

Appendix B

Air Quality Emissions and Greenhouse Gas Calculations

National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin

CRITERIA POLLUTANT	STANDARD	AVERAGING TIME	DESIGNATION ^{a)}	ATTAINMENT DATE ^{b)}
1-Hour Ozone	NAAQS	1979 1-Hour (0.12 ppm)	Nonattainment (Extreme)	2/6/2023 Originally 11/15/2010 (not attained) ^{e)}
	CAAQS	1-Hour (0.09 ppm)	Nonattainment	N/A
8-Hour Ozone^{d)}	NAAQS	1997 8-Hour (0.08 ppm)	Nonattainment (Extreme)	6/15/2024
	NAAQS	2008 8-Hour (0.075 ppm)	Nonattainment (Extreme)	7/20/2032
	NAAQS	2015 8-Hour (0.070 ppm)	Designations Pending	~2037
	CAAQS	8-Hour (0.070 ppm)	Nonattainment	Beyond 2032
CO	NAAQS	1-Hour (35 ppm) 8-Hour (9 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
	CAAQS	1-Hour (20 ppm) 8-Hour (9 ppm)	Attainment	6/11/2007 (attained)
NO₂^{e)}	NAAQS	1-Hour (0.10 ppm)	Unclassifiable/Attainment	N/A (attained)
	NAAQS	Annual (0.053 ppm)	Attainment (Maintenance)	9/22/1998 (attained)
	CAAQS	1-Hour (0.18 ppm) Annual (0.030 ppm)	Attainment	---
SO₂^{f)}	NAAQS	1-Hour (75 ppb)	Designations Pending (expect Uncl./Attainment)	N/A (attained)
	NAAQS	24-Hour (0.14 ppm) Annual (0.03 ppm)	Unclassifiable/Attainment	3/19/1979 (attained)
PM₁₀	NAAQS	1987 24-hour (150 µg/m ³)	Attainment (Maintenance) ^{g)}	7/26/2013 (attained)
	CAAQS	24-hour (50 µg/m ³) Annual (20 µg/m ³)	Nonattainment	N/A
PM_{2.5}^{h)}	NAAQS	2006 24-Hour (35 µg/m ³)	Nonattainment (Serious)	12/31/2019
	NAAQS	1997 Annual (15.0 µg/m ³)	Nonattainment	4/5/2015
	NAAQS	2012 Annual (12.0 µg/m ³)	Nonattainment (Serious)	12/31/2025
	CAAQS	Annual (12.0 µg/m ³)	Nonattainment	N/A

National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin

CRITERIA POLLUTANT	STANDARD	AVERAGING TIME	DESIGNATION ^{a)}	ATTAINMENT DATE ^{b)}
Lead	NAAQS	3-Months Rolling (0.15 µg/m ³)	Nonattainment (Partial) ⁱ⁾	12/31/2015
Hydrogen Sulfide (H ₂ S)	CAAQS	1-Hour (0.03 ppm/42 µg/m ³)	Attainment	---
Sulfates	CAAQS	24-Hour (25 µg/m ³)	Attainment	---
Vinyl Chloride	CAAQS	24-Hour (0.01 ppm/26 µg/m ³)	Attainment	---

- a) U.S. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassifiable/Attainment or Unclassifiable
- b) A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for attainment demonstration
- c) 1-hour O₃ standard (0.12 ppm) was revoked, effective June 15, 2005 ; however, the Basin has not attained this standard based on 2008-2010 data and is still subject to anti-backsliding requirements
- d) 1997 8-hour O₃ standard (0.08 ppm) was reduced (0.075 ppm), effective May 27, 2008; the revoked 1997 O₃ standard is still subject to anti-backsliding requirements
- e) New NO₂ 1-hour standard, effective August 2, 2010; attainment designations January 20, 2012; annual NO₂ standard retained
- f) The 1971 annual and 24-hour SO₂ standards were revoked, effective August 23, 2010; however, these 1971 standards will remain in effect until one year after U.S. EPA promulgates area designations for the 2010 SO₂ 1-hour standard. Area designations are still pending, with Basin expected to be designated Unclassifiable /Attainment.
- g) Annual PM₁₀ standard was revoked, effective December 18, 2006; 24-hour PM₁₀ NAAQS deadline was 12/31/2006; SCAQMD request for attainment redesignation and PM₁₀ maintenance plan was approved by U.S. EPA on June 26, 2013, effective July 26, 2013.
- h) Attainment deadline for the 2006 24-Hour PM_{2.5} NAAQS (designation effective December 14, 2009) is December 31, 2019 (end of the 10th calendar year after effective date of designations for Serious nonattainment areas). Annual PM_{2.5} standard was revised on January 15, 2013, effective March 18, 2013, from 15 to 12 µg/m³. Designations effective April 15, 2015, so Serious area attainment deadline is December 31, 2025.
- i) Partial Nonattainment designation – Los Angeles County portion of Basin only for near-source monitors. Expect to remain in attainment based on current monitoring data.



Top 4 Summary: Highest 4 Daily Maximum Hourly Nitrogen Dioxide Measurements

at West Los Angeles-VA Hospital



	2012		2013		2014	
	Date	Measurement	Date	Measurement	Date	Measurement
National:						
First High:	Nov 15	61.3	Nov 1	51.2	Dec 23	63.9
Second High:	Oct 17	59.1	Mar 1	50.9	Jan 3	61.0
Third High:	Mar 5	56.8	Feb 26	49.6	May 15	60.0
Fourth High:	Oct 18	56.7	Dec 17	49.2	Feb 13	59.1
California:						
First High:	Nov 15	61	Nov 1	51	Dec 23	63
Second High:	Oct 17	59	Mar 1	50	Jan 3	61
Third High:	Mar 5	56	Feb 26	49	May 15	60
Fourth High:	Mar 10	56	Oct 18	49	Feb 13	59
National:						
1-Hour Standard Design Value:	56			*		*
1-Hour Standard 98th Percentile:	53.6		48.8		53.9	
# Days Above the Standard:	0		0		0	
Annual Standard Design Value:	13			*		13
California:						
1-Hour Std Designation Value:	70		70		60	
Expected Peak Day Concentration:	68		67		60	
# Days Above the Standard:	0		0		0	
Annual Std Designation Value:	15		15		13	
Annual Average:	*		*		13	
Year Coverage:	88		72		93	

Notes:

Hourly nitrogen dioxide measurements and related statistics are available at West Los Angeles-VA Hospital between 1984 and 2014. Some years in this range may not be represented.

All concentrations expressed in parts per billion.

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.



Top 4 Summary: Highest 4 Daily Maximum Hourly Ozone Measurements

at West Los Angeles-VA Hospital



	2012		2013		2014	
	Date	Measurement	Date	Measurement	Date	Measurement
First High:	Sep 30	0.093	May 3	0.088	Oct 5	0.116
Second High:	Oct 1	0.093	May 13	0.086	May 2	0.094
Third High:	Oct 29	0.086	Sep 6	0.083	May 16	0.094
Fourth High:	Sep 23	0.083	Mar 24	0.076	Oct 6	0.090
California:						
# Days Above the Standard:		0		0		1
California Designation Value:		0.09		0.08		0.09
Expected Peak Day Concentration:		0.089		0.084		0.090
National:						
# Days Above the Standard:		<i>0</i>		<i>0</i>		<i>0</i>
Nat'l Standard Design Value:		<i>0.095</i>		<i>0.093</i>		<i>0.093</i>
Year Coverage:		98		90		94

Notes:

Hourly ozone measurements and related statistics are available at West Los Angeles-VA Hospital between 1984 and 2014. Some years in this range may not be represented. All concentrations expressed in parts per million. The national 1-hour ozone standard was revoked in June 2005 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics* . An exceedance of a standard is not necessarily related to a violation of the standard. Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
 * means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide



Top 4 Summary: Highest 4 Daily Maximum 8-Hour Ozone Averages

at West Los Angeles-VA Hospital



	2012		2013		2014	
	Date	8-Hr Average	Date	8-Hr Average	Date	8-Hr Average
National:						
First High:	Sep 15	0.073	May 3	0.075	Oct 5	0.094
Second High:	Sep 30	0.067	Mar 24	0.065	May 2	0.085
Third High:	Sep 22	0.066	Aug 15	0.060	May 16	0.078
Fourth High:	Oct 17	0.065	Oct 6	0.059	May 3	0.077
California:						
First High:	Sep 15	0.074	May 3	0.076	Oct 5	0.095
Second High:	Sep 30	0.068	Mar 24	0.066	May 2	0.086
Third High:	Sep 22	0.067	Aug 15	0.061	May 16	0.079
Fourth High:	Oct 17	0.066	Oct 6	0.059	May 3	0.077
National:						
# Days Above the Standard:		0		0		4
Nat'l Standard Design Value:		0.065		0.062		0.067
National Year Coverage:		97		88		92
California:						
# Days Above the Standard:		1		1		6
California Designation Value:		0.072		0.069		0.074
Expected Peak Day Concentration:		0.072		0.069		0.075
California Year Coverage:		97		88		90

Notes:

Eight-hour ozone averages and related statistics are available at West Los Angeles-VA Hospital between 1984 and 2014. Some years in this range may not be represented. All averages expressed in parts per million.

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide



Top 4 Summary: Highest 4 Daily Maximum 8-Hour Carbon Monoxide Averages

at West Los Angeles-VA Hospital



	2012		2013		2014	
	Date	8-Hr Average	Date	8-Hr Average	Date	8-Hr Average
National:						
First High:	Jan 6	1.15		*		*
Second High:	Jan 1	1.15		*		*
Third High:	Jan 7	1.14		*		*
Fourth High:	Jan 11	1.12		*		*
California:						
First High:	Jan 5	1.15		*		*
Second High:	Jan 7	1.14		*		*
Third High:	Jan 11	1.12		*		*
Fourth High:	Jan 3	1.11		*		*
National:						
# Days Above the Standard:		0		0		0
California:						
# Days Above the Standard:		0		0		0
Expected Peak Day Concentration:		1.50				
Year Coverage:		39		*		*

Notes:

Eight-hour carbon monoxide averages and related statistics are available at West Los Angeles-VA Hospital between 1984 and 2012. Some years in this range may not be represented.

All averages expressed in parts per million.

An exceedance of a standard is not necessarily related to a violation of the standard.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide



Top 4 Summary: Highest 4 Daily 24-Hour PM10 Averages

at Los Angeles-Westchester Parkway

iADAM

	2012		2013		2014	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Mar 10	31.0	Apr 16	38.0	Jan 23	46.0
Second High:	Apr 3	30.0	Jul 9	35.0	Apr 29	40.0
Third High:	May 9	30.0	May 22	34.0	May 11	36.0
Fourth High:	Jun 8	30.0	May 4	29.0	Jan 5	35.0
California:						
First High:	Mar 10	30.0	Apr 16	37.0	Jan 23	45.0
Second High:	Apr 3	29.0	May 22	34.0	Apr 29	40.0
Third High:	May 9	29.0	Jul 9	34.0	May 11	36.0
Fourth High:	Jun 8	29.0	May 4	29.0	Jan 5	35.0
National:						
Estimated # Days > 24-Hour Std:		0.0		0.0		0.0
Measured # Days > 24-Hour Std:		0		0		0
3-Yr Avg Est # Days > 24-Hr Std:		0.0		0.0		0.0
<i>Annual Average:</i>		<i>19.8</i>		<i>20.8</i>		<i>22.1</i>
<i>3-Year Average:</i>		<i>21</i>		<i>21</i>		<i>21</i>
California:						
Estimated # Days > 24-Hour Std:		0.0		*		0.0
Measured # Days > 24-Hour Std:		0		0		0
<i>Annual Average:</i>		<i>19.6</i>		*		<i>21.9</i>
3-Year Maximum Annual Average:		21		21		22
Year Coverage:		96		85		100

Notes:

Daily PM10 averages and related statistics are available at Los Angeles-Westchester Parkway between 2004 and 2014. Some years in this range may not be represented. All averages expressed in micrograms per cubic meter.

The national annual average PM10 standard was revoked in December 2006 and is no longer in effect. Statistics related to the revoked standard are shown in *italics* or *italics*.

An exceedance of a standard is not necessarily related to a violation of the standard.

All values listed above represent midnight-to-midnight 24-hour averages and may be related to an **exceptional event**.

State and national statistics may differ for the following reasons:

State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and

national statistics may therefore be based on different samplers.

State statistics for 1998 and later are based on local conditions (except for sites in the South Coast Air Basin, where State statistics for 2002 and later are based on local conditions). National statistics are based on standard conditions.

State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.

Measurements are usually collected every six days. Measured days counts the days that a measurement was greater than the level of the standard; Estimated days mathematically estimates how many days concentrations would have been greater than the level of the standard had each day been monitored.

3-Year statistics represent the listed year and the 2 years before the listed year.

Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.

* means there was insufficient data available to determine the value.

Available Pollutants:

8-Hour Ozone | Hourly Ozone | PM2.5 | PM10 | Carbon Monoxide | Nitrogen Dioxide | State Sulfur Dioxide | Hydrogen Sulfide



Top 4 Summary: Highest 4 Daily 24-Hour PM2.5 Averages

at Compton-700 North Bullis Road

iADAM

	2012		2013		2014	
	Date	24-Hr Average	Date	24-Hr Average	Date	24-Hr Average
National:						
First High:	Dec 8	51.2	Jan 1	52.1	Jan 11	35.8
Second High:	Nov 23	30.5	Dec 24	28.5	Jan 20	33.5
Third High:	Jan 7	30.3	Oct 25	24.3	Nov 28	30.9
Fourth High:	Jan 19	26.4	Jan 16	24.1	Jan 29	30.8
California:						
First High:	Dec 8	51.2	Jan 1	52.1	Jan 11	35.8
Second High:	Nov 23	30.5	Dec 24	28.5	Jan 20	33.5
Third High:	Jan 7	30.3	Oct 25	24.3	Nov 28	30.9
Fourth High:	Jan 19	26.4	Jan 16	24.1	Jan 29	30.8
National:						
Estimated # Days > 24-Hour Std:		3.3		3.1		3.0
Measured # Days > 24-Hour Std:		1		1		1
24-Hour Standard Design Value:		31		29		29
24-Hour Standard 98th Percentile:		30.3		24.3		30.9
Annual Standard Design Value:		12.4		12.2		12.1
Annual Average:		11.6		11.9		12.6
California:						
Annual Std Designation Value:		13		13		12
Annual Average:		11.7		*		*
Year Coverage:		92		95		88

Notes:

Daily PM2.5 averages and related statistics are available at Compton-700 North Bullis Road between 2008 and 2014. Some years in this range may not be represented. All averages expressed in micrograms per cubic meter.
 An exceedance of a standard is not necessarily related to a violation of the standard.
 State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers.
 Year Coverage indicates the extent to which available monitoring data represent the time of the year when concentrations are expected to be highest. 0 means that data represent none of the high period; 100 means that data represent the entire high period. A high Year Coverage does not mean that there was sufficient data for annual statistics to be considered valid.
 * means there was insufficient data available to determine the value.

