH4	N2O
General Office Building	99.1781	1.0700e-003	9.7200e-003	8.1700e-003	6.0000e-005	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	11.6680	11.6680	11.6680	2.2000e-004	2.1000e-004	11.7374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	858.635	9.2600e-003	0.0842	0.0707	5.1000e-004	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	101.0159	101.0159	101.0159	1.9400e-003	1.8500e-003	101.6162
Total		0.0103	0.0939	0.0789	5.7000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	112.6839	112.6839	112.6839	2.1600e-003	2.0600e-003	113.3535

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use kBTU/yr	lb/day										lb/day					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
General Office Building	0.0991781	1.0700e-003	9.7200e-003	8.1700e-003	6.0000e-005	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	11.6680	11.6680	11.6680	2.2000e-004	2.1000e-004	11.7374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.858635	9.2600e-003	0.0842	0.0707	5.1000e-004	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	101.0159	101.0159	101.0159	1.9400e-003	1.8500e-003	101.6162
Total		0.0103	0.0939	0.0789	5.7000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	112.6839	112.6839	112.6839	2.1600e-003	2.0600e-003	113.3535

6.0 Area Detail

6.1 Mitigation Measures Area

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204
Unmitigated	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.2247				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8560				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	8.3000e-004	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204
Total	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.2247					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8560					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	8.3000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Total	2.0816	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Pentair Warehouse Expansion - Ventura County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	260	89	0.20	Electrical

UnMitigated/Mitigated

Equipment Type	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Forklifts	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Pentair Warehouse Expansion

Ventura County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	80.57	1000sqft	2.46	80,566.00	0
General Office Building	4.00	1000sqft	0.19	4,000.00	0
Parking Lot	3.00	Acre	3.00	130,680.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2023

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	390.98	CH4 Intensity (lb/MW/hr)	0.033	N2O Intensity (lb/MW/hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total project site = 5.65 acres

Construction Phase -

Vehicle Trips - Daily Trip Rates set to match TIA

Operational Off-Road Equipment - 4 Electric Powered Forklifts 8 hours per day

Water Mitigation - Install Low-Flow fixtures and Use Water-Efficient Irrigation Systems per Title 24 Requirements

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	3/22/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	1/26/2024	12/29/2023

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	3/10/2023	2/10/2023
tblConstructionPhase	PhaseEndDate	2/23/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	2/10/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	2/24/2024	12/2/2023
tblConstructionPhase	PhaseStartDate	3/11/2023	2/11/2023
tblConstructionPhase	PhaseStartDate	2/11/2023	1/14/2023
tblConstructionPhase	PhaseStartDate	1/27/2024	12/2/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/1/2023
tblLandUse	LotAcreage	1.85	2.46
tblLandUse	LotAcreage	0.09	0.19
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.20
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	ST_TR	2.21	14.50
tblVehicleTrips	ST_TR	1.74	1.84
tblVehicleTrips	SU_TR	0.70	14.50
tblVehicleTrips	SU_TR	1.74	1.84
tblVehicleTrips	WD_TR	9.74	14.50
tblVehicleTrips	WD_TR	1.74	1.84

2.0 Emissions Summary

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational
Unmitigated Operational

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	2.0816	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005		0.0192	0.0192	5.0000e-005		0.0204
Energy	0.0103	0.0939	0.0789	5.6000e-004		7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003		112.6839	112.6839	2.1600e-003	2.0700e-003	113.3535
Mobile	0.6134	0.7554	5.8661	0.0112	1.2045	9.0700e-003	1.2135	0.3211	8.4600e-003	0.3296		1,148.2379	1,148.2379	0.0833	0.0566	1,167.1811
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	2.7053	0.8494	5.9539	0.0117	1.2045	0.0162	1.2207	0.3211	0.0156	0.3367	0.0000	1,260.9410	1,260.9410	0.0655	0.0587	1,280.5550

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204
Energy	0.0103	0.0939	0.0789	5.6000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	112.6839	112.6839	112.6839	2.1600e-003	2.0700e-003	113.3535
Mobile	0.6134	0.7554	5.8661	0.0112	1.2045	9.0700e-003	1.2135	8.4600e-003	0.3296	0.3296	1,148.2379	1,148.2379	1,148.2379	0.0833	0.0566	1,167.1811
Offroad	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	2.7053	0.8494	5.9539	0.0117	1.2045	0.0162	1.2207	0.3211	0.0156	0.3367	0.0000	1,260.9410	1,260.9410	0.0655	0.0587	1,280.5550

