

APPENDIX A
CALEEMOD CALCULATIONS

BNSF Waterline Crossing - Orange County, Annual

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

BNSF Waterline Crossing
Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	2,960.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Estimated based on lineal feet of pipes
- Construction Phase - Based on project's anticipated schedule
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Trips and VMT - Estimated
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation -

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1480	400
tblAreaCoating	Area_Nonresidential_Interior	4440	1200
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	1.00	66.00
tblConstructionPhase	NumDays	2.00	66.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	5.00	22.00
tblLandUse	LandUseSquareFeet	0.00	2,960.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	HorsePower	221.00	80.00
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	878.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

2.0 Emissions Summary

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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					
2022	4.7400e-003	0.0382	0.0465	9.0000e-005	9.7000e-004	1.8600e-003	2.8200e-003	2.5000e-004	1.8100e-003	2.0500e-003	0.0000	7.3646	7.3646	9.1000e-004	1.2000e-004	7.4238
2023	0.0935	0.8781	0.9979	2.5100e-003	0.0230	0.0347	0.0577	6.2500e-003	0.0325	0.0388	0.0000	219.7492	219.7492	0.0532	6.3900e-003	222.9843
Maximum	0.0935	0.8781	0.9979	2.5100e-003	0.0230	0.0347	0.0577	6.2500e-003	0.0325	0.0388	0.0000	219.7492	219.7492	0.0532	6.3900e-003	222.9843

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					
2022	4.7400e-003	0.0382	0.0465	9.0000e-005	8.9000e-004	1.8600e-003	2.7500e-003	2.3000e-004	1.8100e-003	2.0400e-003	0.0000	7.3646	7.3646	9.1000e-004	1.2000e-004	7.4238
2023	0.0935	0.8781	0.9979	2.5100e-003	0.0228	0.0347	0.0575	6.2200e-003	0.0325	0.0388	0.0000	219.7490	219.7490	0.0532	6.3900e-003	222.9841
Maximum	0.0935	0.8781	0.9979	2.5100e-003	0.0228	0.0347	0.0575	6.2200e-003	0.0325	0.0388	0.0000	219.7490	219.7490	0.0532	6.3900e-003	222.9841

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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	0.00	0.00	0.00	0.00	1.09	0.00	0.41	0.77	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	9-20-2022	12-19-2022	0.0141	0.0141
3	12-20-2022	3-19-2023	0.2013	0.2013
4	3-20-2023	6-19-2023	0.2375	0.2375
5	6-20-2023	9-19-2023	0.2996	0.2996
6	9-20-2023	9-30-2023	0.0379	0.0379
		Highest	0.2996	0.2996

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0111	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0111	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0111	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0111	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/14/2022	2/13/2023	5	44	
2	Site Preparation	Site Preparation	2/14/2023	5/16/2023	5	66	
3	Grading	Grading	5/17/2023	8/16/2023	5	66	

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4	Building Construction	Building Construction	8/17/2023	11/16/2023	5	66
5	Paving	Paving	11/17/2023	12/18/2023	5	22

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Signal Boards	1	24.00	6	0.82
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	1	8.00	80	0.38
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Signal Boards	1	24.00	6	0.82
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Excavators	1	8.00	158	0.38
Grading	Signal Boards	1	24.00	6	0.82
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Signal Boards	1	24.00	6	0.82
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	24.00	6	0.82
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	6.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	878.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	1.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4000e-004	0.0000	1.4000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5100e-003	0.0361	0.0442	7.0000e-005		1.8300e-003	1.8300e-003		1.7900e-003	1.7900e-003	0.0000	6.1435	6.1435	8.6000e-004	0.0000	6.1648
Total	4.5100e-003	0.0361	0.0442	7.0000e-005	1.4000e-004	1.8300e-003	1.9700e-003	2.0000e-005	1.7900e-003	1.8100e-003	0.0000	6.1435	6.1435	8.6000e-004	0.0000	6.1648

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0363	0.0363	0.0000	1.0000e-005	0.0381
Vendor	6.0000e-005	1.8300e-003	6.3000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7337	0.7337	4.0000e-005	1.1000e-004	0.7661
Worker	1.6000e-004	1.2000e-004	1.6300e-003	0.0000	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4512	0.4512	1.0000e-005	1.0000e-005	0.4548
Total	2.2000e-004	2.0500e-003	2.2900e-003	1.0000e-005	8.3000e-004	2.0000e-005	8.4000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	1.2211	1.2211	5.0000e-005	1.3000e-004	1.2590

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5100e-003	0.0361	0.0442	7.0000e-005		1.8300e-003	1.8300e-003		1.7900e-003	1.7900e-003	0.0000	6.1434	6.1434	8.6000e-004	0.0000	6.1648
Total	4.5100e-003	0.0361	0.0442	7.0000e-005	6.0000e-005	1.8300e-003	1.8900e-003	1.0000e-005	1.7900e-003	1.8000e-003	0.0000	6.1434	6.1434	8.6000e-004	0.0000	6.1648

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3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0363	0.0363	0.0000	1.0000e-005	0.0381
Vendor	6.0000e-005	1.8300e-003	6.3000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7337	0.7337	4.0000e-005	1.1000e-004	0.7661
Worker	1.6000e-004	1.2000e-004	1.6300e-003	0.0000	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4512	0.4512	1.0000e-005	1.0000e-005	0.4548
Total	2.2000e-004	2.0500e-003	2.2900e-003	1.0000e-005	8.3000e-004	2.0000e-005	8.4000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	1.2211	1.2211	5.0000e-005	1.3000e-004	1.2590

