Appendix A:
Air Quality/Greenhouse Gas Analysis/Health Risk Assessment

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Mill Creek Development CalEEMod Output, Construction Health Risk Assessment Calculations, and AERMOD Modeling Output

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3249.0010 Mill Creek - Operations and Construction (Unmitigated)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	30.00	Space	0.27	14,820.00	0
Other Asphalt Surfaces	5.75	Acre	5.75	250,470.00	0
Other Non-Asphalt Surfaces	14.16	1000sqft	0.33	14,158.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Unenclosed Parking Structure	166.00	Space	1.49	82,004.00	0
Health Club	6.08	1000sqft	0.14	6,078.00	0
Health Club	1.28	1000sqft	0.03	1,284.00	0
Condo/Townhouse	360.00	Dwelling Unit	9.54	399,739.00	1030

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 3249.0010 Mill Creek
PG&E Rate for 2020
CH4 and N2O Intensity Factors based on Renewable Portfolio Standard

Land Use - Based on site plan and project description

Construction Phase - Total construction duration: 20 months
Anticipated construction start date: 4/2019

Demolition - No demolition

Grading - 19.31 acres to be disturbed
17,400 cubic yards of material to be exported

Vehicle Trips - Project trip generation based on traffic study

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	61.20	0.00
tblGrading	AcresOfGrading	75.00	19.31
tblGrading	MaterialExported	0.00	17,400.00
tblLandUse	LandUseSquareFeet	12,000.00	14,820.00
tblLandUse	LandUseSquareFeet	14,160.00	14,158.00
tblLandUse	LandUseSquareFeet	66,400.00	82,004.00
tblLandUse	LandUseSquareFeet	1,280.00	1,284.00
tblLandUse	LandUseSquareFeet	6,080.00	6,078.00
tblLandUse	LandUseSquareFeet	360,000.00	399,739.00
tblLandUse	LotAcreage	22.50	9.54
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	5.67	6.38
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.84	6.38
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.81	6.38
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4894	4.1319	3.4867	8.6900e-003	0.5042	0.1560	0.6602	0.1850	0.1457	0.3307	0.0000	797.6728	797.6728	0.1055	0.0000	800.3112
2020	3.4101	3.3379	3.5543	9.1400e-003	0.4226	0.1198	0.5424	0.1141	0.1128	0.2269	0.0000	831.5946	831.5946	0.0839	0.0000	833.6917
Maximum	**3.4101**	**4.1319**	**3.5543**	**9.1400e-003**	**0.5042**	**0.1560**	**0.6602**	**0.1850**	**0.1457**	**0.3307**	**0.0000**	**831.5946**	**831.5946**	**0.1055**	**0.0000**	**833.6917**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4894	4.1319	3.4867	8.6900e-003	0.3987	0.1560	0.5547	0.1297	0.1457	0.2754	0.0000	797.6725	797.6725	0.1055	0.0000	800.3109
2020	3.4101	3.3379	3.5543	9.1400e-003	0.4226	0.1198	0.5424	0.1141	0.1128	0.2269	0.0000	831.5944	831.5944	0.0839	0.0000	833.6914
Maximum	**3.4101**	**4.1319**	**3.5543**	**9.1400e-003**	**0.4226**	**0.1560**	**0.5547**	**0.1297**	**0.1457**	**0.2754**	**0.0000**	**831.5944**	**831.5944**	**0.1055**	**0.0000**	**833.6914**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**11.39**	**0.00**	**8.78**	**18.49**	**0.00**	**9.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2019**	**6-30-2019**	1.7761	1.7761
2	**7-1-2019**	**9-30-2019**	1.3994	1.3994
3	**10-1-2019**	**12-31-2019**	1.4256	1.4256
4	**1-1-2020**	**3-31-2020**	1.2767	1.2767
5	**4-1-2020**	**6-30-2020**	1.2546	1.2546
6	**7-1-2020**	**9-30-2020**	1.4670	1.4670
		Highest	1.7761	1.7761

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0238	0.0411	2.9453	1.0200e-003		0.0572	0.0572		0.0572	0.0572	5.6148	11.1152	16.7300	0.0307	1.2000e-004	17.5332
Energy	0.0374	0.3201	0.1402	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	650.5166	650.5166	0.0284	0.0116	654.6886
Mobile	0.8508	4.1809	9.4600	0.0258	1.9688	0.0347	2.0036	0.5300	0.0328	0.5627	0.0000	2,362.8713	2,362.8713	0.1110	0.0000	2,365.6451
Waste						0.0000	0.0000		0.0000	0.0000	42.1308	0.0000	42.1308	2.4899	0.0000	104.3772
Water						0.0000	0.0000		0.0000	0.0000	7.5794	23.9356	31.5150	0.7803	0.0188	56.6231
Total	**2.9119**	**4.5421**	**12.5455**	**0.0288**	**1.9688**	**0.1177**	**2.0866**	**0.5300**	**0.1158**	**0.6457**	**55.3250**	**3,048.4387**	**3,103.7637**	**3.4401**	**0.0305**	**3,198.8672**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9943	0.0367	2.6689	1.8000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	11.0758	11.0758	4.3500e-003	1.2000e-004	11.2212
Energy	0.0374	0.3201	0.1402	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	650.5166	650.5166	0.0284	0.0116	654.6886
Mobile	0.8508	4.1809	9.4600	0.0258	1.9688	0.0347	2.0036	0.5300	0.0328	0.5627	0.0000	2,362.8713	2,362.8713	0.1110	0.0000	2,365.6451
Waste						0.0000	0.0000		0.0000	0.0000	42.1308	0.0000	42.1308	2.4899	0.0000	104.3772
Water						0.0000	0.0000		0.0000	0.0000	6.0635	19.1484	25.2120	0.6242	0.0150	45.2985
Total	**2.8825**	**4.5377**	**12.2691**	**0.0280**	**1.9688**	**0.0757**	**2.0445**	**0.5300**	**0.0737**	**0.6037**	**48.1943**	**3,043.6121**	**3,091.8065**	**3.2578**	**0.0268**	**3,181.2305**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.01**	**0.10**	**2.20**	**2.92**	**0.00**	**35.71**	**2.01**	**0.00**	**36.32**	**6.51**	**12.89**	**0.16**	**0.39**	**5.30**	**12.28**	**0.55**

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	4/1/2019	4/12/2019	5	10	
2	Grading	Grading	4/13/2019	5/24/2019	5	30	
3	Paving	Paving	5/25/2019	6/21/2019	5	20	
4	Building Construction	Building Construction	6/22/2019	9/25/2020	5	330	
5	Architectural Coating	Architectural Coating	9/26/2020	11/20/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19.31

Acres of Paving: 9.6

Residential Indoor: 809,471; Residential Outdoor: 269,824; Non-Residential Indoor: 11,043; Non-Residential Outdoor: 3,681; Striped

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	447.00	112.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	89.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0903**	**0.0120**	**0.1023**	**0.0497**	**0.0110**	**0.0607**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	3.5000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6714	0.6714	3.0000e-005	0.0000	0.6721
Total	**4.7000e-004**	**3.5000e-004**	**3.5000e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6714**	**0.6714**	**3.0000e-005**	**0.0000**	**0.6721**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0407**	**0.0120**	**0.0526**	**0.0223**	**0.0110**	**0.0333**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	3.5000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6714	0.6714	3.0000e-005	0.0000	0.6721
Total	**4.7000e-004**	**3.5000e-004**	**3.5000e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6714**	**0.6714**	**3.0000e-005**	**0.0000**	**0.6721**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1016	0.0000	0.1016	0.0509	0.0000	0.0509	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5520	83.5520	0.0264	0.0000	84.2129
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.1016**	**0.0357**	**0.1373**	**0.0509**	**0.0329**	**0.0838**	**0.0000**	**83.5520**	**83.5520**	**0.0264**	**0.0000**	**84.2129**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0102	0.3514	0.0718	8.7000e-004	0.0180	1.7500e-003	0.0198	4.9500e-003	1.6700e-003	6.6200e-003	0.0000	84.6276	84.6276	5.3700e-003	0.0000	84.7620
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.1700e-003	0.0117	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.2379	2.2379	9.0000e-005	0.0000	2.2402
Total	**0.0117**	**0.3526**	**0.0835**	**8.9000e-004**	**0.0204**	**1.7700e-003**	**0.0222**	**5.5800e-003**	**1.6900e-003**	**7.2700e-003**	**0.0000**	**86.8656**	**86.8656**	**5.4600e-003**	**0.0000**	**87.0022**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0457	0.0000	0.0457	0.0229	0.0000	0.0229	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5519	83.5519	0.0264	0.0000	84.2128
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.0457**	**0.0357**	**0.0814**	**0.0229**	**0.0329**	**0.0558**	**0.0000**	**83.5519**	**83.5519**	**0.0264**	**0.0000**	**84.2128**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0102	0.3514	0.0718	8.7000e-004	0.0180	1.7500e-003	0.0198	4.9500e-003	1.6700e-003	6.6200e-003	0.0000	84.6276	84.6276	5.3700e-003	0.0000	84.7620
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.1700e-003	0.0117	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.2379	2.2379	9.0000e-005	0.0000	2.2402
Total	**0.0117**	**0.3526**	**0.0835**	**8.9000e-004**	**0.0204**	**1.7700e-003**	**0.0222**	**5.5800e-003**	**1.6900e-003**	**7.2700e-003**	**0.0000**	**86.8656**	**86.8656**	**5.4600e-003**	**0.0000**	**87.0022**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	9.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0244**	**0.1524**	**0.1467**	**2.3000e-004**		**8.2500e-003**	**8.2500e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.9000e-004	5.8400e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1190	1.1190	5.0000e-005	0.0000	1.1201
Total	**7.8000e-004**	**5.9000e-004**	**5.8400e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1190**	**1.1190**	**5.0000e-005**	**0.0000**	**1.1201**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	9.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0244**	**0.1524**	**0.1467**	**2.3000e-004**		**8.2500e-003**	**8.2500e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.9000e-004	5.8400e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1190	1.1190	5.0000e-005	0.0000	1.1201
Total	**7.8000e-004**	**5.9000e-004**	**5.8400e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1190**	**1.1190**	**5.0000e-005**	**0.0000**	**1.1201**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1617	1.4439	1.1757	1.8400e-003		0.0884	0.0884		0.0831	0.0831	0.0000	161.0464	161.0464	0.0392	0.0000	162.0272
Total	**0.1617**	**1.4439**	**1.1757**	**1.8400e-003**		**0.0884**	**0.0884**		**0.0831**	**0.0831**	**0.0000**	**161.0464**	**161.0464**	**0.0392**	**0.0000**	**162.0272**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0386	1.0165	0.2693	2.0600e-003	0.0497	7.9100e-003	0.0577	0.0144	7.5700e-003	0.0220	0.0000	198.4435	198.4435	0.0132	0.0000	198.7730
Worker	0.1590	0.1199	1.1913	2.5300e-003	0.2403	2.0300e-003	0.2423	0.0640	1.8700e-003	0.0658	0.0000	228.4155	228.4155	9.2700e-003	0.0000	228.6472
Total	**0.1976**	**1.1363**	**1.4606**	**4.5900e-003**	**0.2900**	**9.9400e-003**	**0.3000**	**0.0783**	**9.4400e-003**	**0.0878**	**0.0000**	**426.8590**	**426.8590**	**0.0225**	**0.0000**	**427.4202**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1617	1.4439	1.1757	1.8400e-003		0.0884	0.0884		0.0831	0.0831	0.0000	161.0462	161.0462	0.0392	0.0000	162.0270
Total	**0.1617**	**1.4439**	**1.1757**	**1.8400e-003**		**0.0884**	**0.0884**		**0.0831**	**0.0831**	**0.0000**	**161.0462**	**161.0462**	**0.0392**	**0.0000**	**162.0270**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0386	1.0165	0.2693	2.0600e-003	0.0497	7.9100e-003	0.0577	0.0144	7.5700e-003	0.0220	0.0000	198.4435	198.4435	0.0132	0.0000	198.7730
Worker	0.1590	0.1199	1.1913	2.5300e-003	0.2403	2.0300e-003	0.2423	0.0640	1.8700e-003	0.0658	0.0000	228.4155	228.4155	9.2700e-003	0.0000	228.6472
Total	**0.1976**	**1.1363**	**1.4606**	**4.5900e-003**	**0.2900**	**9.9400e-003**	**0.3000**	**0.0783**	**9.4400e-003**	**0.0878**	**0.0000**	**426.8590**	**426.8590**	**0.0225**	**0.0000**	**427.4202**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2046	1.8515	1.6259	2.6000e-003		0.1078	0.1078		0.1014	0.1014	0.0000	223.5036	223.5036	0.0545	0.0000	224.8668
Total	**0.2046**	**1.8515**	**1.6259**	**2.6000e-003**		**0.1078**	**0.1078**		**0.1014**	**0.1014**	**0.0000**	**223.5036**	**223.5036**	**0.0545**	**0.0000**	**224.8668**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0425	1.2970	0.3275	2.8800e-003	0.0701	6.9000e-003	0.0770	0.0203	6.6100e-003	0.0269	0.0000	278.2623	278.2623	0.0171	0.0000	278.6884
Worker	0.2057	0.1495	1.5024	3.4600e-003	0.3385	2.7600e-003	0.3413	0.0901	2.5400e-003	0.0927	0.0000	311.8535	311.8535	0.0114	0.0000	312.1396
Total	**0.2482**	**1.4466**	**1.8298**	**6.3400e-003**	**0.4086**	**9.6600e-003**	**0.4183**	**0.1104**	**9.1500e-003**	**0.1195**	**0.0000**	**590.1158**	**590.1158**	**0.0285**	**0.0000**	**590.8280**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2046	1.8515	1.6259	2.6000e-003		0.1078	0.1078		0.1014	0.1014	0.0000	223.5034	223.5034	0.0545	0.0000	224.8665
Total	**0.2046**	**1.8515**	**1.6259**	**2.6000e-003**		**0.1078**	**0.1078**		**0.1014**	**0.1014**	**0.0000**	**223.5034**	**223.5034**	**0.0545**	**0.0000**	**224.8665**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0425	1.2970	0.3275	2.8800e-003	0.0701	6.9000e-003	0.0770	0.0203	6.6100e-003	0.0269	0.0000	278.2623	278.2623	0.0171	0.0000	278.6884
Worker	0.2057	0.1495	1.5024	3.4600e-003	0.3385	2.7600e-003	0.3413	0.0901	2.5400e-003	0.0927	0.0000	311.8535	311.8535	0.0114	0.0000	312.1396
Total	**0.2482**	**1.4466**	**1.8298**	**6.3400e-003**	**0.4086**	**9.6600e-003**	**0.4183**	**0.1104**	**9.1500e-003**	**0.1195**	**0.0000**	**590.1158**	**590.1158**	**0.0285**	**0.0000**	**590.8280**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9441					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8400e-003	0.0337	0.0366	6.0000e-005		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	5.1065	5.1065	4.0000e-004	0.0000	5.1164
Total	**2.9489**	**0.0337**	**0.0366**	**6.0000e-005**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**	**0.0000**	**5.1065**	**5.1065**	**4.0000e-004**	**0.0000**	**5.1164**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4900e-003	6.1700e-003	0.0620	1.4000e-004	0.0140	1.1000e-004	0.0141	3.7200e-003	1.0000e-004	3.8200e-003	0.0000	12.8687	12.8687	4.7000e-004	0.0000	12.8805
Total	**8.4900e-003**	**6.1700e-003**	**0.0620**	**1.4000e-004**	**0.0140**	**1.1000e-004**	**0.0141**	**3.7200e-003**	**1.0000e-004**	**3.8200e-003**	**0.0000**	**12.8687**	**12.8687**	**4.7000e-004**	**0.0000**	**12.8805**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9441					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8400e-003	0.0337	0.0366	6.0000e-005		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	5.1065	5.1065	4.0000e-004	0.0000	5.1164
Total	**2.9489**	**0.0337**	**0.0366**	**6.0000e-005**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**	**0.0000**	**5.1065**	**5.1065**	**4.0000e-004**	**0.0000**	**5.1164**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4900e-003	6.1700e-003	0.0620	1.4000e-004	0.0140	1.1000e-004	0.0141	3.7200e-003	1.0000e-004	3.8200e-003	0.0000	12.8687	12.8687	4.7000e-004	0.0000	12.8805
Total	**8.4900e-003**	**6.1700e-003**	**0.0620**	**1.4000e-004**	**0.0140**	**1.1000e-004**	**0.0141**	**3.7200e-003**	**1.0000e-004**	**3.8200e-003**	**0.0000**	**12.8687**	**12.8687**	**4.7000e-004**	**0.0000**	**12.8805**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8508	4.1809	9.4600	0.0258	1.9688	0.0347	2.0036	0.5300	0.0328	0.5627	0.0000	2,362.8713	2,362.8713	0.1110	0.0000	2,365.6451
Unmitigated	0.8508	4.1809	9.4600	0.0258	1.9688	0.0347	2.0036	0.5300	0.0328	0.5627	0.0000	2,362.8713	2,362.8713	0.1110	0.0000	2,365.6451

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	2,296.80	2,296.80	2296.80	5,304,706	5,304,706
Enclosed Parking Structure	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	2,296.80	2,296.80	2,296.80	5,304,706	5,304,706

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Enclosed Parking Structure	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Health Club	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Other Asphalt Surfaces	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Other Non-Asphalt Surfaces	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Parking Lot	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Unenclosed Parking Structure	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	280.4657	280.4657	0.0213	4.8400e-003	282.4386
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	280.4657	280.4657	0.0213	4.8400e-003	282.4386
NaturalGas Mitigated	0.0374	0.3201	0.1402	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	370.0510	370.0510	7.0900e-003	6.7800e-003	372.2500
NaturalGas Unmitigated	0.0374	0.3201	0.1402	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	370.0510	370.0510	7.0900e-003	6.7800e-003	372.2500

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	6.74028e+006	0.0363	0.3106	0.1322	1.9800e-003		0.0251	0.0251		0.0251	0.0251	0.0000	359.6872	359.6872	6.8900e-003	6.5900e-003	361.8246
Enclosed Parking Structure	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
Health Club	160338	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5562	8.5562	1.6000e-004	1.6000e-004	8.6071
Health Club	33871.9	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8075	1.8075	3.0000e-005	3.0000e-005	1.8183
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	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
Total		**0.0374**	**0.3201**	**0.1402**	**2.0400e-003**		**0.0258**	**0.0258**		**0.0258**	**0.0258**	**0.0000**	**370.0510**	**370.0510**	**7.0800e-003**	**6.7800e-003**	**372.2500**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	6.74028e+006	0.0363	0.3106	0.1322	1.9800e-003		0.0251	0.0251		0.0251	0.0251	0.0000	359.6872	359.6872	6.8900e-003	6.5900e-003	361.8246
Enclosed Parking Structure	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
Health Club	160338	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5562	8.5562	1.6000e-004	1.6000e-004	8.6071
Health Club	33871.9	1.8000e-004	1.6600e-003	1.3900e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8075	1.8075	3.0000e-005	3.0000e-005	1.8183
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	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
Total		**0.0374**	**0.3201**	**0.1402**	**2.0400e-003**		**0.0258**	**0.0258**		**0.0258**	**0.0258**	**0.0000**	**370.0510**	**370.0510**	**7.0800e-003**	**6.7800e-003**	**372.2500**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.81635e+006	238.9266	0.0181	4.1200e-003	240.6073
Enclosed Parking Structure	84029.4	11.0534	8.4000e-004	1.9000e-004	11.1311
Health Club	10605.8	1.3951	1.1000e-004	2.0000e-005	1.4049
Health Club	50204.3	6.6040	5.0000e-004	1.1000e-004	6.6504
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	27440	3.6095	2.7000e-004	6.0000e-005	3.6349
Unenclosed Parking Structure	143507	18.8772	1.4300e-003	3.3000e-004	19.0100
Total		**280.4657**	**0.0213**	**4.8300e-003**	**282.4386**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.81635e+006	238.9266	0.0181	4.1200e-003	240.6073
Enclosed Parking Structure	84029.4	11.0534	8.4000e-004	1.9000e-004	11.1311
Health Club	10605.8	1.3951	1.1000e-004	2.0000e-005	1.4049
Health Club	50204.3	6.6040	5.0000e-004	1.1000e-004	6.6504
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	27440	3.6095	2.7000e-004	6.0000e-005	3.6349
Unenclosed Parking Structure	143507	18.8772	1.4300e-003	3.3000e-004	19.0100
Total		**280.4657**	**0.0213**	**4.8300e-003**	**282.4386**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9943	0.0367	2.6689	1.8000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	11.0758	11.0758	4.3500e-003	1.2000e-004	11.2212
Unmitigated	2.0238	0.0411	2.9453	1.0200e-003		0.0572	0.0572		0.0572	0.0572	5.6148	11.1152	16.7300	0.0307	1.2000e-004	17.5332

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6184					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0290	0.0100	0.2595	8.8000e-004		0.0424	0.0424		0.0424	0.0424	5.6148	6.7413	12.3561	0.0264	1.2000e-004	13.0524
Landscaping	0.0820	0.0311	2.6858	1.4000e-004		0.0148	0.0148		0.0148	0.0148	0.0000	4.3739	4.3739	4.2800e-003	0.0000	4.4808
Total	**2.0238**	**0.0411**	**2.9453**	**1.0200e-003**		**0.0572**	**0.0572**		**0.0572**	**0.0572**	**5.6148**	**11.1152**	**16.7300**	**0.0307**	**1.2000e-004**	**17.5332**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2944					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6184					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.8000e-004	5.8200e-003	2.4800e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7413	6.7413	1.3000e-004	1.2000e-004	6.7814
Landscaping	0.0809	0.0309	2.6664	1.4000e-004		0.0147	0.0147		0.0147	0.0147	0.0000	4.3344	4.3344	4.2200e-003	0.0000	4.4398
Total	**1.9943**	**0.0367**	**2.6689**	**1.8000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**11.0758**	**11.0758**	**4.3500e-003**	**1.2000e-004**	**11.2212**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	25.2120	0.6242	0.0150	45.2985
Unmitigated	31.5150	0.7803	0.0188	56.6231

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	23.4554 / 14.7871	30.9442	0.7661	0.0185	55.5949
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0.435294 / 0.266793	0.5708	0.0142	3.4000e-004	1.0282
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**31.5150**	**0.7803**	**0.0188**	**56.6231**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	18.7644 / 11.8297	24.7554	0.6129	0.0148	44.4759
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0.348235 / 0.213434	0.4566	0.0114	2.7000e-004	0.8226
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**25.2120**	**0.6242**	**0.0150**	**45.2985**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.1308	2.4899	0.0000	104.3772
Unmitigated	42.1308	2.4899	0.0000	104.3772