SANTA MONICA PIER, CALIFORNIA (047953)

Period of Record Monthly Climate Summary

Period of Record : 01/01/1937 to 01/19/2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	64.1	63.7	63.4	64.5	65.4	68.1	71.0	72.1	72.1	70.4	68.0	64.8	67.3
Average Min. Temperature (F)	49.2	49.9	50.9	52.9	55.6	58.4	61.2	62.2	61.4	58.2	53.6	49.7	55.3
Average Total Precipitation (in.)	2.69	3.01	2.03	0.73	0.17	0.03	0.02	0.08	0.15	0.33	1.36	2.04	12.62
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 93.1% Min. Temp.: 93.1% Precipitation: 94.3% Snowfall: 94.6% Snow Depth: 94.3%

Check [Station Metadata](#) or [Metadata graphics](#) for more detail about data completeness.

Western Regional Climate Center, wrcc@dri.edu

LEMOORE NAS, CA (KNLC). WIN	SE	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	N	NNW	NNW	NNW
LIVERMORE AP, CA (KLVK). WI	ENE	W	W	W	W	W	W	W	W	W	ENE	ENE	W
LOMPOC AP, CA (KLPC). WIND	E	E	W	W	W	W	W	W	W	W	E	E	W
LONG BEACH AP, CA (KLGB). W	WNW	W	S	W	S	S	S	WNW	WNW	WNW	WNW	WNW	WNW
LOS ANGELES INT'L AP, CA (KL	E	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	E	WSW
LOS ANGELES-DOWNTOWN, CA (KC	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	WSW
MADERA MUNI AP, CA (KMAE).	ESE	E	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	E	E	WNW
MARYSVILLE AIRPORT, CA (KMYV	SSE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE
MCCLELLAN AFB, CA (KMCC). W	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	SE	SSE	SSE	SSE
MERCED MUNI AP, CA (KMCE).	SE	SE	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	ESE	NW
MIRAMAR NAS, CA (KNKX). WIN	E	E	E	WNW	W	WNW	WNW	NW	NW	E	E	E	E
MODESTO AIRPORT, CA (KMOD).	SE	SE	NW	NW	NW	NW	NNW	NNW	NW	NW	NW	SE	NW
MOFFETT FIELD NAS, CA (KNUQ)	SE	SE	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SE	NNW
MONTEREY AIRPORT, CA (KMRY).	ESE	ESE	W	WNW	W	W	W	W	W	ESE	ESE	W	W
MOUNT SHASTA CITY, CA (KMHS)	SE	SE	SE	NW	N	N	N	NE	NE	N	NE	SE	N
NAPA COUNTY AP, CA (KAPC).	E	E	W	W	W	SSW	SSW	SSW	SSW	SSW	E	E	SSW
OAKLAND INT'L AP, CA (KOAK).	SE	W	W	W	W	W	W	W	W	W	W	SE	W
OCEANSIDE MUNI AP, CA (KOKB)	W	NE	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	NNE	WSW
ONTARIO INT'L AP, CA (KONT).	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W
OROVILLE MUNI AP, CA (KOVE).	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	E	E	SSE	SSE	SSE
OXNARD AIRPORT, CA (KOCR).	W	W	W	W	W	W	W	W	W	W	W	NE	W
PALM SPRINGS AP, CA (KPSP).	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
PALMDALE AP, CA (KPMD). WIN	W	W	SW	W	SW	SW	SW	SW	SW	SW	W	W	SW
PALO ALTO AP, CA (KPAO). WI	N	N	N	NNW	N	N	N	N	N	NNW	N	N	N
PASO ROBLES AP, CA (KPRB).	E	E	NW	NW	NW	NW	SSW	WNW	NW	NW	E	E	NW
POINT MUGU NAS, CA (KNTD).	NE	W	W	W	W	W	W	W	W	W	NE	NE	W
POINT PIEDRAS BLANCAS, CA (K	N	N	NNW	NNW	N	N	N	NW	NNW	N	N	N	N
PORTERVILLE MUNI AP, CA (KPT	E	E	ESE	NW	NW	NW	NW	S	S	ESE	E	E	NW
RAMONA AIRPORT, CA (KRNM).	W	W	W	W	W	W	W	W	W	W	WNW	E	W
RED BLUFF AP, CA (KRBL). WI	NNW	SSE	N	NNW	SSE	N	S	S	NNW	NNW	NNW	NNW	NNW
REDDING AIRPORT, CA (KRDD).	N	N	N	N	N	N	S	S	N	N	N	N	N
RIVERSIDE MUNI AP, CA (KRAL)	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	N	WNW
RIVERSIDE-MARCH AFB, CA (KRI	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW
SACRAMENTO EXECUTIVE AP, CA	SE	SSE	S	SSW	S	S	S	S	S	S	SSE	SSE	S
SACRAMENTO INT'L AP, CA (KSM	SSE	SSE	S	S	S	S	S	S	S	S	NW	SSE	S
SACRAMENTO-MATHER AP, CA (KM	SE	SE	SE	S	S	S	S	S	S	SE	SE	SE	S
SALINAS MUNI AP, CA (KSNS).	SE	SE	W	W	W	W	WNW	WNW	WNW	WNW	SE	SE	W
SAN CARLOS AP, CA (KSQL). W	N	W	W	W	W	W	W	W	N	N	N	N	W
SAN DIEGO-BROWN FIELD, CA (K	W	W	W	W	W	W	W	W	W	W	W	SE	W
SAN DIEGO-GILLESPIE FIELD, C	W	W	W	W	W	W	W	W	W	W	W	W	W
SAN DIEGO-LINDBERGH FIELD, C	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
SAN DIEGO-MONTGOMERY FIELD,	W	W	W	W	WSW	WSW	WSW	WSW	WNW	W	W	W	W
SAN DIEGO-NORTH ISLAND NAS,	NW	W	W	W	W	W	W	NW	NW	NW	NW	NW	W
SAN FRANCISCO INT'L AP, CA (W	W	W	W	W	W	W	W	W	W	W	W	W
SAN JOSE INT'L AP, CA (KSJC)	SSE	SSE	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	NW	SE	NNW
SAN JOSE-REID HILLVIEW AP, C	SE	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
SAN LUIS OBISPO AP, CA (KSBP	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW
SAN NICHOLAS ISLAND NOLF, CA	WNW	WNW	WNW	WNW	WNW	NW	WNW	NW	NW	NW	NW	NW	WNW
SANDBURG, CA (KSDB). WIND R	NE	S	NW	NW	NW	NW	NW	NW	NW	NE	NE	NE	NW
SANTA ANA-JOHN WAYNE AP, CA	S	S	S	S	S	SSW	SSW	SSW	SW	SW	SW	S	SSW
SANTA BARBARA AP, CA (KSBA).	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
SANTA MARIA AP, CA (KSMX).	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
SANTA MONICA AIRPORT, CA (KS	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	N	SW
SANTA ROSA AIRPORT, CA (KSTS	S	SE	S	S	S	S	S	S	S	S	S	SE	S
SISKIYOU COUNTY AP-MONTAGUE,	S	S	N	N	N	N	N	N	N	N	S	S	N
SOUTH LAKE TAHOE AP, CA (KTV	S	S	S	S	S	SSW	S	S	S	S	S	S	S
STOCKTON AIRPORT, CA (KSCK).	SE	SE	W	W	W	W	W	W	W	W	W	SE	W
THERMAL AIRPORT, CA (KTRM).	N	N	NNW	NNW	NW	NW	NW	NW	NNW	NNW	NW	NW	NW
TORRANCE AIRPORT, CA (KTOA).	W	W	W	W	W	W	WNW	WNW	W	W	W	W	W
TRAVIS AFB-FAIRFIELD, CA (KS	N	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	N	N	WSW
TRUCKEE AIRPORT, CA (KTRK).	S	S	S	SSW	SW	SSW	SW	SSW	SSW	N	S	S	S
TUSTIN MCAS, CA (KNTK). WIN	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW
TWENTYNINE PALMS EAF, CA (KN	W	W	WNW	WNW	WNW	NW	W	W	W	W	WNW	NW	WNW
UKIAH AIRPORT, CA (KUKI). W	S	SSE	WNW	WNW	N	N	N	N	N	W	SSE	SSE	N
VACAVILLE AIRPORT, CA (KVCB)	NNW	S	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	NNW	SSW

NORTH ISLAND NAS	KNZY	1996-2006	5.5	6.9	7.0	7.9	7.1	7.5	7.1	7.0	6.9	6.0	5.3	5.3	6.6
OAKLAND INTL AP ASOS	KOAK	1996-2006	6.8	8.3	9.0	10.4	10.4	10.4	10.2	9.6	8.5	7.5	7.0	7.6	8.8
OCEANSIDE AIRPORT ASOS	KOKB	1999-2006	3.9	4.4	4.4	4.7	4.8	4.8	4.5	4.2	4.0	3.6	3.5	3.5	4.2
ONTARIO INTL AP ASOS	KONT	1996-2006	5.2	5.7	6.3	6.9	7.2	7.3	7.0	6.5	5.8	5.6	5.2	5.7	6.2
OROVILLE AIRPORT ASOS	KOVE	1998-2006	5.9	7.0	7.2	7.7	7.1	7.0	6.4	5.9	5.6	5.5	5.5	6.6	6.4
OXNARD AIRPORT ASOS	KOXR	1996-2006	7.1	8.2	7.7	8.3	7.0	7.1	7.2	6.9	6.6	6.4	6.8	7.7	7.2
PALM SPRINGS AP ASOS	KPSP	1996-2006	5.7	5.9	7.3	9.0	9.6	9.2	8.2	7.5	7.5	6.8	6.0	5.7	7.3
PALMDALE AIRPORT ASOS	KPMD	1996-2006	8.1	9.2	10.4	12.5	12.6	12.8	11.5	10.3	9.3	8.9	7.9	8.1	10.1
PALO ALTO AIRPORT	KPAO	1996-2006	7.0	8.9	9.8	10.3	11.2	11.6	11.4	10.7	9.3	8.2	7.0	6.8	9.4
PASO ROBLES AP ASOS	KPRB	1996-2006	5.0	5.9	6.3	7.7	9.1	9.9	8.6	7.9	6.5	5.5	4.7	5.0	6.8
POINT MUGU NAS	KNTD	1996-2006	7.3	8.5	7.8	8.3	7.4	7.2	6.8	6.6	6.2	6.6	6.9	8.4	7.3
POINT PIEDRAS BLANCAS	K87Q	1996-2005	9.2	10.2	10.8	12.9	14.1	13.0	11.2	11.4	10.0	9.6	8.7	9.2	10.9
PORTERVILLE AP AWOS	KPTV	1996-2006	3.7	4.3	4.5	5.2	5.7	6.0	5.9	5.6	5.1	4.3	3.7	3.7	4.8
RAMONA AIRPORT ASOS	KRNM	1998-2006	4.5	5.3	5.0	5.2	5.0	5.2	5.2	4.9	4.6	4.6	4.4	4.6	4.9
RED BLUFF AIRPORT ASOS	KRBL	1996-2006	7.4	8.9	8.7	8.9	8.5	8.8	7.2	7.0	7.5	7.7	7.5	8.7	8.0
REDDING AIRPORT ASOS	KRDD	1996-2006	5.2	6.8	6.4	6.9	6.6	6.9	5.7	5.4	5.7	5.7	4.9	6.2	6.0
RIVERSIDE AIRPORT ASOS	KRAL	1998-2006	5.0	5.2	4.9	5.1	5.6	5.8	5.5	5.1	4.4	4.1	4.3	5.4	5.0
RIVERSIDE-MARCH AFB	KRIV	1996-2006	5.2	5.9	5.4	6.0	6.2	6.2	6.2	6.0	5.5	5.3	5.0	5.6	5.7
SACRAMENTO EXEC AP ASOS	KSAC	1996-2006	5.5	6.4	6.8	7.6	7.5	8.2	7.8	7.2	6.3	5.8	5.0	6.0	6.6
SACRAMENTO INTL AP ASOS	KSMF	1996-2006	6.9	8.0	7.9	8.7	8.6	9.4	9.0	8.4	7.6	7.3	6.4	7.7	8.0
SACRAMENTO-MATHER AP	KMHR	2000-2006	4.8	5.8	6.5	6.8	6.7	7.2	6.9	6.0	5.7	5.2	4.6	6.2	6.0
SACRAMENTO-MCCLELLAN AF	KMCC	1992-2000	7.7	8.1	7.5	8.0	7.9	8.7	8.8	8.5	7.4	6.8	6.3	7.9	7.8
SALINAS AIRPORT ASOS	KSNS	1996-2006	7.3	8.1	7.7	8.4	9.2	9.8	9.1	8.4	7.5	6.9	6.9	7.8	8.1
SAN CARLOS AIRPORT	KSNL	1996-2006	8.2	9.5	10.6	11.5	12.1	12.7	11.8	11.3	10.3	9.4	8.5	8.6	10.5
SAN DIEGO-BROWN FIELD	KSDM	1996-2006	5.6	6.7	6.0	6.4	5.9	5.6	5.3	5.0	5.0	5.1	5.5	6.0	5.7
SAN DIEGO-GILLESPIE FLD	KSEE	1996-2006	3.8	5.4	6.1	7.4	7.1	7.0	6.9	6.8	6.4	5.5	4.1	3.7	5.9
SAN DIEGO-LINDBERGH FLD	KSAN	1996-2006	4.8	6.1	6.6	7.4	7.0	7.2	6.9	6.8	6.5	5.6	4.8	4.5	6.1
SAN DIEGO-MONTGOMERY AP	KMYF	1996-2006	4.6	5.6	5.9	6.7	6.3	6.5	6.0	6.0	5.9	5.2	4.6	4.5	5.6
SAN FRANCISCO INTL AP	KSFO	1996-2006	6.7	8.2	10.2	12.1	13.6	14.1	12.9	12.3	10.6	9.0	7.2	7.2	10.3
SAN JOSE INTL AP ASOS	KSJC	1996-2006	5.4	6.6	7.0	8.0	8.2	8.4	7.7	7.4	6.5	5.8	5.3	6.0	6.8
SAN JOSE-REID HILLVIEW	KRHV	1996-2006	5.3	7.2	8.1	9.3	9.7	9.8	8.8	8.5	7.5	6.5	5.5	5.9	7.7
SAN LUIS OBISPO AP ASOS	KSBP	1996-2006	5.4	6.5	7.4	8.2	9.3	8.5	7.6	7.7	7.1	6.5	5.8	5.3	7.1
SAN NICOLAS ISLAND NAS	KNSI	1996-2006	11.1	13.1	13.0	14.8	13.2	12.5	11.6	12.0	11.9	10.8	11.8	11.8	12.3
SANDBURG ASOS	KSDB	1996-2006	14.3	15.4	14.6	14.7	15.5	14.5	12.1	11.9	12.1	13.1	14.1	15.5	14.0
SANTA ANA AIRPORT ASOS	KSNA	1996-2006	4.3	5.2	5.7	6.4	6.7	7.0	6.7	6.3	5.6	4.9	4.4	4.4	5.6
SANTA BARBARA AP ASOS	KSBA	1996-2006	4.2	5.7	5.8	6.6	6.0	6.0	5.9	5.5	5.2	4.5	4.1	4.1	5.3
SANTA MARIA AP ASOS	KSMX	1996-2006	5.7	6.7	7.2	7.8	8.3	7.7	6.5	6.1	5.6	5.7	5.8	5.8	6.5
SANTA MONICA AP ASOS	KSMO	1996-2006	5.1	6.1	6.2	7.0	6.7	6.8	6.5	6.2	5.7	5.1	5.0	5.3	6.0
SANTA ROSA AIRPORT ASOS	KSTS	1996-2006	3.5	4.8	5.4	5.8	6.0	6.3	5.8	5.3	4.7	4.2	3.6	4.1	4.9
SOUTH LAKE TAHOE AP ASOS	KTVL	1996-2006	5.5	5.7	6.7	7.5	6.9	6.6	5.9	5.8	5.6	5.4	6.0	6.1	6.1
STOCKTON AIRPORT ASOS	KSCK	1996-2006	6.2	7.3	7.4	8.8	9.6	10.0	8.7	8.3	7.4	6.4	5.7	7.0	7.7
THERMAL AIRPORT ASOS	KTRM	1996-2006	5.1	5.7	7.6	9.2	9.3	9.0	7.4	6.6	6.8	6.2	5.2	4.9	6.8
TORRANCE AIRPORT	KTOA	1996-2006	5.6	7.2	7.9	8.7	8.7	9.4	9.5	9.2	8.5	7.1	6.0	5.7	7.8
TRUCKEE AIRPORT AWOS	KTRK	1996-2006	3.5	4.0	4.8	5.5	5.5	5.0	4.8	4.6	4.2	3.7	4.0	3.8	4.4
TWENTYNINE PALMS EAF	KNXP	1996-2006	7.0	7.8	8.5	10.4	9.5	9.7	8.3	7.8	6.9	6.7	6.6	6.9	8.0
UKIAH AIRPORT ASOS	KUKI	1996-2006	2.6	3.5	4.1	4.6	4.9	5.5	4.5	4.0	3.2	2.7	2.5	2.9	3.7
VACAVILLE AIRPORT ASOS	KVCB	1998-2006	4.4	5.5	6.3	7.1	7.0	7.5	7.3	6.7	5.9	5.5	4.4	4.9	6.0
VAN NUYS AIRPORT ASOS	KVNY	1996-2006	5.9	6.3	5.5	6.0	5.7	5.7	5.6	5.0	4.6	4.5	5.1	6.5	5.5
VISALIA AIRPORT AWOS	KVIS	1996-2006	3.3	4.0	4.3	5.1	5.9	5.9	4.9	4.4	3.8	3.2	3.0	3.1	4.2
WATSONVILLE AP ASOS	KWVI	1998-2006	3.2	3.8	3.7	5.1	5.1	5.2	4.9	4.6	4.1	3.6	3.1	3.4	4.1