3.2 Demolition - 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					3.3000e-004	0.0000	3.3000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0806	0.1053	1.8000e-004		3.8100e-003	3.8100e-003		3.7200e-003	3.7200e-003	0.0000	14.6545	14.6545	2.0000e-003	0.0000	14.7045
Total	0.0102	0.0806	0.1053	1.8000e-004	3.3000e-004	3.8100e-003	4.1400e-003	5.0000e-005	3.7200e-003	3.7700e-003	0.0000	14.6545	14.6545	2.0000e-003	0.0000	14.7045

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3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0818	0.0818	1.0000e-005	1.0000e-005	0.0859
Vendor	9.0000e-005	3.4100e-003	1.3700e-003	2.0000e-005	5.9000e-004	2.0000e-005	6.0000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	1.6669	1.6669	1.0000e-004	2.4000e-004	1.7407
Worker	3.5000e-004	2.5000e-004	3.6200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0480	1.0480	2.0000e-005	2.0000e-005	1.0560
Total	4.4000e-004	3.8400e-003	5.0500e-003	3.0000e-005	1.9700e-003	3.0000e-005	2.0000e-003	5.4000e-004	3.0000e-005	5.7000e-004	0.0000	2.7967	2.7967	1.3000e-004	2.7000e-004	2.8826

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5000e-004	0.0000	1.5000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0806	0.1053	1.8000e-004		3.8100e-003	3.8100e-003		3.7200e-003	3.7200e-003	0.0000	14.6545	14.6545	2.0000e-003	0.0000	14.7045
Total	0.0102	0.0806	0.1053	1.8000e-004	1.5000e-004	3.8100e-003	3.9600e-003	2.0000e-005	3.7200e-003	3.7400e-003	0.0000	14.6545	14.6545	2.0000e-003	0.0000	14.7045

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3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0818	0.0818	1.0000e-005	1.0000e-005	0.0859
Vendor	9.0000e-005	3.4100e-003	1.3700e-003	2.0000e-005	5.9000e-004	2.0000e-005	6.0000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	1.6669	1.6669	1.0000e-004	2.4000e-004	1.7407
Worker	3.5000e-004	2.5000e-004	3.6200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0480	1.0480	2.0000e-005	2.0000e-005	1.0560
Total	4.4000e-004	3.8400e-003	5.0500e-003	3.0000e-005	1.9700e-003	3.0000e-005	2.0000e-003	5.4000e-004	3.0000e-005	5.7000e-004	0.0000	2.7967	2.7967	1.3000e-004	2.7000e-004	2.8826

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.1791	0.2686	4.3000e-004		8.1800e-003	8.1800e-003		7.6400e-003	7.6400e-003	0.0000	35.8320	35.8320	0.0106	0.0000	36.0974
Total	0.0202	0.1791	0.2686	4.3000e-004	0.0000	8.1800e-003	8.1800e-003	0.0000	7.6400e-003	7.6400e-003	0.0000	35.8320	35.8320	0.0106	0.0000	36.0974

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3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-004	7.2700e-003	2.9200e-003	4.0000e-005	1.2500e-003	4.0000e-005	1.2800e-003	3.6000e-004	3.0000e-005	3.9000e-004	0.0000	3.5488	3.5488	2.1000e-004	5.1000e-004	3.7060
Worker	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104
Total	1.1300e-003	7.9400e-003	0.0126	7.0000e-005	4.8700e-003	6.0000e-005	4.9200e-003	1.3200e-003	5.0000e-005	1.3700e-003	0.0000	6.3378	6.3378	2.7000e-004	5.8000e-004	6.5164

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.1791	0.2686	4.3000e-004		8.1800e-003	8.1800e-003		7.6400e-003	7.6400e-003	0.0000	35.8319	35.8319	0.0106	0.0000	36.0974
Total	0.0202	0.1791	0.2686	4.3000e-004	0.0000	8.1800e-003	8.1800e-003	0.0000	7.6400e-003	7.6400e-003	0.0000	35.8319	35.8319	0.0106	0.0000	36.0974

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3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-004	7.2700e-003	2.9200e-003	4.0000e-005	1.2500e-003	4.0000e-005	1.2800e-003	3.6000e-004	3.0000e-005	3.9000e-004	0.0000	3.5488	3.5488	2.1000e-004	5.1000e-004	3.7060
Worker	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104
Total	1.1300e-003	7.9400e-003	0.0126	7.0000e-005	4.8700e-003	6.0000e-005	4.9200e-003	1.3200e-003	5.0000e-005	1.3700e-003	0.0000	6.3378	6.3378	2.7000e-004	5.8000e-004	6.5164

3.4 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0240	0.2047	0.2780	6.5000e-004		8.5700e-003	8.5700e-003		7.9900e-003	7.9900e-003	0.0000	55.8335	55.8335	0.0171	0.0000	56.2606
Total	0.0240	0.2047	0.2780	6.5000e-004	0.0000	8.5700e-003	8.5700e-003	0.0000	7.9900e-003	7.9900e-003	0.0000	55.8335	55.8335	0.0171	0.0000	56.2606

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3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.9000e-004	0.0550	0.0180	2.5000e-004	7.5400e-003	3.4000e-004	7.8700e-003	2.0700e-003	3.2000e-004	2.3900e-003	0.0000	25.4800	25.4800	2.5700e-003	4.0900e-003	26.7623
Vendor	2.0000e-004	7.2700e-003	2.9200e-003	4.0000e-005	1.2500e-003	4.0000e-005	1.2800e-003	3.6000e-004	3.0000e-005	3.9000e-004	0.0000	3.5488	3.5488	2.1000e-004	5.1000e-004	3.7060
Worker	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104
Total	2.0200e-003	0.0630	0.0306	3.2000e-004	0.0124	4.0000e-004	0.0128	3.3900e-003	3.7000e-004	3.7600e-003	0.0000	31.8178	31.8178	2.8400e-003	4.6700e-003	33.2787