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	165.6	33.6153	1.9866	0.0000	83.2805
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Health Club	41.95	8.5155	0.5033	0.0000	21.0967
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**42.1308**	**2.4899**	**0.0000**	**104.3772**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	165.6	33.6153	1.9866	0.0000	83.2805
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Health Club	41.95	8.5155	0.5033	0.0000	21.0967
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**42.1308**	**2.4899**	**0.0000**	**104.3772**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

3249.0010 Mill Creek - Operations and Construction (Unmitigated)

Sonoma-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	30.00	Space	0.27	14,820.00	0
Other Asphalt Surfaces	5.75	Acre	5.75	250,470.00	0
Other Non-Asphalt Surfaces	14.16	1000sqft	0.33	14,158.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Unenclosed Parking Structure	166.00	Space	1.49	82,004.00	0
Health Club	6.08	1000sqft	0.14	6,078.00	0
Health Club	1.28	1000sqft	0.03	1,284.00	0
Condo/Townhouse	360.00	Dwelling Unit	9.54	399,739.00	1030

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 3249.0010 Mill Creek
PG&E Rate for 2020
CH4 and N2O Intensity Factors based on Renewable Portfolio Standard

Land Use - Based on site plan and project description

Construction Phase - Total construction duration: 20 months
Anticipated construction start date: 4/2019

Demolition - No demolition

Grading - 19.31 acres to be disturbed
17,400 cubic yards of material to be exported
Vehicle Trips - Project trip generation based on traffic study

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	61.20	0.00
tblGrading	AcresOfGrading	75.00	19.31
tblGrading	MaterialExported	0.00	17,400.00
tblLandUse	LandUseSquareFeet	12,000.00	14,820.00
tblLandUse	LandUseSquareFeet	14,160.00	14,158.00
tblLandUse	LandUseSquareFeet	66,400.00	82,004.00
tblLandUse	LandUseSquareFeet	1,280.00	1,284.00
tblLandUse	LandUseSquareFeet	6,080.00	6,078.00
tblLandUse	LandUseSquareFeet	360,000.00	399,739.00
tblLandUse	LotAcreage	22.50	9.54
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	5.67	6.38
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.84	6.38
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.81	6.38
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5146	77.5879	39.1607	0.1220	18.2141	2.4992	20.6057	9.9699	2.3035	12.1701	0.0000	12,568.5197	12,568.5197	2.3363	0.0000	12,626.9266
2020	147.8801	33.8653	36.4571	0.0952	4.4259	1.2165	5.6424	1.1907	1.1445	2.3352	0.0000	9,551.3641	9,551.3641	0.9475	0.0000	9,575.0521
Maximum	**147.8801**	**77.5879**	**39.1607**	**0.1220**	**18.2141**	**2.4992**	**20.6057**	**9.9699**	**2.3035**	**12.1701**	**0.0000**	**12,568.5197**	**12,568.5197**	**2.3363**	**0.0000**	**12,626.9266**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5146	77.5879	39.1607	0.1220	8.2777	2.4992	10.6692	4.5080	2.3035	6.7083	0.0000	12,568.5197	12,568.5197	2.3363	0.0000	12,626.9266
2020	147.8801	33.8653	36.4571	0.0952	4.4259	1.2165	5.6424	1.1907	1.1445	2.3352	0.0000	9,551.3641	9,551.3641	0.9475	0.0000	9,575.0521
Maximum	**147.8801**	**77.5879**	**39.1607**	**0.1220**	**8.2777**	**2.4992**	**10.6692**	**4.5080**	**2.3035**	**6.7083**	**0.0000**	**12,568.5197**	**12,568.5197**	**2.3363**	**0.0000**	**12,626.9266**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**43.89**	**0.00**	**37.86**	**48.94**	**0.00**	**37.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.5239	1.9841	66.6961	0.1270		6.1880	6.1880		6.1880	6.1880	876.6687	1,387.6883	2,264.3570	4.1762	0.0245	2,376.0510
Energy	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130
Mobile	5.2143	22.2203	52.6636	0.1483	11.3127	0.1904	11.5031	3.0333	0.1796	3.2129		14,994.5344	14,994.5344	0.6728		15,011.3555
Total	**20.9431**	**25.9583**	**120.1276**	**0.2865**	**11.3127**	**6.5199**	**17.8326**	**3.0333**	**6.5091**	**9.5424**	**876.6687**	**18,617.3534**	**19,494.0221**	**4.8919**	**0.0654**	**19,635.8195**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.5018	1.3879	30.0714	8.2300e-003		0.2472	0.2472		0.2472	0.2472	0.0000	1,387.2053	1,387.2053	0.0772	0.0245	1,396.4243
Energy	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130
Mobile	5.2143	22.2203	52.6636	0.1483	11.3127	0.1904	11.5031	3.0333	0.1796	3.2129		14,994.5344	14,994.5344	0.6728		15,011.3555
Total	**16.9210**	**25.3622**	**83.5030**	**0.1677**	**11.3127**	**0.5792**	**11.8919**	**3.0333**	**0.5684**	**3.6017**	**0.0000**	**18,616.8704**	**18,616.8704**	**0.7929**	**0.0654**	**18,656.1928**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**19.20**	**2.30**	**30.49**	**41.46**	**0.00**	**91.12**	**33.31**	**0.00**	**91.27**	**62.26**	**100.00**	**0.00**	**4.50**	**83.79**	**0.00**	**4.99**

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	4/1/2019	4/12/2019	5	10	
2	Grading	Grading	4/13/2019	5/24/2019	5	30	
3	Paving	Paving	5/25/2019	6/21/2019	5	20	
4	Building Construction	Building Construction	6/22/2019	9/25/2020	5	330	
5	Architectural Coating	Architectural Coating	9/26/2020	11/20/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19.31

Acres of Paving: 9.6

Residential Indoor: 809,471; Residential Outdoor: 269,824; Non-Residential Indoor: 11,043; Non-Residential Outdoor: 3,681; Striped

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	447.00	112.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	89.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0958	0.0629	0.7368	1.5800e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		157.4988	157.4988	6.2600e-003		157.6553
Total	**0.0958**	**0.0629**	**0.7368**	**1.5800e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**157.4988**	**157.4988**	**6.2600e-003**		**157.6553**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**8.1298**	**2.3904**	**10.5202**	**4.4688**	**2.1991**	**6.6679**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0958	0.0629	0.7368	1.5800e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		157.4988	157.4988	6.2600e-003		157.6553
Total	**0.0958**	**0.0629**	**0.7368**	**1.5800e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**157.4988**	**157.4988**	**6.2600e-003**		**157.6553**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7703	0.0000	6.7703	3.3939	0.0000	3.3939			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7703**	**2.3827**	**9.1529**	**3.3939**	**2.1920**	**5.5859**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6693	22.9979	4.6360	0.0582	1.2520	0.1152	1.3672	0.3418	0.1102	0.4520		6,253.5016	6,253.5016	0.3867		6,263.1687
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1064	0.0699	0.8187	1.7600e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		174.9987	174.9987	6.9500e-003		175.1725
Total	**0.7757**	**23.0678**	**5.4547**	**0.0600**	**1.4163**	**0.1166**	**1.5328**	**0.3854**	**0.1115**	**0.4968**		**6,428.5002**	**6,428.5002**	**0.3936**		**6,438.3412**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0466	0.0000	3.0466	1.5272	0.0000	1.5272			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**3.0466**	**2.3827**	**5.4293**	**1.5272**	**2.1920**	**3.7193**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6693	22.9979	4.6360	0.0582	1.2520	0.1152	1.3672	0.3418	0.1102	0.4520		6,253.5016	6,253.5016	0.3867		6,263.1687
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1064	0.0699	0.8187	1.7600e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		174.9987	174.9987	6.9500e-003		175.1725
Total	**0.7757**	**23.0678**	**5.4547**	**0.0600**	**1.4163**	**0.1166**	**1.5328**	**0.3854**	**0.1115**	**0.4968**		**6,428.5002**	**6,428.5002**	**0.3936**		**6,438.3412**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4382**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0524	0.6140	1.3200e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		131.2490	131.2490	5.2200e-003		131.3794
Total	**0.0798**	**0.0524**	**0.6140**	**1.3200e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**131.2490**	**131.2490**	**5.2200e-003**		**131.3794**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4382**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0524	0.6140	1.3200e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		131.2490	131.2490	5.2200e-003		131.3794
Total	**0.0798**	**0.0524**	**0.6140**	**1.3200e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**131.2490**	**131.2490**	**5.2200e-003**		**131.3794**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5520	14.6569	3.6988	0.0303	0.7540	0.1144	0.8684	0.2167	0.1095	0.3262		3,221.3600	3,221.3600	0.2048		3,226.4788
Worker	2.3789	1.5619	18.2981	0.0393	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,911.2204	3,911.2204	0.1554		3,915.1056
Total	**2.9309**	**16.2187**	**21.9969**	**0.0696**	**4.4260**	**0.1441**	**4.5700**	**1.1907**	**0.1368**	**1.3275**		**7,132.5803**	**7,132.5803**	**0.3602**		**7,141.5843**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5520	14.6569	3.6988	0.0303	0.7540	0.1144	0.8684	0.2167	0.1095	0.3262		3,221.3600	3,221.3600	0.2048		3,226.4788
Worker	2.3789	1.5619	18.2981	0.0393	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,911.2204	3,911.2204	0.1554		3,915.1056
Total	**2.9309**	**16.2187**	**21.9969**	**0.0696**	**4.4260**	**0.1441**	**4.5700**	**1.1907**	**0.1368**	**1.3275**		**7,132.5803**	**7,132.5803**	**0.3602**		**7,141.5843**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4317	13.2958	3.1904	0.0301	0.7539	0.0709	0.8247	0.2167	0.0678	0.2845		3,207.4248	3,207.4248	0.1881		3,212.1279
Worker	2.1855	1.3834	16.4183	0.0381	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,790.8763	3,790.8763	0.1365		3,794.2898
Total	**2.6172**	**14.6792**	**19.6086**	**0.0683**	**4.4259**	**0.0994**	**4.5253**	**1.1907**	**0.0942**	**1.2848**		**6,998.3010**	**6,998.3010**	**0.3247**		**7,006.4177**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4317	13.2958	3.1904	0.0301	0.7539	0.0709	0.8247	0.2167	0.0678	0.2845		3,207.4248	3,207.4248	0.1881		3,212.1279
Worker	2.1855	1.3834	16.4183	0.0381	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,790.8763	3,790.8763	0.1365		3,794.2898
Total	**2.6172**	**14.6792**	**19.6086**	**0.0683**	**4.4259**	**0.0994**	**4.5253**	**1.1907**	**0.0942**	**1.2848**		**6,998.3010**	**6,998.3010**	**0.3247**		**7,006.4177**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					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		281.4481	281.4481	0.0218		281.9928
Total	**147.4449**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2754	3.2690	7.5900e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		754.7830	754.7830	0.0272		755.4626
Total	**0.4351**	**0.2754**	**3.2690**	**7.5900e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**754.7830**	**754.7830**	**0.0272**		**755.4626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					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	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**147.4449**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2754	3.2690	7.5900e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		754.7830	754.7830	0.0272		755.4626
Total	**0.4351**	**0.2754**	**3.2690**	**7.5900e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**754.7830**	**754.7830**	**0.0272**		**755.4626**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2143	22.2203	52.6636	0.1483	11.3127	0.1904	11.5031	3.0333	0.1796	3.2129		14,994.5344	14,994.5344	0.6728		15,011.3555
Unmitigated	5.2143	22.2203	52.6636	0.1483	11.3127	0.1904	11.5031	3.0333	0.1796	3.2129		14,994.5344	14,994.5344	0.6728		15,011.3555

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	2,296.80	2,296.80	2296.80	5,304,706	5,304,706
Enclosed Parking Structure	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	2,296.80	2,296.80	2,296.80	5,304,706	5,304,706

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Enclosed Parking Structure	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Health Club	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Other Asphalt Surfaces	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Other Non-Asphalt Surfaces	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Parking Lot	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Unenclosed Parking Structure	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130
NaturalGas Unmitigated	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	18466.5	0.1992	1.7018	0.7242	0.0109		0.1376	0.1376		0.1376	0.1376		2,172.5330	2,172.5330	0.0416	0.0398	2,185.4433
Enclosed Parking Structure	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
Health Club	439.281	4.7400e-003	0.0431	0.0362	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		51.6801	51.6801	9.9000e-004	9.5000e-004	51.9873
Health Club	92.7998	1.0000e-003	9.1000e-003	7.6400e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9176	10.9176	2.1000e-004	2.0000e-004	10.9825
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2049**	**1.7540**	**0.7680**	**0.0112**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**2,235.1308**	**2,235.1308**	**0.0428**	**0.0410**	**2,248.4130**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	18.4665	0.1992	1.7018	0.7242	0.0109		0.1376	0.1376		0.1376	0.1376		2,172.5330	2,172.5330	0.0416	0.0398	2,185.4433
Enclosed Parking Structure	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
Health Club	0.0927998	1.0000e-003	9.1000e-003	7.6400e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9176	10.9176	2.1000e-004	2.0000e-004	10.9825
Health Club	0.439281	4.7400e-003	0.0431	0.0362	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		51.6801	51.6801	9.9000e-004	9.5000e-004	51.9873
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2049**	**1.7540**	**0.7680**	**0.0112**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**2,235.1308**	**2,235.1308**	**0.0428**	**0.0410**	**2,248.4130**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.5018	1.3879	30.0714	8.2300e-003		0.2472	0.2472		0.2472	0.2472	0.0000	1,387.2053	1,387.2053	0.0772	0.0245	1,396.4243
Unmitigated	15.5239	1.9841	66.6961	0.1270		6.1880	6.1880		6.1880	6.1880	876.6687	1,387.6883	2,264.3570	4.1762	0.0245	2,376.0510

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8678					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.1315	1.6390	36.8538	0.1255		6.0240	6.0240		6.0240	6.0240	876.6687	1,334.1177	2,210.7864	4.1238	0.0245	2,321.1706
Landscaping	0.9115	0.3451	29.8423	1.5700e-003		0.1640	0.1640		0.1640	0.1640		53.5706	53.5706	0.0524		54.8804
Total	**15.5239**	**1.9841**	**66.6961**	**0.1270**		**6.1880**	**6.1880**		**6.1880**	**6.1880**	**876.6687**	**1,387.6883**	**2,264.3570**	**4.1762**	**0.0245**	**2,376.0510**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8678					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1223	1.0451	0.4447	6.6700e-003		0.0845	0.0845		0.0845	0.0845	0.0000	1,334.1177	1,334.1177	0.0256	0.0245	1,342.0456
Landscaping	0.8986	0.3429	29.6267	1.5500e-003		0.1628	0.1628		0.1628	0.1628		53.0876	53.0876	0.0516		54.3786
Total	**11.5018**	**1.3879**	**30.0714**	**8.2200e-003**		**0.2472**	**0.2472**		**0.2472**	**0.2472**	**0.0000**	**1,387.2053**	**1,387.2053**	**0.0772**	**0.0245**	**1,396.4243**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

3249.0010 Mill Creek - Operations and Construction (Unmitigated)

Sonoma-San Francisco County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	30.00	Space	0.27	14,820.00	0
Other Asphalt Surfaces	5.75	Acre	5.75	250,470.00	0
Other Non-Asphalt Surfaces	14.16	1000sqft	0.33	14,158.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Unenclosed Parking Structure	166.00	Space	1.49	82,004.00	0
Health Club	6.08	1000sqft	0.14	6,078.00	0
Health Club	1.28	1000sqft	0.03	1,284.00	0
Condo/Townhouse	360.00	Dwelling Unit	9.54	399,739.00	1030

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 3249.0010 Mill Creek
PG&E Rate for 2020
CH4 and N2O Intensity Factors based on Renewable Portfolio Standard

Land Use - Based on site plan and project description

Construction Phase - Total construction duration: 20 months
Anticipated construction start date: 4/2019

Demolition - No demolition

Grading - 19.31 acres to be disturbed
17,400 cubic yards of material to be exported

Vehicle Trips - Project trip generation based on traffic study

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	61.20	0.00
tblGrading	AcresOfGrading	75.00	19.31
tblGrading	MaterialExported	0.00	17,400.00
tblLandUse	LandUseSquareFeet	12,000.00	14,820.00
tblLandUse	LandUseSquareFeet	14,160.00	14,158.00
tblLandUse	LandUseSquareFeet	66,400.00	82,004.00
tblLandUse	LandUseSquareFeet	1,280.00	1,284.00
tblLandUse	LandUseSquareFeet	6,080.00	6,078.00
tblLandUse	LandUseSquareFeet	360,000.00	399,739.00
tblLandUse	LotAcreage	22.50	9.54
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	5.67	6.38
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.84	6.38
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.81	6.38
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5424	78.2003	39.3256	0.1211	18.2141	2.5022	20.6057	9.9699	2.3064	12.1701	0.0000	12,474.1774	12,474.1774	2.3552	0.0000	12,533.0582
2020	147.9141	34.3532	36.5260	0.0919	4.4259	1.2181	5.6440	1.1907	1.1460	2.3367	0.0000	9,214.7474	9,214.7474	0.9574	0.0000	9,238.6814
Maximum	**147.9141**	**78.2003**	**39.3256**	**0.1211**	**18.2141**	**2.5022**	**20.6057**	**9.9699**	**2.3064**	**12.1701**	**0.0000**	**12,474.1774**	**12,474.1774**	**2.3552**	**0.0000**	**12,533.0582**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5424	78.2003	39.3256	0.1211	8.2777	2.5022	10.6692	4.5080	2.3064	6.7083	0.0000	12,474.1774	12,474.1774	2.3552	0.0000	12,533.0582
2020	147.9141	34.3532	36.5260	0.0919	4.4259	1.2181	5.6440	1.1907	1.1460	2.3367	0.0000	9,214.7474	9,214.7474	0.9574	0.0000	9,238.6813
Maximum	**147.9141**	**78.2003**	**39.3256**	**0.1211**	**8.2777**	**2.5022**	**10.6692**	**4.5080**	**2.3064**	**6.7083**	**0.0000**	**12,474.1774**	**12,474.1774**	**2.3552**	**0.0000**	**12,533.0582**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**43.89**	**0.00**	**37.85**	**48.94**	**0.00**	**37.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.5239	1.9841	66.6961	0.1270		6.1880	6.1880		6.1880	6.1880	876.6687	1,387.6883	2,264.3570	4.1762	0.0245	2,376.0510
Energy	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130
Mobile	4.6694	23.5469	54.7188	0.1402	11.3127	0.1922	11.5049	3.0333	0.1813	3.2146		14,175.2571	14,175.2571	0.6899		14,192.5032
Total	**20.3982**	**27.2849**	**122.1828**	**0.2784**	**11.3127**	**6.5217**	**17.8344**	**3.0333**	**6.5108**	**9.5441**	**876.6687**	**17,798.0761**	**18,674.7448**	**4.9089**	**0.0654**	**18,816.9673**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.5018	1.3879	30.0714	8.2300e-003		0.2472	0.2472		0.2472	0.2472	0.0000	1,387.2053	1,387.2053	0.0772	0.0245	1,396.4243
Energy	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130
Mobile	4.6694	23.5469	54.7188	0.1402	11.3127	0.1922	11.5049	3.0333	0.1813	3.2146		14,175.2571	14,175.2571	0.6899		14,192.5032
Total	**16.3761**	**26.6888**	**85.5582**	**0.1596**	**11.3127**	**0.5810**	**11.8937**	**3.0333**	**0.5701**	**3.6034**	**0.0000**	**17,797.5931**	**17,797.5931**	**0.8099**	**0.0654**	**17,837.3405**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**19.72**	**2.18**	**29.98**	**42.67**	**0.00**	**91.09**	**33.31**	**0.00**	**91.24**	**62.25**	**100.00**	**0.00**	**4.70**	**83.50**	**0.00**	**5.21**

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	4/1/2019	4/12/2019	5	10	
2	Grading	Grading	4/13/2019	5/24/2019	5	30	
3	Paving	Paving	5/25/2019	6/21/2019	5	20	
4	Building Construction	Building Construction	6/22/2019	9/25/2020	5	330	
5	Architectural Coating	Architectural Coating	9/26/2020	11/20/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19.31

Acres of Paving: 9.6

Residential Indoor: 809,471; Residential Outdoor: 269,824; Non-Residential Indoor: 11,043; Non-Residential Outdoor: 3,681; Striped

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	447.00	112.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	89.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1034	0.0779	0.7228	1.4700e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		146.3802	146.3802	6.0600e-003		146.5315
Total	**0.1034**	**0.0779**	**0.7228**	**1.4700e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**146.3802**	**146.3802**	**6.0600e-003**		**146.5315**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**8.1298**	**2.3904**	**10.5202**	**4.4688**	**2.1991**	**6.6679**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1034	0.0779	0.7228	1.4700e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		146.3802	146.3802	6.0600e-003		146.5315
Total	**0.1034**	**0.0779**	**0.7228**	**1.4700e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**146.3802**	**146.3802**	**6.0600e-003**		**146.5315**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7703	0.0000	6.7703	3.3939	0.0000	3.3939			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7703**	**2.3827**	**9.1529**	**3.3939**	**2.1920**	**5.5859**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6886	23.5935	5.0010	0.0574	1.2520	0.1182	1.3702	0.3418	0.1131	0.4549		6,171.5133	6,171.5133	0.4059		6,181.6600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1149	0.0866	0.8031	1.6400e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		162.6446	162.6446	6.7300e-003		162.8128
Total	**0.8035**	**23.6801**	**5.8040**	**0.0591**	**1.4163**	**0.1195**	**1.5358**	**0.3854**	**0.1143**	**0.4997**		**6,334.1580**	**6,334.1580**	**0.4126**		**6,344.4728**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0466	0.0000	3.0466	1.5272	0.0000	1.5272			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**3.0466**	**2.3827**	**5.4293**	**1.5272**	**2.1920**	**3.7193**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6886	23.5935	5.0010	0.0574	1.2520	0.1182	1.3702	0.3418	0.1131	0.4549		6,171.5133	6,171.5133	0.4059		6,181.6600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1149	0.0866	0.8031	1.6400e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		162.6446	162.6446	6.7300e-003		162.8128
Total	**0.8035**	**23.6801**	**5.8040**	**0.0591**	**1.4163**	**0.1195**	**1.5358**	**0.3854**	**0.1143**	**0.4997**		**6,334.1580**	**6,334.1580**	**0.4126**		**6,344.4728**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4382**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0862	0.0650	0.6023	1.2300e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.9835	121.9835	5.0500e-003		122.1096
Total	**0.0862**	**0.0650**	**0.6023**	**1.2300e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**121.9835**	**121.9835**	**5.0500e-003**		**122.1096**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4382**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0862	0.0650	0.6023	1.2300e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.9835	121.9835	5.0500e-003		122.1096
Total	**0.0862**	**0.0650**	**0.6023**	**1.2300e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**121.9835**	**121.9835**	**5.0500e-003**		**122.1096**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5795	14.8670	4.2136	0.0297	0.7540	0.1171	0.8711	0.2167	0.1120	0.3287		3,154.7913	3,154.7913	0.2214		3,160.3258
Worker	2.5675	1.9354	17.9482	0.0366	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,635.1072	3,635.1072	0.1504		3,638.8667
Total	**3.1470**	**16.8024**	**22.1618**	**0.0663**	**4.4260**	**0.1467**	**4.5727**	**1.1907**	**0.1394**	**1.3301**		**6,789.8984**	**6,789.8984**	**0.3718**		**6,799.1925**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5795	14.8670	4.2136	0.0297	0.7540	0.1171	0.8711	0.2167	0.1120	0.3287		3,154.7913	3,154.7913	0.2214		3,160.3258
Worker	2.5675	1.9354	17.9482	0.0366	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,635.1072	3,635.1072	0.1504		3,638.8667
Total	**3.1470**	**16.8024**	**22.1618**	**0.0663**	**4.4260**	**0.1467**	**4.5727**	**1.1907**	**0.1394**	**1.3301**		**6,789.8984**	**6,789.8984**	**0.3718**		**6,799.1925**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4546	13.4532	3.6339	0.0295	0.7539	0.0725	0.8264	0.2167	0.0694	0.2860		3,138.7620	3,138.7620	0.2031		3,143.8382
Worker	2.3563	1.7140	16.0436	0.0354	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,522.9223	3,522.9223	0.1315		3,526.2086
Total	**2.8108**	**15.1672**	**19.6775**	**0.0649**	**4.4259**	**0.1011**	**4.5269**	**1.1907**	**0.0957**	**1.2864**		**6,661.6843**	**6,661.6843**	**0.3345**		**6,670.0469**