COLORADO

AVERAGE WIND SPEED - MPH

STATION	ID	Years	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
AKRON AIRPORT ASOS	KAKO	1996-2006	11.5	12.5	13.1	14.2	12.7	12.6	11.5	11.2	11.5	12.1	12.0	12.0	12.2
ALAMOSA AIRPORT ASOS	KALS	1996-2006	5.7	6.8	8.8	10.8	10.0	9.5	7.1	6.6	7.1	6.9	6.2	5.4	7.5
ASPEN-PITKIN COUNTY AP	KASE	1996-2006	5.1	5.6	6.4	7.5	7.6	7.7	7.1	6.9	6.9	6.2	5.2	5.1	6.4
AURORA-BUCKLEY AFB	KBKF	1996-2006	8.3	8.6	9.3	10.1	8.6	8.4	7.9	7.6	7.6	7.9	8.0	8.6	8.4
BOULDER-JEFFCO AP ASOS	KBJC	1996-2006	11.0	10.3	10.8	11.1	10.4	10.1	9.5	9.3	9.2	9.2	9.6	11.0	10.1
BURLINGTON AIRPORT ASOS	KITR	1997-2006	11.2	12.5	13.2	14.0	13.1	12.9	11.8	10.9	11.9	11.9	11.8	11.5	12.2
COLORADO SPRGS AP ASOS	KCOS	1996-2006	8.8	9.5	10.6	12.3	10.9	10.6	9.2	8.9	9.1	9.7	9.0	9.2	9.8
CORTEZ AIRPORT ASOS	KCEZ	1996-2006	5.8	6.5	7.6	8.8	8.5	8.4	6.8	6.3	6.6	6.8	6.1	6.0	7.0
CRAIG AIRPORT AWOS	KCAG	1996-2006	4.0	4.5	5.7	7.6	6.8	6.9	5.8	5.7	5.4	5.1	4.3	3.9	5.4
DENVER INTL AP ASOS	KDEN	1996-2006	9.7	10.0	10.8	11.9	11.0	10.7	10.3	10.1	9.9	9.9	9.6	10.1	10.3
DENVER-CENTENNIAL AP	KAPA	1996-2006	8.3	8.7	9.3	10.5	9.5	9.6	8.8	8.4	8.4	8.1	8.1	8.5	8.8

Venice Auxiliary Pumping Plant
 Air Quality/GHG Assumptions

Construction

	10,000 cy	Vehicle round trips	Trip Distance	
<u>Export</u>				
Stored at Laydown Area 1 (128 Hurricane)	2,300 cy	444	0.1 miles	Laydown Area 1 is adjacent to the site; a conveyor belt may be used, but construction vehicle assumed. 7-cy capacity, assumes a 35% allowance for soil expansion and less-than-full loads
Stored at Laydown Area 3 (Culver City)	7,700 cy	1,485	7 miles	Laydown Area 3 is 7 miles east of the project site. 7-cy capacity, assumes a 35% allowance for soil expansion and less-than-full loads
Returned to Project Site	3,850 cy	743	7 miles	Laydown Area 3 is 7 miles east of the project site. 7-cy capacity, assumes a 35% allowance for soil expansion and less-than-full loads
Disposed Off-Site	3,850 cy	743	20 miles	CalEEMod default distance of 20 miles, 7-cy capacity, assumes a 35% allowance for soil expansion and less-than-full loads
		3,415 round trips		
		6,830 one-way trips		
		8.93 miles per trip		
		61,001		
	<u>Weighted Trip Length</u>			
	<u>Truck VMT</u>			
Operation				
Daily Commute Trips	12 trips			
	1.2 per 1,000 sf			
Operational Center Energy	1,560 kWh per day			(Arcadis)
	569,400 kWh/year			
	56.94 kWh/year/sf			

Venice Auxiliary Pumping Plant
CalEEMod Outputs - Criteria Pollutant Emissions

Construction (Daily)
Unmitigated (Rule 403)
Summer

	ROG	Nox	CO	SO2	Total PM10	Total PM2.5
Site Preparation	On-Site	2	19	12	0	1
	Off-Site	0	0	0	0	0
	Phase Total	2	19	12	0	1
Grading	On-Site	3	29	22	0	4
	Off-Site	1	8	11	0	1
	Phase Total	4	38	33	0	5
Building Construction (2018)	On-Site	2	18	12	0	1
	Off-Site	0	0	0	0	0
	Phase Total	2	19	13	0	1
Building Construction (2019)	On-Site	2	16	12	0	1
	Off-Site	0	0	0	0	0
	Phase Total	2	17	13	0	1
Building Construction (2020)	On-Site	2	15	12	0	1
	Off-Site	0	0	0	0	0
	Phase Total	2	15	12	0	1
Paving	On-Site	1	7	7	0	0
	Off-Site	0	0	1	0	0
	Phase Total	1	7	8	0	1
Architectural Coating	On-Site	8	2	2	0	0
	Off-Site	0	0	0	0	0
	Phase Total	8	2	2	0	0
Maximum Total	10	38	33	0	5	3
Regional Significance Thresholds	75	100	550	150	150	55
Maximum On-Site	10	29	22	0	4.4	3.0
Localized Significance Thresholds		103	562		4	3

Phases would be independent, but Building Construction/Paving/Architectural Coating assumed overlap)
On-Site Only: Site Preparation/Grading phases assumed to overlap, Building Construction/Paving/Architectural Coating assumed overlap)

Mitigated (Rule 403 and Tier 3 Construction Equipment)
Summer

	ROG	Nox	CO	SO2	Total PM10	Total PM2.5
Site Preparation	On-Site	0	9	13	0	0
	Off-Site	0	0	0	0	0
	Phase Total	0	9	14	0	1
Grading	On-Site	1	13	18	0	3
	Off-Site	1	8	11	0	1
	Phase Total	1	22	29	0	4
Building Construction (2018)	On-Site	1	12	15	0	1
	Off-Site	0	0	0	0	0
	Phase Total	1	12	15	0	1
Building Construction (2019)	On-Site	1	12	15	0	1
	Off-Site	0	0	0	0	0
	Phase Total	1	12	15	0	1
Building Construction (2020)	On-Site	1	12	15	0	1
	Off-Site	0	0	0	0	0
	Phase Total	1	12	15	0	1
Paving	On-Site	0	5	7	0	0
	Off-Site	0	0	1	0	0
	Phase Total	0	5	8	0	0
Architectural Coating	On-Site	8	1	2	0	0
	Off-Site	0	0	0	0	0
	Phase Total	8	1	2	0	0
Maximum Total	8	22	29	0	4	3
Regional Significance Thresholds	75	100	550	150	150	55
Maximum On-Site	8	18	23	0	3.5	2.2
Localized Significance Thresholds		103	562		4	3

Phases would be independent, but Building Construction/Paving/Architectural Coating assumed overlap)
On-Site Only: Site Preparation/Grading phases assumed to overlap, Building Construction/Paving/Architectural Coating assumed overlap)

Operational (Daily)

	ROG	Nox	CO	SO2	Total PM10	Total PM2.5
Area	0.2665	0.0000	0.0010	0.0000	0.0000	0.0000
Energy	0.0056	0.0505	0.0424	0.0003	0.0038	0.0038
Mobile	0.0380	0.1167	0.4914	0.0017	0.1151	0.0323
Total	0.3101	0.1673	0.5348	0.0020	0.1190	0.0361
Localized Significance Thresholds		103.0000	562.0000		1.0000	1.0000

Localized Significance Thresholds
*SRA 2, 1-acre site, receptor distance of 25 meters

Venice Auxiliary Pumping Plant
 GHG Emissions and Energy Consumption

Greenhouse Gases

Proposed

Construction 691 MT CO2e
 23 MT CO2e
 Amortized Construction
Annual Operation 382 MT CO2e
 0 MT CO2e
 Area
 Energy 336 MT CO2e
 Mobile 21 MT CO2e
 Waste 6 MT CO2e
 Water 19 MT CO2e
 Source: CalEEMod, annual outputs

Existing

6,480,575 kWh Source: Arcadis 2016
 1,135 lbs/MWh LADWP carbon intensity (<https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5nt-eqan>)
 7,355,453 lbs CO2
 3,336.38 MT CO2

Energy

Construction

Amortized Construction
 691 MT CO2e
 23 MT CO2e

pounds per metric ton	pounds CO2e	pounds of CO2e per gallon diesel	gallons of diesel	Btu/gal (gross)	BTU	MMBTU
2204.62262	1,523,098.37	22.2	68,608.03	138,700	9,515,934,411	9,515.93
2204.62262	50,769.95	22.2	2,286.93	138,700	317,197,814	317.20

Source: Oak Ridge National Laboratory

Source: EPA

Annual Operation

Existing

Electricity Use
 17,755 kWh/day
 6,480,575 kWh/year

BTU/kWh	BTU/year	MMBTU
3,412	60,580,060	61
3,412	22,111,721,900	22,112

Electricity

VAPP Electricity Use
 632,400 kWh/year

BTU/kWh	BTU/year	MMBTU
3,412	2,157,748,800	2,158

Natural Gas

VAPP Natural Gas Use

BTU/kWh	BTU/year	MMBTU
-	188,100,000	188.10

Other Energy

Mobile 21 MT CO2e
 Waste 6 MT CO2e
 Water 19 MT CO2e

pounds per metric ton	pounds CO2e	pounds of CO2e per gallon diesel	gallons of diesel	Btu/gal (gross)	BTU	MMBTU
2204.62262	46,495.27	22.2	2,094.38	138,700	290,490,722	290
2204.62262	12,436.28	22.2	560.19	138,700	77,698,717	78
2204.62262	41,024.06	22.2	1,847.93	138,700	256,307,970	256

Venice Auxiliary Pumping Plant Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	0.03	Acre	0.03	1,306.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2021

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1135	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity factor based on 2013 data from <https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5ni-eqan>. Construction shown to start the year after construction is complete (2021).