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0240	0.2047	0.2780	6.5000e-004		8.5700e-003	8.5700e-003		7.9900e-003	7.9900e-003	0.0000	55.8334	55.8334	0.0171	0.0000	56.2605
Total	0.0240	0.2047	0.2780	6.5000e-004	0.0000	8.5700e-003	8.5700e-003	0.0000	7.9900e-003	7.9900e-003	0.0000	55.8334	55.8334	0.0171	0.0000	56.2605

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3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.9000e-004	0.0550	0.0180	2.5000e-004	7.5400e-003	3.4000e-004	7.8700e-003	2.0700e-003	3.2000e-004	2.3900e-003	0.0000	25.4800	25.4800	2.5700e-003	4.0900e-003	26.7623
Vendor	2.0000e-004	7.2700e-003	2.9200e-003	4.0000e-005	1.2500e-003	4.0000e-005	1.2800e-003	3.6000e-004	3.0000e-005	3.9000e-004	0.0000	3.5488	3.5488	2.1000e-004	5.1000e-004	3.7060
Worker	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104
Total	2.0200e-003	0.0630	0.0306	3.2000e-004	0.0124	4.0000e-004	0.0128	3.3900e-003	3.7000e-004	3.7600e-003	0.0000	31.8178	31.8178	2.8400e-003	4.6700e-003	33.2787

3.5 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	0.0294	0.2795	0.2311	6.7000e-004		0.0113	0.0113		0.0105	0.0105	0.0000	57.5912	57.5912	0.0177	0.0000	58.0325
Total	0.0294	0.2795	0.2311	6.7000e-004		0.0113	0.0113		0.0105	0.0105	0.0000	57.5912	57.5912	0.0177	0.0000	58.0325

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.6000e-004	9.6900e-003	3.8900e-003	5.0000e-005	1.6600e-003	5.0000e-005	1.7100e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	4.7318	4.7318	2.8000e-004	6.8000e-004	4.9413
Worker	9.0000e-005	7.0000e-005	9.6000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2789	0.2789	1.0000e-005	1.0000e-005	0.2810
Total	3.5000e-004	9.7600e-003	4.8500e-003	5.0000e-005	2.0200e-003	5.0000e-005	2.0700e-003	5.8000e-004	5.0000e-005	6.3000e-004	0.0000	5.0107	5.0107	2.9000e-004	6.9000e-004	5.2223

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0294	0.2795	0.2311	6.7000e-004		0.0113	0.0113		0.0105	0.0105	0.0000	57.5911	57.5911	0.0177	0.0000	58.0325
Total	0.0294	0.2795	0.2311	6.7000e-004		0.0113	0.0113		0.0105	0.0105	0.0000	57.5911	57.5911	0.0177	0.0000	58.0325

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.6000e-004	9.6900e-003	3.8900e-003	5.0000e-005	1.6600e-003	5.0000e-005	1.7100e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	4.7318	4.7318	2.8000e-004	6.8000e-004	4.9413
Worker	9.0000e-005	7.0000e-005	9.6000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2789	0.2789	1.0000e-005	1.0000e-005	0.2810
Total	3.5000e-004	9.7600e-003	4.8500e-003	5.0000e-005	2.0200e-003	5.0000e-005	2.0700e-003	5.8000e-004	5.0000e-005	6.3000e-004	0.0000	5.0107	5.0107	2.9000e-004	6.9000e-004	5.2223

3.6 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	5.4600e-003	0.0472	0.0584	1.0000e-004		2.2900e-003	2.2900e-003		2.1500e-003	2.1500e-003	0.0000	7.9485	7.9485	2.2500e-003	0.0000	8.0046
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.4600e-003	0.0472	0.0584	1.0000e-004		2.2900e-003	2.2900e-003		2.1500e-003	2.1500e-003	0.0000	7.9485	7.9485	2.2500e-003	0.0000	8.0046

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	2.5000e-004	1.8000e-004	2.5700e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7437	0.7437	2.0000e-005	2.0000e-005	0.7494
Total	3.2000e-004	2.6000e-003	3.5400e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4000e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.9267	1.9267	9.0000e-005	1.9000e-004	1.9848

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.4600e-003	0.0472	0.0584	1.0000e-004		2.2900e-003	2.2900e-003		2.1500e-003	2.1500e-003	0.0000	7.9484	7.9484	2.2500e-003	0.0000	8.0046
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.4600e-003	0.0472	0.0584	1.0000e-004		2.2900e-003	2.2900e-003		2.1500e-003	2.1500e-003	0.0000	7.9484	7.9484	2.2500e-003	0.0000	8.0046

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3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.4200e-003	9.7000e-004	1.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1829	1.1829	7.0000e-005	1.7000e-004	1.2353
Worker	2.5000e-004	1.8000e-004	2.5700e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7437	0.7437	2.0000e-005	2.0000e-005	0.7494
Total	3.2000e-004	2.6000e-003	3.5400e-003	2.0000e-005	1.3900e-003	2.0000e-005	1.4000e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.9267	1.9267	9.0000e-005	1.9000e-004	1.9848

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

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

Unmitigated

[illegible]

Mitigated

[illegible]

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0111	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0111	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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	3.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	0.0111	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

BNSF Waterline Crossing - Orange County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	0.0111	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

BNSF Waterline Crossing - Orange County, Annual

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

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

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

BNSF Waterline Crossing - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

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

BNSF Waterline Crossing - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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BNSF Waterline Crossing - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