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4546	13.4532	3.6339	0.0295	0.7539	0.0725	0.8264	0.2167	0.0694	0.2860		3,138.7620	3,138.7620	0.2031		3,143.8382
Worker	2.3563	1.7140	16.0436	0.0354	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,522.9223	3,522.9223	0.1315		3,526.2086
Total	**2.8108**	**15.1672**	**19.6775**	**0.0649**	**4.4259**	**0.1011**	**4.5269**	**1.1907**	**0.0957**	**1.2864**		**6,661.6843**	**6,661.6843**	**0.3345**		**6,670.0469**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					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		281.4481	281.4481	0.0218		281.9928
Total	**147.4449**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4692	0.3413	3.1944	7.0500e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		701.4320	701.4320	0.0262		702.0863
Total	**0.4692**	**0.3413**	**3.1944**	**7.0500e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**701.4320**	**701.4320**	**0.0262**		**702.0863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					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	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**147.4449**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4692	0.3413	3.1944	7.0500e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		701.4320	701.4320	0.0262		702.0863
Total	**0.4692**	**0.3413**	**3.1944**	**7.0500e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**701.4320**	**701.4320**	**0.0262**		**702.0863**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6694	23.5469	54.7188	0.1402	11.3127	0.1922	11.5049	3.0333	0.1813	3.2146		14,175.2571	14,175.2571	0.6899		14,192.5032
Unmitigated	4.6694	23.5469	54.7188	0.1402	11.3127	0.1922	11.5049	3.0333	0.1813	3.2146		14,175.2571	14,175.2571	0.6899		14,192.5032

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	2,296.80	2,296.80	2296.80	5,304,706	5,304,706
Enclosed Parking Structure	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	2,296.80	2,296.80	2,296.80	5,304,706	5,304,706

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Enclosed Parking Structure	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Health Club	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Other Asphalt Surfaces	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Other Non-Asphalt Surfaces	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Parking Lot	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Unenclosed Parking Structure	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130
NaturalGas Unmitigated	0.2049	1.7540	0.7680	0.0112		0.1416	0.1416		0.1416	0.1416		2,235.1308	2,235.1308	0.0428	0.0410	2,248.4130

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	18466.5	0.1992	1.7018	0.7242	0.0109		0.1376	0.1376		0.1376	0.1376		2,172.5330	2,172.5330	0.0416	0.0398	2,185.4433
Enclosed Parking Structure	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
Health Club	439.281	4.7400e-003	0.0431	0.0362	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		51.6801	51.6801	9.9000e-004	9.5000e-004	51.9873
Health Club	92.7998	1.0000e-003	9.1000e-003	7.6400e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9176	10.9176	2.1000e-004	2.0000e-004	10.9825
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2049**	**1.7540**	**0.7680**	**0.0112**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**2,235.1308**	**2,235.1308**	**0.0428**	**0.0410**	**2,248.4130**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	18.4665	0.1992	1.7018	0.7242	0.0109		0.1376	0.1376		0.1376	0.1376		2,172.5330	2,172.5330	0.0416	0.0398	2,185.4433
Enclosed Parking Structure	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
Health Club	0.0927998	1.0000e-003	9.1000e-003	7.6400e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004		10.9176	10.9176	2.1000e-004	2.0000e-004	10.9825
Health Club	0.439281	4.7400e-003	0.0431	0.0362	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		51.6801	51.6801	9.9000e-004	9.5000e-004	51.9873
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2049**	**1.7540**	**0.7680**	**0.0112**		**0.1416**	**0.1416**		**0.1416**	**0.1416**		**2,235.1308**	**2,235.1308**	**0.0428**	**0.0410**	**2,248.4130**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.5018	1.3879	30.0714	8.2300e-003		0.2472	0.2472		0.2472	0.2472	0.0000	1,387.2053	1,387.2053	0.0772	0.0245	1,396.4243
Unmitigated	15.5239	1.9841	66.6961	0.1270		6.1880	6.1880		6.1880	6.1880	876.6687	1,387.6883	2,264.3570	4.1762	0.0245	2,376.0510

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8678					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.1315	1.6390	36.8538	0.1255		6.0240	6.0240		6.0240	6.0240	876.6687	1,334.1177	2,210.7864	4.1238	0.0245	2,321.1706
Landscaping	0.9115	0.3451	29.8423	1.5700e-003		0.1640	0.1640		0.1640	0.1640		53.5706	53.5706	0.0524		54.8804
Total	**15.5239**	**1.9841**	**66.6961**	**0.1270**		**6.1880**	**6.1880**		**6.1880**	**6.1880**	**876.6687**	**1,387.6883**	**2,264.3570**	**4.1762**	**0.0245**	**2,376.0510**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.8678					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1223	1.0451	0.4447	6.6700e-003		0.0845	0.0845		0.0845	0.0845	0.0000	1,334.1177	1,334.1177	0.0256	0.0245	1,342.0456
Landscaping	0.8986	0.3429	29.6267	1.5500e-003		0.1628	0.1628		0.1628	0.1628		53.0876	53.0876	0.0516		54.3786
Total	**11.5018**	**1.3879**	**30.0714**	**8.2200e-003**		**0.2472**	**0.2472**		**0.2472**	**0.2472**	**0.0000**	**1,387.2053**	**1,387.2053**	**0.0772**	**0.0245**	**1,396.4243**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

3249.0010 Mill Creek - Mitigated Construction (Tier 4)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	30.00	Space	0.27	14,820.00	0
Other Asphalt Surfaces	5.75	Acre	5.75	250,470.00	0
Other Non-Asphalt Surfaces	14.16	1000sqft	0.33	14,158.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Unenclosed Parking Structure	166.00	Space	1.49	82,004.00	0
Health Club	6.08	1000sqft	0.14	6,078.00	0
Health Club	1.28	1000sqft	0.03	1,284.00	0
Condo/Townhouse	360.00	Dwelling Unit	9.54	399,739.00	1030

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 3249.0010 Mill Creek - Mitigated Construction (Tier 4)
PG&E Rate for 2020
CH4 and N2O Intensity Factors based on Renewable Portfolio Standard

Land Use - Based on site plan and project description

Construction Phase - Total construction duration: 20 months
Anticipated construction start date: 4/2019

Demolition - No demolition

Grading - 19.31 acres to be disturbed
17,400 cubic yards of material to be exported

Vehicle Trips - Project trip generation based on traffic study

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.
Tier IV mitigation for construction equipment >50 HP

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	61.20	0.00
tblGrading	AcresOfGrading	75.00	19.31
tblGrading	MaterialExported	0.00	17,400.00
tblLandUse	LandUseSquareFeet	12,000.00	14,820.00
tblLandUse	LandUseSquareFeet	14,160.00	14,158.00
tblLandUse	LandUseSquareFeet	66,400.00	82,004.00
tblLandUse	LandUseSquareFeet	1,280.00	1,284.00
tblLandUse	LandUseSquareFeet	6,080.00	6,078.00
tblLandUse	LandUseSquareFeet	360,000.00	399,739.00
tblLandUse	LotAcreage	22.50	9.54
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	5.67	6.38
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.84	6.38
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.81	6.38
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4894	4.1319	3.4867	8.6900e-003	0.5042	0.1560	0.6602	0.1850	0.1457	0.3307	0.0000	797.6728	797.6728	0.1055	0.0000	800.3112
2020	3.4101	3.3379	3.5543	9.1400e-003	0.4226	0.1198	0.5424	0.1141	0.1128	0.2269	0.0000	831.5946	831.5946	0.0839	0.0000	833.6917
Maximum	**3.4101**	**4.1319**	**3.5543**	**9.1400e-003**	**0.5042**	**0.1560**	**0.6602**	**0.1850**	**0.1457**	**0.3307**	**0.0000**	**831.5946**	**831.5946**	**0.1055**	**0.0000**	**833.6917**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2828	1.7572	3.5429	8.6900e-003	0.3987	0.0234	0.4220	0.1297	0.0228	0.1525	0.0000	797.6725	797.6725	0.1055	0.0000	800.3109
2020	3.2617	1.7257	3.6395	9.1400e-003	0.4226	0.0219	0.4445	0.1141	0.0214	0.1355	0.0000	831.5944	831.5944	0.0839	0.0000	833.6914
Maximum	**3.2617**	**1.7572**	**3.6395**	**9.1400e-003**	**0.4226**	**0.0234**	**0.4445**	**0.1297**	**0.0228**	**0.1525**	**0.0000**	**831.5944**	**831.5944**	**0.1055**	**0.0000**	**833.6914**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**9.10**	**53.37**	**-2.01**	**0.00**	**11.39**	**83.59**	**27.95**	**18.49**	**82.92**	**48.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**4-1-2019**	**6-30-2019**	1.7761	0.5289
2	**7-1-2019**	**9-30-2019**	1.3994	0.7450
3	**10-1-2019**	**12-31-2019**	1.4256	0.7713
4	**1-1-2020**	**3-31-2020**	1.2767	0.6957
5	**4-1-2020**	**6-30-2020**	1.2546	0.6735
6	**7-1-2020**	**9-30-2020**	1.4670	0.9084
		Highest	1.7761	0.9084

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	4/1/2019	4/12/2019	5	10	
2	Grading	Grading	4/13/2019	5/24/2019	5	30	
3	Paving	Paving	5/25/2019	6/21/2019	5	20	
4	Building Construction	Building Construction	6/22/2019	9/25/2020	5	330	
5	Architectural Coating	Architectural Coating	9/26/2020	11/20/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19.31

Acres of Paving: 9.6

Residential Indoor: 809,471; Residential Outdoor: 269,824; Non-Residential Indoor: 11,043; Non-Residential Outdoor: 3,681; Striped

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	447.00	112.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	89.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**0.0217**	**0.2279**	**0.1103**	**1.9000e-004**	**0.0903**	**0.0120**	**0.1023**	**0.0497**	**0.0110**	**0.0607**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	3.5000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6714	0.6714	3.0000e-005	0.0000	0.6721
Total	**4.7000e-004**	**3.5000e-004**	**3.5000e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6714**	**0.6714**	**3.0000e-005**	**0.0000**	**0.6721**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	**2.3300e-003**	**0.0101**	**0.1043**	**1.9000e-004**	**0.0407**	**3.1000e-004**	**0.0410**	**0.0223**	**3.1000e-004**	**0.0227**	**0.0000**	**17.0843**	**17.0843**	**5.4100e-003**	**0.0000**	**17.2195**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	3.5000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6714	0.6714	3.0000e-005	0.0000	0.6721
Total	**4.7000e-004**	**3.5000e-004**	**3.5000e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6714**	**0.6714**	**3.0000e-005**	**0.0000**	**0.6721**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1016	0.0000	0.1016	0.0509	0.0000	0.0509	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5520	83.5520	0.0264	0.0000	84.2129
Total	**0.0711**	**0.8178**	**0.5007**	**9.3000e-004**	**0.1016**	**0.0357**	**0.1373**	**0.0509**	**0.0329**	**0.0838**	**0.0000**	**83.5520**	**83.5520**	**0.0264**	**0.0000**	**84.2129**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0102	0.3514	0.0718	8.7000e-004	0.0180	1.7500e-003	0.0198	4.9500e-003	1.6700e-003	6.6200e-003	0.0000	84.6276	84.6276	5.3700e-003	0.0000	84.7620
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.1700e-003	0.0117	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.2379	2.2379	9.0000e-005	0.0000	2.2402
Total	**0.0117**	**0.3526**	**0.0835**	**8.9000e-004**	**0.0204**	**1.7700e-003**	**0.0222**	**5.5800e-003**	**1.6900e-003**	**7.2700e-003**	**0.0000**	**86.8656**	**86.8656**	**5.4600e-003**	**0.0000**	**87.0022**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0457	0.0000	0.0457	0.0229	0.0000	0.0229	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	83.5519	83.5519	0.0264	0.0000	84.2128
Total	**0.0114**	**0.0495**	**0.4950**	**9.3000e-004**	**0.0457**	**1.5200e-003**	**0.0472**	**0.0229**	**1.5200e-003**	**0.0244**	**0.0000**	**83.5519**	**83.5519**	**0.0264**	**0.0000**	**84.2128**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0102	0.3514	0.0718	8.7000e-004	0.0180	1.7500e-003	0.0198	4.9500e-003	1.6700e-003	6.6200e-003	0.0000	84.6276	84.6276	5.3700e-003	0.0000	84.7620
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.1700e-003	0.0117	2.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.2379	2.2379	9.0000e-005	0.0000	2.2402
Total	**0.0117**	**0.3526**	**0.0835**	**8.9000e-004**	**0.0204**	**1.7700e-003**	**0.0222**	**5.5800e-003**	**1.6900e-003**	**7.2700e-003**	**0.0000**	**86.8656**	**86.8656**	**5.4600e-003**	**0.0000**	**87.0022**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	9.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0244**	**0.1524**	**0.1467**	**2.3000e-004**		**8.2500e-003**	**8.2500e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.9000e-004	5.8400e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1190	1.1190	5.0000e-005	0.0000	1.1201
Total	**7.8000e-004**	**5.9000e-004**	**5.8400e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1190**	**1.1190**	**5.0000e-005**	**0.0000**	**1.1201**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	9.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0126**	**0.0122**	**0.1730**	**2.3000e-004**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.9000e-004	5.8400e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1190	1.1190	5.0000e-005	0.0000	1.1201
Total	**7.8000e-004**	**5.9000e-004**	**5.8400e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.1190**	**1.1190**	**5.0000e-005**	**0.0000**	**1.1201**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1617	1.4439	1.1757	1.8400e-003		0.0884	0.0884		0.0831	0.0831	0.0000	161.0464	161.0464	0.0392	0.0000	162.0272
Total	**0.1617**	**1.4439**	**1.1757**	**1.8400e-003**		**0.0884**	**0.0884**		**0.0831**	**0.0831**	**0.0000**	**161.0464**	**161.0464**	**0.0392**	**0.0000**	**162.0272**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0386	1.0165	0.2693	2.0600e-003	0.0497	7.9100e-003	0.0577	0.0144	7.5700e-003	0.0220	0.0000	198.4435	198.4435	0.0132	0.0000	198.7730
Worker	0.1590	0.1199	1.1913	2.5300e-003	0.2403	2.0300e-003	0.2423	0.0640	1.8700e-003	0.0658	0.0000	228.4155	228.4155	9.2700e-003	0.0000	228.6472
Total	**0.1976**	**1.1363**	**1.4606**	**4.5900e-003**	**0.2900**	**9.9400e-003**	**0.3000**	**0.0783**	**9.4400e-003**	**0.0878**	**0.0000**	**426.8590**	**426.8590**	**0.0225**	**0.0000**	**427.4202**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0458	0.1956	1.2173	1.8400e-003		9.4200e-003	9.4200e-003		9.4200e-003	9.4200e-003	0.0000	161.0462	161.0462	0.0392	0.0000	162.0270
Total	**0.0458**	**0.1956**	**1.2173**	**1.8400e-003**		**9.4200e-003**	**9.4200e-003**		**9.4200e-003**	**9.4200e-003**	**0.0000**	**161.0462**	**161.0462**	**0.0392**	**0.0000**	**162.0270**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0386	1.0165	0.2693	2.0600e-003	0.0497	7.9100e-003	0.0577	0.0144	7.5700e-003	0.0220	0.0000	198.4435	198.4435	0.0132	0.0000	198.7730
Worker	0.1590	0.1199	1.1913	2.5300e-003	0.2403	2.0300e-003	0.2423	0.0640	1.8700e-003	0.0658	0.0000	228.4155	228.4155	9.2700e-003	0.0000	228.6472
Total	**0.1976**	**1.1363**	**1.4606**	**4.5900e-003**	**0.2900**	**9.9400e-003**	**0.3000**	**0.0783**	**9.4400e-003**	**0.0878**	**0.0000**	**426.8590**	**426.8590**	**0.0225**	**0.0000**	**427.4202**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2046	1.8515	1.6259	2.6000e-003		0.1078	0.1078		0.1014	0.1014	0.0000	223.5036	223.5036	0.0545	0.0000	224.8668
Total	**0.2046**	**1.8515**	**1.6259**	**2.6000e-003**		**0.1078**	**0.1078**		**0.1014**	**0.1014**	**0.0000**	**223.5036**	**223.5036**	**0.0545**	**0.0000**	**224.8668**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0425	1.2970	0.3275	2.8800e-003	0.0701	6.9000e-003	0.0770	0.0203	6.6100e-003	0.0269	0.0000	278.2623	278.2623	0.0171	0.0000	278.6884
Worker	0.2057	0.1495	1.5024	3.4600e-003	0.3385	2.7600e-003	0.3413	0.0901	2.5400e-003	0.0927	0.0000	311.8535	311.8535	0.0114	0.0000	312.1396
Total	**0.2482**	**1.4466**	**1.8298**	**6.3400e-003**	**0.4086**	**9.6600e-003**	**0.4183**	**0.1104**	**9.1500e-003**	**0.1195**	**0.0000**	**590.1158**	**590.1158**	**0.0285**	**0.0000**	**590.8280**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0604	0.2704	1.7110	2.6000e-003		0.0120	0.0120		0.0120	0.0120	0.0000	223.5034	223.5034	0.0545	0.0000	224.8665
Total	**0.0604**	**0.2704**	**1.7110**	**2.6000e-003**		**0.0120**	**0.0120**		**0.0120**	**0.0120**	**0.0000**	**223.5034**	**223.5034**	**0.0545**	**0.0000**	**224.8665**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0425	1.2970	0.3275	2.8800e-003	0.0701	6.9000e-003	0.0770	0.0203	6.6100e-003	0.0269	0.0000	278.2623	278.2623	0.0171	0.0000	278.6884
Worker	0.2057	0.1495	1.5024	3.4600e-003	0.3385	2.7600e-003	0.3413	0.0901	2.5400e-003	0.0927	0.0000	311.8535	311.8535	0.0114	0.0000	312.1396
Total	**0.2482**	**1.4466**	**1.8298**	**6.3400e-003**	**0.4086**	**9.6600e-003**	**0.4183**	**0.1104**	**9.1500e-003**	**0.1195**	**0.0000**	**590.1158**	**590.1158**	**0.0285**	**0.0000**	**590.8280**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9441					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8400e-003	0.0337	0.0366	6.0000e-005		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	5.1065	5.1065	4.0000e-004	0.0000	5.1164
Total	**2.9489**	**0.0337**	**0.0366**	**6.0000e-005**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**	**0.0000**	**5.1065**	**5.1065**	**4.0000e-004**	**0.0000**	**5.1164**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4900e-003	6.1700e-003	0.0620	1.4000e-004	0.0140	1.1000e-004	0.0141	3.7200e-003	1.0000e-004	3.8200e-003	0.0000	12.8687	12.8687	4.7000e-004	0.0000	12.8805
Total	**8.4900e-003**	**6.1700e-003**	**0.0620**	**1.4000e-004**	**0.0140**	**1.1000e-004**	**0.0141**	**3.7200e-003**	**1.0000e-004**	**3.8200e-003**	**0.0000**	**12.8687**	**12.8687**	**4.7000e-004**	**0.0000**	**12.8805**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9441					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	2.5800e-003	0.0367	6.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	5.1065	5.1065	4.0000e-004	0.0000	5.1164
Total	**2.9446**	**2.5800e-003**	**0.0367**	**6.0000e-005**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**5.1065**	**5.1065**	**4.0000e-004**	**0.0000**	**5.1164**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.4900e-003	6.1700e-003	0.0620	1.4000e-004	0.0140	1.1000e-004	0.0141	3.7200e-003	1.0000e-004	3.8200e-003	0.0000	12.8687	12.8687	4.7000e-004	0.0000	12.8805
Total	**8.4900e-003**	**6.1700e-003**	**0.0620**	**1.4000e-004**	**0.0140**	**1.1000e-004**	**0.0141**	**3.7200e-003**	**1.0000e-004**	**3.8200e-003**	**0.0000**	**12.8687**	**12.8687**	**4.7000e-004**	**0.0000**	**12.8805**

3249.0010 Mill Creek - Mitigated Construction (Tier 4)

Sonoma-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	30.00	Space	0.27	14,820.00	0
Other Asphalt Surfaces	5.75	Acre	5.75	250,470.00	0
Other Non-Asphalt Surfaces	14.16	1000sqft	0.33	14,158.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Unenclosed Parking Structure	166.00	Space	1.49	82,004.00	0
Health Club	6.08	1000sqft	0.14	6,078.00	0
Health Club	1.28	1000sqft	0.03	1,284.00	0
Condo/Townhouse	360.00	Dwelling Unit	9.54	399,739.00	1030

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 3249.0010 Mill Creek - Mitigated Construction (Tier 4)
PG&E Rate for 2020
CH4 and N2O Intensity Factors based on Renewable Portfolio Standard

Land Use - Based on site plan and project description

Construction Phase - Total construction duration: 20 months
Anticipated construction start date: 4/2019

Demolition - No demolition

Grading - 19.31 acres to be disturbed
17,400 cubic yards of material to be exported

Vehicle Trips - Project trip generation based on traffic study

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.
Tier IV mitigation for construction equipment >50 HP