Land Use - Site is approximately 10,000 square feet and the pocket park would be approximately 1,000 square feet.

Construction Phase - Schedule based on information provided by the project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - CalEEMod defaults

Off-road Equipment - CalEEMod defaults

Grading - 10,000 cy would be excavated, 2,300 of which would be stockpiled at Laydown Area 1 (adjacent to the site) and 7,700 cy would be stockpiled at Laydown Area 3 (Culver City). All 2,300 cy at Laydown Area 1 would be reused at the project site and half of the Laydown Area 3 materials would be returned to the site. The remaining 3,850 would be taken to a landfill.

Trips and VMT - Due to the small roadways near the project site, trucks with a 7-cy capacity were assumed. Laydown Area 1 is adjacent to the site (0.1 trip distance assumed), Laydown Area 3 is 7 miles from the project site, landfill site assumed to be 20 miles from Laydown Area 3. The weighted average trip distance is 8.93 miles. Worker trips based on two trips per day for the number of workers provided by the project engineer

On-road Fugitive Dust - CalEEMod defaults

Architectural Coating - Based on dimensions from Preliminary Design Report.

Vehicle Trips - Pocket park is assumed to generate no trips, as users would be neighborhood residents. The pumping plant would be operated by two employees per 8-hour shift, 24 hours per day, 7 days per week.

Energy Use - The new pumps would be used to achieve the same levels of wastewater flow as at present; new energy consumption would occur as result of the VAPP operational center, which would consume 569,400 kWh. Energy consumption would be 56.94 per square feet of the facility. CalEEMod defaults used for all other energy intensities.

Water And Wastewater - Potable water would be used for washdown and lavatory purposes. Defaults used.

Solid Waste - CalEEMod defaults

Construction Off-road Equipment Mitigation - Rule 403 compliance

Area Coating - Based on dimensions from Preliminary Design Report.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,653.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,960.00	7,750.00
tblAreaCoating	Area_Nonresidential_Interior	16960	7750
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstructionDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstructionDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	100.00	360.00
tblConstructionPhase	NumDays	2.00	95.00
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	1.00	60.00

2018	3.7226	37.6494	32.8017	0.0637	6.7159	1.7710	8.4870	3.4965	1.6507	5.1472	0.0000	5,261.9308	0.7401	0.0000	5,277.4728
2019	1.6955	16.6482	12.6207	0.0249	0.0684	0.9219	0.9902	0.0184	0.8626	0.8810	0.0000	2,412.5436	0.6414	0.0000	2,426.0129
2020	7.7772	15.1975	12.3968	0.0249	0.2012	0.8051	0.8735	0.0534	0.7533	0.7717	0.0000	2,369.6785	0.6392	0.0000	2,383.1008
Total	13.1952	69.4952	57.8193	0.1035	6.9855	3.4980	10.3506	3.5682	3.2666	6.7959	0.0000	10,044.1530	2.0207	0.0000	10,086.5866

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
lb/day																
2018	3.7226	37.6494	32.8017	0.0637	3.3917	1.7710	5.1627	1.6741	1.6507	3.3248	0.0000	5,261.9308	0.7401	0.0000	0.0000	5,277.4728
2019	1.6955	16.6482	12.6207	0.0249	0.0684	0.9219	0.9902	0.0184	0.8626	0.8810	0.0000	2,412.5436	0.6414	0.0000	0.0000	2,426.0129
2020	7.7772	15.1975	12.3968	0.0249	0.2012	0.8051	0.8735	0.0534	0.7533	0.7717	0.0000	2,369.6785	0.6392	0.0000	0.0000	2,383.1008
Total	13.1952	69.4952	57.8193	0.1035	3.6613	3.4980	7.0264	1.7459	3.2666	4.9775	0.0000	10,044.1530	2.0207	0.0000	0.0000	10,086.5866

	ROG	NOx	CO	SO2	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	47.59	0.00	32.12	51.07	0.00	26.80	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

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

Area	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	2.3200e-003
Energy	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	1.1600e-003	60.9975
Mobile	0.0380	0.1167	0.4914	1.7200e-003	0.1129	0.0302	0.1151	0.0302	2.0600e-003	0.0323	131.8409	131.8409	4.5300e-003	131.9361
Total	0.3101	0.1673	0.5348	2.0200e-003	0.1129	0.0302	0.1190	0.0302	5.9000e-003	0.0361	192.4716	192.4716	5.7000e-003	192.9359

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	Total CO2	CH4	N2O	CO2e
Area	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	1.0000e-005		2.3200e-003
Energy	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003		60.6285	1.1600e-003		60.9975
Mobile	0.0380	0.1167	0.4914	1.7200e-003	0.1129	0.0302	0.1151	0.0302	2.0600e-003	0.0323		131.8409	4.5300e-003		131.9361
Total	0.3101	0.1673	0.5348	2.0200e-003	0.1129	0.0302	0.1190	0.0302	5.9000e-003	0.0361		192.4716	5.7000e-003		192.9359

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2018	4/25/2018	5	61	
2	Grading	Grading	4/26/2018	9/5/2018	5	95	

3	Building Construction	Building Construction	9/6/2018	1/22/2020	5	360
4	Paving	Paving	1/23/2020	2/19/2020	5	20
5	Architectural Coating	Architectural Coating	2/20/2020	3/18/2020	5	20

Acres of Grading (Site Preparation Phase): 0.25

Acres of Grading (Grading Phase): 0.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,750; Non-Residential Outdoor: 5,250 (Architectural Coating --

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cranes	1	6.00	226	0.29
Site Preparation	Excavators	1	8.00	162	0.38
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Borer/Drill Rigs	1	6.00	205	0.50
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Plate Compactors	1	8.00	8	0.43
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	6,830.00	14.70	6.90	8.93	LD_Mix	HDT_Mix	HHDT
Building Construction	8	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Clean Paved Roads

3.2 Site Preparation - 2018
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					4.4200e-003	0.0000	4.4200e-003	4.8000e-004	0.0000	4.8000e-004			0.0000			0.0000
Off-Road	1.8135	19.1190	12.2132	0.0188	1.0240	1.0240	1.0240	0.9421	0.9421	0.9421	1,897.3486	6	1,897.3486	0.5907		1,909.7527
Total	1.8135	19.1190	12.2132	0.0188	4.4200e-003	1.0240	1.0285	4.8000e-004	0.9421	0.9426		1,897.3486	6	1,897.3486	0.5907	1,909.7527

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153		56.9868	56.9868	2.8700e-003		57.0471
Total	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153		56.9868	56.9868	2.8700e-003		57.0471

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					1.9900e-003	0.0000	1.9900e-003	2.1000e-004	0.0000	2.1000e-004			0.0000			0.0000
Off-Road	1.8135	19.1190	12.2132	0.0188	1.0240	1.0240	1.0240	0.9421	0.9421	0.9421		1.897.3486	1,897.3486	0.5907		1,909.7527
Total	1.8135	19.1190	12.2132	0.0188	1.9900e-003	1.0240	1.0260	2.1000e-004	0.9421	0.9423	0.0000	1,897.3486	1,897.3486	0.5907		1,909.7527

Mitigated Construction Off-Site

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

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															
Fugitive Dust					2.7199	0.0000	2.7199	1.4911	0.0000	1.4911			0.0000			0.0000
Off-Road	2.9596	29.1812	22.0276	0.0276		1.6468	1.6468		1.5364	1.5364	0.0000	2,740.2500	2,740.2500	0.7145		2,755.2537
Total	2.9596	29.1812	22.0276	0.0276	2.7199	1.6468	4.3667	1.4911	1.5364	3.0275	0.0000	2,740.2500	2,740.2500	0.7145		2,755.2537

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															
Hauling	0.7269	8.4223	10.2031	0.0247	0.5601	0.1232	0.6833	0.1534	0.1134	0.2668			2,407.7072	0.0199		2,408.1250
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306			113.9736	5.7400e-003		114.0942
Total	0.7630	8.4683	10.7742	0.0262	0.6718	0.1242	0.7961	0.1831	0.1143	0.2974			2,521.6808	0.0256		2,522.2192

3.4 Building Construction - 2018

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.8660	18.4709	12.4787	0.0237		1.0707	1.0707		1.0019	1.0019		2,348.9886	2,348.9886	0.6430		2,362.4905
Total	1.8660	18.4709	12.4787	0.0237		1.0707	1.0707		1.0019	1.0019		2,348.9886	2,348.9886	0.6430		2,362.4905

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0145	0.1467	0.1824	4.4000e-004	0.0125	2.3000e-003	0.0148	3.5500e-003	2.1100e-003	5.6600e-003		42.6249	42.6249	3.1000e-004		42.6315
Worker	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.5000e-004	0.0564	0.0148	4.5000e-004	0.0153		56.9868	56.9868	2.8700e-003		57.0471
Total	0.0325	0.1697	0.4679	1.1700e-003	0.0684	2.7900e-003	0.0712	0.0184	2.5600e-003	0.0209		99.6117	99.6117	3.1800e-003		99.6786

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.8660	18.4709	12.4787	0.0237		1.0707	1.0707		1.0019	1.0019	0.0000	2,348.9886	2,348.9886	0.6430		2,362.4905

Total	1.8660	18.4709	12.4787	0.0237	1.0707	1.0707	1.0019	1.0019	0.0000	2,348.9886	2,348.9886	0.6430	2,362.4905
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Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0145	0.1467	0.1824	4.4000e-004	0.0125	2.3000e-003	0.0148	3.5500e-003	2.1100e-003	5.6600e-003		42.6249	42.6249	3.1000e-004		42.6315
Worker	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153		56.9868	56.9868	2.8700e-003		57.0471
Total	0.0325	0.1697	0.4679	1.1700e-003	0.0684	2.7900e-003	0.0712	0.0184	2.5600e-003	0.0209		99.6117	99.6117	3.1800e-003		99.6786

3.4 Building Construction - 2019
Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	1.6651	16.4918	12.1828	0.0237		0.9192	0.9192		0.8602	0.8602		2,316.0388	2,316.0388	0.6384		2,329.4454
Total	1.6651	16.4918	12.1828	0.0237		0.9192	0.9192		0.8602	0.8602		2,316.0388	2,316.0388	0.6384		2,329.4454

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.1353	0.1758	4.4000e-004	0.0125	2.1800e-003	0.0147	3.5500e-003	2.0100e-003	5.5600e-003	41.7508	41.7508	41.7508	3.0000e-004		41.7572
Worker	0.0166	0.0211	0.2622	7.2000e-004	0.0559	4.8000e-004	0.0564	0.0148	4.4000e-004	0.0153	54.7540	54.7540	54.7540	2.6800e-003		54.8104
Total	0.0303	0.1564	0.4380	1.1600e-003	0.0684	2.6600e-003	0.0710	0.0184	2.4500e-003	0.0208	96.5048	96.5048	96.5048	2.9800e-003		96.5676

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	1.6651	16.4918	12.1828	0.0237		0.9192	0.9192	0.8602	0.8602	0.8602	0.0000	2.316.0388	2,316.0388	0.6384		2,329.4454
Total	1.6651	16.4918	12.1828	0.0237		0.9192	0.9192	0.8602	0.8602	0.8602	0.0000	2,316.0388	2,316.0388	0.6384		2,329.4454

Mitigated Construction Off-Site

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

Category	lb/day										lb/day									
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.1353	0.1758	4.4000e-004	0.0125	2.1800e-003	0.0147	3.5500e-003	2.0100e-003	5.5600e-003	41.7508	41.7508	3.0000e-004	41.7572	41.7572	3.0000e-004	41.7572	41.7572	3.0000e-004	41.7572
Worker	0.0166	0.0211	0.2622	7.2000e-004	0.0559	4.8000e-004	0.0564	0.0148	4.4000e-004	0.0153	54.7540	54.7540	2.6800e-003	54.8104	54.8104	2.6800e-003	54.8104	54.8104	2.6800e-003	54.8104
Total	0.0303	0.1564	0.4380	1.1600e-003	0.0684	2.6600e-003	0.0710	0.0184	2.4500e-003	0.0208	96.5048	96.5048	2.9800e-003	96.5676	96.5676	2.9800e-003	96.5676	96.5676	2.9800e-003	96.5676

3.4 Building Construction - 2020

Unmitigated Construction On-Site

Category	lb/day										lb/day				CO2e
Off-Road	1.5238	15.0695	11.9819	0.0237	0.8026	0.8026	0.8026	0.7510	0.7510	0.7510	2,276.3016	2,276.3016	0.6363	2,289.6642	2,289.6642
Total	1.5238	15.0695	11.9819	0.0237	0.8026	0.8026	0.8026	0.7510	0.7510	0.7510	2,276.3016	2,276.3016	0.6363	2,289.6642	2,289.6642

Unmitigated Construction Off-Site

Category	lb/day										lb/day				CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0132	0.1184	0.1705	4.4000e-004	0.0125	1.9900e-003	0.0145	3.5500e-003	1.8300e-003	5.3900e-003	40.8210	40.8210	3.0000e-004	40.8272	40.8272

Worker	0.0155	0.0196	0.2444	7.2000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.4000e-004	0.0153	52.5560	52.5560	2.5400e-003	52.6094
Total	0.0287	0.1380	0.4149	1.1600e-003	0.0684	2.4600e-003	0.0708	0.0184	2.2700e-003	0.0207	93.3770	93.3770	2.8400e-003	93.4366