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	1/13/2023	5	10	
2	Grading	Grading	1/14/2023	2/10/2023	5	20	
3	Building Construction	Building Construction	2/11/2023	12/29/2023	5	230	
4	Paving	Paving	12/2/2023	12/29/2023	5	20	

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Architectural Coating	Architectural Coating	12/2/2023	12/29/2023	5	20
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Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 126,849; Non-Residential Outdoor: 42,283; Striped Parking Area: 7,841 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	90.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660	1.1647	1.1647	1.1647		3,687.308	3,687.308	1.1926		3,717.121
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308	3,687.308	1.1926		3,717.121

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	123.5352	123.5352	4.1300e-003	3.7500e-003	124.7557	124.7557
Total	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	123.5352	123.5352	4.1300e-003	3.7500e-003	124.7557	124.7557

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660	1.1647	1.1647	1.1647	0.0000	3.687.308	3.687.308	1.1926		3,717.121
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308	3,687.308	1.1926		3,717.121

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400		123.5352	123.5352	4.1300e-003	3.7500e-003	124.7557
Total	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400		123.5352	123.5352	4.1300e-003	3.7500e-003	124.7557

3.3 Grading - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749	0.7129	0.7129	0.7129		2.872.691	2.872.691	0.9291		2.895.918
Total	1.7109	17.9359	14.7507	0.0297	7.0826	0.7749	7.8575	3.4247	0.7129	4.1377		2,872.691	2,872.691	0.9291		2,895.918

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	102.9460	3.4400e-003	3.1200e-003	103.9631
Total	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	102.9460	3.4400e-003	3.1200e-003	103.9631

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749	0.7129	0.7129	0.7129	0.0000	2.872.6910	2.872.6910	0.9291		2.895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.0826	0.7749	7.8575	3.4247	0.7129	4.1377	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	102.9460	3.4400e-003	3.1200e-003	103.9631
Total	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	102.9460	3.4400e-003	3.1200e-003	103.9631

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0335	1.3845	0.4862	6.4900e-003	0.2368	7.9300e-003	0.2448	0.0682	7.5900e-003	0.0758	704.3483	704.3483	0.0288	0.1055	736.4991	
Worker	0.2796	0.1874	2.2684	6.0400e-003	0.7393	4.0100e-003	0.7433	0.1961	3.6900e-003	0.1998	617.6761	617.6761	0.0206	0.0188	623.7783	
Total	0.3131	1.5719	2.7546	0.0125	0.9762	0.0119	0.9881	0.2643	0.0113	0.2755	1,322.0243	1,322.0243	0.0495	0.1242	1,360.2774	

Mitigated Construction On-Site

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

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0335	1.3845	0.4862	6.4900e-003	0.2368	7.9300e-003	0.2448	0.0682	7.5900e-003	0.0758	704.3483	704.3483	0.0288	0.1055	736.4991	
Worker	0.2796	0.1874	2.2684	6.0400e-003	0.7393	4.0100e-003	0.7433	0.1961	3.6900e-003	0.1998	617.6761	617.6761	0.0206	0.0188	623.7783	
Total	0.3131	1.5719	2.7546	0.0125	0.9762	0.0119	0.9881	0.2643	0.0113	0.2755	1,322.024	1,322.024	0.0495	0.1242	1,360.277	4

3.5 Paving - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	2,207.584	2,207.584	0.7140	0.7140		2,225.433
Paving	0.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4257	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	2,207.584	2,207.584	0.7140	0.7140		2,225.433

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	102.9460	3.4400e-003	3.1200e-003	103.9631
Total	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	102.9460	3.4400e-003	3.1200e-003	103.9631

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 ₁	2,207.584 ₁	0.7140		2,225.433 ₆
Paving	0.3930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4257	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

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	3.4400e-003	3.1200e-003	3.1200e-003	103.9631
Total	0.0466	0.0312	0.3781	1.0100e-003	0.1232	6.7000e-004	0.1239	0.0327	6.1000e-004	0.0333	102.9460	102.9460	3.4400e-003	3.1200e-003	3.1200e-003	103.9631

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Archit. Coating	41.0135					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	0.0708	0.0708	281.4481	281.4481	0.0168	0.0168		281.8690
Total	41.2052	1.3030	1.8111	2.9700e-003	0.0708	0.0708	0.0708	0.0708	0.0708	0.0708	281.4481	281.4481	0.0168	0.0168		281.8690