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	61.20	0.00
tblGrading	AcresOfGrading	75.00	19.31
tblGrading	MaterialExported	0.00	17,400.00
tblLandUse	LandUseSquareFeet	12,000.00	14,820.00
tblLandUse	LandUseSquareFeet	14,160.00	14,158.00
tblLandUse	LandUseSquareFeet	66,400.00	82,004.00
tblLandUse	LandUseSquareFeet	1,280.00	1,284.00
tblLandUse	LandUseSquareFeet	6,080.00	6,078.00
tblLandUse	LandUseSquareFeet	360,000.00	399,739.00
tblLandUse	LotAcreage	22.50	9.54
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	5.67	6.38
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.84	6.38
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.81	6.38
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5146	77.5879	39.1607	0.1220	18.2141	2.4992	20.6057	9.9699	2.3035	12.1701	0.0000	12,568.5197	12,568.5197	2.3363	0.0000	12,626.9266
2020	147.8801	33.8653	36.4571	0.0952	4.4259	1.2165	5.6424	1.1907	1.1445	2.3352	0.0000	9,551.3641	9,551.3641	0.9475	0.0000	9,575.0521
Maximum	**147.8801**	**77.5879**	**39.1607**	**0.1220**	**18.2141**	**2.4992**	**20.6057**	**9.9699**	**2.3035**	**12.1701**	**0.0000**	**12,568.5197**	**12,568.5197**	**2.3363**	**0.0000**	**12,626.9266**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.6000	26.3678	39.7675	0.1220	8.2777	0.2816	8.3410	4.5080	0.2744	4.5712	0.0000	12,568.5197	12,568.5197	2.3363	0.0000	12,626.9266
2020	147.6676	17.4813	37.3391	0.0952	4.4259	0.2242	4.6501	1.1907	0.2189	1.4096	0.0000	9,551.3641	9,551.3641	0.9475	0.0000	9,575.0521
Maximum	**147.6676**	**26.3678**	**39.7675**	**0.1220**	**8.2777**	**0.2816**	**8.3410**	**4.5080**	**0.2744**	**4.5712**	**0.0000**	**12,568.5197**	**12,568.5197**	**2.3363**	**0.0000**	**12,626.9266**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.39**	**60.66**	**-1.97**	**0.00**	**43.89**	**86.39**	**50.51**	**48.94**	**85.69**	**58.77**	**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	4/1/2019	4/12/2019	5	10	
2	Grading	Grading	4/13/2019	5/24/2019	5	30	
3	Paving	Paving	5/25/2019	6/21/2019	5	20	
4	Building Construction	Building Construction	6/22/2019	9/25/2020	5	330	
5	Architectural Coating	Architectural Coating	9/26/2020	11/20/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19.31

Acres of Paving: 9.6

Residential Indoor: 809,471; Residential Outdoor: 269,824; Non-Residential Indoor: 11,043; Non-Residential Outdoor: 3,681; Striped

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	447.00	112.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	89.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0958	0.0629	0.7368	1.5800e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		157.4988	157.4988	6.2600e-003		157.6553
Total	**0.0958**	**0.0629**	**0.7368**	**1.5800e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**157.4988**	**157.4988**	**6.2600e-003**		**157.6553**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0958	0.0629	0.7368	1.5800e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		157.4988	157.4988	6.2600e-003		157.6553
Total	**0.0958**	**0.0629**	**0.7368**	**1.5800e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**157.4988**	**157.4988**	**6.2600e-003**		**157.6553**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7703	0.0000	6.7703	3.3939	0.0000	3.3939			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7703**	**2.3827**	**9.1529**	**3.3939**	**2.1920**	**5.5859**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6693	22.9979	4.6360	0.0582	1.2520	0.1152	1.3672	0.3418	0.1102	0.4520		6,253.5016	6,253.5016	0.3867		6,263.1687
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1064	0.0699	0.8187	1.7600e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		174.9987	174.9987	6.9500e-003		175.1725
Total	**0.7757**	**23.0678**	**5.4547**	**0.0600**	**1.4163**	**0.1166**	**1.5328**	**0.3854**	**0.1115**	**0.4968**		**6,428.5002**	**6,428.5002**	**0.3936**		**6,438.3412**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0466	0.0000	3.0466	1.5272	0.0000	1.5272			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**3.0466**	**0.1015**	**3.1482**	**1.5272**	**0.1015**	**1.6288**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6693	22.9979	4.6360	0.0582	1.2520	0.1152	1.3672	0.3418	0.1102	0.4520		6,253.5016	6,253.5016	0.3867		6,263.1687
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1064	0.0699	0.8187	1.7600e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		174.9987	174.9987	6.9500e-003		175.1725
Total	**0.7757**	**23.0678**	**5.4547**	**0.0600**	**1.4163**	**0.1166**	**1.5328**	**0.3854**	**0.1115**	**0.4968**		**6,428.5002**	**6,428.5002**	**0.3936**		**6,438.3412**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4382**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0524	0.6140	1.3200e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		131.2490	131.2490	5.2200e-003		131.3794
Total	**0.0798**	**0.0524**	**0.6140**	**1.3200e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**131.2490**	**131.2490**	**5.2200e-003**		**131.3794**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2643**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0798	0.0524	0.6140	1.3200e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		131.2490	131.2490	5.2200e-003		131.3794
Total	**0.0798**	**0.0524**	**0.6140**	**1.3200e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**131.2490**	**131.2490**	**5.2200e-003**		**131.3794**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5520	14.6569	3.6988	0.0303	0.7540	0.1144	0.8684	0.2167	0.1095	0.3262		3,221.3600	3,221.3600	0.2048		3,226.4788
Worker	2.3789	1.5619	18.2981	0.0393	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,911.2204	3,911.2204	0.1554		3,915.1056
Total	**2.9309**	**16.2187**	**21.9969**	**0.0696**	**4.4260**	**0.1441**	**4.5700**	**1.1907**	**0.1368**	**1.3275**		**7,132.5803**	**7,132.5803**	**0.3602**		**7,141.5843**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6692	2.8550	17.7706	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**0.6692**	**2.8550**	**17.7706**	**0.0269**		**0.1375**	**0.1375**		**0.1375**	**0.1375**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5520	14.6569	3.6988	0.0303	0.7540	0.1144	0.8684	0.2167	0.1095	0.3262		3,221.3600	3,221.3600	0.2048		3,226.4788
Worker	2.3789	1.5619	18.2981	0.0393	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,911.2204	3,911.2204	0.1554		3,915.1056
Total	**2.9309**	**16.2187**	**21.9969**	**0.0696**	**4.4260**	**0.1441**	**4.5700**	**1.1907**	**0.1368**	**1.3275**		**7,132.5803**	**7,132.5803**	**0.3602**		**7,141.5843**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4317	13.2958	3.1904	0.0301	0.7539	0.0709	0.8247	0.2167	0.0678	0.2845		3,207.4248	3,207.4248	0.1881		3,212.1279
Worker	2.1855	1.3834	16.4183	0.0381	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,790.8763	3,790.8763	0.1365		3,794.2898
Total	**2.6172**	**14.6792**	**19.6086**	**0.0683**	**4.4259**	**0.0994**	**4.5253**	**1.1907**	**0.0942**	**1.2848**		**6,998.3010**	**6,998.3010**	**0.3247**		**7,006.4177**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**0.6261**	**2.8021**	**17.7304**	**0.0269**		**0.1248**	**0.1248**		**0.1248**	**0.1248**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4317	13.2958	3.1904	0.0301	0.7539	0.0709	0.8247	0.2167	0.0678	0.2845		3,207.4248	3,207.4248	0.1881		3,212.1279
Worker	2.1855	1.3834	16.4183	0.0381	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,790.8763	3,790.8763	0.1365		3,794.2898
Total	**2.6172**	**14.6792**	**19.6086**	**0.0683**	**4.4259**	**0.0994**	**4.5253**	**1.1907**	**0.0942**	**1.2848**		**6,998.3010**	**6,998.3010**	**0.3247**		**7,006.4177**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					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		281.4481	281.4481	0.0218		281.9928
Total	**147.4449**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2754	3.2690	7.5900e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		754.7830	754.7830	0.0272		755.4626
Total	**0.4351**	**0.2754**	**3.2690**	**7.5900e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**754.7830**	**754.7830**	**0.0272**		**755.4626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**147.2324**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4351	0.2754	3.2690	7.5900e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		754.7830	754.7830	0.0272		755.4626
Total	**0.4351**	**0.2754**	**3.2690**	**7.5900e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**754.7830**	**754.7830**	**0.0272**		**755.4626**

3249.0010 Mill Creek - Mitigated Construction (Tier 4)

Sonoma-San Francisco County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	30.00	Space	0.27	14,820.00	0
Other Asphalt Surfaces	5.75	Acre	5.75	250,470.00	0
Other Non-Asphalt Surfaces	14.16	1000sqft	0.33	14,158.00	0
Parking Lot	196.00	Space	1.76	78,400.00	0
Unenclosed Parking Structure	166.00	Space	1.49	82,004.00	0
Health Club	6.08	1000sqft	0.14	6,078.00	0
Health Club	1.28	1000sqft	0.03	1,284.00	0
Condo/Townhouse	360.00	Dwelling Unit	9.54	399,739.00	1030

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 3249.0010 Mill Creek - Mitigated Construction (Tier 4)
PG&E Rate for 2020
CH4 and N2O Intensity Factors based on Renewable Portfolio Standard

Land Use - Based on site plan and project description

Construction Phase - Total construction duration: 20 months
Anticipated construction start date: 4/2019

Demolition - No demolition

Grading - 19.31 acres to be disturbed
17,400 cubic yards of material to be exported

Vehicle Trips - Project trip generation based on traffic study

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.
Tier IV mitigation for construction equipment >50 HP

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	300.00	330.00
tblConstructionPhase	NumDays	20.00	40.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	61.20	0.00
tblGrading	AcresOfGrading	75.00	19.31
tblGrading	MaterialExported	0.00	17,400.00
tblLandUse	LandUseSquareFeet	12,000.00	14,820.00
tblLandUse	LandUseSquareFeet	14,160.00	14,158.00
tblLandUse	LandUseSquareFeet	66,400.00	82,004.00
tblLandUse	LandUseSquareFeet	1,280.00	1,284.00
tblLandUse	LandUseSquareFeet	6,080.00	6,078.00
tblLandUse	LandUseSquareFeet	360,000.00	399,739.00
tblLandUse	LotAcreage	22.50	9.54
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	5.67	6.38
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	4.84	6.38
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	5.81	6.38
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5424	78.2003	39.3256	0.1211	18.2141	2.5022	20.6057	9.9699	2.3064	12.1701	0.0000	12,474.1774	12,474.1774	2.3552	0.0000	12,533.0582
2020	147.9141	34.3532	36.5260	0.0919	4.4259	1.2181	5.6440	1.1907	1.1460	2.3367	0.0000	9,214.7474	9,214.7474	0.9574	0.0000	9,238.6814
Maximum	**147.9141**	**78.2003**	**39.3256**	**0.1211**	**18.2141**	**2.5022**	**20.6057**	**9.9699**	**2.3064**	**12.1701**	**0.0000**	**12,474.1774**	**12,474.1774**	**2.3552**	**0.0000**	**12,533.0582**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.8162	26.9802	39.9324	0.1211	8.2777	0.2843	8.3410	4.5080	0.2769	4.5712	0.0000	12,474.1774	12,474.1774	2.3552	0.0000	12,533.0582
2020	147.7016	17.9692	37.4079	0.0919	4.4259	0.2258	4.6517	1.1907	0.2205	1.4111	0.0000	9,214.7474	9,214.7474	0.9574	0.0000	9,238.6813
Maximum	**147.7016**	**26.9802**	**39.9324**	**0.1211**	**8.2777**	**0.2843**	**8.3410**	**4.5080**	**0.2769**	**4.5712**	**0.0000**	**12,474.1774**	**12,474.1774**	**2.3552**	**0.0000**	**12,533.0582**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.26**	**60.06**	**-1.96**	**0.00**	**43.89**	**86.29**	**50.50**	**48.94**	**85.59**	**58.76**	**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	4/1/2019	4/12/2019	5	10	
2	Grading	Grading	4/13/2019	5/24/2019	5	30	
3	Paving	Paving	5/25/2019	6/21/2019	5	20	
4	Building Construction	Building Construction	6/22/2019	9/25/2020	5	330	
5	Architectural Coating	Architectural Coating	9/26/2020	11/20/2020	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 19.31

Acres of Paving: 9.6

Residential Indoor: 809,471; Residential Outdoor: 269,824; Non-Residential Indoor: 11,043; Non-Residential Outdoor: 3,681; Striped

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,175.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	447.00	112.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	89.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1034	0.0779	0.7228	1.4700e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		146.3802	146.3802	6.0600e-003		146.5315
Total	**0.1034**	**0.0779**	**0.7228**	**1.4700e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**146.3802**	**146.3802**	**6.0600e-003**		**146.5315**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**0.4656**	**2.0175**	**20.8690**	**0.0380**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1034	0.0779	0.7228	1.4700e-003	0.1479	1.1900e-003	0.1491	0.0392	1.1000e-003	0.0403		146.3802	146.3802	6.0600e-003		146.5315
Total	**0.1034**	**0.0779**	**0.7228**	**1.4700e-003**	**0.1479**	**1.1900e-003**	**0.1491**	**0.0392**	**1.1000e-003**	**0.0403**		**146.3802**	**146.3802**	**6.0600e-003**		**146.5315**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7703	0.0000	6.7703	3.3939	0.0000	3.3939			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7703**	**2.3827**	**9.1529**	**3.3939**	**2.1920**	**5.5859**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6886	23.5935	5.0010	0.0574	1.2520	0.1182	1.3702	0.3418	0.1131	0.4549		6,171.5133	6,171.5133	0.4059		6,181.6600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1149	0.0866	0.8031	1.6400e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		162.6446	162.6446	6.7300e-003		162.8128
Total	**0.8035**	**23.6801**	**5.8040**	**0.0591**	**1.4163**	**0.1195**	**1.5358**	**0.3854**	**0.1143**	**0.4997**		**6,334.1580**	**6,334.1580**	**0.4126**		**6,344.4728**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0466	0.0000	3.0466	1.5272	0.0000	1.5272			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**0.7616**	**3.3000**	**32.9991**	**0.0620**	**3.0466**	**0.1015**	**3.1482**	**1.5272**	**0.1015**	**1.6288**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6886	23.5935	5.0010	0.0574	1.2520	0.1182	1.3702	0.3418	0.1131	0.4549		6,171.5133	6,171.5133	0.4059		6,181.6600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1149	0.0866	0.8031	1.6400e-003	0.1643	1.3300e-003	0.1656	0.0436	1.2200e-003	0.0448		162.6446	162.6446	6.7300e-003		162.8128
Total	**0.8035**	**23.6801**	**5.8040**	**0.0591**	**1.4163**	**0.1195**	**1.5358**	**0.3854**	**0.1143**	**0.4997**		**6,334.1580**	**6,334.1580**	**0.4126**		**6,344.4728**

3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4382**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0862	0.0650	0.6023	1.2300e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.9835	121.9835	5.0500e-003		122.1096
Total	**0.0862**	**0.0650**	**0.6023**	**1.2300e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**121.9835**	**121.9835**	**5.0500e-003**		**122.1096**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.9838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2643**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0862	0.0650	0.6023	1.2300e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.9835	121.9835	5.0500e-003		122.1096
Total	**0.0862**	**0.0650**	**0.6023**	**1.2300e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**121.9835**	**121.9835**	**5.0500e-003**		**122.1096**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5795	14.8670	4.2136	0.0297	0.7540	0.1171	0.8711	0.2167	0.1120	0.3287		3,154.7913	3,154.7913	0.2214		3,160.3258
Worker	2.5675	1.9354	17.9482	0.0366	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,635.1072	3,635.1072	0.1504		3,638.8667
Total	**3.1470**	**16.8024**	**22.1618**	**0.0663**	**4.4260**	**0.1467**	**4.5727**	**1.1907**	**0.1394**	**1.3301**		**6,789.8984**	**6,789.8984**	**0.3718**		**6,799.1925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6692	2.8550	17.7706	0.0269		0.1375	0.1375		0.1375	0.1375	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**0.6692**	**2.8550**	**17.7706**	**0.0269**		**0.1375**	**0.1375**		**0.1375**	**0.1375**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5795	14.8670	4.2136	0.0297	0.7540	0.1171	0.8711	0.2167	0.1120	0.3287		3,154.7913	3,154.7913	0.2214		3,160.3258
Worker	2.5675	1.9354	17.9482	0.0366	3.6720	0.0297	3.7017	0.9740	0.0274	1.0014		3,635.1072	3,635.1072	0.1504		3,638.8667
Total	**3.1470**	**16.8024**	**22.1618**	**0.0663**	**4.4260**	**0.1467**	**4.5727**	**1.1907**	**0.1394**	**1.3301**		**6,789.8984**	**6,789.8984**	**0.3718**		**6,799.1925**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4546	13.4532	3.6339	0.0295	0.7539	0.0725	0.8264	0.2167	0.0694	0.2860		3,138.7620	3,138.7620	0.2031		3,143.8382
Worker	2.3563	1.7140	16.0436	0.0354	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,522.9223	3,522.9223	0.1315		3,526.2086
Total	**2.8108**	**15.1672**	**19.6775**	**0.0649**	**4.4259**	**0.1011**	**4.5269**	**1.1907**	**0.0957**	**1.2864**		**6,661.6843**	**6,661.6843**	**0.3345**		**6,670.0469**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**0.6261**	**2.8021**	**17.7304**	**0.0269**		**0.1248**	**0.1248**		**0.1248**	**0.1248**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4546	13.4532	3.6339	0.0295	0.7539	0.0725	0.8264	0.2167	0.0694	0.2860		3,138.7620	3,138.7620	0.2031		3,143.8382
Worker	2.3563	1.7140	16.0436	0.0354	3.6720	0.0286	3.7006	0.9740	0.0264	1.0003		3,522.9223	3,522.9223	0.1315		3,526.2086
Total	**2.8108**	**15.1672**	**19.6775**	**0.0649**	**4.4259**	**0.1011**	**4.5269**	**1.1907**	**0.0957**	**1.2864**		**6,661.6843**	**6,661.6843**	**0.3345**		**6,670.0469**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					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		281.4481	281.4481	0.0218		281.9928
Total	**147.4449**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4692	0.3413	3.1944	7.0500e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		701.4320	701.4320	0.0262		702.0863
Total	**0.4692**	**0.3413**	**3.1944**	**7.0500e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**701.4320**	**701.4320**	**0.0262**		**702.0863**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	147.2027					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**147.2324**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4692	0.3413	3.1944	7.0500e-003	0.7311	5.6900e-003	0.7368	0.1939	5.2500e-003	0.1992		701.4320	701.4320	0.0262		702.0863
Total	**0.4692**	**0.3413**	**3.1944**	**7.0500e-003**	**0.7311**	**5.6900e-003**	**0.7368**	**0.1939**	**5.2500e-003**	**0.1992**		**701.4320**	**701.4320**	**0.0262**		**702.0863**

Mill Creek

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	8	hours/day
	5	days/week
	41	weeks/year
	1640	hours/year

Onsite Construction Area Source Size (m2): 80210.4 from AERMOD

Onsite Construction PM2.5 Emissions

2019	**Construction Activity**	**Onsite Annual DPM Exhaust Emissions (tons/year)**	**Onsite Annual DPM Exhaust Emissions (g/sec)**	**Onsite DPM Source Exhaust Emissions (g/m2-sec)**
	Site Preparation	1.100E-02	1.692E-03	2.109E-08
	Grading	3.290E-02	5.060E-03	6.308E-08
	Paving	7.590E-03	1.167E-03	1.455E-08
	Building Construction	8.310E-02	1.278E-02	1.593E-07
	Total	**1.346E-01**	**2.070E-02**	**2.581E-07**

Offsite Construction Vehicle PM2.5 Emissions

2019	**Construction Activity**	**Offsite Hauling Annual DPM Exhaust Emissions (tons/year)**	**Offsite Vendor Annual DPM Exhaust Emissions (tons/year)**	**Offsite Workers Annual DPM Exhaust Emissions (tons/year)**	
	Site Preparation	0.000E+00	0.000E+00	1.000E-05	
	Grading	1.670E-03	0.000E+00	2.000E-05	
	Paving	0.000E+00	0.000E+00	1.000E-05	
	Building Construction	0.000E+00	7.570E-03	1.870E-03	
	Total (tons/year)	**1.670E-03**	**7.570E-03**	**1.910E-03**	**1.115E-02**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Along Roadway Segment (mi)	0.35	0.35	0.35	
	Offsite Project Emissions Along Roadway Segment (tons/year)	**2.912E-05**	**3.616E-04**	**6.167E-05**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**4.524E-04**
Total Offsite Project Exhaust Emissions (grams/sec)	**6.957E-05**

Onsite Exhaust Emissions (tons/year)	**1.346E-01**
Total Onsite Emissions (tons/year)	**1.346E-01**
Onsite Exhaust Emissions (g/m2-sec)	**2.581E-07**

Total PM@2.5 Exhaust (tons/year)	1.350E-01

Mill Creek

No Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling **2020**

8	hours/day
5	days/week
49	weeks/year
1960	hours/year

Onsite Construction Area Source Size (m2): 80210.40

Onsite Construction PM2.5 Emissions

2020 Construction Activity	Onsite Annual DPM Exhaust Emissions (tons/year)	Onsite Annual DPM Exhaust Emissions (g/sec)	Onsite DPM Source Exhaust Emissions (g/m2-sec)
Building Construction	1.014E-01	1.305E-02	1.627E-07
Total	**1.014E-01**	**1.305E-02**	**1.627E-07**

Offsite Construction Vehicle PM2.5 Emissions

2020 Construction Activity	Offsite Hauling Annual DPM Exhaust Emissions (tons/year)	Offsite Vendor Annual DPM Exhaust Emissions (tons/year)	Offsite Workers Annual DPM Exhaust Emissions (tons/year)	
Building Construction	0.000E+00	6.610E-03	2.540E-03	
Total (tons/year)	**0.000E+00**	**6.610E-03**	**2.540E-03**	**9.150E-03**
Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
Offsite Project Trip Distance (mi)	0.35	0.35	0.35	
Offsite Project Emissions (tons/year)	**0.000E+00**	**3.157E-04**	**8.201E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**3.977E-04**
Offsite Project Exhaust Emissions (grams/sec)	**5.118E-05**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**1.014E-01**
Total Onsite Emissions (tons/year)	**1.014E-01**
Onsite Exhaust Emissions (g/m2-sec)	**1.627E-07**

Total PM@2.5 Exhaust (tons/year)	1.018E-01
Total PM2.5 (tons/year)	**1.018E-01**

Mill Creek | **2019** | **No Mitigation** | **At Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 2.58061E-07
Annual Average Offsite DPM Exhaust Emission Rate: 6.95709E-05