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	lb/day																
Off-Road	1.5238	15.0595	11.9819	0.0237	0.8026	0.8026	0.8026	0.7510	0.7510	0.7510	0.0000	2,276.3016	2,276.3016	0.6363			2,289.6642
Total	1.5238	15.0595	11.9819	0.0237	0.8026	0.8026	0.8026	0.7510	0.7510	0.7510	0.0000	2,276.3016	2,276.3016	0.6363			2,289.6642

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Vendor	0.0132	0.1184	0.1705	4.4000e-004	0.0125	1.9900e-003	0.0145	3.5500e-003	1.8300e-003	5.3900e-003	40.8210	40.8210	40.8210	3.0000e-004			40.8272
Worker	0.0155	0.0196	0.2444	7.2000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.4000e-004	0.0153	52.5560	52.5560	52.5560	2.5400e-003			52.6094
Total	0.0287	0.1380	0.4149	1.1600e-003	0.0684	2.4600e-003	0.0708	0.0184	2.2700e-003	0.0207	93.3770	93.3770	93.3770	2.8400e-003			93.4366

3.5 Paving - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	0.7627	7.1320	7.0153	0.0111	0.3905	0.3905	0.3905	0.3626	0.3626	0.3626		1,020.0710	1,020.0710	0.2966		1,026.3002
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	0.7627	7.1320	7.0153	0.0111	0.3905	0.3905	0.3905	0.3626	0.3626	0.3626		1,020.0710	1,020.0710	0.2966		1,026.3002

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939
Total	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939

Mitigated Construction On-Site

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

Category	lb/day									
Off-Road	0.7627	7.1320	7.0153	0.0111	0.3905	0.3626	0.3626	1,020.0710	0.2966	1,026.3002
Paving	0.0000				0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.7627	7.1320	7.0153	0.0111	0.3905	0.3626	0.3626	1,020.0710	0.2966	1,026.3002

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939
Total	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939

3.6 Architectural Coating - 2020 Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	7.5319					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6638	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9057

Total	7.7741	1.6838	1.8314	2.9700e-003	0.1109	0.1109	0.1109	0.1109	0.1109	0.1109	281.4481	281.4481	0.0218	0.0218	281.9057
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Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003	10.5112	10.5112	5.1000e-004	5.1000e-004	10.5219	10.5219
Total	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003	10.5112	10.5112	5.1000e-004	5.1000e-004	10.5219	10.5219

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	7.5319					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003	0.1109	0.1109	0.1109	0.1109	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218	0.0218	281.9057
Total	7.7741	1.6838	1.8314	2.9700e-003	0.1109	0.1109	0.1109	0.1109	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218	0.0218	281.9057

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003		10.5112	10.5112	5.1000e-004		10.5219
Total	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003		10.5112	10.5112	5.1000e-004		10.5219

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Mitigated	0.0380	0.1167	0.4914	1.7200e-003	0.1129	2.2300e-003	0.1151	0.0302	2.0600e-003	0.0323		131.8409	131.8409	4.5300e-003		131.9361
Unmitigated	0.0380	0.1167	0.4914	1.7200e-003	0.1129	2.2300e-003	0.1151	0.0302	2.0600e-003	0.0323		131.8409	131.8409	4.5300e-003		131.9361

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		
General Light Industry	12.00	12.00	12.00	53,139	53,139

Total	12.00	12.00	12.00	53,139	53,139
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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-	H-S or C-C	H-O or C-NW	H-W or C-NW	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6			
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3			

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.527271	0.057774	0.179409	0.125521	0.039563	0.006393	0.017164	0.035220	0.002536	0.003167	0.003715	0.000530	0.001736

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
NaturalGas Mitigated	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975
NaturalGas Unmitigated	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use KBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
General Light Industry	515.342	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975

Mitigated

Land Use	NaturalGas Use KBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0.515342	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975
Total		5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975

6.0 Area Detail

6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Mitigated	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	2.3200e-003	2.3200e-003

Unmitigated	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	2.3200e-003
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6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.0426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003
Total	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.0426					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2239					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0300e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003
Total	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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 Vegetation

Venice Auxiliary Pumping Plant - Mitigated with Tier 3 Equipment Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	0.03	Acre	0.03	1,306.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2021

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1135	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity factor based on 2013 data from <https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5ni-eqan>. Construction shown to start the year after construction is complete (2021).

Land Use - Site is approximately 10,000 square feet and the pocket park would be approximately 1,000 square feet.

Construction Phase - Schedule based on information provided by the project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - CalEEMod defaults

Off-road Equipment - CalEEMod defaults

Grading - 10,000 cy would be excavated, 2,300 of which would be stockpiled at Laydown Area 1 (adjacent to the site) and 7,700 cy would be stockpiled at Laydown Area 3 (Culver City). All 2,300 cy at Laydown Area 1 would be reused at the project site and half of the Laydown Area 3 materials would be returned to the site. The remaining 3,850 would taken to a landfill.

Trips and VMT - Due to the small roadways near the project site, trucks with a 7-cy capacity were assumed. Laydown Area 1 is adjacent to the site (0.1 trip distance assumed), Laydown Area 3 is 7 miles from the project site, landfill site assumed to be 20 miles from Laydown Area 3. The weighted average trip distance is 8.93 miles. Worker trips based on two trips per day for the number of workers provided by the project engineer

On-road Fugitive Dust - CalEEMod defaults

Architectural Coating - Based on dimensions from Preliminary Design Report.

Vehicle Trips - Pocket park is assumed to generate no trips, as users would be neighborhood residents. The pumping plant would be operated by two employees per 8-hour shift, 24 hours per day, 7 days per week.

Energy Use - The new pumps would be used to achieve the same levels of wastewater flow as at present; new energy consumption would occur as result of the VAPP operational center, which would consume 569,400 kWh. Energy consumption would be 56.94 per square feet of the facility. CalEEMod defaults used for all other energy intensities.

Water And Wastewater - Potable water would be used for washdown and lavatory purposes. Defaults used.

Solid Waste - CalEEMod defaults

Construction Off-road Equipment Mitigation - Rule 403 compliance and Tier 3 equipment

Area Coating - Based on dimensions from Preliminary Design Report.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,653.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,960.00	7,750.00
tblAreaCoating	Area_Nonresidential_Interior	16960	7750
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorVa	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	50	0
tblConstDustMitigation	WaterExposedAreaPM10PercentReduc	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduc	61	55
tblConstEquipMitigation	NumberOfEquipMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipMitigated	0.00	2.00

tblGrading	MaterialExported	0.00	10,000.00
tblGrading	MaterialImported	0.00	6,150.00
tblOffRoadEquipment	UsageHours	4.00	6.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1135
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	Hauling TripLength	20.00	8.93
tblTripsAndVMT	Hauling TripNumber	2,019.00	6,830.00
tblTripsAndVMT	Worker TripNumber	10.00	5.00
tblTripsAndVMT	Worker TripNumber	13.00	10.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	1.32	1.20
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	0.68	1.20
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	6.97	1.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2018	3.7226	37.6494	32.8017	0.0637	6.7159	1.7710	8.4870	3.4965	1.6507	5.1472	0.0000	5,261.9308	15,261.9308	0.7401	0.0000	5,277.4728
2019	1.6955	16.6482	12.6207	0.0249	0.0684	0.9219	0.9902	0.0184	0.8626	0.8810	0.0000	2,412.5436	2,412.5436	0.6414	0.0000	2,426.0129

2020	7.7772	15.1975	12.3968	0.0249	0.2012	0.8051	0.5735	0.0534	0.7533	0.7717	0.0000	2,369.6785	2,369.6785	0.6392	0.0000	2,383.1008
Total	13.1952	69.4952	57.8193	0.1035	6.9855	3.4980	10.3506	3.5682	6.7999	6.7999	0.0000	10,044.1530	10,044.1530	2.0207	0.0000	10,086.5866

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
2018	1.4069	21.8873	28.6497	0.0637	3.3917	0.8668	4.2584	1.6741	0.8568	2.5309	0.0000	5,261.9308	5,261.9308	0.7401	0.0000	5,277.4728
2019	0.5847	11.8817	15.0869	0.0249	0.0684	0.6585	0.7269	0.0184	0.6583	0.6767	0.0000	2,412.5436	2,412.5436	0.6414	0.0000	2,426.0129
2020	7.5944	11.8633	15.0639	0.0249	0.2012	0.6583	0.7267	0.0534	0.6581	0.6765	0.0000	2,369.6785	2,369.6785	0.6392	0.0000	2,383.1008
Total	9.5860	45.6322	58.8005	0.1035	3.6613	2.1836	5.7120	1.7459	2.1733	3.8842	0.0000	10,044.1530	10,044.1530	2.0207	0.0000	10,086.5866

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3200e-003
Energy	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	0.0000	60.6285	60.6285	1.1600e-003	1.100e-003	60.9975

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2000e-003	2.2000e-003	1.0000e-005	0.0000	2.3200e-003
Energy	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	0.0000	60.6285	60.6285	1.1600e-003	1.100e-003	60.9975

Mobile	0.0380	0.1167	0.4914	1.7200e-003	0.1129	2.2300e-003	0.1151	0.0302	2.0600e-003	0.0323	131.8409	131.8409	4.5300e-003	131.9361
Total	0.3101	0.1673	0.5348	2.0200e-003	0.1129	6.0700e-003	0.1190	0.0302	5.9000e-003	0.0361	192.4716	192.4716	5.7000e-003	192.9359

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Area	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003
Energy	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003		60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975
Mobile	0.0380	0.1167	0.4914	1.7200e-003	0.1129	2.2300e-003	0.1151	0.0302	2.0600e-003	0.0323		131.8409	131.8409	4.5300e-003		131.9361
Total	0.3101	0.1673	0.5348	2.0200e-003	0.1129	6.0700e-003	0.1190	0.0302	5.9000e-003	0.0361		192.4716	192.4716	5.7000e-003	1.1100e-003	192.9359

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2018	4/25/2018	5	60	
2	Grading	Grading	4/26/2018	9/5/2018	5	95	
3	Building Construction	Building Construction	9/6/2018	1/22/2020	5	363	
4	Paving	Paving	1/23/2020	2/19/2020	5	20	
5	Architectural Coating	Architectural Coating	2/20/2020	3/18/2020	5	20	

Acres of Grading (Site Preparation Phase): 0.25

Acres of Grading (Grading Phase): 0.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,750; Non-Residential Outdoor: 5,250 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cranes	1	6.00	226	0.29
Site Preparation	Excavators	1	8.00	162	0.38
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	6.00	205	0.50
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Plate Compactors	1	8.00	8	0.43
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	6,830.00	14.70	6.90	8.93	LD_Mix	HDT_Mix	HHDT
Building Construction	8	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Water Exposed Area
 Clean Paved Roads

3.2 Site Preparation - 2018 Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					4.4200e-003	0.0000	4.4200e-003	4.8000e-004	0.0000	4.8000e-004			0.0000			0.0000
Off-Road	1.8135	19.1190	12.2132	0.0188	1.0240	1.0240	1.0240	0.9421	0.9421	0.9421		1,897.3486	1,897.3486	0.5907		1,909.7527
Total	1.8135	19.1190	12.2132	0.0188	4.4200e-003	1.0240	1.0285	4.8000e-004	0.9421	0.9426		1,897.3486	1,897.3486	0.5907		1,909.7527

Unmitigated Construction Off-Site

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

Category	lb/day										lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153	56.9868	56.9868	2.8700e-003	57.0471	57.0471
Total	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153	56.9868	56.9868	2.8700e-003	57.0471	57.0471

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					1.9900e-003	0.0000	1.9900e-003	2.1000e-004	0.0000	2.1000e-004			0.0000			0.0000
Off-Road	0.4613	9.1837	13.2688	0.0188	0.4604	0.4604	0.4604	0.4604	0.4604	0.4604	0.0000	1,897.3486	1,897.3486	0.5907		1,909.7527
Total	0.4613	9.1837	13.2688	0.0188	1.9900e-003	0.4604	0.4623	2.1000e-004	0.4604	0.4606	0.0000	1,897.3486	1,897.3486	0.5907		1,909.7527

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000

Worker	0.0180	0.0230	0.2856	7.3000e-004	0.0559	0.0148	4.5000e-004	0.0153	56.9868	56.9868	2.8700e-003	57.0471
Total	0.0180	0.0230	0.2856	7.3000e-004	0.0559	0.0148	4.5000e-004	0.0153	56.9868	56.9868	2.8700e-003	57.0471

3.3 Grading - 2018

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					6.0441	0.0000	6.0441	3.3134	0.0000	3.3134			0.0000			0.0000
Off-Road	2.9596	29.1812	22.0276	0.0276	1.6468	1.6468	1.6468	1.5364	1.5364	1.5364		2,740.2500	2,740.2500	0.7145		2,755.2537
Total	2.9596	29.1812	22.0276	0.0276	6.0441	1.6468	7.6909	3.3134	1.5364	4.8499		2,740.2500	2,740.2500	0.7145		2,755.2537

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.7269	8.4223	10.2031	0.0247	0.5601	0.1232	0.6833	0.1534	0.1134	0.2668		2,407.7022	2,407.7072	0.0199		2,408.1250
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306		113.9736	113.9736	5.7400e-003		114.0942
Total	0.7630	8.4683	10.7742	0.0262	0.6718	0.1242	0.7961	0.1831	0.1143	0.2974		2,521.6808	2,521.6808	0.0256		2,522.2192

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.7199	0.0000	2.7199	1.4911	0.0000	1.4911			0.0000			0.0000
Off-Road	0.6439	13.4190	17.8755	0.0276		0.7425	0.7425		0.7425	0.7425	0.0000	2,740.2500	2,740.2500	0.7145		2,755.2537
Total	0.6439	13.4190	17.8755	0.0276	2.7199	0.7425	3.4624	1.4911	0.7425	2.2336	0.0000	2,740.2500	2,740.2500	0.7145		2,755.2537

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.7269	8.4223	10.2031	0.0247	0.5601	0.1232	0.6833	0.1534	0.1134	0.2668		2,407.7022	2,407.7072	0.0199		2,408.1250
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306		113.9736	113.9736	5.7400e-003		114.0942
Total	0.7630	8.4683	10.7742	0.0262	0.6718	0.1242	0.7961	0.1831	0.1143	0.2974		2,521.6808	2,521.6808	0.0256		2,522.2192

3.4 Building Construction - 2018

Unmitigated Construction On-Site

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

Category	lb/day										
Off-Road	1.8660	18.4709	12.4787	0.0237	1.0707	1.0707	1.0019	1.0019	2,348.9886	0.6430	2,362.4905
Total	1.8660	18.4709	12.4787	0.0237	1.0707	1.0707	1.0019	1.0019	2,348.9886	0.6430	2,362.4905

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0145	0.1467	0.1824	4.4000e-004	0.0125	2.3000e-003	0.0148	3.5500e-003	2.1100e-003	5.6600e-003		42.6249	42.6249	3.1000e-004		42.6315
Worker	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153		56.9868	56.9868	2.8700e-003		57.0471
Total	0.0325	0.1697	0.4679	1.1700e-003	0.0684	2.7900e-003	0.0712	0.0184	2.5600e-003	0.0209		99.6117	99.6117	3.1800e-003		99.6786

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	0.5544	11.7253	14.6490	0.0237	0.6559	0.6559	0.6559	0.6559	0.6559	0.6559	0.0000	2,348.9886	2,348.9886	0.6430		2,362.4905
Total	0.5544	11.7253	14.6490	0.0237	0.6559	0.6559	0.6559	0.6559	0.6559	0.6559	0.0000	2,348.9886	2,348.9886	0.6430		2,362.4905

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0145	0.1467	0.1824	4.4000e-004	0.0125	2.3000e-003	0.0148	3.5500e-003	2.1100e-003	5.6600e-003		42.6249	42.6249	3.1000e-004		42.6315
Worker	0.0180	0.0230	0.2856	7.3000e-004	0.0559	4.9000e-004	0.0564	0.0148	4.5000e-004	0.0153		56.9868	56.9868	2.8700e-003		57.0471
Total	0.0325	0.1697	0.4679	1.1700e-003	0.0684	2.7900e-003	0.0712	0.0184	2.5600e-003	0.0209		99.6117	99.6117	3.1800e-003		99.6786

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.6651	16.4918	12.1828	0.0237		0.9192	0.9192		0.8602	0.8602		2,316.0388	2,316.0388	0.6384		2,329.4454
Total	1.6651	16.4918	12.1828	0.0237		0.9192	0.9192		0.8602	0.8602		2,316.0388	2,316.0388	0.6384		2,329.4454

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0138	0.1353	0.1758	4.4000e-004	0.0125	2.1800e-003	0.0147	3.5500e-003	2.0100e-003	5.5600e-003		41.7508	41.7508	3.0000e-004		41.7572
Worker	0.0166	0.0211	0.2622	7.2000e-004	0.0559	4.8000e-004	0.0564	0.0148	4.4000e-004	0.0153		54.7540	54.7540	2.6800e-003		54.8104
Total	0.0303	0.1564	0.4380	1.1600e-003	0.0684	2.6600e-003	0.0710	0.0184	2.4500e-003	0.0208		96.5048	96.5048	2.9800e-003		96.5676

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															
Off-Road	0.5544	11.7253	14.6490	0.0237		0.6559	0.6559		0.6559	0.6559	0.0000	2.316.0388	2.316.0388	0.6384		2,329.4454
Total	0.5544	11.7253	14.6490	0.0237		0.6559	0.6559		0.6559	0.6559	0.0000	2.316.0388	2.316.0388	0.6384		2,329.4454

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															

Total	0.0287	0.1380	0.4149	1.1600e-003	0.0684	2.4600e-003	0.0708	0.0184	2.2700e-003	0.0207	93.3770	93.3770	2.8400e-003	93.4366
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Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	0.5544	11.7253	14.6490	0.0237		0.6559	0.6559		0.6559	0.6559	0.0000	2,276.3016	2,276.3016	0.6363		2,289.6642
Total	0.5544	11.7253	14.6490	0.0237		0.6559	0.6559		0.6559	0.6559	0.0000	2,276.3016	2,276.3016	0.6363		2,289.6642

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0132	0.1184	0.1705	4.4000e-004	0.0125	1.9900e-003	0.0145	3.5500e-003	1.8300e-003	5.3900e-003		40.8210	40.8210	3.0000e-004		40.8272
Worker	0.0155	0.0196	0.2444	7.2000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.4000e-004	0.0153		52.5560	52.5560	2.5400e-003		52.6004
Total	0.0287	0.1380	0.4149	1.1600e-003	0.0684	2.4600e-003	0.0708	0.0184	2.2700e-003	0.0207		93.3770	93.3770	2.8400e-003		93.4366

3.5 Paving - 2020
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day																
Off-Road	0.7627	7.1320	7.0153	0.0111		0.3905	0.3905		0.3626	0.3626		1,020.0710	1,020.0710	0.2966			1,026.3002
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.7627	7.1320	7.0153	0.0111		0.3905	0.3905		0.3626	0.3626		1,020.0710	1,020.0710	0.2966			1,026.3002

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																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003			189.3939
Total	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003			189.3939

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															

Off-Road	0.2200	4.6827	6.7829	0.0111	0.2872	0.2872	0.2872	0.0000	1,020.0710	0.2966			1,026.3002
Paving	0.0000				0.0000	0.0000	0.0000	0.0000	0.0000				0.0000
Total	0.2200	4.6827	6.7829	0.0111	0.2872	0.2872	0.2872	0.0000	1,020.0710	0.2966			1,026.3002

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939
Total	0.0559	0.0704	0.8798	2.6100e-003	0.2012	1.7000e-003	0.2029	0.0534	1.5800e-003	0.0549		189.2015	189.2015	9.1600e-003		189.3939

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	7.5319					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003	0.1109	0.1109	0.1109	0.1109	0.1109	0.1109		281.4481	281.4481	0.0218		281.9057
Total	7.7741	1.6838	1.8314	2.9700e-003	0.1109	0.1109	0.1109	0.1109	0.1109	0.1109		281.4481	281.4481	0.0218		281.9057

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003	10.5112	10.5112	5.1000e-004	5.1000e-004		10.5219
Total	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003	10.5112	10.5112	5.1000e-004	5.1000e-004		10.5219

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	7.5319				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9057
Total	7.5913	1.3570	1.8324	2.9700e-003	0.0951	0.0951	0.0951	0.0951	0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9057

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003	10.5112	10.5112	5.1000e-004			10.5219
Total	3.1000e-003	3.9100e-003	0.0489	1.4000e-004	0.0112	9.0000e-005	0.0113	2.9600e-003	9.0000e-005	3.0500e-003	10.5112	10.5112	5.1000e-004			10.5219

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Mitigated	0.0380	0.1167	0.4914	1.7200e-003	0.1129	2.2300e-003	0.1151	0.0302	2.0600e-003	0.0323		131.8409	131.8409	4.5300e-003		131.9361
Unmitigated	0.0380	0.1167	0.4914	1.7200e-003	0.1129	2.2300e-003	0.1151	0.0302	2.0600e-003	0.0323		131.8409	131.8409	4.5300e-003		131.9361

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		
General Light Industry	12.00	12.00	12.00	53,139	53,139
Total	12.00	12.00	12.00	53,139	53,139

4.3 Trip Type Information

Land Use	lb/day											lb/day			
General Light Industry	515.342	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total		5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975

Mitigated

Land Use	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0.515342	5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003		60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975
Total		5.5600e-003	0.0505	0.0424	3.0000e-004	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003	3.8400e-003		60.6285	60.6285	1.1600e-003	1.1100e-003	60.9975

6.0 Area Detail

6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003
Unmitigated	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.0426				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2239				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003
Total	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.0426				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2239				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003
Total	0.2665	1.0000e-005	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.2000e-003	2.2000e-003	1.0000e-005		2.3200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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 Vegetation

Venice Auxiliary Pumping Plant Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	0.03	Acre	0.03	1,306.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2021

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1135	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity factor based on 2013 data from <https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5ni-eqan>. Construction shown to start the year after construction is complete (2021).

Land Use - Site is approximately 10,000 square feet and the pocket park would be approximately 1,000 square feet.

Construction Phase - Schedule based on information provided by the project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - CalEEMod defaults

Off-road Equipment - CalEEMod defaults

Grading - 10,000 cy would be excavated, 2,300 of which would be stockpiled at Laydown Area 1 (adjacent to the site) and 7,700 cy would be stockpiled at Laydown Area 3 (Culver City). All 2,300 cy at Laydown Area 1 would be reused at the project site and half of the Laydown Area 3 materials would be returned to the site. The remaining 3,850 would be taken to a landfill.

Trips and VMT - Due to the small roadways near the project site, trucks with a 7-cy capacity were assumed. Laydown Area 1 is adjacent to the site (0.1 trip distance assumed), Laydown Area 3 is 7 miles from the project site, landfill site assumed to be 20 miles from Laydown Area 3. The weighted average trip distance is 8.93 miles. Worker trips based on two trips per day for the number of workers provided by the project engineer

On-road Fugitive Dust - CalEEMod defaults

Architectural Coating - Based on dimensions from Preliminary Design Report.

Vehicle Trips - Pocket park is assumed to generate no trips, as users would be neighborhood residents. The pumping plant would be operated by two employees per 8-hour shift, 24 hours per day, 7 days per week.

Energy Use - The new pumps would be used to achieve the same levels of wastewater flow as at present; new energy consumption would occur as result of the VAPP operational center, which would consume 569,400 kWh. Energy consumption would be 56.94 per square feet of the facility. CalEEMod defaults used for all other energy intensities.

Water And Wastewater - Potable water would be used for washdown and lavatory purposes. Defaults used.

Solid Waste - CalEEMod defaults

Construction Off-road Equipment Mitigation - Rule 403 compliance

Area Coating - Based on dimensions from Preliminary Design Report.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,653.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,960.00	7,750.00
tblAreaCoating	Area_Nonresidential_Interior	16960	7750
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorVa	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVal	50	0
tblConstDustMitigation	WaterExposedAreaPM10PercentReduc	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduc	61	55
tblConstructionPhase	NumDays	5.00	20.00
tblConstructionPhase	NumDays	100.00	360.00
tblConstructionPhase	NumDays	2.00	95.00
tblConstructionPhase	NumDays	5.00	20.00

tb ConstructionPhase	NumDays	1.00	60.00
tb EnergyUse	NT24E	5.75	56.94
tb Grading	AcresOfGrading	47.50	0.25
tb Grading	AcresOfGrading	30.00	0.25
tb Grading	MaterialExported	0.00	10,000.00
tb Grading	MaterialImported	0.00	6,150.00
tb OffRoadEquipment	UsageHours	4.00	6.00
tb OffRoadEquipment	UsageHours	1.00	8.00
tb OffRoadEquipment	UsageHours	6.00	8.00
tb ProjectCharacteristics	CO2IntensityFactor	1227.89	1136
tb ProjectCharacteristics	OperationalYear	2014	2021
tb TripsAndVMT	HaulingTripLength	20.00	8.93
tb TripsAndVMT	HaulingTripNumber	2,019.00	6,830.00
tb TripsAndVMT	WorkerTripNumber	10.00	5.00
tb TripsAndVMT	WorkerTripNumber	13.00	10.00
tb VehicleTrips	ST_TR	1.59	0.00
tb VehicleTrips	ST_TR	1.32	1.20
tb VehicleTrips	SU_TR	1.59	0.00
tb VehicleTrips	SU_TR	0.68	1.20
tb VehicleTrips	WD_TR	1.59	0.00
tb VehicleTrips	WD_TR	6.97	1.20

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2018	4/25/2018	5	60	
2	Grading	Grading	4/26/2018	9/5/2018	5	95	
3	Building Construction	Building Construction	9/6/2018	1/22/2020	5	360	
4	Paving	Paving	1/23/2020	2/19/2020	5	20	
5	Architectural Coating	Architectural Coating	2/20/2020	3/18/2020	5	20	

Acres of Grading (Site Preparation Phase): 0.25

Acres of Grading (Grading Phase): 0.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,750; Non-Residential Outdoor: 5,250 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cranes	1	6.00	226	0.29
Site Preparation	Excavators	1	8.00	162	0.38
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	6.00	205	0.50
Building Construction	Cranes	1	6.00	226	0.29

Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Plate Compactors	1	8.00	8	0.43
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	6,830.00	14.70	6.90	8.93	LD_Mix	HDT_Mix	HHDT
Building Construction	8	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Clean Paved Roads

3.2 Site Preparation - 2018 Unmitigated Construction On-Site

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

Fugitive Dust					1.3000e-004	0.0000	1.3000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5736	0.3664	5.7000e-004	0.0307	0.0307	0.0307	0.0283	0.0283	0.0283	0.0000	51.6374	51.6374	0.0161	0.0000	0.0000	51.9750
Total	0.0544	0.5736	0.3664	5.7000e-004	0.0307	0.0307	0.0309	1.0000e-005	0.0283	0.0283	0.0000	51.6374	51.6374	0.0161	0.0000	0.0000	51.9750

Unmitigated Construction Off-Site

Category	tons/yr																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	7.9000e-004	8.1600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4872	1.4872	8.0000e-005	0.0000	0.0000	1.4889
Total	5.3000e-004	7.9000e-004	8.1600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4872	1.4872	8.0000e-005	0.0000	0.0000	1.4889

Mitigated Construction On-Site

Category	tons/yr																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Off-Road	0.0544	0.5736	0.3664	5.7000e-004	0.0307	0.0307	0.0307	0.0283	0.0283	0.0283	0.0000	51.6373	51.6373	0.0161	0.0000	0.0000	51.9749
Total	0.0544	0.5736	0.3664	5.7000e-004	0.0307	0.0308	0.0308	1.0000e-005	0.0283	0.0283	0.0000	51.6373	51.6373	0.0161	0.0000	0.0000	51.9749

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	tons/yr																
	MT/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	7.9000e-004	8.1600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4872	1.4872	8.0000e-005	0.0000	0.0000	1.4889
Total	5.3000e-004	7.9000e-004	8.1600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4872	1.4872	8.0000e-005	0.0000	0.0000	1.4889

3.3 Grading - 2018

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Fugitive Dust					0.2871	0.0000	0.2871	0.1574	0.0000	0.1574	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.3861	1.0463	1.3100e-003	0.0782	0.0782	0.0782	0.0730	0.0730	0.0730	0.0000	118.0809	118.0809	0.0308	0.0000	118.7274
Total	0.1406	1.3861	1.0463	1.3100e-003	0.2871	0.0782	0.3653	0.1574	0.0730	0.2304	0.0000	118.0809	118.0809	0.0308	0.0000	118.7274

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	tons/yr																
Hauling	0.0364	0.4197	0.5710	1.1700e-003	0.0262	5.8700e-003	0.0320	7.1800e-003	5.4000e-003	0.0126	0.0000	103.5285	103.5285	8.7000e-004	0.0000	0.0000	103.5467
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6700e-003	2.4900e-003	0.0258	7.0000e-005	5.2100e-003	5.0000e-005	5.2500e-003	1.3800e-003	4.0000e-005	1.4300e-003	0.0000	4.7096	4.7096	2.5000e-004	0.0000	0.0000	4.7148
Total	0.0381	0.4222	0.5968	1.2400e-003	0.0314	5.9200e-003	0.0373	8.5600e-003	5.4400e-003	0.0140	0.0000	108.2381	108.2381	1.1200e-003	0.0000	0.0000	108.2615

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
Fugitive Dust					0.1292	0.0000	0.1292	0.0708	0.0000	0.0708	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1406	1.3861	1.0463	1.3100e-003		0.0782	0.0782		0.0730	0.0730	0.0000	118.0807	118.0807	0.0308	0.0000	118.7273
Total	0.1406	1.3861	1.0463	1.3100e-003	0.1292	0.0782	0.2074	0.0708	0.0730	0.1438	0.0000	118.0807	118.0807	0.0308	0.0000	118.7273

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	tons/yr																
Hauling	0.0364	0.4197	0.5710	1.1700e-003	0.0262	5.8700e-003	0.0320	7.1800e-003	5.4000e-003	0.0126	0.0000	103.5285	103.5285	8.7000e-004	0.0000	0.0000	103.5467

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															
Off-Road	0.0774	0.7665	0.5179	9.8000e-004	0.0444	0.0444	0.0444	0.0416	0.0416	0.0416	0.0000	88.4350	88.4350	0.0242	0.0000	88.9433
Total	0.0774	0.7665	0.5179	9.8000e-004	0.0444	0.0444	0.0444	0.0416	0.0416	0.0416	0.0000	88.4350	88.4350	0.0242	0.0000	88.9433
Category	MT/yr															

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	6.3600e-003	8.9600e-003	2.0000e-005	5.1000e-004	1.0000e-004	6.1000e-004	1.5000e-004	9.0000e-005	2.3000e-004	0.0000	1.5991	1.5991	1.0000e-005	0.0000	1.5994
Worker	7.3000e-004	1.0900e-003	0.0113	3.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0573	2.0573	1.1000e-004	0.0000	2.0596
Total	1.3700e-003	7.4500e-003	0.0203	5.0000e-005	2.7800e-003	1.2000e-004	2.9000e-003	7.5000e-004	1.1000e-004	8.5000e-004	0.0000	3.6565	3.6565	1.2000e-004	0.0000	3.6590
Category	MT/yr															

3.4 Building Construction - 2019

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
MT/yr																
Off-Road	0.2173	2.1522	1.5899	3.0900e-003		0.1200	0.1200		0.1123	0.1123	0.0000	274.1903	274.1903	0.0756	0.0000	275.7775
Total	0.2173	2.1522	1.5899	3.0900e-003		0.1200	0.1200		0.1123	0.1123	0.0000	274.1903	274.1903	0.0756	0.0000	275.7775

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	1.9000e-003	0.0184	0.0272	6.0000e-005	1.6000e-003	2.9000e-004	1.8900e-003	4.6000e-004	2.6000e-004	7.2000e-004	0.0000	4.9254	4.9254	4.0000e-005	0.0000	4.9261
Worker	2.1000e-003	3.1300e-003	0.0325	9.0000e-005	7.1500e-003	6.0000e-005	7.2100e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.2157	6.2157	3.2000e-004	0.0000	6.2224
Total	4.0000e-003	0.0216	0.0598	1.5000e-004	8.7500e-003	3.5000e-004	9.1000e-003	2.3600e-003	3.2000e-004	2.6800e-003	0.0000	11.1411	11.1411	3.6000e-004	0.0000	11.1485

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
MT/yr																
Off-Road	0.2173	2.1522	1.5899	3.0900e-003		0.1200	0.1200		0.1123	0.1123	0.0000	274.1900	274.1900	0.0756	0.0000	275.7771

Total	0.2173	2.1522	1.5899	3.0900e-003	0.1200	0.1200	0.1123	0.1123	0.0000	274.1900	274.1900	0.0756	0.0000	275.7771
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Mitigated Construction Off-Site

Category	tons/yr													MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	1.9000e-003	0.0184	0.0272	6.0000e-005	1.6000e-003	2.9000e-004	1.8900e-003	4.6000e-004	2.6000e-004	7.2000e-004	0.0000	4.9254	4.9254	4.0000e-005	0.0000	4.9261	
Worker	2.1000e-003	3.1300e-003	0.0325	9.0000e-005	7.1500e-003	6.0000e-005	7.2100e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.2157	6.2157	3.2000e-004	0.0000	6.2224	
Total	4.0000e-003	0.0216	0.0598	1.5000e-004	8.7500e-003	3.5000e-004	9.1000e-003	2.3600e-003	3.2000e-004	2.6800e-003	0.0000	11.1411	11.1411	3.6000e-004	0.0000	11.1485	

3.4 Building Construction - 2020
Unmitigated Construction On-Site

Category	tons/yr													MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	0.0122	0.1205	0.0959	1.9000e-004	6.4200e-003	6.4200e-003	6.4200e-003	6.0100e-003	6.0100e-003	6.0100e-003	0.0000	16.5202	16.5202	4.6200e-003	0.0000	16.6172	
Total	0.0122	0.1205	0.0959	1.9000e-004	6.4200e-003	6.4200e-003	6.4200e-003	6.0100e-003	6.0100e-003	6.0100e-003	0.0000	16.5202	16.5202	4.6200e-003	0.0000	16.6172	

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/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	1.1000e-004	9.9000e-004	1.6200e-003	0.0000	1.0000e-004	2.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.2952	0.2952	0.0000	0.0000	0.2953
Worker	1.2000e-004	1.8000e-004	1.8600e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3657	0.3657	2.0000e-005	0.0000	0.3661
Total	2.3000e-004	1.1700e-003	3.4800e-003	1.0000e-005	5.4000e-004	2.0000e-005	5.5000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	0.6609	0.6609	2.0000e-005	0.0000	0.6614
MT/yr																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Off-Road	0.0122	0.1205	0.0959	1.9000e-004	6.4200e-003	6.4200e-003	6.4200e-003	6.0100e-003	6.0100e-003	6.0100e-003	0.0000	16.5202	16.5202	4.6200e-003	0.0000	16.6172
Total	0.0122	0.1205	0.0959	1.9000e-004	6.4200e-003	6.4200e-003	6.4200e-003	6.0100e-003	6.0100e-003	6.0100e-003	0.0000	16.5202	16.5202	4.6200e-003	0.0000	16.6172
MT/yr																

Mitigated Construction Off-Site

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

Worker	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	8.0000e-005	0.0000	1.6475
Total	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	8.0000e-005	0.0000	1.6475

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
	tons/yr																
Off-Road	7.6300e-003	0.0713	0.0702	1.1000e-004	3.9000e-003	3.9000e-003	3.9000e-003	3.6300e-003	3.6300e-003	3.6300e-003	0.0000	9.2539	9.2539	2.6900e-003	0.0000	0.0000	9.3104
Paving	0.0000				0.0000	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	7.6300e-003	0.0713	0.0702	1.1000e-004	3.9000e-003	3.9000e-003	3.9000e-003	3.6300e-003	3.6300e-003	3.6300e-003	0.0000	9.2539	9.2539	2.6900e-003	0.0000	0.0000	9.3104

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475
Total	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475

3.6 Architectural Coating - 2020

Category	tons/yr										MT/yr							
Electricity Mitigated									0.0000	0.0000	0.0000	325.5768	325.5768	8.3200e-003	1.7200e-003	326.2851		
Electricity Unmitigated									0.0000	0.0000	0.0000	325.5768	325.5768	8.3200e-003	1.7200e-003	326.2851		
NaturalGas Mitigated	1.0100e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988			
NaturalGas Unmitigated	1.0100e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988			

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBtu/yr	tons/yr										MT/yr				CO2e	
		SO2	CO	NOx	ROG	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4		N2O
General Light Industry	188100	6.0000e-005	7.7500e-003	9.2200e-003	1.0100e-003	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	0.0000	10.0377	1.9000e-004	1.8000e-004	10.0988
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.0000e-005	7.7500e-003	9.2200e-003	1.0100e-003	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	0.0000	10.0377	1.9000e-004	1.8000e-004	10.0988

Mitigated

Land Use	NaturalGas Use kBtu/yr	tons/yr										MT/yr				CO2e	
		SO2	CO	NOx	ROG	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4		N2O
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	188100	6.0000e-005	7.7500e-003	9.2200e-003	1.0100e-003	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	0.0000	10.0377	1.9000e-004	1.8000e-004	10.0988

Total	1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	0.0000	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988
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5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	632400	325.5768	8.3200e-003	1.7200e-003	326.2851
Total		325.5768	8.3200e-003	1.7200e-003	326.2851

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	632400	325.5768	8.3200e-003	1.7200e-003	326.2851
Total		325.5768	8.3200e-003	1.7200e-003	326.2851

6.0 Area Detail

6.1 Mitigation Measures Area

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.0357444	0.2045	1.0000e-005	0.0000	0.2049
General Light Industry	2.3125 / 0	16.2357	0.0757	1.8600e-003	18.4022
Total		16.4401	0.0758	1.8600e-003	18.6071

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.5171	0.1488	0.0000	5.6410
Unmitigated	2.5171	0.1488	0.0000	5.6410

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	12.4	2.5171	0.1488	0.0000	5.6410
Total		2.5171	0.1488	0.0000	5.6410

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	12.4	2.5171	0.1488	0.0000	5.6410
Total		2.5171	0.1488	0.0000	5.6410

9.0 Operational Offroad

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

Venice Auxiliary Pumping Plant - Mitigated with Tier 3 Equipment

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	0.03	Acre	0.03	1,306.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2021

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1135	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 intensity factor based on 2013 data from <https://data.lacity.org/A-Livable-and-Sustainable-City/LADWP-CO2-Generation/e5ni-eqan>. Construction shown to start the year after construction is complete (2021).

Land Use - Site is approximately 10,000 square feet and the pocket park would be approximately 1,000 square feet.

Construction Phase - Schedule based on information provided by the project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - Equipment list provided by project engineer.

Off-road Equipment - CalEEMod defaults

Off-road Equipment - CalEEMod defaults

Grading - 10,000 cy would be excavated, 2,300 of which would be stockpiled at Laydown Area 1 (adjacent to the site) and 7,700 cy would be stockpiled at Laydown Area 3 (Culver City). All 2,300 cy at Laydown Area 1 would be reused at the project site and half of the Laydown Area 3 materials would be returned to the site. The remaining 3,850 would taken to a landfill.

Trips and VMT - Due to the small roadways near the project site, trucks with a 7-cy capacity were assumed. Laydown Area 1 is adjacent to the site (0.1 trip distance assumed), Laydown Area 3 is 7 miles from the project site, landfill site assumed to be 20 miles from Laydown Area 3. The weighted average trip distance is 8.93 miles. Worker trips based on two trips per day for the number of workers provided by the project engineer

On-road Fugitive Dust - CalEEMod defaults

Architectural Coating - Based on dimensions from Preliminary Design Report.

Vehicle Trips - Pocket park is assumed to generate no trips, as users would be neighborhood residents. The pumping plant would be operated by two employees per 8-hour shift, 24 hours per day, 7 days per week.

Energy Use - The new pumps would be used to achieve the same levels of wastewater flow as at present; new energy consumption would occur as result of the VAPP operational center, which would consume 569,400 kWh. Energy consumption would be 56.94 per square feet of the facility. CalEEMod defaults used for all other energy intensities.

Water And Wastewater - Potable water would be used for washdown and lavatory purposes. Defaults used.