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

Boilers

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

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

11.0 Vegetation

BNSF Waterline Crossing - Orange County, Summer

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

BNSF Waterline Crossing
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	2,960.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Estimated based on lineal feet of pipes
- Construction Phase - Based on project's anticipated schedule
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Trips and VMT - Estimated
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation -

BNSF Waterline Crossing - Orange County, Summer

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1480	400
tblAreaCoating	Area_Nonresidential_Interior	4440	1200
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	1.00	66.00
tblConstructionPhase	NumDays	2.00	66.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	5.00	22.00
tblLandUse	LandUseSquareFeet	0.00	2,960.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	HorsePower	221.00	80.00
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	878.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

2.0 Emissions Summary

BNSF Waterline Crossing - Orange County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.7289	5.8546	7.1685	0.0134	0.1510	0.2854	0.4364	0.0385	0.2781	0.3165	0.0000	1,251.691 8	1,251.691 8	0.1547	0.0206	1,261.693 0
2023	0.9009	8.7512	9.3619	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,930.822 8	2,930.822 8	0.6657	0.1555	2,993.814 8
Maximum	0.9009	8.7512	9.3619	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,930.822 8	2,930.822 8	0.6657	0.1555	2,993.814 8

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.7289	5.8546	7.1685	0.0134	0.1391	0.2854	0.4245	0.0367	0.2781	0.3147	0.0000	1,251.691 8	1,251.691 8	0.1547	0.0206	1,261.693 0
2023	0.9009	8.7512	9.3619	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,930.822 8	2,930.822 8	0.6657	0.1555	2,993.814 8
Maximum	0.9009	8.7512	9.3619	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,930.822 8	2,930.822 8	0.6657	0.1555	2,993.814 8

BNSF Waterline Crossing - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	2.23	0.00	1.09	1.26	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00

BNSF Waterline Crossing - Orange County, Summer

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

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	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0607	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0607	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

BNSF Waterline Crossing - Orange County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/14/2022	2/13/2023	5	44	
2	Site Preparation	Site Preparation	2/14/2023	5/16/2023	5	66	
3	Grading	Grading	5/17/2023	8/16/2023	5	66	
4	Building Construction	Building Construction	8/17/2023	11/16/2023	5	66	
5	Paving	Paving	11/17/2023	12/18/2023	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Signal Boards	1	24.00	6	0.82
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	1	8.00	80	0.38
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Signal Boards	1	24.00	6	0.82

BNSF Waterline Crossing - Orange County, Summer

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

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Excavators	1	8.00	158	0.38
Grading	Signal Boards	1	24.00	6	0.82
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Signal Boards	1	24.00	6	0.82
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	24.00	6	0.82
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	6.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	878.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	1.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

BNSF Waterline Crossing - Orange County, Summer

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

3.2 Demolition - 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					
Fugitive Dust					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003			0.0000			0.0000
Off-Road	0.6945	5.5551	6.8057	0.0115		0.2822	0.2822		0.2750	0.2750		1,041.8445	1,041.8445	0.1451		1,045.4724
Total	0.6945	5.5551	6.8057	0.0115	0.0216	0.2822	0.3038	3.2700e-003	0.2750	0.2783		1,041.8445	1,041.8445	0.1451		1,045.4724

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7000e-004	0.0142	3.9800e-003	5.0000e-005	1.5900e-003	1.1000e-004	1.6900e-003	4.3000e-004	1.0000e-004	5.4000e-004		6.1463	6.1463	5.9000e-004	9.8000e-004	6.4543
Vendor	9.9800e-003	0.2692	0.0956	1.1400e-003	0.0384	2.6200e-003	0.0410	0.0110	2.5100e-003	0.0136		124.4146	124.4146	7.1300e-003	0.0178	129.9060
Worker	0.0241	0.0162	0.2633	7.8000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		79.2864	79.2864	1.8500e-003	1.7700e-003	79.8603
Total	0.0344	0.2995	0.3628	1.9700e-003	0.1294	3.2100e-003	0.1326	0.0352	3.0500e-003	0.0383		209.8473	209.8473	9.5700e-003	0.0206	216.2206

BNSF Waterline Crossing - Orange County, Summer

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.7200e-003	0.0000	9.7200e-003	1.4700e-003	0.0000	1.4700e-003			0.0000			0.0000
Off-Road	0.6945	5.5551	6.8057	0.0115		0.2822	0.2822		0.2750	0.2750	0.0000	1,041.8445	1,041.8445	0.1451		1,045.4724
Total	0.6945	5.5551	6.8057	0.0115	9.7200e-003	0.2822	0.2919	1.4700e-003	0.2750	0.2765	0.0000	1,041.8445	1,041.8445	0.1451		1,045.4724

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7000e-004	0.0142	3.9800e-003	5.0000e-005	1.5900e-003	1.1000e-004	1.6900e-003	4.3000e-004	1.0000e-004	5.4000e-004		6.1463	6.1463	5.9000e-004	9.8000e-004	6.4543
Vendor	9.9800e-003	0.2692	0.0956	1.1400e-003	0.0384	2.6200e-003	0.0410	0.0110	2.5100e-003	0.0136		124.4146	124.4146	7.1300e-003	0.0178	129.9060
Worker	0.0241	0.0162	0.2633	7.8000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		79.2864	79.2864	1.8500e-003	1.7700e-003	79.8603
Total	0.0344	0.2995	0.3628	1.9700e-003	0.1294	3.2100e-003	0.1326	0.0352	3.0500e-003	0.0383		209.8473	209.8473	9.5700e-003	0.0206	216.2206

BNSF Waterline Crossing - Orange County, Summer

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

3.2 Demolition - 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					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003			0.0000			0.0000
Off-Road	0.6572	5.1982	6.7917	0.0115		0.2460	0.2460		0.2399	0.2399		1,042.1828	1,042.1828	0.1421		1,045.7352
Total	0.6572	5.1982	6.7917	0.0115	0.0216	0.2460	0.2676	3.2700e-003	0.2399	0.2432		1,042.1828	1,042.1828	0.1421		1,045.7352

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9000e-004	0.0108	3.7100e-003	5.0000e-005	1.5900e-003	7.0000e-005	1.6600e-003	4.3000e-004	7.0000e-005	5.0000e-004		5.8141	5.8141	5.9000e-004	9.3000e-004	6.1067
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
Total	0.0288	0.2355	0.3359	1.8800e-003	0.1294	1.6100e-003	0.1310	0.0352	1.5200e-003	0.0367		201.5086	201.5086	9.3100e-003	0.0196	207.5758

BNSF Waterline Crossing - Orange County, Summer

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.7200e-003	0.0000	9.7200e-003	1.4700e-003	0.0000	1.4700e-003			0.0000			0.0000
Off-Road	0.6572	5.1982	6.7917	0.0115		0.2460	0.2460		0.2399	0.2399	0.0000	1,042.1828	1,042.1828	0.1421		1,045.7352
Total	0.6572	5.1982	6.7917	0.0115	9.7200e-003	0.2460	0.2557	1.4700e-003	0.2399	0.2414	0.0000	1,042.1828	1,042.1828	0.1421		1,045.7352

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9000e-004	0.0108	3.7100e-003	5.0000e-005	1.5900e-003	7.0000e-005	1.6600e-003	4.3000e-004	7.0000e-005	5.0000e-004		5.8141	5.8141	5.9000e-004	9.3000e-004	6.1067
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
Total	0.0288	0.2355	0.3359	1.8800e-003	0.1294	1.6100e-003	0.1310	0.0352	1.5200e-003	0.0367		201.5086	201.5086	9.3100e-003	0.0196	207.5758

BNSF Waterline Crossing - Orange County, Summer

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

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6125	5.4261	8.1387	0.0129		0.2480	0.2480		0.2315	0.2315		1,196.909 2	1,196.909 2	0.3546		1,205.774 6
Total	0.6125	5.4261	8.1387	0.0129	0.0000	0.2480	0.2480	0.0000	0.2315	0.2315		1,196.909 2	1,196.909 2	0.3546		1,205.774 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972
Total	0.0342	0.2283	0.3934	2.0200e-003	0.1502	1.6500e-003	0.1518	0.0407	1.5600e-003	0.0422		215.0007	215.0007	9.1400e-003	0.0191	220.9086

BNSF Waterline Crossing - Orange County, Summer

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6125	5.4261	8.1387	0.0129		0.2480	0.2480		0.2315	0.2315	0.0000	1,196.909 2	1,196.909 2	0.3546		1,205.774 6
Total	0.6125	5.4261	8.1387	0.0129	0.0000	0.2480	0.2480	0.0000	0.2315	0.2315	0.0000	1,196.909 2	1,196.909 2	0.3546		1,205.774 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	0.0000
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972
Total	0.0342	0.2283	0.3934	2.0200e-003	0.1502	1.6500e-003	0.1518	0.0407	1.5600e-003	0.0422		215.0007	215.0007	9.1400e-003	0.0191	220.9086

BNSF Waterline Crossing - Orange County, Summer

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

3.4 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7272	6.2021	8.4250	0.0198		0.2596	0.2596		0.2422	0.2422		1,865.026 0	1,865.026 0	0.5707		1,879.293 5
Total	0.7272	6.2021	8.4250	0.0198	0.0000	0.2596	0.2596	0.0000	0.2422	0.2422		1,865.026 0	1,865.026 0	0.5707		1,879.293 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0277	1.5854	0.5435	7.4600e-003	0.2320	0.0102	0.2422	0.0635	9.7600e-003	0.0733		850.7961	850.7961	0.0858	0.1365	893.6128
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972
Total	0.0620	1.8137	0.9368	9.4800e-003	0.3822	0.0119	0.3940	0.1042	0.0113	0.1155		1,065.796 7	1,065.796 7	0.0950	0.1555	1,114.521 3

BNSF Waterline Crossing - Orange County, Summer

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7272	6.2021	8.4250	0.0198		0.2596	0.2596		0.2422	0.2422	0.0000	1,865.026 0	1,865.026 0	0.5707		1,879.293 5
Total	0.7272	6.2021	8.4250	0.0198	0.0000	0.2596	0.2596	0.0000	0.2422	0.2422	0.0000	1,865.026 0	1,865.026 0	0.5707		1,879.293 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0277	1.5854	0.5435	7.4600e-003	0.2320	0.0102	0.2422	0.0635	9.7600e-003	0.0733		850.7961	850.7961	0.0858	0.1365	893.6128
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972
Total	0.0620	1.8137	0.9368	9.4800e-003	0.3822	0.0119	0.3940	0.1042	0.0113	0.1155		1,065.796 7	1,065.796 7	0.0950	0.1555	1,114.521 3

BNSF Waterline Crossing - Orange County, Summer

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

3.5 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	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190		1,923.7396	1,923.7396	0.5897		1,938.4818
Total	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190		1,923.7396	1,923.7396	0.5897		1,938.4818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0800e-003	0.2804	0.1162	1.4400e-003	0.0512	1.4400e-003	0.0526	0.0147	1.3800e-003	0.0161		157.9595	157.9595	9.3900e-003	0.0227	164.9485
Worker	2.8200e-003	1.8000e-003	0.0306	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		9.6531	9.6531	2.1000e-004	2.1000e-004	9.7197
Total	0.0109	0.2822	0.1469	1.5300e-003	0.0623	1.5000e-003	0.0638	0.0177	1.4300e-003	0.0191		167.6126	167.6126	9.6000e-003	0.0229	174.6682

BNSF Waterline Crossing - Orange County, Summer

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190	0.0000	1,923.7396	1,923.7396	0.5897		1,938.4818
Total	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190	0.0000	1,923.7396	1,923.7396	0.5897		1,938.4818

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0800e-003	0.2804	0.1162	1.4400e-003	0.0512	1.4400e-003	0.0526	0.0147	1.3800e-003	0.0161		157.9595	157.9595	9.3900e-003	0.0227	164.9485
Worker	2.8200e-003	1.8000e-003	0.0306	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		9.6531	9.6531	2.1000e-004	2.1000e-004	9.7197
Total	0.0109	0.2822	0.1469	1.5300e-003	0.0623	1.5000e-003	0.0638	0.0177	1.4300e-003	0.0191		167.6126	167.6126	9.6000e-003	0.0229	174.6682

BNSF Waterline Crossing - Orange County, Summer

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

3.6 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	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951		796.5154	796.5154	0.2251		802.1434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951		796.5154	796.5154	0.2251		802.1434

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
Total	0.0286	0.2247	0.3321	1.8300e-003	0.1278	1.5400e-003	0.1293	0.0348	1.4500e-003	0.0362		195.6945	195.6945	8.7200e-003	0.0187	201.4691

BNSF Waterline Crossing - Orange County, Summer

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

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951	0.0000	796.5154	796.5154	0.2251		802.1434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951	0.0000	796.5154	796.5154	0.2251		802.1434

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0600e-003	0.2103	0.0872	1.0800e-003	0.0384	1.0800e-003	0.0394	0.0110	1.0300e-003	0.0121		118.4696	118.4696	7.0400e-003	0.0170	123.7114
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
Total	0.0286	0.2247	0.3321	1.8300e-003	0.1278	1.5400e-003	0.1293	0.0348	1.4500e-003	0.0362		195.6945	195.6945	8.7200e-003	0.0187	201.4691

BNSF Waterline Crossing - Orange County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942

BNSF Waterline Crossing - Orange County, Summer

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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

BNSF Waterline Crossing - Orange 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

	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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

BNSF Waterline Crossing - Orange 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

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	2.0300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

BNSF Waterline Crossing - Orange 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

	ROG	NOx	CO	SO2	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	2.0300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

BNSF Waterline Crossing - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

BNSF Waterline Crossing - Orange County, Winter

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

BNSF Waterline Crossing

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.10	2,960.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Estimated based on lineal feet of pipes
- Construction Phase - Based on project's anticipated schedule
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Off-road Equipment - Estimated
- Trips and VMT - Estimated
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation -

BNSF Waterline Crossing - Orange County, Winter

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

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1480	400
tblAreaCoating	Area_Nonresidential_Interior	4440	1200
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	1.00	66.00
tblConstructionPhase	NumDays	2.00	66.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	5.00	22.00
tblLandUse	LandUseSquareFeet	0.00	2,960.00
tblLandUse	LotAcreage	0.00	0.10
tblOffRoadEquipment	HorsePower	221.00	80.00
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	878.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

2.0 Emissions Summary

BNSF Waterline Crossing - Orange County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.7309	5.8673	7.1537	0.0134	0.1510	0.2854	0.4364	0.0385	0.2781	0.3165	0.0000	1,247.930 ₉	1,247.930 ₉	0.1547	0.0207	1,257.972 ₂
2023	0.9009	8.7639	9.3497	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,927.150 ₇	2,927.150 ₇	0.6656	0.1558	2,990.229 ₂
Maximum	0.9009	8.7639	9.3497	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,927.150 ₇	2,927.150 ₇	0.6656	0.1558	2,990.229 ₂

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.7309	5.8673	7.1537	0.0134	0.1391	0.2854	0.4245	0.0367	0.2781	0.3147	0.0000	1,247.930 ₉	1,247.930 ₉	0.1547	0.0207	1,257.972 ₂
2023	0.9009	8.7639	9.3497	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,927.150 ₆	2,927.150 ₆	0.6656	0.1558	2,990.229 ₂
Maximum	0.9009	8.7639	9.3497	0.0293	0.3822	0.3446	0.6536	0.1042	0.3204	0.3577	0.0000	2,927.150 ₆	2,927.150 ₆	0.6656	0.1558	2,990.229 ₂

BNSF Waterline Crossing - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	2.23	0.00	1.09	1.26	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00

BNSF Waterline Crossing - Orange 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0607	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

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	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0607	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

BNSF Waterline Crossing - Orange County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/14/2022	2/13/2023	5	44	
2	Site Preparation	Site Preparation	2/14/2023	5/16/2023	5	66	
3	Grading	Grading	5/17/2023	8/16/2023	5	66	
4	Building Construction	Building Construction	8/17/2023	11/16/2023	5	66	
5	Paving	Paving	11/17/2023	12/18/2023	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Signal Boards	1	24.00	6	0.82
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Bore/Drill Rigs	1	8.00	80	0.38
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Signal Boards	1	24.00	6	0.82

BNSF Waterline Crossing - Orange County, Winter

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

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Excavators	1	8.00	158	0.38
Grading	Signal Boards	1	24.00	6	0.82
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Signal Boards	1	24.00	6	0.82
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	24.00	6	0.82
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	3	8.00	6.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	878.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	1.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