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
516122.45	4266263.52	1.16637	0.03010	0.00000	0.00000E+00	0.03010
516114.09	4266273.28	1.11747	0.02884	0.00000	0.00000E+00	0.02884
516103.64	4266274.95	0.96027	0.02478	0.00000	0.00000E+00	0.02478
516092.36	4266274.54	0.80465	0.02076	0.00000	0.00000E+00	0.02076
516081.5	4266274.54	0.68555	0.01769	0.00000	0.00000E+00	0.01769
516071.05	4266273.28	0.58599	0.01512	0.00000	0.00000E+00	0.01512
516061.03	4266274.54	0.51531	0.01330	0.00000	0.00000E+00	0.01330
516134.56	4266245.71	1.19268	0.03078	0.00000	0.00000E+00	0.03078
516091.94	4266243.62	0.63457	0.01638	0.00000	0.00000E+00	0.01638
516109.91	4266245.71	0.82545	0.02130	0.00000	0.00000E+00	0.02130
516122.44	4266244.87	0.9835	0.02538	0.00000	0.00000E+00	0.02538
516062.7	4266259.91	0.48124	0.01242	0.00000	0.00000E+00	0.01242
516085.68	4266203.09	0.45433	0.01172	0.00000	0.00000E+00	0.01172
516095.29	4266203.09	0.50756	0.01310	0.00000	0.00000E+00	0.01310
516104.9	4266203.09	0.56872	0.01468	0.00000	0.00000E+00	0.01468
516114.5	4266203.09	0.63923	0.01650	0.00000	0.00000E+00	0.01650
516123.7	4266203.09	0.71732	0.01851	0.00000	0.00000E+00	0.01851
516132.05	4266202.68	0.79629	0.02055	0.00000	0.00000E+00	0.02055
516141.24	4266203.51	0.90541	0.02337	0.00000	0.00000E+00	0.02337
516150.43	4266203.09	1.01992	0.02632	0.00000	0.00000E+00	0.02632
516159.63	4266203.93	1.16594	0.03009	0.00000	0.00000E+00	0.03009
516167.15	4266200.17	1.24883	0.03223	0.00000	0.00000E+00	0.03223
516172.16	4266191.4	1.23079	0.03176	0.00000	0.00000E+00	0.03176
516176.34	4266184.71	1.22733	0.03167	0.00000	0.00000E+00	0.03167
516180.93	4266177.61	1.22752	0.03168	0.00000	0.00000E+00	0.03168
516063.53	4266183.46	0.32373	0.00835	0.00000	0.00000E+00	0.00835
516073.14	4266183.87	0.35789	0.00924	0.00000	0.00000E+00	0.00924
516081.5	4266183.87	0.39069	0.01008	0.00000	0.00000E+00	0.01008
516089.85	4266183.87	0.42728	0.01103	0.00000	0.00000E+00	0.01103
516099.05	4266184.29	0.47383	0.01223	0.00000	0.00000E+00	0.01223
516106.57	4266184.71	0.51693	0.01334	0.00000	0.00000E+00	0.01334
516114.09	4266183.87	0.56061	0.01447	0.00000	0.00000E+00	0.01447
516122.86	4266184.71	0.62481	0.01612	0.00000	0.00000E+00	0.01612
516129.54	4266184.71	0.67706	0.01747	0.00000	0.00000E+00	0.01747
516137.48	4266184.71	0.74649	0.01926	0.00000	0.00000E+00	0.01926
516143.75	4266184.71	0.80769	0.02084	0.00000	0.00000E+00	0.02084
516151.27	4266184.29	0.88267	0.02278	0.00000	0.00000E+00	0.02278
516024.26	4266277.46	0.32902	0.00849	0.00000	0.00000E+00	0.00849
516023.43	4266267.85	0.3113	0.00803	0.00000	0.00000E+00	0.00803
516023.84	4266259.08	0.30034	0.00775	0.00000	0.00000E+00	0.00775
516023.84	4266249.47	0.28769	0.00742	0.00000	0.00000E+00	0.00742
516023.43	4266239.86	0.27475	0.00709	0.00000	0.00000E+00	0.00709
516023.43	4266232.76	0.26663	0.00688	0.00000	0.00000E+00	0.00688
516023.43	4266222.73	0.25585	0.00660	0.00000	0.00000E+00	0.00660
516023.84	4266213.12	0.24718	0.00638	0.00000	0.00000E+00	0.00638
516023.84	4266204.35	0.23888	0.00616	0.00000	0.00000E+00	0.00616
516023.43	4266196.83	0.23128	0.00597	0.00000	0.00000E+00	0.00597
516023.43	4266188.89	0.2246	0.00580	0.00000	0.00000E+00	0.00580
516024.26	4266180.95	0.21991	0.00568	0.00000	0.00000E+00	0.00568
516023.84	4266173.85	0.21367	0.00551	0.00000	0.00000E+00	0.00551
515997.94	4266272.86	0.24163	0.00624	0.00000	0.00000E+00	0.00624
515995.85	4266254.9	0.22087	0.00570	0.00000	0.00000E+00	0.00570
515994.6	4266235.68	0.20372	0.00526	0.00000	0.00000E+00	0.00526
515994.18	4266216.46	0.19019	0.00491	0.00000	0.00000E+00	0.00491
515995.85	4266200.17	0.18315	0.00473	0.00000	0.00000E+00	0.00473
515998.78	4266182.2	0.17759	0.00458	0.00000	0.00000E+00	0.00458
516063.95	4266332.61	0.82598	0.02132	0.00000	0.00000E+00	0.02132
516078.57	4266314.64	0.9051	0.02336	0.00000	0.00000E+00	0.02336
516062.28	4266315.06	0.69645	0.01797	0.00000	0.00000E+00	0.01797
516019.25	4266313.81	0.37316	0.00963	0.00000	0.00000E+00	0.00963
515990.42	4266315.06	0.26488	0.00684	0.00000	0.00000E+00	0.00684
516022.59	4266329.27	0.42566	0.01098	0.00000	0.00000E+00	0.01098
516021.75	4266350.57	0.48088	0.01241	0.00000	0.00000E+00	0.01241
516023.84	4266362.27	0.53766	0.01387	0.00000	0.00000E+00	0.01387
515992.93	4266364.36	0.34915	0.00901	0.00000	0.00000E+00	0.00901
515995.85	4266349.74	0.3351	0.00865	0.00000	0.00000E+00	0.00865
515997.52	4266335.12	0.31728	0.00819	0.00000	0.00000E+00	0.00819
515987.25	4266578.77	1.66124	0.04287	0.00000	0.00000E+00	0.04287
515986.57	4266608.7	1.16387	0.03003	0.00000	0.00000E+00	0.03003
516013.78	4266579.45	2.18352	0.05635	0.00000	0.00000E+00	0.05635
516049.84	4266584.89	1.91213	0.04934	0.00000	0.00000E+00	0.04934
516067.53	4266578.77	1.96126	0.05061	0.00001	6.95709E-05	0.05068
516078.07	4266539.82	2.81417	0.07262	0.00001	6.95709E-05	0.07269
516047.43	4266502.23	3.1181	0.08047	0.00000	0.00000E+00	0.08047
516063.04	4266496.45	3.73926	0.09650	0.00000	0.00000E+00	0.09650
516086.75	4266509.75	4.03329	0.10408	0.00001	6.95709E-05	0.10415
516098.31	4266510.9	4.16986	0.10761	0.00001	6.95709E-05	0.10768
516097.74	4266531.72	3.25863	0.08409	0.00001	6.95709E-05	0.08416
516113.18	4266501.46	4.79022	0.12362	0.00001	6.95709E-05	0.12369
516115.89	4266543.72	2.94342	0.07596	0.00001	6.95709E-05	0.07603
516150.61	4266535.57	3.21597	0.08299	0.00002	1.39142E-04	0.08313
516102.61	4266586.89	1.87555	0.04840	0.00001	6.95709E-05	0.04847
516132.19	4266585.99	1.91947	0.04953	0.00001	6.95709E-05	0.04960
516193.78	4266507.2	3.32027	0.08568	0.00006	4.17425E-04	0.08610
516134.91	4266500.56	5.00151	0.12907	0.00001	6.95709E-05	0.12914
516202.83	4266464.64	3.95194	0.10198	0.00007	4.86996E-04	0.10247
516214.3	4266464.64	3.5958	0.09279	0.00013	9.04422E-04	0.09370
516212.19	4266446.22	4.17779	0.10781	0.00010	6.95709E-04	0.10851
516206.76	4266435.96	4.75377	0.12268	0.00007	4.86996E-04	0.12316
516215.81	4266402.75	5.59165	0.14430	0.00005	3.47855E-04	0.14465
516219.13	4266420.26	4.91263	0.12678	0.00009	6.26138E-04	0.12740
516151.62	4266586.71	1.87916	0.04849	0.00002	1.39142E-04	0.04863
516194.41	4266583.82	1.70744	0.04406	0.00006	4.17425E-04	0.04448
516263.94	4266379.14	4.22241	0.10896	0.00006	4.17425E-04	0.10938
516263.94	4266358.05	4.82806	0.12459	0.00004	2.78284E-04	0.12487
516263.94	4266330.84	5.79644	0.14958	0.00002	1.39142E-04	0.14972
516278.91	4266309.75	6.31273	0.16291	0.00002	1.39142E-04	0.16305
516295.92	4266311.11	6.24973	0.16128	0.00002	1.39142E-04	0.16142
516321.09	4266313.15	6.18758	0.15968	0.00002	1.39142E-04	0.15982
516348.31	4266313.15	6.1395	0.15844	0.00002	1.39142E-04	0.15858
516308.17	4266384.59	3.46087	0.08931	0.00003	2.08713E-04	0.08952
516333.34	4266383.22	3.33627	0.08610	0.00003	2.08713E-04	0.08630
516306.12	4266360.77	4.18655	0.10804	0.00003	2.08713E-04	0.10825
516325.17	4266351.93	4.43487	0.11445	0.00002	1.39142E-04	0.11459
516363.27	4266358.73	3.9971	0.10315	0.00002	1.39142E-04	0.10329
516361.23	4266381.86	3.22125	0.08313	0.00002	1.39142E-04	0.08327
516401.37	4266315.19	5.48749	0.14161	0.00001	6.95709E-05	0.14168
516384.36	4266384.59	2.97717	0.07683	0.00002	1.39142E-04	0.07697
516408.18	4266385.95	2.69959	0.06967	0.00002	1.39142E-04	0.06980
516389.81	4266360.77	3.69342	0.09531	0.00002	1.39142E-04	0.09545
516409.54	4266359.41	3.45999	0.08929	0.00002	1.39142E-04	0.08943
516434.71	4266360.09	2.9476	0.07607	0.00002	1.39142E-04	0.07621
516456.48	4266362.13	2.36197	0.06095	0.00002	1.39142E-04	0.06109
516430.63	4266317.23	4.6549	0.12012	0.00001	6.95709E-05	0.12019
516449	4266320.63	3.7074	0.09567	0.00001	6.95709E-05	0.09574
516447.64	4266386.63	2.10746	0.05439	0.00002	1.39142E-04	0.05452
516477.57	4266385.27	1.60636	0.04145	0.00002	1.39142E-04	0.04159
516497.98	4266402.95	1.20115	0.03100	0.00002	1.39142E-04	0.03114
516421.1	4266462.15	1.45454	0.03754	0.00003	2.08713E-04	0.03774
516421.78	4266448.54	1.57832	0.04073	0.00003	2.08713E-04	0.04094
516423.14	4266433.57	1.73191	0.04469	0.00003	2.08713E-04	0.04490
516466.01	4266460.78	1.1482	0.02963	0.00003	2.08713E-04	0.02984
516466.01	4266446.5	1.23987	0.03200	0.00003	2.08713E-04	0.03220
516467.37	4266429.49	1.35194	0.03489	0.00002	1.39142E-04	0.03503
516485.74	4266429.49	1.17223	0.03025	0.00002	1.39142E-04	0.03039
516502.07	4266430.17	1.02371	0.02642	0.00002	1.39142E-04	0.02656
516532	4266464.19	0.71397	0.01842	0.00003	2.08713E-04	0.01863
516532.68	4266448.54	0.75079	0.01937	0.00003	2.08713E-04	0.01958
516532	4266432.89	0.7981	0.02060	0.00002	1.39142E-04	0.02073
516459.68	4266083.37	2.71771	0.07013	0.00001	6.95709E-05	0.07020
516469.51	4266083.86	2.37205	0.06121	0.00001	6.95709E-05	0.06128
516488.68	4266088.28	1.86223	0.04806	0.00001	6.95709E-05	0.04813
516505.4	4266086.32	1.5077	0.03891	0.00001	6.95709E-05	0.03898
516522.6	4266085.83	1.22982	0.03174	0.00001	6.95709E-05	0.03181
516541.28	4266083.86	0.996	0.02570	0.00001	6.95709E-05	0.02577
516558.98	4266082.88	0.82677	0.02134	0.00000	0.00000E+00	0.02134
516580.12	4266085.33	0.67329	0.01737	0.00000	0.00000E+00	0.01737
516492.62	4266039.62	1.58149	0.04081	0.00000	0.00000E+00	0.04081
516508.84	4266039.13	1.31375	0.03390	0.00000	0.00000E+00	0.03390
516524.08	4266041.58	1.12216	0.02896	0.00000	0.00000E+00	0.02896
516542.27	4266040.6	0.93127	0.02403	0.00000	0.00000E+00	0.02403
516557.5	4266040.6	0.8037	0.02074	0.00000	0.00000E+00	0.02074
516494.58	4266014.06	1.43882	0.03713	0.00000	0.00000E+00	0.03713
516508.84	4266014.06	1.2357	0.03189	0.00000	0.00000E+00	0.03189
516523.59	4266014.55	1.06632	0.02752	0.00000	0.00000E+00	0.02752
516538.33	4266013.57	0.924	0.02384	0.00000	0.00000E+00	0.02384
516555.54	4266019.46	0.79572	0.02053	0.00000	0.00000E+00	0.02053
516557.01	4266005.21	0.77008	0.01987	0.00000	0.00000E+00	0.01987
516556.52	4265990.46	0.75857	0.01958	0.00000	0.00000E+00	0.01958
516557.01	4265972.27	0.73952	0.01908	0.00000	0.00000E+00	0.01908
516540.3	4265975.22	0.85189	0.02198	0.00000	0.00000E+00	0.02198
516527.52	4265980.14	0.95886	0.02474	0.00000	0.00000E+00	0.02474
516509.82	4265978.66	1.12277	0.02897	0.00000	0.00000E+00	0.02897
516499.5	4265974.24	1.22298	0.03156	0.00000	0.00000E+00	0.03156
516499.01	4265951.14	1.16314	0.03002	0.00000	0.00000E+00	0.03002
516494.58	4265938.85	1.17197	0.03024	0.00000	0.00000E+00	0.03024
516514.25	4265943.76	1.0055	0.02595	0.00000	0.00000E+00	0.02595
516478	4265907.45	1.19655	0.03088	0.00000	0.00000E+00	0.03088
516492.21	4265903.27	1.06292	0.02743	0.00000	0.00000E+00	0.02743
516506.41	4265899.09	0.94913	0.02449	0.00000	0.00000E+00	0.02449
516527.71	4265937.53	0.89169	0.02301	0.00000	0.00000E+00	0.02301
516595.64	4266084.72	0.58386	0.01507	0.00000	0.00000E+00	0.01507
516614.84	4266089.52	0.49545	0.01279	0.00000	0.00000E+00	0.01279
516595.64	4266042.3	0.57188	0.01476	0.00000	0.00000E+00	0.01476
516598.04	4266022.29	0.55337	0.01428	0.00000	0.00000E+00	0.01428
516601.24	4266007.89	0.53473	0.01380	0.00000	0.00000E+00	0.01380
516602.04	4265991.88	0.52706	0.01360	0.00000	0.00000E+00	0.01360
516611.64	4266045.5	0.50176	0.01295	0.00000	0.00000E+00	0.01295
516626.05	4266044.7	0.44758	0.01155	0.00000	0.00000E+00	0.01155
515945.31	4266464.28	0.31788	0.00820	0.00000	0.00000E+00	0.00820
515926.48	4266468.98	0.2556	0.00660	0.00000	0.00000E+00	0.00660
515921.78	4266501.94	0.28621	0.00739	0.00000	0.00000E+00	0.00739
515948.14	4266423.79	0.26568	0.00686	0.00000	0.00000E+00	0.00686
516579.7	4266256.89	0.6951	0.01794	0.00001	6.95709E-05	0.01801
516595.22	4266256.89	0.60442	0.01560	0.00001	6.95709E-05	0.01567
516609.32	4266256.7	0.53483	0.01380	0.00001	6.95709E-05	0.01387
516630.68	4266259.49	0.45138	0.01165	0.00001	6.95709E-05	0.01172
516647.41	4266259.49	0.39828	0.01028	0.00001	6.95709E-05	0.01035
516641.83	4266238.12	0.40733	0.01051	0.00001	6.95709E-05	0.01058
516624.18	4266236.26	0.4663	0.01203	0.00001	6.95709E-05	0.01210
516601.88	4266234.41	0.56151	0.01449	0.00001	6.95709E-05	0.01456
516580.51	4266234.41	0.68113	0.01758	0.00001	6.95709E-05	0.01765
516586.09	4266209.32	0.64227	0.01657	0.00001	6.95709E-05	0.01664
516601.88	4266213.04	0.55708	0.01438	0.00001	6.95709E-05	0.01445
516620.46	4266214.9	0.47571	0.01228	0.00001	6.95709E-05	0.01235
516638.12	4266213.04	0.41338	0.01067	0.00001	6.95709E-05	0.01074
CONCUNIT ug	/m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m	^2	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000

Mill Creek

2020 **No Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 1.6268E-07 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 5.11823E-05 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
516122.45	4266263.52	1.16637	0.01897	0.00000	0.00000E+00	0.01897
516114.09	4266273.28	1.11747	0.01818	0.00000	0.00000E+00	0.01818
516103.64	4266274.95	0.96027	0.01562	0.00000	0.00000E+00	0.01562
516092.36	4266274.54	0.80465	0.01309	0.00000	0.00000E+00	0.01309
516081.5	4266274.54	0.68555	0.01115	0.00000	0.00000E+00	0.01115
516071.05	4266273.28	0.58599	0.00953	0.00000	0.00000E+00	0.00953
516061.03	4266274.54	0.51531	0.00838	0.00000	0.00000E+00	0.00838
516134.56	4266245.71	1.19268	0.01940	0.00000	0.00000E+00	0.01940
516091.94	4266243.62	0.63457	0.01032	0.00000	0.00000E+00	0.01032
516109.91	4266245.71	0.82545	0.01343	0.00000	0.00000E+00	0.01343
516122.44	4266244.87	0.9835	0.01600	0.00000	0.00000E+00	0.01600
516062.7	4266259.91	0.48124	0.00783	0.00000	0.00000E+00	0.00783
516085.68	4266203.09	0.45433	0.00739	0.00000	0.00000E+00	0.00739

Mill Creek

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$
Averaging Period 25550 days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	350	0.25	11.6
1	1	10	1090	0.85	350	1	139.6
2	1	10	1090	0.85	350	1	139.6

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Mill Creek

No Mitigation at Sensitive Recptors

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	Infant Cancer Risk (3rd Trimester) Construction Scheduling (/million)	Infant Cancer Risk (year 1) 2019 (/million)	Infant Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
516122.45	4266263.52	0.348	4.202	2.649	7.20
516114.09	4266273.28	0.333	4.026	2.538	6.90
516103.64	4266274.95	0.286	3.460	2.181	5.93
516092.36	4266274.54	0.240	2.899	1.827	4.97
516081.5	4266274.54	0.205	2.470	1.557	4.23
516071.05	4266273.28	0.175	2.111	1.331	3.62

Maximum Caner Risk

39.0

BAAQMD threshold of significance

10

Exceed thresholds?

Yes

Mill Creek

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$

Averaging Period 25550 days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	350	1	18.9
2	1	3	572	0.73	350	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Mill Creek

No Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2019 (/million)	Child Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
516122.45	4266263.52	0.568	0.358	0.93
516114.09	4266273.28	0.544	0.343	0.89
516103.64	4266274.95	0.468	0.295	0.76
516092.36	4266274.54	0.392	0.247	0.64
516081.5	4266274.54	0.334	0.211	0.54
516071.05	4266273.28	0.285	0.180	0.47
516061.03	4266274.54	0.251	0.158	0.41
516134.56	4266245.71	0.581	0.366	0.95
516091.94	4266243.62	0.309	0.195	0.50

Maximum Caner Risk
5.0
BAAQMD threshold of significance
10
Exceed thresholds?
No

Mill Creek

No Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Mill Creek **No Mitigation** **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2019 (/million)	Adult Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
516122.45	4266263.52	0.085	0.054	0.13896
516114.09	4266273.28	0.082	0.051	0.13314
516103.64	4266274.95	0.070	0.044	0.11441
516092.36	4266274.54	0.059	0.037	0.09587
516081.5	4266274.54	0.050	0.032	0.08168
516071.05	4266273.28	0.043	0.027	0.06981
516061.03	4266274.54	0.038	0.024	0.06139
516134.56	4266245.71	0.087	0.055	0.14210
516091.94	4266243.62	0.046	0.029	0.07560
516109.91	4266245.71	0.060	0.038	0.09834
516122.44	4266244.87	0.072	0.045	0.11717
516062.7	4266259.91	0.035	0.022	0.05733
516085.68	4266203.09	0.033	0.021	0.05413
516095.29	4266203.09	0.037	0.023	0.06047
516104.9	4266203.09	0.042	0.026	0.06776
516114.5	4266203.09	0.047	0.029	0.07616
516123.7	4266203.09	0.052	0.033	0.08546
516132.05	4266202.68	0.058	0.037	0.09487
516141.24	4266203.51	0.066	0.042	0.10787
516150.43	4266203.09	0.075	0.047	0.12151
516159.63	4266203.93	0.085	0.054	0.13891
516167.15	4266200.17	0.091	0.058	0.14879
516172.16	4266191.4	0.090	0.057	0.14664
516176.34	4266184.71	0.090	0.057	0.14622
516180.93	4266177.61	0.090	0.057	0.14625
516063.53	4266183.46	0.024	0.015	0.03857
516073.14	4266183.87	0.026	0.016	0.04264
516081.5	4266183.87	0.029	0.018	0.04655
516089.85	4266183.87	0.031	0.020	0.05091
516099.05	4266184.29	0.035	0.022	0.05645
516106.57	4266184.71	0.038	0.024	0.06159
516114.09	4266183.87	0.041	0.026	0.06679
516122.86	4266184.71	0.046	0.029	0.07444
516129.54	4266184.71	0.049	0.031	0.08066
516137.48	4266184.71	0.055	0.034	0.08894
516143.75	4266184.71	0.059	0.037	0.09623
516151.27	4266184.29	0.065	0.041	0.10516
516024.26	4266277.46	0.024	0.015	0.03920
516023.43	4266267.85	0.023	0.014	0.03709
516023.84	4266259.08	0.022	0.014	0.03578
516023.84	4266249.47	0.021	0.013	0.03428
516023.43	4266239.86	0.020	0.013	0.03273
516023.43	4266232.76	0.019	0.012	0.03177
516023.43	4266222.73	0.019	0.012	0.03048
516023.84	4266213.12	0.018	0.011	0.02945
516023.84	4266204.35	0.017	0.011	0.02846
516023.43	4266196.83	0.017	0.011	0.02755
516023.43	4266188.89	0.016	0.010	0.02676
516024.26	4266180.95	0.016	0.010	0.02620
516023.84	4266173.85	0.016	0.010	0.02546
515997.94	4266272.86	0.018	0.011	0.02879
515995.85	4266254.9	0.016	0.010	0.02631
515994.6	4266235.68	0.015	0.009	0.02427
515994.18	4266216.46	0.014	0.009	0.02266
515995.85	4266200.17	0.013	0.008	0.02182
515998.78	4266182.2	0.013	0.008	0.02116
516063.95	4266332.61	0.060	0.038	0.09841
516078.57	4266314.64	0.066	0.042	0.10783
516062.28	4266315.06	0.051	0.032	0.08298
516019.25	4266313.81	0.027	0.017	0.04446
515990.42	4266315.06	0.019	0.012	0.03156
516022.59	4266329.27	0.031	0.020	0.05071
516021.75	4266350.57	0.035	0.022	0.05729
516023.84	4266362.27	0.039	0.025	0.06406
515992.93	4266364.36	0.026	0.016	0.04160
515995.85	4266349.74	0.024	0.015	0.03992
515997.52	4266335.12	0.023	0.015	0.03780
515987.25	4266578.77	0.121	0.077	0.19792
515986.57	4266608.7	0.085	0.054	0.13866
516013.78	4266579.45	0.160	0.101	0.26014
516049.84	4266584.89	0.140	0.088	0.22781
516067.53	4266578.77	0.144	0.090	0.23401
516078.07	4266539.82	0.206	0.130	0.33562
516047.43	4266502.23	0.228	0.144	0.37149
516063.04	4266496.45	0.273	0.172	0.44550
516086.75	4266509.75	0.295	0.186	0.48087
516098.31	4266510.9	0.305	0.192	0.49714
516097.74	4266531.72	0.238	0.150	0.38857
516113.18	4266501.46	0.350	0.221	0.57105
516115.89	4266543.72	0.215	0.136	0.35102
516150.61	4266535.57	0.235	0.148	0.38383
516102.61	4266586.89	0.137	0.087	0.22379
516132.19	4266585.99	0.140	0.089	0.22903
516193.78	4266507.2	0.244	0.154	0.39763
516134.91	4266500.56	0.366	0.231	0.59622
516202.83	4266464.64	0.290	0.183	0.47323
516214.3	4266464.64	0.265	0.168	0.43285
516212.19	4266446.22	0.307	0.194	0.50116
516206.76	4266435.96	0.349	0.220	0.56876
516215.81	4266402.75	0.410	0.258	0.66790
516219.13	4266420.26	0.361	0.228	0.58837
516151.62	4266586.71	0.138	0.087	0.22457
516194.41	4266583.82	0.126	0.080	0.20548
516263.94	4266379.14	0.310	0.195	0.50511
516263.94	4266358.05	0.354	0.223	0.57658
516263.94	4266330.84	0.424	0.267	0.69127
516278.91	4266309.75	0.462	0.291	0.75278
516295.92	4266311.11	0.457	0.288	0.74528
516321.09	4266313.15	0.453	0.285	0.73787
516348.31	4266313.15	0.449	0.283	0.73214
516308.17	4266384.59	0.253	0.160	0.41335
516333.34	4266383.22	0.244	0.154	0.39851
516306.12	4266360.77	0.307	0.193	0.49981
516325.17	4266351.93	0.324	0.205	0.52905
516363.27	4266358.73	0.292	0.184	0.47690
516361.23	4266381.86	0.236	0.149	0.38446
516401.37	4266315.19	0.401	0.253	0.65412
516384.36	4266384.59	0.218	0.137	0.35538
516408.18	4266385.95	0.198	0.125	0.32231
516389.81	4266360.77	0.270	0.170	0.44072
516409.54	4266359.41	0.253	0.160	0.41291
516434.71	4266360.09	0.216	0.136	0.35186
516456.48	4266362.13	0.173	0.109	0.28209
516430.63	4266317.23	0.340	0.215	0.55493
516449	4266320.63	0.271	0.171	0.44204
516447.64	4266386.63	0.154	0.097	0.25177
516477.57	4266385.27	0.118	0.074	0.19207
516497.98	4266402.95	0.088	0.056	0.14379
516421.1	4266462.15	0.107	0.067	0.17432
516421.78	4266448.54	0.116	0.073	0.18907
516423.14	4266433.57	0.127	0.080	0.20737
516466.01	4266460.78	0.084	0.053	0.13782
516466.01	4266446.5	0.091	0.058	0.14874
516467.37	4266429.49	0.099	0.063	0.16175
516485.74	4266429.49	0.086	0.054	0.14034
516502.07	4266430.17	0.075	0.047	0.12265
516532	4266464.19	0.053	0.033	0.08609
516532.68	4266448.54	0.055	0.035	0.09047
516532	4266432.89	0.059	0.037	0.09577
516459.68	4266083.37	0.199	0.125	0.32413
516469.51	4266083.86	0.174	0.109	0.28295
516488.68	4266088.28	0.136	0.086	0.22221
516505.4	4266086.32	0.110	0.070	0.17997
516522.6	4266085.83	0.090	0.057	0.14686
516541.28	4266083.86	0.073	0.046	0.11901
516558.98	4266082.88	0.060	0.038	0.09850
516580.12	4266085.33	0.049	0.031	0.08022
516492.62	4266039.62	0.116	0.073	0.18842
516508.84	4266039.13	0.096	0.061	0.15652
516524.08	4266041.58	0.082	0.052	0.13369
516542.27	4266040.6	0.068	0.043	0.11095
516557.5	4266040.6	0.059	0.037	0.09575
516494.58	4266014.06	0.105	0.066	0.17142
516508.84	4266014.06	0.090	0.057	0.14722
516523.59	4266014.55	0.078	0.049	0.12704
516538.33	4266013.57	0.068	0.043	0.11009
516555.54	4266019.46	0.058	0.037	0.09480
516557.01	4266005.21	0.056	0.035	0.09175
516556.52	4265990.46	0.055	0.035	0.09038
516557.01	4265972.27	0.054	0.034	0.08811
516540.3	4265975.22	0.062	0.039	0.10149
516527.52	4265980.14	0.070	0.044	0.11424
516509.82	4265978.66	0.082	0.052	0.13377
516499.5	4265974.24	0.089	0.056	0.14571
516499.01	4265951.14	0.085	0.054	0.13858
516494.58	4265938.85	0.086	0.054	0.13963
516514.25	4265943.76	0.073	0.046	0.11980
516478	4265907.45	0.087	0.055	0.14256
516492.21	4265903.27	0.078	0.049	0.12664
516506.41	4265899.09	0.069	0.044	0.11308
516527.71	4265937.53	0.065	0.041	0.10624
516595.64	4266084.72	0.043	0.027	0.06956
516614.84	4266089.52	0.036	0.023	0.05903
516595.64	4266042.3	0.042	0.026	0.06813
516598.04	4266022.29	0.040	0.025	0.06593
516601.24	4266007.89	0.039	0.025	0.06371
516602.04	4265991.88	0.039	0.024	0.06279
516611.64	4266045.5	0.037	0.023	0.05978
516626.05	4266044.7	0.033	0.021	0.05332
515945.31	4266464.28	0.023	0.015	0.03787
515926.48	4266468.98	0.019	0.012	0.03045
515921.78	4266501.94	0.021	0.013	0.03410
515948.14	4266423.79	0.019	0.012	0.03165
516579.7	4266256.89	0.051	0.032	0.08316
516595.22	4266256.89	0.044	0.028	0.07235
516609.32	4266256.7	0.039	0.025	0.06406
516630.68	4266259.49	0.033	0.021	0.05412
516647.41	4266259.49	0.029	0.018	0.04779
516641.83	4266238.12	0.030	0.019	0.04887
516624.18	4266236.26	0.034	0.022	0.05590
516601.88	4266234.41	0.041	0.026	0.06724
516580.51	4266234.41	0.050	0.032	0.08149
516586.09	4266209.32	0.047	0.030	0.07686
516601.88	4266213.04	0.041	0.026	0.06671
516620.46	4266214.9	0.035	0.022	0.05702
516638.12	4266213.04	0.030	0.019	0.04959
CONCUNIT ug	/m^3	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.00000

Maximum Caner Risk
0.8
BAAQMD threshold of significance
10
Exceed thresholds?
No

Mill Creek

No Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2019 DPM (ug/m3)	2020 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
516122.45	4266263.52	0.03010	0.018975	0.03010	0.00602
516114.09	4266273.28	0.02884	0.018179	0.02884	0.00577
516103.64	4266274.95	0.02478	0.015622	0.02478	0.00496
516092.36	4266274.54	0.02076	0.01309	0.02076	0.00415
516081.5	4266274.54	0.01769	0.011153	0.01769	0.00354
516071.05	4266273.28	0.01512	0.009533	0.01512	0.00302
516061.03	4266274.54	0.01330	0.008383	0.01330	0.00266

Maximum Caner Risk
0.03
BAAQMD threshold of significance
1
Exceed thresholds?

Mill Creek

No Mitigation

at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2019 DPM (ug/m3)	2020 DPM (ug/m3)	Max PM2.5 (ug/m3)
516122.45	4266263.52	0.030099	0.018975	0.03010
516114.09	4266273.28	0.028837	0.018179	0.02884
516103.64	4266274.95	0.024781	0.015622	0.02478
516092.36	4266274.54	0.020765	0.01309	0.02076
516081.5	4266274.54	0.017691	0.011153	0.01769
516071.05	4266273.28	0.015122	0.009533	0.01512
516061.03	4266274.54	0.013298	0.008383	0.01330
516134.56	4266245.71	0.030778	0.019403	0.03078
516091.94	4266243.62	0.016376	0.010323	0.01638
516109.91	4266245.71	0.021302	0.013428	0.02130
516122.44	4266244.87	0.02538	0.016	0.02538
516062.7	4266259.91	0.012419	0.007829	0.01242
516085.68	4266203.09	0.011724	0.007391	0.01172

Maximum Caner Risk

0.2

BAAQMD threshold of significance

0.3

Exceed thresholds?

No

Mill Creek

Tier IV Mitigatic at Sensitive Recptors

Estimated Cancer Risks from Construction DPM - Infant Receptors

X (m)	Y (m)	Infant Cancer Risk (3rd Trimester) Construction Scheduling (/million)	Infant Cancer Risk (year 1) 2019 (/million)	Infant Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
516122.45	4266263.52	0.030	0.363	0.313	0.71
516114.09	4266273.28	0.029	0.348	0.300	0.68
516103.64	4266274.95	0.025	0.299	0.258	0.58
516092.36	4266274.54	0.021	0.250	0.216	0.49
516081.5	4266274.54	0.018	0.213	0.184	0.42
516071.05	4266273.28	0.015	0.182	0.158	0.35

Maximum Caner Risk
3.9
BAAQMD threshold of significance
10
Exceed thresholds?
No

Mill Creek

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling	**2019**	
	8	hours/day
	5	days/week
	41	weeks/year
	1640	hours/year

Onsite Construction Area Source Size (m2): 80210.4 from AERMOD

Onsite Construction PM2.5 Emissions

2019		Onsite	Onsite	Onsite DPM
	Construction Activity	**Annual DPM Exhaust Emissions (tons/year)**	**Annual DPM Exhaust Emissions (g/sec)**	**Source Exhaust Emissions (g/m2-sec)**
	Site Preparation	3.100E-04	4.768E-05	5.944E-10
	Grading	1.520E-03	2.338E-04	2.914E-09
	Paving	3.700E-04	5.690E-05	7.094E-10
	Building Construction	9.420E-03	1.449E-03	1.806E-08
	Total	**1.162E-02**	**1.787E-03**	**2.228E-08**

Offsite Construction Vehicle PM2.5 Emissions

2019		Offsite Hauling	Offsite Vendor	Offsite Workers	
		Annual DPM	**Annual DPM**	**Annual DPM**	
	Construction Activity	**Exhaust Emissions (tons/year)**	**Exhaust Emissions (tons/year)**	**Exhaust Emissions (tons/year)**	
	Site Preparation	0.000E+00	0.000E+00	1.000E-05	
	Grading	1.670E-03	0.000E+00	2.000E-05	
	Paving	0.000E+00	0.000E+00	1.000E-05	
	Building Construction	0.000E+00	7.570E-03	1.870E-03	
	Total (tons/year)	**1.670E-03**	**7.570E-03**	**1.910E-03**	**1.115E-02**
	Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
	Offsite Project Trip Distance Along Roadway Segment (mi)	0.35	0.35	0.35	
	Offsite Project Emissions Along Roadway Segment (tons/year)	**2.912E-05**	**3.616E-04**	**6.167E-05**	

Offsite Emissions Along Roadway Segment Analyzed	
Total Offsite Project Exhaust Emissions (tons/year)	**4.524E-04**
Total Offsite Project Exhaust Emissions (grams/sec)	**6.957E-05**

Onsite Exhaust Emissions (tons/year)	**1.162E-02**
Total Onsite Emissions (tons/year)	**1.162E-02**
Onsite Exhaust Emissions (g/m2-sec)	**2.228E-08**

Total PM@2.5 Exhaust (tons/year)	1.207E-02

Mill Creek

Tier IV Mitigation

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Construction Scheduling **2020**

8	hours/day
5	days/week
49	weeks/year
1960	hours/year

Onsite Construction Area Source Size (m2): 80210.40

Onsite Construction PM2.5 Emissions

2020 Construction Activity	Onsite Annual DPM Exhaust Emissions (tons/year)	Onsite Annual DPM Exhaust Emissions (g/sec)	Onsite DPM Source Exhaust Emissions (g/m2-sec)
Building Construction	1.200E-02	1.544E-03	1.925E-08
Total	**1.200E-02**	**1.544E-03**	**1.925E-08**

Offsite Construction Vehicle PM2.5 Emissions

2020 Construction Activity	Offsite Hauling Annual DPM Exhaust Emissions (tons/year)	Offsite Vendor Annual DPM Exhaust Emissions (tons/year)	Offsite Workers Annual DPM Exhaust Emissions (tons/year)	
Building Construction	0.000E+00	6.610E-03	2.540E-03	
Total (tons/year)	**0.000E+00**	**6.610E-03**	**2.540E-03**	**9.150E-03**
Trip Distance assumed in CalEEMod (mi)	20.0	7.3	10.8	
Offsite Project Trip Distance (mi)	0.35	0.35	0.35	
Offsite Project Emissions (tons/year)	**0.000E+00**	**3.157E-04**	**8.201E-05**	

Emissions Along Roadway Segment	
Offsite Project Exhaust Emissions (tons/year)	**3.977E-04**
Offsite Project Exhaust Emissions (grams/sec)	**5.118E-05**
Offsite Project Fugitive Emissions (tons/year)	**0.000E+00**
Offsite Project Fugitive Emissions (grams/sec)	**0.000E+00**

Onsite Exhaust Emissions (tons/year)	**1.200E-02**
Total Onsite Emissions (tons/year)	**1.200E-02**
Onsite Exhaust Emissions (g/m2-sec)	**1.925E-08**

Total PM@2.5 Exhaust (tons/year)	1.240E-02
Total PM2.5 (tons/year)	**1.240E-02**

Mill Creek 2019 Tier IV Mitigation At Sensitive Receptors

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 2.228E-08
Annual Average Offsite DPM Exhaust Emission Rate: 6.95709E-05