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023
Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	123.5352	4.1300e-003	123.5352	4.1300e-003	3.7500e-003	124.7557
Total	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	123.5352	4.1300e-003	123.5352	4.1300e-003	3.7500e-003	124.7557

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	41.0135					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	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	41.2052	1.3030	1.8111	2.9700e-003		0.0708	0.0708	0.0708	0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	123.5352	123.5352	4.1300e-003	3.7500e-003	124.7557	
Total	0.0559	0.0375	0.4537	1.2100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.4000e-004	0.0400	123.5352	123.5352	4.1300e-003	3.7500e-003	124.7557	

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.6134	0.7554	5.8661	0.0112	1.2045	9.0700e-003	1.2135	0.3211	8.4600e-003	0.3296	1,148,237.9	1,148,237.9	1,148,237.9	0.0833	0.0566	1,167,181.1
Unmitigated	0.6134	0.7554	5.8661	0.0112	1.2045	9.0700e-003	1.2135	0.3211	8.4600e-003	0.3296	1,148,237.9	1,148,237.9	1,148,237.9	0.0833	0.0566	1,167,181.1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
General Office Building	58.00	58.00	58.00	138,606	138,606	138,606	138,606
Parking Lot	0.00	0.00	0.00	0	0	0	0
Unrefrigerated Warehouse-No Rail	148.24	148.24	148.24	432,793	432,793	432,793	432,793
Total	206.24	206.24	206.24	571,398	571,398	571,398	571,398

4.3 Trip Type Information

Land Use	Miles										Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	7.30	33.00	48.00	48.00	19.00	77	19	4	77	19	4
Parking Lot	9.50	7.30	7.30	7.30	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	7.30	59.00	0.00	41.00	41.00	92	5	3	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304
Parking Lot	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unrefrigerated Warehouse-No Rail	0.543528	0.058189	0.173108	0.133952	0.027894	0.007577	0.011427	0.006062	0.000688	0.000393	0.029232	0.000646	0.007304
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	0.0103	0.0939	0.0789	5.6000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003		112.6639	112.6639	2.1600e-003	2.0700e-003	113.3535
NaturalGas Unmitigated	0.0103	0.0939	0.0789	5.6000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003		112.6639	112.6639	2.1600e-003	2.0700e-003	113.3535

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	lb/day											CO2e				
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2		NBio- CO2	Total CO2	CH4	N2O
General Office Building	99.1781	1.0700e-003	9.7200e-003	8.1700e-003	6.0000e-005	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	11.6680	11.6680	11.6680	2.2000e-004	2.1000e-004	11.7374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	858.635	9.2600e-003	0.0842	0.0707	5.1000e-004	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	101.0159	101.0159	101.0159	1.9400e-003	1.8500e-003	101.6162
Total		0.0103	0.0939	0.0789	5.7000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	112.6839	112.6839	112.6839	2.1600e-003	2.0600e-003	113.3535

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use kBTU/yr	lb/day										CO2e					
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total		Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
General Office Building	0.0991781	1.0700e-003	9.7200e-003	8.1700e-003	6.0000e-005	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	7.4000e-004	11.6680	11.6680	11.6680	2.2000e-004	2.1000e-004	11.7374
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.858635	9.2600e-003	0.0842	0.0707	5.1000e-004	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	6.4000e-003	101.0159	101.0159	101.0159	1.9400e-003	1.8500e-003	101.6162
Total		0.0103	0.0939	0.0789	5.7000e-004	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	7.1400e-003	112.6839	112.6839	112.6839	2.1600e-003	2.0600e-003	113.3535

6.0 Area Detail

6.1 Mitigation Measures Area

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204
Unmitigated	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.2247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8560					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3000e-004	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204
Total	2.0816	8.0000e-005	8.9400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0192	0.0192	0.0192	5.0000e-005		0.0204

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	lb/day																
Architectural Coating	0.2247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	1.8560					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	8.3000e-004	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192			5.0000e-005	0.0204
Total	2.0816	8.0000e-005	8.9400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0192	0.0192			5.0000e-005	0.0204

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Pentair Warehouse Expansion - Ventura County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	260	89	0.20	Electrical

UnMitigated/Mitigated

Equipment Type	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Forklifts	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation