

## **Appendix B. Air Quality/Greenhouse Gas Model Outputs**

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Arvin SMP Worst Case Construction Year - Kern-San Joaquin County, Annual

**Arvin SMP Worst Case Construction Year**  
**Kern-San Joaquin County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.60	Acre	0.60	26,136.00	0
Unrefrigerated Warehouse-No Rail	5.00	1000sqft	0.11	5,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	3			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Adjusted PS phases to extend through one year and lengthened pipeline installation to one year.

Off-road Equipment - Reduced cement mixers to one

Off-road Equipment - Added paving equipment to pipeline installation for roadway replacement

Grading - Added worst-case quantity calculated for maximum of 8,930 LF of trenched pipeline

Demolition -

Trips and VMT - Estimated haul trip lengths for excavated material using 16 CY truck capacity

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	132.00
tblConstructionPhase	NumDays	10.00	32.00
tblConstructionPhase	NumDays	2.00	32.00
tblConstructionPhase	NumDays	5.00	32.00
tblConstructionPhase	NumDays	1.00	32.00
tblConstructionPhase	NumDays	2.00	261.00
tblConstructionPhase	PhaseEndDate	12/4/2020	5/14/2021
tblConstructionPhase	PhaseEndDate	7/14/2020	8/13/2020
tblConstructionPhase	PhaseEndDate	7/17/2020	11/11/2020
tblConstructionPhase	PhaseEndDate	12/11/2020	6/29/2021
tblConstructionPhase	PhaseEndDate	7/15/2020	9/28/2020
tblConstructionPhase	PhaseStartDate	7/18/2020	11/12/2020
tblConstructionPhase	PhaseStartDate	7/16/2020	9/29/2020
tblConstructionPhase	PhaseStartDate	12/5/2020	5/15/2021
tblConstructionPhase	PhaseStartDate	7/15/2020	8/14/2020
tblGrading	AcresOfGrading	0.00	0.11
tblGrading	AcresOfGrading	16.00	0.11
tblGrading	AcresOfGrading	0.00	0.60
tblGrading	MaterialExported	0.00	4,014.00
tblGrading	MaterialImported	0.00	4,014.00
tblOffRoadEquipment	HorsePower	132.00	130.00
tblOffRoadEquipment	LoadFactor	0.36	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	23.00	0.00

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**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					
2020	0.0580	0.5592	0.4682	8.5000e-004	0.0232	0.0298	0.0530	9.2800e-003	0.0280	0.0372	0.0000	74.5262	74.5262	0.0169	0.0000	74.9494
2021	0.1330	1.2704	1.3116	2.4300e-003	0.0819	0.0647	0.1466	0.0358	0.0605	0.0962	0.0000	215.1621	215.1621	0.0476	0.0000	216.3513
2022	0.0715	0.6651	0.8010	1.5300e-003	0.0692	0.0313	0.1005	0.0320	0.0296	0.0616	0.0000	135.3000	135.3000	0.0263	0.0000	135.9584
<b>Maximum</b>	<b>0.1330</b>	<b>1.2704</b>	<b>1.3116</b>	<b>2.4300e-003</b>	<b>0.0819</b>	<b>0.0647</b>	<b>0.1466</b>	<b>0.0358</b>	<b>0.0605</b>	<b>0.0962</b>	<b>0.0000</b>	<b>215.1621</b>	<b>215.1621</b>	<b>0.0476</b>	<b>0.0000</b>	<b>216.3513</b>

**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					
2020	0.0580	0.5592	0.4682	8.5000e-004	0.0232	0.0298	0.0530	9.2800e-003	0.0280	0.0372	0.0000	74.5262	74.5262	0.0169	0.0000	74.9493
2021	0.1330	1.2704	1.3116	2.4300e-003	0.0819	0.0647	0.1466	0.0358	0.0605	0.0962	0.0000	215.1619	215.1619	0.0476	0.0000	216.3511
2022	0.0715	0.6651	0.8010	1.5300e-003	0.0692	0.0313	0.1005	0.0320	0.0296	0.0616	0.0000	135.2999	135.2999	0.0263	0.0000	135.9582
<b>Maximum</b>	<b>0.1330</b>	<b>1.2704</b>	<b>1.3116</b>	<b>2.4300e-003</b>	<b>0.0819</b>	<b>0.0647</b>	<b>0.1466</b>	<b>0.0358</b>	<b>0.0605</b>	<b>0.0962</b>	<b>0.0000</b>	<b>215.1619</b>	<b>215.1619</b>	<b>0.0476</b>	<b>0.0000</b>	<b>216.3511</b>

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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	0.00	0.00	0.00	0.00	0.00	0.00	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)
1	7-1-2020	9-30-2020	0.2957	0.2957
2	10-1-2020	12-31-2020	0.3192	0.3192
3	1-1-2021	3-31-2021	0.3028	0.3028
4	4-1-2021	6-30-2021	0.2566	0.2566
5	7-1-2021	9-30-2021	0.4204	0.4204
6	10-1-2021	12-31-2021	0.4213	0.4213
7	1-1-2022	3-31-2022	0.3674	0.3674
8	4-1-2022	6-30-2022	0.3707	0.3707
		Highest	0.4213	0.4213

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**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	0.0252	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Energy	4.9000e-004	4.4300e-003	3.7200e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	21.1435	21.1435	8.3000e-004	2.4000e-004	21.2361
Mobile	3.4300e-003	0.0452	0.0362	2.2000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5400e-003	0.0000	20.4909	20.4909	1.2200e-003	0.0000	20.5213
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.3668	1.8201	2.1869	0.0378	9.1000e-004	3.4011
<b>Total</b>	<b>0.0292</b>	<b>0.0496</b>	<b>0.0400</b>	<b>2.5000e-004</b>	<b>0.0125</b>	<b>5.2000e-004</b>	<b>0.0131</b>	<b>3.3700e-003</b>	<b>5.1000e-004</b>	<b>3.8800e-003</b>	<b>1.3209</b>	<b>43.4546</b>	<b>44.7755</b>	<b>0.0962</b>	<b>1.1500e-003</b>	<b>47.5222</b>



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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	0.0252	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Energy	4.9000e-004	4.4300e-003	3.7200e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	21.1435	21.1435	8.3000e-004	2.4000e-004	21.2361
Mobile	3.4300e-003	0.0452	0.0362	2.2000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5400e-003	0.0000	20.4909	20.4909	1.2200e-003	0.0000	20.5213
Waste						0.0000	0.0000		0.0000	0.0000	0.9541	0.0000	0.9541	0.0564	0.0000	2.3636
Water						0.0000	0.0000		0.0000	0.0000	0.3668	1.8201	2.1869	0.0378	9.1000e-004	3.4011
<b>Total</b>	<b>0.0292</b>	<b>0.0496</b>	<b>0.0400</b>	<b>2.5000e-004</b>	<b>0.0125</b>	<b>5.2000e-004</b>	<b>0.0131</b>	<b>3.3700e-003</b>	<b>5.1000e-004</b>	<b>3.8800e-003</b>	<b>1.3209</b>	<b>43.4546</b>	<b>44.7755</b>	<b>0.0962</b>	<b>1.1500e-003</b>	<b>47.5222</b>

	ROG	NOx	CO	SO2	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**

## Arvin SMP Worst Case Construction Year - Kern-San Joaquin County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition - PS	Demolition	7/1/2020	8/13/2020	5	32	
2	Site Preparation - PS	Site Preparation	8/14/2020	9/28/2020	5	32	
3	Grading - PS	Grading	9/29/2020	11/11/2020	5	32	
4	Building Construction - PS	Building Construction	11/12/2020	5/14/2021	5	132	
5	Paving - PS	Paving	5/15/2021	6/29/2021	5	32	
6	Pipeline Installation	Grading	7/1/2021	6/30/2022	5	261	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0.6**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pipeline Installation	Concrete/Industrial Saws	1	8.00	81	0.73
Paving - PS	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition - PS	Concrete/Industrial Saws	1	8.00	81	0.73
Grading - PS	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction - PS	Cranes	1	4.00	231	0.29
Building Construction - PS	Forklifts	2	6.00	89	0.20
Site Preparation - PS	Graders	1	8.00	187	0.41
Paving - PS	Pavers	1	7.00	130	0.42
Paving - PS	Rollers	1	7.00	80	0.38
Demolition - PS	Rubber Tired Dozers	1	1.00	247	0.40
Grading - PS	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction - PS	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition - PS	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading - PS	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving - PS	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation - PS	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipeline Installation	Rubber Tired Dozers	1	1.00	247	0.40
Pipeline Installation	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Pipeline Installation	Paving Equipment	2	6.00	130	0.42

**Trips and VMT**

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition - PS	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - PS	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading - PS	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - PS	5	13.00	5.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving - PS	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation	6	15.00	0.00	1,004.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - PS - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.5000e-003	0.0000	2.5000e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1260	0.1220	1.9000e-004		7.4800e-003	7.4800e-003		7.1300e-003	7.1300e-003	0.0000	16.6521	16.6521	3.1500e-003	0.0000	16.7308
<b>Total</b>	<b>0.0139</b>	<b>0.1260</b>	<b>0.1220</b>	<b>1.9000e-004</b>	<b>2.5000e-003</b>	<b>7.4800e-003</b>	<b>9.9800e-003</b>	<b>3.8000e-004</b>	<b>7.1300e-003</b>	<b>7.5100e-003</b>	<b>0.0000</b>	<b>16.6521</b>	<b>16.6521</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>16.7308</b>

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**3.2 Demolition - PS - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.2000e-004	6.0100e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.8208	1.8208	5.0000e-005	0.0000	1.8220
<b>Total</b>	<b>8.6000e-004</b>	<b>6.2000e-004</b>	<b>6.0100e-003</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>2.0200e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.8208</b>	<b>1.8208</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8220</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.5000e-003	0.0000	2.5000e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1260	0.1220	1.9000e-004		7.4800e-003	7.4800e-003		7.1300e-003	7.1300e-003	0.0000	16.6521	16.6521	3.1500e-003	0.0000	16.7308
<b>Total</b>	<b>0.0139</b>	<b>0.1260</b>	<b>0.1220</b>	<b>1.9000e-004</b>	<b>2.5000e-003</b>	<b>7.4800e-003</b>	<b>9.9800e-003</b>	<b>3.8000e-004</b>	<b>7.1300e-003</b>	<b>7.5100e-003</b>	<b>0.0000</b>	<b>16.6521</b>	<b>16.6521</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>16.7308</b>

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**3.2 Demolition - PS - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.2000e-004	6.0100e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.8208	1.8208	5.0000e-005	0.0000	1.8220
<b>Total</b>	<b>8.6000e-004</b>	<b>6.2000e-004</b>	<b>6.0100e-003</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>2.0200e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.8208</b>	<b>1.8208</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8220</b>

**3.3 Site Preparation - PS - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0110	0.1349	0.0655	1.6000e-004		5.3700e-003	5.3700e-003		4.9400e-003	4.9400e-003	0.0000	13.6947	13.6947	4.4300e-003	0.0000	13.8054
<b>Total</b>	<b>0.0110</b>	<b>0.1349</b>	<b>0.0655</b>	<b>1.6000e-004</b>	<b>6.0000e-005</b>	<b>5.3700e-003</b>	<b>5.4300e-003</b>	<b>1.0000e-005</b>	<b>4.9400e-003</b>	<b>4.9500e-003</b>	<b>0.0000</b>	<b>13.6947</b>	<b>13.6947</b>	<b>4.4300e-003</b>	<b>0.0000</b>	<b>13.8054</b>

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**3.3 Site Preparation - PS - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	3.1000e-004	3.0000e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.9104	0.9104	2.0000e-005	0.0000	0.9110
<b>Total</b>	<b>4.3000e-004</b>	<b>3.1000e-004</b>	<b>3.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9104</b>	<b>0.9104</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9110</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0110	0.1349	0.0655	1.6000e-004		5.3700e-003	5.3700e-003		4.9400e-003	4.9400e-003	0.0000	13.6947	13.6947	4.4300e-003	0.0000	13.8054
<b>Total</b>	<b>0.0110</b>	<b>0.1349</b>	<b>0.0655</b>	<b>1.6000e-004</b>	<b>6.0000e-005</b>	<b>5.3700e-003</b>	<b>5.4300e-003</b>	<b>1.0000e-005</b>	<b>4.9400e-003</b>	<b>4.9500e-003</b>	<b>0.0000</b>	<b>13.6947</b>	<b>13.6947</b>	<b>4.4300e-003</b>	<b>0.0000</b>	<b>13.8054</b>

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**3.3 Site Preparation - PS - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	3.1000e-004	3.0000e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.9104	0.9104	2.0000e-005	0.0000	0.9110
<b>Total</b>	<b>4.3000e-004</b>	<b>3.1000e-004</b>	<b>3.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9104</b>	<b>0.9104</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9110</b>

**3.4 Grading - PS - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0121	0.0000	0.0121	6.6300e-003	0.0000	6.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1260	0.1220	1.9000e-004		7.4800e-003	7.4800e-003		7.1300e-003	7.1300e-003	0.0000	16.6521	16.6521	3.1500e-003	0.0000	16.7308
<b>Total</b>	<b>0.0139</b>	<b>0.1260</b>	<b>0.1220</b>	<b>1.9000e-004</b>	<b>0.0121</b>	<b>7.4800e-003</b>	<b>0.0196</b>	<b>6.6300e-003</b>	<b>7.1300e-003</b>	<b>0.0138</b>	<b>0.0000</b>	<b>16.6521</b>	<b>16.6521</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>16.7308</b>



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**3.4 Grading - PS - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.2000e-004	6.0100e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.8208	1.8208	5.0000e-005	0.0000	1.8220
<b>Total</b>	<b>8.6000e-004</b>	<b>6.2000e-004</b>	<b>6.0100e-003</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>2.0200e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.8208</b>	<b>1.8208</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8220</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0121	0.0000	0.0121	6.6300e-003	0.0000	6.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1260	0.1220	1.9000e-004		7.4800e-003	7.4800e-003		7.1300e-003	7.1300e-003	0.0000	16.6521	16.6521	3.1500e-003	0.0000	16.7308
<b>Total</b>	<b>0.0139</b>	<b>0.1260</b>	<b>0.1220</b>	<b>1.9000e-004</b>	<b>0.0121</b>	<b>7.4800e-003</b>	<b>0.0196</b>	<b>6.6300e-003</b>	<b>7.1300e-003</b>	<b>0.0138</b>	<b>0.0000</b>	<b>16.6521</b>	<b>16.6521</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>16.7308</b>

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**3.4 Grading - PS - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.2000e-004	6.0100e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.8208	1.8208	5.0000e-005	0.0000	1.8220
<b>Total</b>	<b>8.6000e-004</b>	<b>6.2000e-004</b>	<b>6.0100e-003</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>2.0200e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.8208</b>	<b>1.8208</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8220</b>

**3.5 Building Construction - PS - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0155	0.1593	0.1330	2.0000e-004		9.4000e-003	9.4000e-003		8.6500e-003	8.6500e-003	0.0000	18.0109	18.0109	5.8300e-003	0.0000	18.1565
<b>Total</b>	<b>0.0155</b>	<b>0.1593</b>	<b>0.1330</b>	<b>2.0000e-004</b>		<b>9.4000e-003</b>	<b>9.4000e-003</b>		<b>8.6500e-003</b>	<b>8.6500e-003</b>	<b>0.0000</b>	<b>18.0109</b>	<b>18.0109</b>	<b>5.8300e-003</b>	<b>0.0000</b>	<b>18.1565</b>

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**3.5 Building Construction - PS - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4000e-004	0.0106	2.0400e-003	2.0000e-005	5.4000e-004	6.0000e-005	6.0000e-004	1.6000e-004	5.0000e-005	2.1000e-004	0.0000	2.3015	2.3015	2.0000e-004	0.0000	2.3064
Worker	1.2600e-003	9.0000e-004	8.7800e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.6630	2.6630	7.0000e-005	0.0000	2.6646
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0115</b>	<b>0.0108</b>	<b>5.0000e-005</b>	<b>3.4700e-003</b>	<b>8.0000e-005</b>	<b>3.5500e-003</b>	<b>9.4000e-004</b>	<b>7.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>4.9645</b>	<b>4.9645</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>4.9710</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0155	0.1593	0.1330	2.0000e-004		9.4000e-003	9.4000e-003		8.6500e-003	8.6500e-003	0.0000	18.0109	18.0109	5.8300e-003	0.0000	18.1565
<b>Total</b>	<b>0.0155</b>	<b>0.1593</b>	<b>0.1330</b>	<b>2.0000e-004</b>		<b>9.4000e-003</b>	<b>9.4000e-003</b>		<b>8.6500e-003</b>	<b>8.6500e-003</b>	<b>0.0000</b>	<b>18.0109</b>	<b>18.0109</b>	<b>5.8300e-003</b>	<b>0.0000</b>	<b>18.1565</b>

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**3.5 Building Construction - PS - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4000e-004	0.0106	2.0400e-003	2.0000e-005	5.4000e-004	6.0000e-005	6.0000e-004	1.6000e-004	5.0000e-005	2.1000e-004	0.0000	2.3015	2.3015	2.0000e-004	0.0000	2.3064
Worker	1.2600e-003	9.0000e-004	8.7800e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.6630	2.6630	7.0000e-005	0.0000	2.6646
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0115</b>	<b>0.0108</b>	<b>5.0000e-005</b>	<b>3.4700e-003</b>	<b>8.0000e-005</b>	<b>3.5500e-003</b>	<b>9.4000e-004</b>	<b>7.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>4.9645</b>	<b>4.9645</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>4.9710</b>

**3.5 Building Construction - PS - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0372	0.3833	0.3487	5.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	48.0394	48.0394	0.0155	0.0000	48.4278
<b>Total</b>	<b>0.0372</b>	<b>0.3833</b>	<b>0.3487</b>	<b>5.5000e-004</b>		<b>0.0215</b>	<b>0.0215</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>48.0394</b>	<b>48.0394</b>	<b>0.0155</b>	<b>0.0000</b>	<b>48.4278</b>

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**3.5 Building Construction - PS - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.5000e-004	0.0255	4.7700e-003	6.0000e-005	1.4500e-003	6.0000e-005	1.5100e-003	4.2000e-004	6.0000e-005	4.8000e-004	0.0000	6.0798	6.0798	5.0000e-004	0.0000	6.0923
Worker	3.1000e-003	2.1400e-003	0.0213	8.0000e-005	7.8200e-003	5.0000e-005	7.8700e-003	2.0800e-003	5.0000e-005	2.1200e-003	0.0000	6.8536	6.8536	1.6000e-004	0.0000	6.8575
<b>Total</b>	<b>3.8500e-003</b>	<b>0.0276</b>	<b>0.0261</b>	<b>1.4000e-004</b>	<b>9.2700e-003</b>	<b>1.1000e-004</b>	<b>9.3800e-003</b>	<b>2.5000e-003</b>	<b>1.1000e-004</b>	<b>2.6000e-003</b>	<b>0.0000</b>	<b>12.9334</b>	<b>12.9334</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>12.9498</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0372	0.3833	0.3487	5.5000e-004		0.0215	0.0215		0.0198	0.0198	0.0000	48.0393	48.0393	0.0155	0.0000	48.4278
<b>Total</b>	<b>0.0372</b>	<b>0.3833</b>	<b>0.3487</b>	<b>5.5000e-004</b>		<b>0.0215</b>	<b>0.0215</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>48.0393</b>	<b>48.0393</b>	<b>0.0155</b>	<b>0.0000</b>	<b>48.4278</b>

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**3.5 Building Construction - PS - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.5000e-004	0.0255	4.7700e-003	6.0000e-005	1.4500e-003	6.0000e-005	1.5100e-003	4.2000e-004	6.0000e-005	4.8000e-004	0.0000	6.0798	6.0798	5.0000e-004	0.0000	6.0923
Worker	3.1000e-003	2.1400e-003	0.0213	8.0000e-005	7.8200e-003	5.0000e-005	7.8700e-003	2.0800e-003	5.0000e-005	2.1200e-003	0.0000	6.8536	6.8536	1.6000e-004	0.0000	6.8575
<b>Total</b>	<b>3.8500e-003</b>	<b>0.0276</b>	<b>0.0261</b>	<b>1.4000e-004</b>	<b>9.2700e-003</b>	<b>1.1000e-004</b>	<b>9.3800e-003</b>	<b>2.5000e-003</b>	<b>1.1000e-004</b>	<b>2.6000e-003</b>	<b>0.0000</b>	<b>12.9334</b>	<b>12.9334</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>12.9498</b>

**3.6 Paving - PS - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.4300e-003	0.0942	0.1023	1.5000e-004		5.1400e-003	5.1400e-003		4.7400e-003	4.7400e-003	0.0000	13.3782	13.3782	4.2100e-003	0.0000	13.4833
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0102</b>	<b>0.0942</b>	<b>0.1023</b>	<b>1.5000e-004</b>		<b>5.1400e-003</b>	<b>5.1400e-003</b>		<b>4.7400e-003</b>	<b>4.7400e-003</b>	<b>0.0000</b>	<b>13.3782</b>	<b>13.3782</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.4833</b>

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**3.6 Paving - PS - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.5000e-004	5.4700e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7573	1.7573	4.0000e-005	0.0000	1.7583
<b>Total</b>	<b>7.9000e-004</b>	<b>5.5000e-004</b>	<b>5.4700e-003</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>2.0200e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7573</b>	<b>1.7573</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7583</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.4300e-003	0.0942	0.1023	1.5000e-004		5.1400e-003	5.1400e-003		4.7400e-003	4.7400e-003	0.0000	13.3781	13.3781	4.2100e-003	0.0000	13.4833
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0102</b>	<b>0.0942</b>	<b>0.1023</b>	<b>1.5000e-004</b>		<b>5.1400e-003</b>	<b>5.1400e-003</b>		<b>4.7400e-003</b>	<b>4.7400e-003</b>	<b>0.0000</b>	<b>13.3781</b>	<b>13.3781</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.4833</b>

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**3.6 Paving - PS - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.5000e-004	5.4700e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7573	1.7573	4.0000e-005	0.0000	1.7583
<b>Total</b>	<b>7.9000e-004</b>	<b>5.5000e-004</b>	<b>5.4700e-003</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>2.0200e-003</b>	<b>5.3000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7573</b>	<b>1.7573</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.7583</b>

**3.7 Pipeline Installation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0506	0.0000	0.0506	0.0274	0.0000	0.0274	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0742	0.6970	0.7855	1.2500e-003		0.0377	0.0377		0.0356	0.0356	0.0000	108.9606	108.9606	0.0258	0.0000	109.6062
<b>Total</b>	<b>0.0742</b>	<b>0.6970</b>	<b>0.7855</b>	<b>1.2500e-003</b>	<b>0.0506</b>	<b>0.0377</b>	<b>0.0883</b>	<b>0.0274</b>	<b>0.0356</b>	<b>0.0630</b>	<b>0.0000</b>	<b>108.9606</b>	<b>108.9606</b>	<b>0.0258</b>	<b>0.0000</b>	<b>109.6062</b>



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**3.7 Pipeline Installation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8700e-003	0.0644	9.6800e-003	2.0000e-004	7.5900e-003	2.0000e-004	7.7900e-003	1.9900e-003	1.9000e-004	2.1800e-003	0.0000	19.2198	19.2198	1.0500e-003	0.0000	19.2462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9200e-003	3.4000e-003	0.0339	1.2000e-004	0.0124	8.0000e-005	0.0125	3.2900e-003	8.0000e-005	3.3700e-003	0.0000	10.8734	10.8734	2.5000e-004	0.0000	10.8797
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0678</b>	<b>0.0435</b>	<b>3.2000e-004</b>	<b>0.0200</b>	<b>2.8000e-004</b>	<b>0.0203</b>	<b>5.2800e-003</b>	<b>2.7000e-004</b>	<b>5.5500e-003</b>	<b>0.0000</b>	<b>30.0932</b>	<b>30.0932</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>30.1259</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0506	0.0000	0.0506	0.0274	0.0000	0.0274	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0742	0.6970	0.7855	1.2500e-003		0.0377	0.0377		0.0356	0.0356	0.0000	108.9605	108.9605	0.0258	0.0000	109.6061
<b>Total</b>	<b>0.0742</b>	<b>0.6970</b>	<b>0.7855</b>	<b>1.2500e-003</b>	<b>0.0506</b>	<b>0.0377</b>	<b>0.0883</b>	<b>0.0274</b>	<b>0.0356</b>	<b>0.0630</b>	<b>0.0000</b>	<b>108.9605</b>	<b>108.9605</b>	<b>0.0258</b>	<b>0.0000</b>	<b>109.6061</b>

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**3.7 Pipeline Installation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8700e-003	0.0644	9.6800e-003	2.0000e-004	7.5900e-003	2.0000e-004	7.7900e-003	1.9900e-003	1.9000e-004	2.1800e-003	0.0000	19.2198	19.2198	1.0500e-003	0.0000	19.2462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9200e-003	3.4000e-003	0.0339	1.2000e-004	0.0124	8.0000e-005	0.0125	3.2900e-003	8.0000e-005	3.3700e-003	0.0000	10.8734	10.8734	2.5000e-004	0.0000	10.8797
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0678</b>	<b>0.0435</b>	<b>3.2000e-004</b>	<b>0.0200</b>	<b>2.8000e-004</b>	<b>0.0203</b>	<b>5.2800e-003</b>	<b>2.7000e-004</b>	<b>5.5500e-003</b>	<b>0.0000</b>	<b>30.0932</b>	<b>30.0932</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>30.1259</b>

**3.7 Pipeline Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0495	0.0000	0.0495	0.0268	0.0000	0.0268	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0654	0.6047	0.7617	1.2200e-003		0.0311	0.0311		0.0294	0.0294	0.0000	106.5130	106.5130	0.0251	0.0000	107.1411
<b>Total</b>	<b>0.0654</b>	<b>0.6047</b>	<b>0.7617</b>	<b>1.2200e-003</b>	<b>0.0495</b>	<b>0.0311</b>	<b>0.0806</b>	<b>0.0268</b>	<b>0.0294</b>	<b>0.0562</b>	<b>0.0000</b>	<b>106.5130</b>	<b>106.5130</b>	<b>0.0251</b>	<b>0.0000</b>	<b>107.1411</b>

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**3.7 Pipeline Installation - 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	1.7200e-003	0.0574	9.0900e-003	1.9000e-004	7.5600e-003	1.6000e-004	7.7300e-003	1.9800e-003	1.6000e-004	2.1400e-003	0.0000	18.5471	18.5471	9.9000e-004	0.0000	18.5719
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4600e-003	2.9700e-003	0.0302	1.1000e-004	0.0121	8.0000e-005	0.0122	3.2200e-003	7.0000e-005	3.2900e-003	0.0000	10.2400	10.2400	2.2000e-004	0.0000	10.2454
<b>Total</b>	<b>6.1800e-003</b>	<b>0.0604</b>	<b>0.0393</b>	<b>3.0000e-004</b>	<b>0.0197</b>	<b>2.4000e-004</b>	<b>0.0199</b>	<b>5.2000e-003</b>	<b>2.3000e-004</b>	<b>5.4300e-003</b>	<b>0.0000</b>	<b>28.7871</b>	<b>28.7871</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>28.8173</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0495	0.0000	0.0495	0.0268	0.0000	0.0268	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0654	0.6047	0.7617	1.2200e-003		0.0311	0.0311		0.0294	0.0294	0.0000	106.5128	106.5128	0.0251	0.0000	107.1409
<b>Total</b>	<b>0.0654</b>	<b>0.6047</b>	<b>0.7617</b>	<b>1.2200e-003</b>	<b>0.0495</b>	<b>0.0311</b>	<b>0.0806</b>	<b>0.0268</b>	<b>0.0294</b>	<b>0.0562</b>	<b>0.0000</b>	<b>106.5128</b>	<b>106.5128</b>	<b>0.0251</b>	<b>0.0000</b>	<b>107.1409</b>

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**3.7 Pipeline Installation - 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	1.7200e-003	0.0574	9.0900e-003	1.9000e-004	7.5600e-003	1.6000e-004	7.7300e-003	1.9800e-003	1.6000e-004	2.1400e-003	0.0000	18.5471	18.5471	9.9000e-004	0.0000	18.5719
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4600e-003	2.9700e-003	0.0302	1.1000e-004	0.0121	8.0000e-005	0.0122	3.2200e-003	7.0000e-005	3.2900e-003	0.0000	10.2400	10.2400	2.2000e-004	0.0000	10.2454
<b>Total</b>	<b>6.1800e-003</b>	<b>0.0604</b>	<b>0.0393</b>	<b>3.0000e-004</b>	<b>0.0197</b>	<b>2.4000e-004</b>	<b>0.0199</b>	<b>5.2000e-003</b>	<b>2.3000e-004</b>	<b>5.4300e-003</b>	<b>0.0000</b>	<b>28.7871</b>	<b>28.7871</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>28.8173</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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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
Category	tons/yr										MT/yr					
Mitigated	3.4300e-003	0.0452	0.0362	2.2000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5400e-003	0.0000	20.4909	20.4909	1.2200e-003	0.0000	20.5213
Unmitigated	3.4300e-003	0.0452	0.0362	2.2000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5400e-003	0.0000	20.4909	20.4909	1.2200e-003	0.0000	20.5213

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	8.40	8.40	8.40	32,453	32,453
Total	8.40	8.40	8.40	32,453	32,453

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.70	6.60	6.60	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.483371	0.030380	0.169336	0.116038	0.018013	0.005928	0.019788	0.146278	0.001620	0.001664	0.005839	0.000931	0.000816
Unrefrigerated Warehouse-No Rail	0.483371	0.030380	0.169336	0.116038	0.018013	0.005928	0.019788	0.146278	0.001620	0.001664	0.005839	0.000931	0.000816

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**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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.3194	16.3194	7.4000e-004	1.5000e-004	16.3834
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.3194	16.3194	7.4000e-004	1.5000e-004	16.3834
NaturalGas Mitigated	4.9000e-004	4.4300e-003	3.7200e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8241	4.8241	9.0000e-005	9.0000e-005	4.8528
NaturalGas Unmitigated	4.9000e-004	4.4300e-003	3.7200e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8241	4.8241	9.0000e-005	9.0000e-005	4.8528

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	90400	4.9000e-004	4.4300e-003	3.7200e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8241	4.8241	9.0000e-005	9.0000e-005	4.8528
<b>Total</b>		<b>4.9000e-004</b>	<b>4.4300e-003</b>	<b>3.7200e-003</b>	<b>3.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>4.8241</b>	<b>4.8241</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.8528</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	90400	4.9000e-004	4.4300e-003	3.7200e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8241	4.8241	9.0000e-005	9.0000e-005	4.8528
<b>Total</b>		<b>4.9000e-004</b>	<b>4.4300e-003</b>	<b>3.7200e-003</b>	<b>3.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>4.8241</b>	<b>4.8241</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.8528</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	9147.6	2.6611	1.2000e-004	2.0000e-005	2.6716
Unrefrigerated Warehouse-No Rail	46950	13.6583	6.2000e-004	1.3000e-004	13.7118
<b>Total</b>		<b>16.3194</b>	<b>7.4000e-004</b>	<b>1.5000e-004</b>	<b>16.3834</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	9147.6	2.6611	1.2000e-004	2.0000e-005	2.6716
Unrefrigerated Warehouse-No Rail	46950	13.6583	6.2000e-004	1.3000e-004	13.7118
<b>Total</b>		<b>16.3194</b>	<b>7.4000e-004</b>	<b>1.5000e-004</b>	<b>16.3834</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Arvin SMP Worst Case Construction Year - Kern-San Joaquin County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0252	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Unmitigated	0.0252	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

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	4.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0212					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
<b>Total</b>	<b>0.0252</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>

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**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	4.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0212					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
<b>Total</b>	<b>0.0252</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Arvin SMP Worst Case Construction Year - Kern-San Joaquin County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.1869	0.0378	9.1000e-004	3.4011
Unmitigated	2.1869	0.0378	9.1000e-004	3.4011

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.15625 / 0	2.1869	0.0378	9.1000e-004	3.4011
<b>Total</b>		<b>2.1869</b>	<b>0.0378</b>	<b>9.1000e-004</b>	<b>3.4011</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.15625 / 0	2.1869	0.0378	9.1000e-004	3.4011
<b>Total</b>		<b>2.1869</b>	<b>0.0378</b>	<b>9.1000e-004</b>	<b>3.4011</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9541	0.0564	0.0000	2.3636
Unmitigated	0.9541	0.0564	0.0000	2.3636

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
<b>Total</b>		<b>0.9541</b>	<b>0.0564</b>	<b>0.0000</b>	<b>2.3636</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	4.7	0.9541	0.0564	0.0000	2.3636
<b>Total</b>		<b>0.9541</b>	<b>0.0564</b>	<b>0.0000</b>	<b>2.3636</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Arvin SMP Worst Case Construction Year - Kern-San Joaquin County, Annual

**10.0 Stationary Equipment**

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**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**

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