BNSF Waterline Crossing - Orange County, Winter

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

3.2 Demolition - 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					
Fugitive Dust					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003			0.0000			0.0000
Off-Road	0.6945	5.5551	6.8057	0.0115		0.2822	0.2822		0.2750	0.2750		1,041.8445	1,041.8445	0.1451		1,045.4724
Total	0.6945	5.5551	6.8057	0.0115	0.0216	0.2822	0.3038	3.2700e-003	0.2750	0.2783		1,041.8445	1,041.8445	0.1451		1,045.4724

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6000e-004	0.0147	4.0300e-003	5.0000e-005	1.5900e-003	1.1000e-004	1.6900e-003	4.3000e-004	1.0000e-004	5.4000e-004		6.1478	6.1478	5.9000e-004	9.8000e-004	6.4559
Vendor	9.8400e-003	0.2798	0.0990	1.1400e-003	0.0384	2.6300e-003	0.0410	0.0110	2.5100e-003	0.0136		124.4536	124.4536	7.1200e-003	0.0179	129.9502
Worker	0.0262	0.0178	0.2450	7.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		75.4850	75.4850	1.8900e-003	1.8800e-003	76.0938
Total	0.0364	0.3122	0.3480	1.9300e-003	0.1294	3.2200e-003	0.1326	0.0352	3.0500e-003	0.0383		206.0864	206.0864	9.6000e-003	0.0207	212.4998

BNSF Waterline Crossing - Orange County, Winter

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.7200e-003	0.0000	9.7200e-003	1.4700e-003	0.0000	1.4700e-003			0.0000			0.0000
Off-Road	0.6945	5.5551	6.8057	0.0115		0.2822	0.2822		0.2750	0.2750	0.0000	1,041.8445	1,041.8445	0.1451		1,045.4724
Total	0.6945	5.5551	6.8057	0.0115	9.7200e-003	0.2822	0.2919	1.4700e-003	0.2750	0.2765	0.0000	1,041.8445	1,041.8445	0.1451		1,045.4724

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6000e-004	0.0147	4.0300e-003	5.0000e-005	1.5900e-003	1.1000e-004	1.6900e-003	4.3000e-004	1.0000e-004	5.4000e-004		6.1478	6.1478	5.9000e-004	9.8000e-004	6.4559
Vendor	9.8400e-003	0.2798	0.0990	1.1400e-003	0.0384	2.6300e-003	0.0410	0.0110	2.5100e-003	0.0136		124.4536	124.4536	7.1200e-003	0.0179	129.9502
Worker	0.0262	0.0178	0.2450	7.4000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		75.4850	75.4850	1.8900e-003	1.8800e-003	76.0938
Total	0.0364	0.3122	0.3480	1.9300e-003	0.1294	3.2200e-003	0.1326	0.0352	3.0500e-003	0.0383		206.0864	206.0864	9.6000e-003	0.0207	212.4998

BNSF Waterline Crossing - Orange County, Winter

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

3.2 Demolition - 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					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003			0.0000			0.0000
Off-Road	0.6572	5.1982	6.7917	0.0115		0.2460	0.2460		0.2399	0.2399		1,042.1828	1,042.1828	0.1421		1,045.7352
Total	0.6572	5.1982	6.7917	0.0115	0.0216	0.2460	0.2676	3.2700e-003	0.2399	0.2432		1,042.1828	1,042.1828	0.1421		1,045.7352

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8000e-004	0.0113	3.7500e-003	5.0000e-005	1.5900e-003	7.0000e-005	1.6600e-003	4.3000e-004	7.0000e-005	5.0000e-004		5.8194	5.8194	5.9000e-004	9.3000e-004	6.1122
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
Total	0.0307	0.2468	0.3219	1.8500e-003	0.1294	1.6200e-003	0.1310	0.0352	1.5300e-003	0.0367		197.9957	197.9957	9.3400e-003	0.0197	204.1067

BNSF Waterline Crossing - Orange County, Winter

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					9.7200e-003	0.0000	9.7200e-003	1.4700e-003	0.0000	1.4700e-003			0.0000			0.0000
Off-Road	0.6572	5.1982	6.7917	0.0115		0.2460	0.2460		0.2399	0.2399	0.0000	1,042.1828	1,042.1828	0.1421		1,045.7352
Total	0.6572	5.1982	6.7917	0.0115	9.7200e-003	0.2460	0.2557	1.4700e-003	0.2399	0.2414	0.0000	1,042.1828	1,042.1828	0.1421		1,045.7352

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8000e-004	0.0113	3.7500e-003	5.0000e-005	1.5900e-003	7.0000e-005	1.6600e-003	4.3000e-004	7.0000e-005	5.0000e-004		5.8194	5.8194	5.9000e-004	9.3000e-004	6.1122
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
Total	0.0307	0.2468	0.3219	1.8500e-003	0.1294	1.6200e-003	0.1310	0.0352	1.5300e-003	0.0367		197.9957	197.9957	9.3400e-003	0.0197	204.1067

BNSF Waterline Crossing - Orange County, Winter

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

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6125	5.4261	8.1387	0.0129		0.2480	0.2480		0.2315	0.2315		1,196.909 2	1,196.909 2	0.3546		1,205.774 6
Total	0.6125	5.4261	8.1387	0.0129	0.0000	0.2480	0.2480	0.0000	0.2315	0.2315		1,196.909 2	1,196.909 2	0.3546		1,205.774 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223
Total	0.0366	0.2394	0.3752	1.9800e-003	0.1502	1.6600e-003	0.1518	0.0407	1.5700e-003	0.0423		210.5595	210.5595	9.1800e-003	0.0192	216.5190

BNSF Waterline Crossing - Orange County, Winter

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6125	5.4261	8.1387	0.0129		0.2480	0.2480		0.2315	0.2315	0.0000	1,196.909 2	1,196.909 2	0.3546		1,205.774 6
Total	0.6125	5.4261	8.1387	0.0129	0.0000	0.2480	0.2480	0.0000	0.2315	0.2315	0.0000	1,196.909 2	1,196.909 2	0.3546		1,205.774 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	0.0000
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223
Total	0.0366	0.2394	0.3752	1.9800e-003	0.1502	1.6600e-003	0.1518	0.0407	1.5700e-003	0.0423		210.5595	210.5595	9.1800e-003	0.0192	216.5190

BNSF Waterline Crossing - Orange County, Winter

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

3.4 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7272	6.2021	8.4250	0.0198		0.2596	0.2596		0.2422	0.2422		1,865.026 0	1,865.026 0	0.5707		1,879.293 5
Total	0.7272	6.2021	8.4250	0.0198	0.0000	0.2596	0.2596	0.0000	0.2422	0.2422		1,865.026 0	1,865.026 0	0.5707		1,879.293 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0261	1.6528	0.5494	7.4700e-003	0.2320	0.0102	0.2422	0.0635	9.7900e-003	0.0733		851.5651	851.5651	0.0857	0.1366	894.4168
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223
Total	0.0627	1.8923	0.9246	9.4500e-003	0.3822	0.0119	0.3940	0.1042	0.0114	0.1156		1,062.124 6	1,062.124 6	0.0949	0.1558	1,110.935 7

BNSF Waterline Crossing - Orange County, Winter

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7272	6.2021	8.4250	0.0198		0.2596	0.2596		0.2422	0.2422	0.0000	1,865.026 0	1,865.026 0	0.5707		1,879.293 5
Total	0.7272	6.2021	8.4250	0.0198	0.0000	0.2596	0.2596	0.0000	0.2422	0.2422	0.0000	1,865.026 0	1,865.026 0	0.5707		1,879.293 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0261	1.6528	0.5494	7.4700e-003	0.2320	0.0102	0.2422	0.0635	9.7900e-003	0.0733		851.5651	851.5651	0.0857	0.1366	894.4168
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223
Total	0.0627	1.8923	0.9246	9.4500e-003	0.3822	0.0119	0.3940	0.1042	0.0114	0.1156		1,062.124 6	1,062.124 6	0.0949	0.1558	1,110.935 7

BNSF Waterline Crossing - Orange County, Winter

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

3.5 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	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190		1,923.7396	1,923.7396	0.5897		1,938.4818
Total	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190		1,923.7396	1,923.7396	0.5897		1,938.4818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2929	0.1200	1.4400e-003	0.0512	1.4500e-003	0.0526	0.0147	1.3800e-003	0.0161		158.1918	158.1918	9.3700e-003	0.0227	165.1956
Worker	3.0800e-003	1.9800e-003	0.0285	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		9.1916	9.1916	2.1000e-004	2.2000e-004	9.2622
Total	0.0109	0.2949	0.1485	1.5300e-003	0.0623	1.5100e-003	0.0638	0.0177	1.4300e-003	0.0191		167.3834	167.3834	9.5800e-003	0.0229	174.4578

BNSF Waterline Crossing - Orange County, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190	0.0000	1,923.7396	1,923.7396	0.5897		1,938.4818
Total	0.8900	8.4690	7.0017	0.0204		0.3431	0.3431		0.3190	0.3190	0.0000	1,923.7396	1,923.7396	0.5897		1,938.4818

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2929	0.1200	1.4400e-003	0.0512	1.4500e-003	0.0526	0.0147	1.3800e-003	0.0161		158.1918	158.1918	9.3700e-003	0.0227	165.1956
Worker	3.0800e-003	1.9800e-003	0.0285	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		9.1916	9.1916	2.1000e-004	2.2000e-004	9.2622
Total	0.0109	0.2949	0.1485	1.5300e-003	0.0623	1.5100e-003	0.0638	0.0177	1.4300e-003	0.0191		167.3834	167.3834	9.5800e-003	0.0229	174.4578

BNSF Waterline Crossing - Orange County, Winter

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

3.6 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	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951		796.5154	796.5154	0.2251		802.1434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951		796.5154	796.5154	0.2251		802.1434

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
Total	0.0305	0.2355	0.3182	1.8000e-003	0.1278	1.5500e-003	0.1293	0.0348	1.4600e-003	0.0362		192.1764	192.1764	8.7500e-003	0.0188	197.9945

BNSF Waterline Crossing - Orange County, Winter

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

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951	0.0000	796.5154	796.5154	0.2251		802.1434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4965	4.2913	5.3120	8.7800e-003		0.2085	0.2085		0.1951	0.1951	0.0000	796.5154	796.5154	0.2251		802.1434

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8500e-003	0.2197	0.0900	1.0800e-003	0.0384	1.0900e-003	0.0395	0.0110	1.0400e-003	0.0121		118.6439	118.6439	7.0300e-003	0.0170	123.8967
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
Total	0.0305	0.2355	0.3182	1.8000e-003	0.1278	1.5500e-003	0.1293	0.0348	1.4600e-003	0.0362		192.1764	192.1764	8.7500e-003	0.0188	197.9945

BNSF Waterline Crossing - Orange County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.544795	0.058861	0.186903	0.129401	0.024381	0.006522	0.014242	0.004855	0.000656	0.000385	0.024332	0.000723	0.003942

BNSF Waterline Crossing - Orange County, Winter

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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

BNSF Waterline Crossing - Orange 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

	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					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

BNSF Waterline Crossing - Orange 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

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	2.0300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

BNSF Waterline Crossing - Orange 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

	ROG	NOx	CO	SO2	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	2.0300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0586					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	0.0607	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

BNSF Waterline Crossing - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