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
516122.45	4266263.52	1.16637	0.00260	0.00000	0.00000E+00	0.00260
516114.09	4266273.28	1.11747	0.00249	0.00000	0.00000E+00	0.00249
516103.64	4266274.95	0.96027	0.00214	0.00000	0.00000E+00	0.00214
516092.36	4266274.54	0.80465	0.00179	0.00000	0.00000E+00	0.00179
516081.5	4266274.54	0.68555	0.00153	0.00000	0.00000E+00	0.00153
516071.05	4266273.28	0.58599	0.00131	0.00000	0.00000E+00	0.00131
516061.03	4266274.54	0.51531	0.00115	0.00000	0.00000E+00	0.00115
516134.56	4266245.71	1.19268	0.00266	0.00000	0.00000E+00	0.00266
516091.94	4266243.62	0.63457	0.00141	0.00000	0.00000E+00	0.00141
516109.91	4266245.71	0.82545	0.00184	0.00000	0.00000E+00	0.00184
516122.44	4266244.87	0.9835	0.00219	0.00000	0.00000E+00	0.00219
516062.7	4266259.91	0.48124	0.00107	0.00000	0.00000E+00	0.00107
516085.68	4266203.09	0.45433	0.00101	0.00000	0.00000E+00	0.00101
516095.29	4266203.09	0.50756	0.00113	0.00000	0.00000E+00	0.00113
516104.9	4266203.09	0.56872	0.00127	0.00000	0.00000E+00	0.00127
516114.5	4266203.09	0.63923	0.00142	0.00000	0.00000E+00	0.00142
516123.7	4266203.09	0.71732	0.00160	0.00000	0.00000E+00	0.00160
516132.05	4266202.68	0.79629	0.00177	0.00000	0.00000E+00	0.00177
516141.24	4266203.51	0.90541	0.00202	0.00000	0.00000E+00	0.00202
516150.43	4266203.09	1.01992	0.00227	0.00000	0.00000E+00	0.00227
516159.63	4266203.93	1.16594	0.00260	0.00000	0.00000E+00	0.00260
516167.15	4266200.17	1.24883	0.00278	0.00000	0.00000E+00	0.00278
516172.16	4266191.4	1.23079	0.00274	0.00000	0.00000E+00	0.00274
516176.34	4266184.71	1.22733	0.00273	0.00000	0.00000E+00	0.00273
516180.93	4266177.61	1.22752	0.00273	0.00000	0.00000E+00	0.00273
516063.53	4266183.46	0.32373	0.00072	0.00000	0.00000E+00	0.00072
516073.14	4266183.87	0.35789	0.00080	0.00000	0.00000E+00	0.00080
516081.5	4266183.87	0.39069	0.00087	0.00000	0.00000E+00	0.00087
516089.85	4266183.87	0.42728	0.00095	0.00000	0.00000E+00	0.00095
516099.05	4266184.29	0.47383	0.00106	0.00000	0.00000E+00	0.00106
516106.57	4266184.71	0.51693	0.00115	0.00000	0.00000E+00	0.00115
516114.09	4266183.87	0.56061	0.00125	0.00000	0.00000E+00	0.00125
516122.86	4266184.71	0.62481	0.00139	0.00000	0.00000E+00	0.00139
516129.54	4266184.71	0.67706	0.00151	0.00000	0.00000E+00	0.00151
516137.48	4266184.71	0.74649	0.00166	0.00000	0.00000E+00	0.00166
516143.75	4266184.71	0.80769	0.00180	0.00000	0.00000E+00	0.00180
516151.27	4266184.29	0.88267	0.00197	0.00000	0.00000E+00	0.00197
516024.26	4266277.46	0.32902	0.00073	0.00000	0.00000E+00	0.00073
516023.43	4266267.85	0.3113	0.00069	0.00000	0.00000E+00	0.00069
516023.84	4266259.08	0.30034	0.00067	0.00000	0.00000E+00	0.00067
516023.84	4266249.47	0.28769	0.00064	0.00000	0.00000E+00	0.00064
516023.43	4266239.86	0.27475	0.00061	0.00000	0.00000E+00	0.00061
516023.43	4266232.76	0.26663	0.00059	0.00000	0.00000E+00	0.00059
516023.43	4266222.73	0.25585	0.00057	0.00000	0.00000E+00	0.00057
516023.84	4266213.12	0.24718	0.00055	0.00000	0.00000E+00	0.00055
516023.84	4266204.35	0.23888	0.00053	0.00000	0.00000E+00	0.00053
516023.43	4266196.83	0.23128	0.00052	0.00000	0.00000E+00	0.00052
516023.43	4266188.89	0.2246	0.00050	0.00000	0.00000E+00	0.00050
516024.26	4266180.95	0.21991	0.00049	0.00000	0.00000E+00	0.00049
516023.84	4266173.85	0.21367	0.00048	0.00000	0.00000E+00	0.00048
515997.94	4266272.86	0.24163	0.00054	0.00000	0.00000E+00	0.00054
515995.85	4266254.9	0.22087	0.00049	0.00000	0.00000E+00	0.00049
515994.6	4266235.68	0.20372	0.00045	0.00000	0.00000E+00	0.00045
515994.18	4266216.46	0.19019	0.00042	0.00000	0.00000E+00	0.00042
515995.85	4266200.17	0.18315	0.00041	0.00000	0.00000E+00	0.00041
515998.78	4266182.2	0.17759	0.00040	0.00000	0.00000E+00	0.00040
516063.95	4266332.61	0.82598	0.00184	0.00000	0.00000E+00	0.00184
516078.57	4266314.64	0.9051	0.00202	0.00000	0.00000E+00	0.00202
516062.28	4266315.06	0.69645	0.00155	0.00000	0.00000E+00	0.00155
516019.25	4266313.81	0.37316	0.00083	0.00000	0.00000E+00	0.00083
515990.42	4266315.06	0.26488	0.00059	0.00000	0.00000E+00	0.00059
516022.59	4266329.27	0.42566	0.00095	0.00000	0.00000E+00	0.00095
516021.75	4266350.57	0.48088	0.00107	0.00000	0.00000E+00	0.00107
516023.84	4266362.27	0.53766	0.00120	0.00000	0.00000E+00	0.00120
515992.93	4266364.36	0.34915	0.00078	0.00000	0.00000E+00	0.00078
515995.85	4266349.74	0.3351	0.00075	0.00000	0.00000E+00	0.00075
515997.52	4266335.12	0.31728	0.00071	0.00000	0.00000E+00	0.00071
515987.25	4266578.77	1.66124	0.00370	0.00000	0.00000E+00	0.00370
515986.57	4266608.7	1.16387	0.00259	0.00000	0.00000E+00	0.00259
516013.78	4266579.45	2.18352	0.00486	0.00000	0.00000E+00	0.00486
516049.84	4266584.89	1.91213	0.00426	0.00000	0.00000E+00	0.00426
516067.53	4266578.77	1.96126	0.00437	0.00001	6.95709E-05	0.00444
516078.07	4266539.82	2.81417	0.00627	0.00001	6.95709E-05	0.00634
516047.43	4266502.23	3.1181	0.00695	0.00000	0.00000E+00	0.00695
516063.04	4266496.45	3.73926	0.00833	0.00000	0.00000E+00	0.00833
516086.75	4266509.75	4.03329	0.00899	0.00001	6.95709E-05	0.00906
516098.31	4266510.9	4.16986	0.00929	0.00001	6.95709E-05	0.00936
516097.74	4266531.72	3.25863	0.00726	0.00001	6.95709E-05	0.00733
516113.18	4266501.46	4.79022	0.01067	0.00001	6.95709E-05	0.01074
516115.89	4266543.72	2.94342	0.00656	0.00001	6.95709E-05	0.00663
516150.61	4266535.57	3.21597	0.00717	0.00002	1.39142E-04	0.00730
516102.61	4266586.89	1.87555	0.00418	0.00001	6.95709E-05	0.00425
516132.19	4266585.99	1.91947	0.00428	0.00001	6.95709E-05	0.00435
516193.78	4266507.2	3.32027	0.00740	0.00006	4.17425E-04	0.00781
516134.91	4266500.56	5.00151	0.01114	0.00001	6.95709E-05	0.01121
516202.83	4266464.64	3.95194	0.00880	0.00007	4.86996E-04	0.00929
516214.3	4266464.64	3.5958	0.00801	0.00013	9.04422E-04	0.00892
516212.19	4266446.22	4.17779	0.00931	0.00010	6.95709E-04	0.01000
516206.76	4266435.96	4.75377	0.01059	0.00007	4.86996E-04	0.01108
516215.81	4266402.75	5.59165	0.01246	0.00005	3.47855E-04	0.01281
516219.13	4266420.26	4.91263	0.01095	0.00009	6.26138E-04	0.01157
516151.62	4266586.71	1.87916	0.00419	0.00002	1.39142E-04	0.00433
516194.41	4266583.82	1.70744	0.00380	0.00006	4.17425E-04	0.00422
516263.94	4266379.14	4.22241	0.00941	0.00006	4.17425E-04	0.00982
516263.94	4266358.05	4.82806	0.01076	0.00004	2.78284E-04	0.01104
516263.94	4266330.84	5.79644	0.01291	0.00002	1.39142E-04	0.01305
516278.91	4266309.75	6.31273	0.01406	0.00002	1.39142E-04	0.01420
516295.92	4266311.11	6.24973	0.01392	0.00002	1.39142E-04	0.01406
516321.09	4266313.15	6.18758	0.01379	0.00002	1.39142E-04	0.01393
516348.31	4266313.15	6.1395	0.01368	0.00002	1.39142E-04	0.01382
516308.17	4266384.59	3.46087	0.00771	0.00003	2.08713E-04	0.00792
516333.34	4266383.22	3.33627	0.00743	0.00003	2.08713E-04	0.00764
516306.12	4266360.77	4.18655	0.00933	0.00003	2.08713E-04	0.00954
516325.17	4266351.93	4.43487	0.00988	0.00002	1.39142E-04	0.01002
516363.27	4266358.73	3.9971	0.00891	0.00002	1.39142E-04	0.00904
516361.23	4266381.86	3.22125	0.00718	0.00002	1.39142E-04	0.00732
516401.37	4266315.19	5.48749	0.01223	0.00001	6.95709E-05	0.01230
516384.36	4266384.59	2.97717	0.00663	0.00002	1.39142E-04	0.00677
516408.18	4266385.95	2.69959	0.00601	0.00002	1.39142E-04	0.00615
516389.81	4266360.77	3.69342	0.00823	0.00002	1.39142E-04	0.00837
516409.54	4266359.41	3.45999	0.00771	0.00002	1.39142E-04	0.00785
516434.71	4266360.09	2.9476	0.00657	0.00002	1.39142E-04	0.00671
516456.48	4266362.13	2.36197	0.00526	0.00002	1.39142E-04	0.00540
516430.63	4266317.23	4.6549	0.01037	0.00001	6.95709E-05	0.01044
516449	4266320.63	3.7074	0.00826	0.00001	6.95709E-05	0.00833
516447.64	4266386.63	2.10746	0.00470	0.00002	1.39142E-04	0.00483
516477.57	4266385.27	1.60636	0.00358	0.00002	1.39142E-04	0.00372
516497.98	4266402.95	1.20115	0.00268	0.00002	1.39142E-04	0.00282
516421.1	4266462.15	1.45454	0.00324	0.00003	2.08713E-04	0.00345
516421.78	4266448.54	1.57832	0.00352	0.00003	2.08713E-04	0.00373
516423.14	4266433.57	1.73191	0.00386	0.00003	2.08713E-04	0.00407
516466.01	4266460.78	1.1482	0.00256	0.00003	2.08713E-04	0.00277
516466.01	4266446.5	1.29987	0.00276	0.00003	2.08713E-04	0.00297
516467.37	4266429.49	1.35194	0.00301	0.00002	1.39142E-04	0.00315
516485.74	4266429.49	1.17223	0.00261	0.00002	1.39142E-04	0.00275
516502.07	4266430.17	1.02371	0.00228	0.00002	1.39142E-04	0.00242
516532	4266464.19	0.71397	0.00159	0.00003	2.08713E-04	0.00180
516532.68	4266448.54	0.75079	0.00167	0.00003	2.08713E-04	0.00188
516532	4266432.89	0.7981	0.00178	0.00002	1.39142E-04	0.00192
516459.68	4266083.37	2.71771	0.00606	0.00001	6.95709E-05	0.00612
516469.51	4266083.86	2.37205	0.00528	0.00001	6.95709E-05	0.00535
516488.68	4266088.28	1.86223	0.00415	0.00001	6.95709E-05	0.00422
516505.4	4266086.32	1.5077	0.00336	0.00001	6.95709E-05	0.00343
516522.6	4266085.83	1.22982	0.00274	0.00001	6.95709E-05	0.00281
516541.28	4266083.86	0.996	0.00222	0.00001	6.95709E-05	0.00229
516558.98	4266082.88	0.82677	0.00184	0.00000	0.00000E+00	0.00184
516580.12	4266085.33	0.67329	0.00150	0.00000	0.00000E+00	0.00150
516492.62	4266039.62	1.58149	0.00352	0.00000	0.00000E+00	0.00352
516508.84	4266039.13	1.31375	0.00293	0.00000	0.00000E+00	0.00293
516524.08	4266041.58	1.12216	0.00250	0.00000	0.00000E+00	0.00250
516542.27	4266040.6	0.93127	0.00207	0.00000	0.00000E+00	0.00207
516557.5	4266040.6	0.8037	0.00179	0.00000	0.00000E+00	0.00179
516494.58	4266014.06	1.43882	0.00321	0.00000	0.00000E+00	0.00321
516508.84	4266014.06	1.2357	0.00275	0.00000	0.00000E+00	0.00275
516523.59	4266014.55	1.06632	0.00238	0.00000	0.00000E+00	0.00238
516538.33	4266013.57	0.924	0.00206	0.00000	0.00000E+00	0.00206
516555.54	4266019.46	0.79572	0.00177	0.00000	0.00000E+00	0.00177
516557.01	4266005.21	0.77008	0.00172	0.00000	0.00000E+00	0.00172
516556.52	4265990.46	0.75857	0.00169	0.00000	0.00000E+00	0.00169
516557.01	4265972.27	0.73952	0.00165	0.00000	0.00000E+00	0.00165
516540.3	4265975.22	0.85189	0.00190	0.00000	0.00000E+00	0.00190
516527.52	4265980.14	0.95886	0.00214	0.00000	0.00000E+00	0.00214
516509.82	4265978.66	1.12277	0.00250	0.00000	0.00000E+00	0.00250
516499.5	4265974.24	1.22298	0.00272	0.00000	0.00000E+00	0.00272
516499.01	4265951.14	1.16314	0.00259	0.00000	0.00000E+00	0.00259
516494.58	4265938.85	1.17197	0.00261	0.00000	0.00000E+00	0.00261
516514.25	4265943.76	1.0055	0.00224	0.00000	0.00000E+00	0.00224
516478	4265907.45	1.19655	0.00267	0.00000	0.00000E+00	0.00267
516492.21	4265903.27	1.06292	0.00237	0.00000	0.00000E+00	0.00237
516506.41	4265899.09	0.94913	0.00211	0.00000	0.00000E+00	0.00211
516527.71	4265937.53	0.89169	0.00199	0.00000	0.00000E+00	0.00199
516595.64	4266084.72	0.58386	0.00130	0.00000	0.00000E+00	0.00130
516614.84	4266089.52	0.49545	0.00110	0.00000	0.00000E+00	0.00110
516595.64	4266042.3	0.57188	0.00127	0.00000	0.00000E+00	0.00127
516598.04	4266022.29	0.55337	0.00123	0.00000	0.00000E+00	0.00123
516601.24	4266007.89	0.53473	0.00119	0.00000	0.00000E+00	0.00119
516602.04	4265991.88	0.52706	0.00117	0.00000	0.00000E+00	0.00117
516611.64	4266045.5	0.50176	0.00112	0.00000	0.00000E+00	0.00112
516626.05	4266044.7	0.44758	0.00100	0.00000	0.00000E+00	0.00100
515945.31	4266464.28	0.31788	0.00071	0.00000	0.00000E+00	0.00071
515926.48	4266468.98	0.2556	0.00057	0.00000	0.00000E+00	0.00057
515921.78	4266501.94	0.28621	0.00064	0.00000	0.00000E+00	0.00064
515948.14	4266423.79	0.26568	0.00059	0.00000	0.00000E+00	0.00059
516579.7	4266256.89	0.6951	0.00155	0.00001	6.95709E-05	0.00162
516595.22	4266256.89	0.60442	0.00135	0.00001	6.95709E-05	0.00142
516609.32	4266256.7	0.53483	0.00119	0.00001	6.95709E-05	0.00126
516630.68	4266259.49	0.45138	0.00101	0.00001	6.95709E-05	0.00108
516647.41	4266259.49	0.39828	0.00089	0.00001	6.95709E-05	0.00096
516641.83	4266238.12	0.40733	0.00091	0.00001	6.95709E-05	0.00098
516624.18	4266236.26	0.4663	0.00104	0.00001	6.95709E-05	0.00111
516601.88	4266234.41	0.56151	0.00125	0.00001	6.95709E-05	0.00132
516580.51	4266234.41	0.68113	0.00152	0.00001	6.95709E-05	0.00159
516586.09	4266209.32	0.64227	0.00143	0.00001	6.95709E-05	0.00150
516601.88	4266213.04	0.55708	0.00124	0.00001	6.95709E-05	0.00131
516620.46	4266214.9	0.47571	0.00106	0.00001	6.95709E-05	0.00113
516638.12	4266213.04	0.41338	0.00092	0.00001	6.95709E-05	0.00099
CONCUNIT ug	/m^3	0	0.00000	0.00000	0.00000E+00	0.00000
DEPUNIT g/m	^2	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000
0	0	0	0.00000	0.00000	0.00000E+00	0.00000

Mill Creek

2020 **Tier IV Mitigation** **at Sensitive Receptors**

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate: 1.92521E-08 grams/m2/sec

Annual Average Offsite DPM Exhaust Emission Rate: 5.11823E-05 grams/sec

X (m)	Y (m)	Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
516122.45	4266263.52	1.16637	0.00225	0.00000	0.00000E+00	0.00225
516114.09	4266273.28	1.11747	0.00215	0.00000	0.00000E+00	0.00215
516103.64	4266274.95	0.96027	0.00185	0.00000	0.00000E+00	0.00185
516092.36	4266274.54	0.80465	0.00155	0.00000	0.00000E+00	0.00155
516081.5	4266274.54	0.68555	0.00132	0.00000	0.00000E+00	0.00132
516071.05	4266273.28	0.58599	0.00113	0.00000	0.00000E+00	0.00113
516061.03	4266274.54	0.51531	0.00099	0.00000	0.00000E+00	0.00099
516134.56	4266245.71	1.19268	0.00230	0.00000	0.00000E+00	0.00230
516091.94	4266243.62	0.63457	0.00122	0.00000	0.00000E+00	0.00122
516109.91	4266245.71	0.82545	0.00159	0.00000	0.00000E+00	0.00159
516122.44	4266244.87	0.9835	0.00189	0.00000	0.00000E+00	0.00189
516062.7	4266259.91	0.48124	0.00093	0.00000	0.00000E+00	0.00093
516085.68	4266203.09	0.45433	0.00087	0.00000	0.00000E+00	0.00087

Mill Creek

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$
Averaging Period 25550 days

Year	Unit DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
3rd Trimester	1	10	361	0.85	350	0.25	11.6
1	1	10	1090	0.85	350	1	139.6
2	1	10	1090	0.85	350	1	139.6

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Mill Creek

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM: (565046,4185977)

Cancer Potency Factor: 1.1 $(mg/kg\text{-}day)^{-1}$

Averaging Period 25550 days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Frequency (days/year)	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	3	572	0.73	350	1	18.9
2	1	3	572	0.73	350	1	18.9

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Mill Creek

Tier IV Mitigation **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Child Cancer Risk (year 1) 2019 (/million)	Child Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
516122.45	4266263.52	0.049	0.042	0.09
516114.09	4266273.28	0.047	0.041	0.09
516103.64	4266274.95	0.040	0.035	0.08
516092.36	4266274.54	0.034	0.029	0.06
516081.5	4266274.54	0.029	0.025	0.05
516071.05	4266273.28	0.025	0.021	0.05
516061.03	4266274.54	0.022	0.019	0.04
516134.56	4266245.71	0.050	0.043	0.09
516091.94	4266243.62	0.027	0.023	0.05

Maximum Caner Risk
0.5
BAAQMD threshold of significance
10
Exceed thresholds?
No

Mill Creek

Tier IV Mitigation

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult

Cancer Potency Factor:	1.1	$(mg/kg\text{-}day)^{-1}$
Exposure Frequency	350	days/year
Averaging Period	25550	days

Year	DPM Concentration (ug/m3)	Age Sensitivty Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor $(ug/m3)^{-1}$
1	1	1	261	0.72	1	2.8
2	1	1	261	0.72	1	2.8

BAAQMD 2016. Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

Mill Creek **Tier IV Mitigation** **at Sensitive Receptors**

Estimated Cancer Risks from Construction DPM

X (m)	Y (m)	Adult Cancer Risk (year 1) 2019 (/million)	Adult Cancer Risk (year 2) 2020 (/million)	Total Cancer Risk (/million)
516122.45	4266263.52	0.007	0.006	0.01372
516114.09	4266273.28	0.007	0.006	0.01314
516103.64	4266274.95	0.006	0.005	0.01129
516092.36	4266274.54	0.005	0.004	0.00946
516081.5	4266274.54	0.004	0.004	0.00806
516071.05	4266273.28	0.004	0.003	0.00689
516061.03	4266274.54	0.003	0.003	0.00606
516134.56	4266245.71	0.008	0.007	0.01403
516091.94	4266243.62	0.004	0.003	0.00746
516109.91	4266245.71	0.005	0.004	0.00971
516122.44	4266244.87	0.006	0.005	0.01157
516062.7	4266259.91	0.003	0.003	0.00566
516085.68	4266203.09	0.003	0.002	0.00534
516095.29	4266203.09	0.003	0.003	0.00597
516104.9	4266203.09	0.004	0.003	0.00669
516114.5	4266203.09	0.004	0.003	0.00752
516123.7	4266203.09	0.005	0.004	0.00844
516132.05	4266202.68	0.005	0.004	0.00936
516141.24	4266203.51	0.006	0.005	0.01065
516150.43	4266203.09	0.006	0.006	0.01199
516159.63	4266203.93	0.007	0.006	0.01371
516167.15	4266200.17	0.008	0.007	0.01469
516172.16	4266191.4	0.008	0.007	0.01447
516176.34	4266184.71	0.008	0.007	0.01443
516180.93	4266177.61	0.008	0.007	0.01444
516063.53	4266183.46	0.002	0.002	0.00381
516073.14	4266183.87	0.002	0.002	0.00421
516081.5	4266183.87	0.002	0.002	0.00459
516089.85	4266183.87	0.003	0.002	0.00503
516099.05	4266184.29	0.003	0.003	0.00557
516106.57	4266184.71	0.003	0.003	0.00608
516114.09	4266183.87	0.004	0.003	0.00659
516122.86	4266184.71	0.004	0.003	0.00735
516129.54	4266184.71	0.004	0.004	0.00796
516137.48	4266184.71	0.005	0.004	0.00878
516143.75	4266184.71	0.005	0.004	0.00950
516151.27	4266184.29	0.006	0.005	0.01038
516024.26	4266277.46	0.002	0.002	0.00387
516023.43	4266267.85	0.002	0.002	0.00366
516023.84	4266259.08	0.002	0.002	0.00353
516023.84	4266249.47	0.002	0.002	0.00338
516023.43	4266239.86	0.002	0.001	0.00323
516023.43	4266232.76	0.002	0.001	0.00314
516023.43	4266222.73	0.002	0.001	0.00301
516023.84	4266213.12	0.002	0.001	0.00291
516023.84	4266204.35	0.002	0.001	0.00281
516023.43	4266196.83	0.001	0.001	0.00272
516023.43	4266188.89	0.001	0.001	0.00264
516024.26	4266180.95	0.001	0.001	0.00259
516023.84	4266173.85	0.001	0.001	0.00251
515997.94	4266272.86	0.002	0.001	0.00284
515995.85	4266254.9	0.001	0.001	0.00260
515994.6	4266235.68	0.001	0.001	0.00240
515994.18	4266216.46	0.001	0.001	0.00224
515995.85	4266200.17	0.001	0.001	0.00215
515998.78	4266182.2	0.001	0.001	0.00209
516063.95	4266332.61	0.005	0.005	0.00971
516078.57	4266314.64	0.006	0.005	0.01064
516062.28	4266315.06	0.004	0.004	0.00819
516019.25	4266313.81	0.002	0.002	0.00439
515990.42	4266315.06	0.002	0.001	0.00312
516022.59	4266329.27	0.003	0.002	0.00501
516021.75	4266350.57	0.003	0.003	0.00566
516023.84	4266362.27	0.003	0.003	0.00632
515992.93	4266364.36	0.002	0.002	0.00411
515995.85	4266349.74	0.002	0.002	0.00394
515997.52	4266335.12	0.002	0.002	0.00373
515987.25	4266578.77	0.010	0.009	0.01954
515986.57	4266608.7	0.007	0.006	0.01369
516013.78	4266579.45	0.014	0.012	0.02568
516049.84	4266584.89	0.012	0.010	0.02249
516067.53	4266578.77	0.013	0.011	0.02341
516078.07	4266539.82	0.018	0.015	0.03344
516047.43	4266502.23	0.020	0.017	0.03667
516063.04	4266496.45	0.024	0.020	0.04398
516086.75	4266509.75	0.026	0.022	0.04778
516098.31	4266510.9	0.027	0.023	0.04938
516097.74	4266531.72	0.021	0.018	0.03867
516113.18	4266501.46	0.030	0.026	0.05668
516115.89	4266543.72	0.019	0.016	0.03496
516150.61	4266535.57	0.021	0.018	0.03851
516102.61	4266586.89	0.012	0.010	0.02240
516132.19	4266585.99	0.012	0.011	0.02292
516193.78	4266507.2	0.022	0.019	0.04110
516134.91	4266500.56	0.032	0.027	0.05916
516202.83	4266464.64	0.026	0.023	0.04887
516214.3	4266464.64	0.025	0.021	0.04673
516212.19	4266446.22	0.028	0.024	0.05255
516206.76	4266435.96	0.031	0.027	0.05830
516215.81	4266402.75	0.036	0.031	0.06747
516219.13	4266420.26	0.033	0.028	0.06085
516151.62	4266586.71	0.012	0.011	0.02278
516194.41	4266583.82	0.012	0.010	0.02213
516263.94	4266379.14	0.028	0.024	0.05171
516263.94	4266358.05	0.031	0.027	0.05815
516263.94	4266330.84	0.037	0.032	0.06885
516278.91	4266309.75	0.040	0.035	0.07492
516295.92	4266311.11	0.040	0.034	0.07418
516321.09	4266313.15	0.039	0.034	0.07345
516348.31	4266313.15	0.039	0.034	0.07289
516308.17	4266384.59	0.022	0.019	0.04173
516333.34	4266383.22	0.022	0.019	0.04026
516306.12	4266360.77	0.027	0.023	0.05026
516325.17	4266351.93	0.028	0.024	0.05284
516363.27	4266358.73	0.026	0.022	0.04769
516361.23	4266381.86	0.021	0.018	0.03857
516401.37	4266315.19	0.035	0.030	0.06488
516384.36	4266384.59	0.019	0.017	0.03570
516408.18	4266385.95	0.017	0.015	0.03243
516389.81	4266360.77	0.024	0.020	0.04412
516409.54	4266359.41	0.022	0.019	0.04138
516434.71	4266360.09	0.019	0.016	0.03535
516456.48	4266362.13	0.015	0.013	0.02846
516430.63	4266317.23	0.030	0.026	0.05509
516449	4266320.63	0.024	0.020	0.04394
516447.64	4266386.63	0.014	0.012	0.02547
516477.57	4266385.27	0.011	0.009	0.01958
516497.98	4266402.95	0.008	0.007	0.01481
516421.1	4266462.15	0.010	0.008	0.01813
516421.78	4266448.54	0.011	0.009	0.01959
516423.14	4266433.57	0.012	0.010	0.02139
516466.01	4266460.78	0.008	0.007	0.01453
516466.01	4266446.5	0.008	0.007	0.01561
516467.37	4266429.49	0.009	0.008	0.01658
516485.74	4266429.49	0.008	0.007	0.01447
516502.07	4266430.17	0.007	0.006	0.01272
516532	4266464.19	0.005	0.004	0.00942
516532.68	4266448.54	0.005	0.005	0.00986
516532	4266432.89	0.005	0.005	0.01007
516459.68	4266083.37	0.017	0.015	0.03230
516469.51	4266083.86	0.015	0.013	0.02824
516488.68	4266088.28	0.012	0.010	0.02224
516505.4	4266086.32	0.010	0.008	0.01807
516522.6	4266085.83	0.008	0.007	0.01481
516541.28	4266083.86	0.006	0.006	0.01206
516558.98	4266082.88	0.005	0.005	0.00972
516580.12	4266085.33	0.004	0.004	0.00792
516492.62	4266039.62	0.010	0.009	0.01860
516508.84	4266039.13	0.008	0.007	0.01545
516524.08	4266041.58	0.007	0.006	0.01320
516542.27	4266040.6	0.006	0.005	0.01095
516557.5	4266040.6	0.005	0.004	0.00945
516494.58	4266014.06	0.009	0.008	0.01692
516508.84	4266014.06	0.008	0.007	0.01453
516523.59	4266014.55	0.007	0.006	0.01254
516538.33	4266013.57	0.006	0.005	0.01087
516555.54	4266019.46	0.005	0.004	0.00936
516557.01	4266005.21	0.005	0.004	0.00906
516556.52	4265990.46	0.005	0.004	0.00892
516557.01	4265972.27	0.005	0.004	0.00870
516540.3	4265975.22	0.005	0.005	0.01002
516527.52	4265980.14	0.006	0.005	0.01128
516509.82	4265978.66	0.007	0.006	0.01320
516499.5	4265974.24	0.008	0.007	0.01438
516499.01	4265951.14	0.007	0.006	0.01368
516494.58	4265938.85	0.007	0.006	0.01378
516514.25	4265943.76	0.006	0.005	0.01183
516478	4265907.45	0.008	0.007	0.01407
516492.21	4265903.27	0.007	0.006	0.01250
516506.41	4265899.09	0.006	0.005	0.01116
516527.71	4265937.53	0.006	0.005	0.01049
516595.64	4266084.72	0.004	0.003	0.00687
516614.84	4266089.52	0.003	0.003	0.00583
516595.64	4266042.3	0.004	0.003	0.00673
516598.04	4266022.29	0.003	0.003	0.00651
516601.24	4266007.89	0.003	0.003	0.00629
516602.04	4265991.88	0.003	0.003	0.00620
516611.64	4266045.5	0.003	0.003	0.00590
516626.05	4266044.7	0.003	0.002	0.00526
515945.31	4266464.28	0.002	0.002	0.00374
515926.48	4266468.98	0.002	0.001	0.00301
515921.78	4266501.94	0.002	0.002	0.00337
515948.14	4266423.79	0.002	0.001	0.00312
516579.7	4266256.89	0.005	0.004	0.00852
516595.22	4266256.89	0.004	0.003	0.00745
516609.32	4266256.7	0.004	0.003	0.00663
516630.68	4266259.49	0.003	0.003	0.00565
516647.41	4266259.49	0.003	0.002	0.00503
516641.83	4266238.12	0.003	0.002	0.00513
516624.18	4266236.26	0.003	0.003	0.00583
516601.88	4266234.41	0.004	0.003	0.00695
516580.51	4266234.41	0.004	0.004	0.00835
516586.09	4266209.32	0.004	0.004	0.00790
516601.88	4266213.04	0.004	0.003	0.00689
516620.46	4266214.9	0.003	0.003	0.00594
516638.12	4266213.04	0.003	0.002	0.00520
CONCUNIT ug	/m^3	0.000	0.000	0.00000
DEPUNIT g/m	^2	0.000	0.000	0.00000

Maximum Caner Risk
0.1
BAAQMD threshold of significance
10
Exceed thresholds?
No

Mill Creek

Tier IV Mitigation
at Sensitive Receptors

Chronic Non-Cancer Hazard Index

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL

X (m)	Y (m)	2019 DPM (ug/m3)	2020 DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
516122.45	4266263.52	0.00260	0.002246	0.00260	0.00052
516114.09	4266273.28	0.00249	0.002151	0.00249	0.00050
516103.64	4266274.95	0.00214	0.001849	0.00214	0.00043
516092.36	4266274.54	0.00179	0.001549	0.00179	0.00036
516081.5	4266274.54	0.00153	0.00132	0.00153	0.00031
516071.05	4266273.28	0.00131	0.001128	0.00131	0.00026
516061.03	4266274.54	0.00115	0.000992	0.00115	0.00023

Maximum Caner Risk
0.00
BAAQMD threshold of significance
1
Exceed thresholds?