Solid Waste - CalEEMod defaults

Construction Off-road Equipment Mitigation - Rule 403 compliance and Tier 3 equipment

Area Coating - Based on dimensions from Preliminary Design Report.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	5,653.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	16,960.00	7,750.00
tblAreaCoating	Area_Nonresidential_Interior	16960	7750
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	55
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	55
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblGrading	MaterialImported	0.00	6,150.00
tblOffRoadEquipment	UsageHours	4.00	6.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1135
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	HaulingTripLength	20.00	8.93
tblTripsAndVMT	HaulingTripNumber	2,019.00	6,830.00
tblTripsAndVMT	WorkerTripNumber	10.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	1.32	1.20
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	0.68	1.20
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	6.97	1.20

2.0 Emissions Summary

2.1 Overall Construction Unmitigated Construction

Year	tons/yr										MTr/yr					
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
2018	0.3124	3.1566	2.5558	4.1700e-003	0.3230	0.1594	0.4824	0.1672	0.1484	0.3155	0.0000	371.5351	371.5351	0.0724	0.0000	373.0551
2019	0.2213	2.1738	1.6496	3.2400e-003	8.7500e-003	0.1203	0.1291	2.3600e-003	0.1126	0.1149	0.0000	285.3314	285.3314	0.0759	0.0000	286.9260
2020	0.0984	0.2107	0.1966	3.7000e-004	2.6200e-003	0.0115	0.0141	7.0000e-004	0.0108	0.0115	0.0000	30.7255	30.7255	7.6200e-003	0.0000	30.8854

Total	0.6321	5.5410	4.4020	7.7800e-003	0.3344	0.2912	0.6256	0.1702	0.2717	0.4419	0.0000	687.5920	0.1559	0.0000	690.8665
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Mitigated Construction

Year	tons/yr										MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
2018	0.1074	1.8299	2.4803	4.1700e-003	0.1650	0.0823	0.2474	0.0806	0.0819	0.1624	0.0000	371.5348	0.0724	0.0000	373.0548
2019	0.0764	1.5517	1.9715	3.2400e-003	8.7500e-003	0.0859	0.0947	2.3600e-003	0.0859	0.0883	0.0000	285.3310	0.0759	0.0000	286.9256
2020	0.0834	0.1562	0.2156	3.7000e-004	2.6200e-003	9.1100e-003	0.0117	7.0000e-004	9.1000e-003	9.8000e-003	0.0000	30.7255	7.6200e-003	0.0000	30.8854
Total	0.2671	3.5379	4.6674	7.7800e-003	0.1764	0.1774	0.3538	0.0836	0.1769	0.2605	0.0000	687.5913	0.1559	0.0000	690.8658

Percent Reduction	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
57.74	57.74	36.15	-6.03	0.00	47.25	39.08	43.45	50.86	34.91	41.06	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	0.0486	0.0000	1.3000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5000e-004	0.0000	0.0000	0.0000	2.6000e-004
Energy	1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004	0.0000	335.6145	8.5100e-003	1.9100e-003	0.0000	336.3859
Mobile	6.8600e-003	0.0229	0.0887	3.0000e-004	0.0202	4.1000e-004	0.0206	5.4000e-003	3.7000e-004	5.7700e-003	0.0000	21.0742	7.5000e-004	0.0000	0.0000	21.0699

2	Grading	4/26/2018	9/5/2018	5	95
3	Building Construction	9/6/2018	1/22/2020	5	360
4	Paving	1/23/2020	2/19/2020	5	20
5	Architectural Coating	2/20/2020	3/18/2020	5	20

Acres of Grading (Site Preparation Phase): 0.25

Acres of Grading (Grading Phase): 0.25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,750; Non-Residential Outdoor: 5,250 (Architectural Coating --

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cranes	1	6.00	226	0.29
Site Preparation	Excavators	1	8.00	162	0.38
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	6.00	205	0.50
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Plate Compactors	1	8.00	8	0.43
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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
Site Preparation	4	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	10.00	0.00	6,830.00	14.70	6.90	8.93	LD_Mix	HDT_Mix	HHDT
Building Construction	8	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Fugitive Dust					1.3000e-004	0.0000	1.3000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5736	0.3664	5.7000e-004	0.0307	0.0307	0.0307	0.0283	0.0283	0.0283	0.0000	51.6374	51.6374	0.0161	0.0000	51.9750
Total	0.0544	0.5736	0.3664	5.7000e-004	0.0307	0.0307	0.0309	1.0000e-005	0.0283	0.0283	0.0000	51.6374	51.6374	0.0161	0.0000	51.9750

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	7.9000e-004	8.1600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4872	1.4872	8.0000e-005	0.0000	1.4889
Total	5.3000e-004	7.9000e-004	8.1600e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4872	1.4872	8.0000e-005	0.0000	1.4889

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0138	0.2755	0.3981	5.7000e-004		0.0138	0.0138	0.0138	0.0138	0.0138	0.0000	51.6373	51.6373	0.0161	0.0000	51.9749
Total	0.0138	0.2755	0.3981	5.7000e-004	6.0000e-005	0.0138	0.0139	1.0000e-005	0.0138	0.0138	0.0000	51.6373	51.6373	0.0161	0.0000	51.9749

Mitigated Construction Off-Site

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

Total	0.0381	0.4222	0.5968	1.2400e-003	0.0314	5.9200e-003	0.0373	8.5600e-003	5.4400e-003	0.0140	0.0000	108.2381	108.2381	1.1200e-003	0.0000	108.2615
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Mitigated Construction On-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust					0.1292	0.0000	0.1292	0.0708	0.0000	0.0708	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0306	0.6374	0.8491	1.3100e-003		0.0353	0.0353	0.0353	0.0353	0.0353	0.0000	118.0807	118.0807	0.0308	0.0000	0.0000	118.7273
Total	0.0306	0.6374	0.8491	1.3100e-003	0.1292	0.0353	0.1645	0.0708	0.0353	0.1061	0.0000	118.0807	118.0807	0.0308	0.0000	0.0000	118.7273

Mitigated Construction Off-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	0.0364	0.4197	0.5710	1.1700e-003	0.0262	5.8700e-003	0.0320	7.1800e-003	5.4000e-003	0.0126	0.0000	103.5285	103.5285	8.7000e-004	0.0000	0.0000	103.5467
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6700e-003	2.4900e-003	0.0258	7.0000e-005	5.2100e-003	5.0000e-005	5.2500e-003	1.3800e-003	4.0000e-005	1.4300e-003	0.0000	4.7096	4.7096	2.5000e-004	0.0000	0.0000	4.7148
Total	0.0381	0.4222	0.5968	1.2400e-003	0.0314	5.9200e-003	0.0373	8.5600e-003	5.4400e-003	0.0140	0.0000	108.2381	108.2381	1.1200e-003	0.0000	0.0000	108.2615

3.4 Building Construction - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr															
Off-Road	0.0774	0.7665	0.5179	9.8000e-004		0.0444	0.0444	0.0416	0.0416	0.0416	0.0000	88.4351	88.4351	0.0242	0.0000	88.9434
Total	0.0774	0.7665	0.5179	9.8000e-004		0.0444	0.0444	0.0416	0.0416	0.0416	0.0000	88.4351	88.4351	0.0242	0.0000	88.9434
Category	MT/yr															

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	6.3600e-003	8.9600e-003	2.0000e-005	5.1000e-004	1.0000e-004	6.1000e-004	1.5000e-004	9.0000e-005	2.3000e-004	0.0000	1.5991	1.5991	1.0000e-005	0.0000	1.5994
Worker	7.3000e-004	1.0900e-003	0.0113	3.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0573	2.0573	1.1000e-004	0.0000	2.0596
Total	1.3700e-003	7.4500e-003	0.0203	5.0000e-005	2.7800e-003	1.2000e-004	2.9000e-003	7.5000e-004	1.1000e-004	8.5000e-004	0.0000	3.6565	3.6565	1.2000e-004	0.0000	3.6590
Category	MT/yr															

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															
Category	MT/yr															

Off-Road	0.0230	0.4866	0.6079	9.8000e-004	0.0272	0.0272	0.0272	0.0000	88.4350	88.4350	0.0000	0.0242	0.0000	88.9433
Total	0.0230	0.4866	0.6079	9.8000e-004	0.0272	0.0272	0.0272	0.0000	88.4350	88.4350	0.0000	0.0242	0.0000	88.9433

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
tons/yr																	
MT/yr																	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4000e-004	6.3600e-003	8.9600e-003	2.0000e-005	5.1000e-004	1.0000e-004	6.1000e-004	1.5000e-004	9.0000e-005	2.3000e-004	0.0000	1.5991	1.5991	1.0000e-005	0.0000	1.5994	1.5994
Worker	7.3000e-004	1.0900e-003	0.0113	3.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0573	2.0573	1.1000e-004	0.0000	2.0596	2.0596
Total	1.3700e-003	7.4500e-003	0.0203	5.0000e-005	2.7800e-003	1.2000e-004	2.9000e-003	7.5000e-004	1.1000e-004	8.5000e-004	0.0000	3.6565	3.6565	1.2000e-004	0.0000	3.6590	3.6590

3.4 Building Construction - 2019

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Off-Road	0.2173	2.1522	1.5899	3.0900e-003	0.1200	0.1200	0.1200	0.1123	0.1123	0.1123	0.0000	274.1903	274.1903	0.0756	0.0000	275.7775
Total	0.2173	2.1522	1.5899	3.0900e-003	0.1200	0.1200	0.1200	0.1123	0.1123	0.1123	0.0000	274.1903	274.1903	0.0756	0.0000	275.7775

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	1.9000e-003	0.0184	0.0272	6.0000e-005	1.6000e-003	2.9000e-004	1.8900e-003	4.6000e-004	2.6000e-004	7.2000e-004	0.0000	4.9254	4.9254	4.0000e-005	0.0000	4.9261
Worker	2.1000e-003	3.1300e-003	0.0325	9.0000e-005	7.1500e-003	6.0000e-005	7.2100e-003	1.9000e-003	6.0000e-005	1.9600e-003	0.0000	6.2157	6.2157	3.2000e-004	0.0000	6.2224
Total	4.0000e-003	0.0216	0.0598	1.5000e-004	8.7500e-003	3.5000e-004	9.1000e-003	2.3600e-003	3.2000e-004	2.6800e-003	0.0000	11.1411	11.1411	3.6000e-004	0.0000	11.1485

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Off-Road	0.0724	1.5301	1.9117	3.0900e-003		0.0856	0.0856		0.0856	0.0856	0.0000	274.1900	274.1900	0.0756	0.0000	275.7771
Total	0.0724	1.5301	1.9117	3.0900e-003		0.0856	0.0856		0.0856	0.0856	0.0000	274.1900	274.1900	0.0756	0.0000	275.7771

Mitigated Construction Off-Site

3.5 Paving - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	tons/yr																
Off-Road	7.6300e-003	0.0713	0.0702	1.1000e-004	3.9000e-003	3.9000e-003	3.9000e-003	3.6300e-003	3.6300e-003	3.6300e-003	0.0000	9.2539	9.2539	2.6900e-003	0.0000	0.0000	9.3104
Paving	0.0000				0.0000	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	7.6300e-003	0.0713	0.0702	1.1000e-004	3.9000e-003	3.9000e-003	3.9000e-003	3.6300e-003	3.6300e-003	3.6300e-003	0.0000	9.2539	9.2539	2.6900e-003	0.0000	0.0000	9.3104

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	MT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475
Total	5.4000e-004	8.0000e-004	8.3500e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.6458	1.6458	8.0000e-005	0.0000	1.6475

Mitigated Construction On-Site

Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005	1.1100e-003	1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5574
Total	0.0777	0.0168	0.0183	3.0000e-005	1.1100e-003	1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5574

Unmitigated Construction Off-Site

Category	tons/yr												CO2e			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2		Total CO2	CH4	N2O
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0914	0.0914	0.0000	0.0000	0.0915
Total	3.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0914	0.0914	0.0000	0.0000	0.0915

Mitigated Construction On-Site

Category	tons/yr												CO2e			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2		Total CO2	CH4	N2O
Archit. Coating	0.0763					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0136	0.0183	3.0000e-005	9.5000e-004	9.5000e-004	9.5000e-004	9.5000e-004	9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5574
Total	0.0759	0.0136	0.0183	3.0000e-005	9.5000e-004	9.5000e-004	9.5000e-004	9.5000e-004	9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5574

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0914	0.0914	0.0000	0.0000	0.0915
Total	3.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0914	0.0914	0.0000	0.0000	0.0915

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Mitigated	6.8600e-003	0.0229	0.0887	3.0000e-004	0.0202	4.1000e-004	0.0206	5.4000e-003	3.7000e-004	5.7700e-003	0.0000	21.0742	21.0742	7.5000e-004	0.0000	21.0899
Unmitigated	6.8600e-003	0.0229	0.0887	3.0000e-004	0.0202	4.1000e-004	0.0206	5.4000e-003	3.7000e-004	5.7700e-003	0.0000	21.0742	21.0742	7.5000e-004	0.0000	21.0899

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		

General Light Industry	12.00	12.00	12.00	12.00	53,139	53,139
Total	12.00	12.00	12.00	12.00	53,139	53,139

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-H-S or C-C	H-W or C-H-S or C-C	H-O or C-NW	H-W or C-H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6			
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3			

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.527271	0.057774	0.179409	0.125521	0.039563	0.006393	0.017164	0.035220	0.002536	0.003167	0.003715	0.000530	0.001736

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Electricity Mitigated					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	325.5768	325.5768	8.3200e-003	1.7200e-003	326.2851
Electricity Unmitigated					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	325.5768	325.5768	8.3200e-003	1.7200e-003	326.2851
NaturalGas Mitigated	1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988
NaturalGas Unmitigated	1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr															MT/yr
General Light Industry	188100	1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr															MT/yr
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	188100	1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988
Total		1.0100e-003	9.2200e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	0.0000	10.0377	10.0377	1.9000e-004	1.8000e-004	10.0988

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	632400	325.5768	8.3200e-003	1.7200e-003	326.2851	326.2851
Total		325.5768	8.3200e-003	1.7200e-003	326.2851	326.2851

Mitigated

	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Land Use					
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	632400	325.5768	8.3200e-003	1.7200e-003	326.2851
Total		325.5768	8.3200e-003	1.7200e-003	326.2851

6.0 Area Detail

6.1 Mitigation Measures Area

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.0486	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Unmitigated	0.0486	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

6.2 Area by SubCategory
Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Architectural Coating	7.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0409					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	0.0486	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
MT/yr																

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Architectural Coating	7.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0409					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	0.0486	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
MT/yr																

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MIT/yr			
Mitigated	16.4401	0.0757	1.8600e-003	18.6071
Unmitigated	16.4401	0.0758	1.8600e-003	18.6082

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MIT/yr			
City Park	0 / 0.0357444	0.2045	1.0000e-005	0.0000	0.2049
General Light Industry	2.3125 / 0	16.2357	0.0758	1.8600e-003	18.4034
Total		16.4401	0.0758	1.8600e-003	18.6082

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MIT/yr			

City Park	0 / 0.0357444	0.2045	1.0000e-005	0.0000	0.2049
General Light Industry	2.3125 / 0	16.2357	0.0757	1.8600e-003	18.4022
Total		16.4401	0.0758	1.8600e-003	18.6071

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MIT/yr			
Mitigated	2.5171	0.1488	0.0000	5.6410
Unmitigated	2.5171	0.1488	0.0000	5.6410

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MIT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	12.4	2.5171	0.1488	0.0000	5.6410

Total	2.5171	0.1488	0.0000	5.6410
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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	12.4	2.5171	0.1488	0.0000	5.6410
Total		2.5171	0.1488	0.0000	5.6410

9.0 Operational Offroad

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