Mill Creek

Tier IV Mitigation

at Sensitive Receptors

Annual Average PM2.5 (Exhaust + Fugitive Dust)

X (m)	Y (m)	2019 DPM (ug/m3)	2020 DPM (ug/m3)	Max PM2.5 (ug/m3)
516122.45	4266263.52	0.002599	0.002246	0.00260
516114.09	4266273.28	0.00249	0.002151	0.00249
516103.64	4266274.95	0.002139	0.001849	0.00214
516092.36	4266274.54	0.001793	0.001549	0.00179
516081.5	4266274.54	0.001527	0.00132	0.00153
516071.05	4266273.28	0.001306	0.001128	0.00131
516061.03	4266274.54	0.001148	0.000992	0.00115
516134.56	4266245.71	0.002657	0.002296	0.00266
516091.94	4266243.62	0.001414	0.001222	0.00141
516109.91	4266245.71	0.001839	0.001589	0.00184
516122.44	4266244.87	0.002191	0.001893	0.00219
516062.7	4266259.91	0.001072	0.000926	0.00107
516085.68	4266203.09	0.001012	0.000875	0.00101

Maximum Caner Risk

0.0

BAAQMD threshold of significance

0.3

Exceed thresholds?

No

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.5.0
** Lakes Environmental Software Inc.
** Date: 2/23/2018
** File: C:\Users\xli\Desktop\3249.0010 Mill Creek\construction
HRA\construction HRA.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\xli\Desktop\3249.0010 Mill Creek\construction
HRA\construct
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 10000
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "construction HRA.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   515975.498  4266544.867
35.000
** DESCRSRC on-site construction
** ------------------------------------------------------------------
--
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC off-site truck
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.00001
** Elevated
** Vertical Dimension = 6.22
** SZINIT = 1.45
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** Nodes = 5
** 516632.395, 4266559.615, 34.27, 3.11, 4.19
** 516504.632, 4266573.655, 35.06, 3.11, 4.19
** 516409.161, 4266568.039, 33.92, 3.11, 4.19
** 516233.662, 4266561.019, 34.00, 3.11, 4.19
** 516233.662, 4266399.560, 33.00, 3.11, 4.19
** ----------------------------------------------------------------
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   LOCATION L0000001     VOLUME   516627.922 4266560.106 34.30
   LOCATION L0000002     VOLUME   516618.976 4266561.089 33.73
   LOCATION L0000003     VOLUME   516610.029 4266562.072 33.25
   LOCATION L0000004     VOLUME   516601.083 4266563.056 32.81
   LOCATION L0000005     VOLUME   516592.137 4266564.039 32.48
   LOCATION L0000006     VOLUME   516583.191 4266565.022 32.55
   LOCATION L0000007     VOLUME   516574.245 4266566.005 32.61
   LOCATION L0000008     VOLUME   516565.299 4266566.988 32.68
   LOCATION L0000009     VOLUME   516556.353 4266567.971 33.42
   LOCATION L0000010     VOLUME   516547.406 4266568.954 34.20
   LOCATION L0000011     VOLUME   516538.460 4266569.937 34.87
   LOCATION L0000012     VOLUME   516529.514 4266570.920 35.17
   LOCATION L0000013     VOLUME   516520.568 4266571.903 35.21
   LOCATION L0000014     VOLUME   516511.622 4266572.886 35.30
   LOCATION L0000015     VOLUME   516502.667 4266573.539 35.43
   LOCATION L0000016     VOLUME   516493.683 4266573.011 35.31
   LOCATION L0000017     VOLUME   516484.698 4266572.482 35.18
   LOCATION L0000018     VOLUME   516475.714 4266571.954 35.03
   LOCATION L0000019     VOLUME   516466.729 4266571.425 34.77
   LOCATION L0000020     VOLUME   516457.745 4266570.897 34.47
   LOCATION L0000021     VOLUME   516448.761 4266570.368 34.17
   LOCATION L0000022     VOLUME   516439.776 4266569.840 34.00
   LOCATION L0000023     VOLUME   516430.792 4266569.311 34.00
   LOCATION L0000024     VOLUME   516421.807 4266568.783 34.00
   LOCATION L0000025     VOLUME   516412.823 4266568.254 34.00
   LOCATION L0000026     VOLUME   516403.833 4266567.826 34.00
   LOCATION L0000027     VOLUME   516394.840 4266567.466 34.00
   LOCATION L0000028     VOLUME   516385.848 4266567.106 34.00
   LOCATION L0000029     VOLUME   516376.855 4266566.746 34.00
   LOCATION L0000030     VOLUME   516367.862 4266566.387 34.00
   LOCATION L0000031     VOLUME   516358.869 4266566.027 34.00
   LOCATION L0000032     VOLUME   516349.876 4266565.667 34.00
   LOCATION L0000033     VOLUME   516340.884 4266565.308 34.00
   LOCATION L0000034     VOLUME   516331.891 4266564.948 34.00
   LOCATION L0000035     VOLUME   516322.898 4266564.588 34.00
   LOCATION L0000036     VOLUME   516313.905 4266564.228 34.00
   LOCATION L0000037     VOLUME   516304.912 4266563.869 34.00
   LOCATION L0000038     VOLUME   516295.920 4266563.509 34.00
   LOCATION L0000039     VOLUME   516286.927 4266563.149 34.00
   LOCATION L0000040     VOLUME   516277.934 4266562.790 34.00
   LOCATION L0000041     VOLUME   516268.941 4266562.430 34.00
   LOCATION L0000042     VOLUME   516259.948 4266562.070 34.00
   LOCATION L0000043     VOLUME   516250.955 4266561.710 34.00
   LOCATION L0000044     VOLUME   516241.963 4266561.351 34.00
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   LOCATION L0000045     VOLUME   516233.662 4266560.326 34.00
   LOCATION L0000046     VOLUME   516233.662 4266551.326 34.00
   LOCATION L0000047     VOLUME   516233.662 4266542.326 34.00
   LOCATION L0000048     VOLUME   516233.662 4266533.326 34.00
   LOCATION L0000049     VOLUME   516233.662 4266524.326 34.00
   LOCATION L0000050     VOLUME   516233.662 4266515.326 34.00
   LOCATION L0000051     VOLUME   516233.662 4266506.326 34.00
   LOCATION L0000052     VOLUME   516233.662 4266497.326 34.00
   LOCATION L0000053     VOLUME   516233.662 4266488.326 34.00
   LOCATION L0000054     VOLUME   516233.662 4266479.326 34.00
   LOCATION L0000055     VOLUME   516233.662 4266470.326 34.00
   LOCATION L0000056     VOLUME   516233.662 4266461.326 33.82
   LOCATION L0000057     VOLUME   516233.662 4266452.326 33.52
   LOCATION L0000058     VOLUME   516233.662 4266443.326 33.22
   LOCATION L0000059     VOLUME   516233.662 4266434.326 33.00
   LOCATION L0000060     VOLUME   516233.662 4266425.326 33.00
   LOCATION L0000061     VOLUME   516233.662 4266416.326 33.00
   LOCATION L0000062     VOLUME   516233.662 4266407.326 33.00
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
   SRCPARAM PAREA1         0.00001     5.000        19
   AREAVERT PAREA1       515975.498 4266544.867 516030.598 4266544.186
   AREAVERT PAREA1       516036.040 4266474.801 516180.254 4266479.562
   AREAVERT PAREA1       516183.655 4266387.728 516233.314 4266389.089
   AREAVERT PAREA1       516241.477 4266293.853 516440.791 4266299.976
   AREAVERT PAREA1       516467.321 4266250.317 516453.715 4266209.502
   AREAVERT PAREA1       516445.552 4266179.571 516417.662 4266143.517
   AREAVERT PAREA1       516410.860 4266119.709 516416.302 4266082.295
   AREAVERT PAREA1       516414.941 4266067.329 516421.744 4266036.718
   AREAVERT PAREA1       516431.947 4265999.304 516415.621 4265950.326
   AREAVERT PAREA1       516404.057 4265937.401
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000002     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000003     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000004     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000005     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000006     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000007     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000008     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000009     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000010     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000011     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000012     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000013     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000014     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000015     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000016     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000017     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000018     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000019     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000020     0.0000001613      3.11      4.19      1.45
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   SRCPARAM L0000021     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000022     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000023     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000024     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000025     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000026     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000027     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000028     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000029     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000030     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000031     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000032     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000033     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000034     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000035     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000036     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000037     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000038     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000039     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000040     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000041     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000042     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000043     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000044     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000045     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000046     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000047     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000048     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000049     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000050     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000051     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000052     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000053     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000054     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000055     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000056     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000057     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000058     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000059     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000060     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000061     0.0000001613      3.11      4.19      1.45
   SRCPARAM L0000062     0.0000001613      3.11      4.19      1.45
** ------------------------------------------------------------------
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   URBANSRC PAREA1
   URBANSRC L0000001
   URBANSRC L0000002
   URBANSRC L0000003
   URBANSRC L0000004
   URBANSRC L0000005
   URBANSRC L0000006
   URBANSRC L0000007
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URBANSRC L0000008
URBANSRC L0000009
URBANSRC L0000010
URBANSRC L0000011
URBANSRC L0000012
URBANSRC L0000013
URBANSRC L0000014
URBANSRC L0000015
URBANSRC L0000016
URBANSRC L0000017
URBANSRC L0000018
URBANSRC L0000019
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URBANSRC L0000054
URBANSRC L0000055
URBANSRC L0000056
URBANSRC L0000057
URBANSRC L0000058
URBANSRC L0000059
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   URBANSRC L0000060
   URBANSRC L0000061
   URBANSRC L0000062

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000005     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000006     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000007     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0000008     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000009     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000010     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000011     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000012     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0000021     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000029     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   SRCGROUP Area     PAREA1
   SRCGROUP line     L0000001 L0000002 L0000003 L0000004 L0000005
L0000006
   SRCGROUP line     L0000007 L0000008 L0000009 L0000010 L0000011
L0000012
   SRCGROUP line     L0000013 L0000014 L0000015 L0000016 L0000017
L0000018
   SRCGROUP line     L0000019 L0000020 L0000021 L0000022 L0000023
L0000024
   SRCGROUP line     L0000025 L0000026 L0000027 L0000028 L0000029
L0000030
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   SRCGROUP line     L0000031 L0000032 L0000033 L0000034 L0000035
L0000036
   SRCGROUP line     L0000037 L0000038 L0000039 L0000040 L0000041
L0000042
   SRCGROUP line     L0000043 L0000044 L0000045 L0000046 L0000047
L0000048
   SRCGROUP line     L0000049 L0000050 L0000051 L0000052 L0000053
L0000054
   SRCGROUP line     L0000055 L0000056 L0000057 L0000058 L0000059
L0000060
   SRCGROUP line     L0000061 L0000062
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "construction HRA.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\724957\724957.SFC
   PROFFILE ..\724957\724957.PFL
   SURFDATA 23213 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 34.8 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "construction HRA.AD\AN00GALL.PLT" 31
   PLOTFILE ANNUAL Area "construction HRA.AD\AN00G001.PLT" 32
   PLOTFILE ANNUAL line "construction HRA.AD\AN00G002.PLT" 33
   SUMMFILE "construction HRA.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

```
  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 CO W320      22       URBOPT: Input Parameter May Be Out-of-Range for
Parameter       URB-POP

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                ***     MODEL SETUP
OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    63
Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =     10000.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
```

```
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:     63 Source(s);       3 Source Group(s); and
186 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     62 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for
Calm Hours
                                                                 m for
Missing Hours
                                                                 b for
Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =
34.80 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units =
GRAMS/SEC                                ;  Emission Rate Unit Factor
=   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   construction HRA.err
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.16130E-06	516627.9	4266560.1	34.3	3.11	4.19	1.45	YES	HRDOW
L0000002	0	0.16130E-06	516619.0	4266561.1	33.7	3.11	4.19	1.45	YES	HRDOW
L0000003	0	0.16130E-06	516610.0	4266562.1	33.2	3.11	4.19	1.45	YES	HRDOW
L0000004	0	0.16130E-06	516601.1	4266563.1	32.8	3.11	4.19	1.45	YES	HRDOW
L0000005	0	0.16130E-06	516592.1	4266564.0	32.5	3.11	4.19	1.45	YES	HRDOW
L0000006	0	0.16130E-06	516583.2	4266565.0	32.5	3.11	4.19	1.45	YES	HRDOW
L0000007	0	0.16130E-06	516574.2	4266566.0	32.6	3.11	4.19	1.45	YES	HRDOW
L0000008	0	0.16130E-06	516565.3	4266567.0	32.7	3.11	4.19	1.45	YES	HRDOW
L0000009	0	0.16130E-06	516556.4	4266568.0	33.4	3.11	4.19	1.45	YES	HRDOW
L0000010	0	0.16130E-06	516547.4	4266569.0	34.2	3.11	4.19	1.45	YES	HRDOW
L0000011	0	0.16130E-06	516538.5	4266569.9	34.9	3.11	4.19	1.45	YES	HRDOW
L0000012	0	0.16130E-06	516529.5	4266570.9	35.2	3.11	4.19	1.45	YES	HRDOW
L0000013	0	0.16130E-06	516520.6	4266571.9	35.2	3.11	4.19	1.45	YES	HRDOW
L0000014	0	0.16130E-06	516511.6	4266572.9	35.3	3.11	4.19	1.45	YES	HRDOW

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 L0000015          0   0.16130E-06  516502.7 4266573.5    35.4     3.11
4.19     1.45     YES   HRDOW
 L0000016          0   0.16130E-06  516493.7 4266573.0    35.3     3.11
4.19     1.45     YES   HRDOW
 L0000017          0   0.16130E-06  516484.7 4266572.5    35.2     3.11
4.19     1.45     YES   HRDOW
 L0000018          0   0.16130E-06  516475.7 4266572.0    35.0     3.11
4.19     1.45     YES   HRDOW
 L0000019          0   0.16130E-06  516466.7 4266571.4    34.8     3.11
4.19     1.45     YES   HRDOW
 L0000020          0   0.16130E-06  516457.7 4266570.9    34.5     3.11
4.19     1.45     YES   HRDOW
 L0000021          0   0.16130E-06  516448.8 4266570.4    34.2     3.11
4.19     1.45     YES   HRDOW
 L0000022          0   0.16130E-06  516439.8 4266569.8    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000023          0   0.16130E-06  516430.8 4266569.3    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000024          0   0.16130E-06  516421.8 4266568.8    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000025          0   0.16130E-06  516412.8 4266568.3    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000026          0   0.16130E-06  516403.8 4266567.8    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000027          0   0.16130E-06  516394.8 4266567.5    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000028          0   0.16130E-06  516385.8 4266567.1    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000029          0   0.16130E-06  516376.9 4266566.7    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000030          0   0.16130E-06  516367.9 4266566.4    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000031          0   0.16130E-06  516358.9 4266566.0    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000032          0   0.16130E-06  516349.9 4266565.7    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000033          0   0.16130E-06  516340.9 4266565.3    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000034          0   0.16130E-06  516331.9 4266564.9    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000035          0   0.16130E-06  516322.9 4266564.6    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000036          0   0.16130E-06  516313.9 4266564.2    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000037          0   0.16130E-06  516304.9 4266563.9    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000038          0   0.16130E-06  516295.9 4266563.5    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000039          0   0.16130E-06  516286.9 4266563.1    34.0     3.11
4.19     1.45     YES   HRDOW
 L0000040          0   0.16130E-06  516277.9 4266562.8    34.0     3.11
4.19     1.45     YES   HRDOW
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC) SCALAR	EMISSION RATE VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0000041	0	0.16130E-06	HRDOW	516268.9	4266562.4	34.0	3.11	4.19	1.45	YES
L0000042	0	0.16130E-06	HRDOW	516259.9	4266562.1	34.0	3.11	4.19	1.45	YES
L0000043	0	0.16130E-06	HRDOW	516251.0	4266561.7	34.0	3.11	4.19	1.45	YES
L0000044	0	0.16130E-06	HRDOW	516242.0	4266561.4	34.0	3.11	4.19	1.45	YES
L0000045	0	0.16130E-06	HRDOW	516233.7	4266560.3	34.0	3.11	4.19	1.45	YES
L0000046	0	0.16130E-06	HRDOW	516233.7	4266551.3	34.0	3.11	4.19	1.45	YES
L0000047	0	0.16130E-06	HRDOW	516233.7	4266542.3	34.0	3.11	4.19	1.45	YES
L0000048	0	0.16130E-06	HRDOW	516233.7	4266533.3	34.0	3.11	4.19	1.45	YES
L0000049	0	0.16130E-06	HRDOW	516233.7	4266524.3	34.0	3.11	4.19	1.45	YES
L0000050	0	0.16130E-06	HRDOW	516233.7	4266515.3	34.0	3.11	4.19	1.45	YES
L0000051	0	0.16130E-06	HRDOW	516233.7	4266506.3	34.0	3.11	4.19	1.45	YES
L0000052	0	0.16130E-06	HRDOW	516233.7	4266497.3	34.0	3.11	4.19	1.45	YES
L0000053	0	0.16130E-06	HRDOW	516233.7	4266488.3	34.0	3.11	4.19	1.45	YES
L0000054	0	0.16130E-06	HRDOW	516233.7	4266479.3	34.0	3.11	4.19	1.45	YES
L0000055	0	0.16130E-06	HRDOW	516233.7	4266470.3	34.0	3.11	4.19	1.45	YES

```
 L0000056         0   0.16130E-06  516233.7 4266461.3    33.8     3.11
4.19     1.45     YES   HRDOW
 L0000057         0   0.16130E-06  516233.7 4266452.3    33.5     3.11
4.19     1.45     YES   HRDOW
 L0000058         0   0.16130E-06  516233.7 4266443.3    33.2     3.11
4.19     1.45     YES   HRDOW
 L0000059         0   0.16130E-06  516233.7 4266434.3    33.0     3.11
4.19     1.45     YES   HRDOW
 L0000060         0   0.16130E-06  516233.7 4266425.3    33.0     3.11
4.19     1.45     YES   HRDOW
 L0000061         0   0.16130E-06  516233.7 4266416.3    33.0     3.11
4.19     1.45     YES   HRDOW
 L0000062         0   0.16130E-06  516233.7 4266407.3    33.0     3.11
4.19     1.45     YES   HRDOW

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Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                    *** AREAPOLY SOURCE
DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE
RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.
HEIGHT  OF VERTS.     SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS)
(METERS)            (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 PAREA1           0   0.10000E-04  515975.5 4266544.9    35.0     5.00
19         0.00     YES   HRDOW

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                *** SOURCE IDs DEFINING
SOURCE GROUPS ***

 SRCGROUP ID                                              SOURCE IDs
```

```
-----------                                                    ----------

  AREA       PAREA1      ,

  LINE       L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    ,
L0000013    , L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    ,
L0000021    , L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    ,
L0000029    , L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    ,
L0000037    , L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    ,
L0000045    , L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    ,
L0000053    , L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    ,
L0000061    , L0000062    ,

  ALL        PAREA1      , L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    , L0000006    , L0000007    ,

             L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    , L0000014    , L0000015    ,

             L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    , L0000022    , L0000023    ,

             L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    , L0000029    , L0000030    , L0000031    ,

             L0000032    , L0000033    , L0000034    , L0000035    ,
L0000036    , L0000037    , L0000038    , L0000039    ,

             L0000040    , L0000041    , L0000042    , L0000043    ,
L0000044    , L0000045    , L0000046    , L0000047    ,

             L0000048    , L0000049    , L0000050    , L0000051    ,
L0000052    , L0000053    , L0000054    , L0000055    ,

             L0000056    , L0000057    , L0000058    , L0000059    ,
L0000060    , L0000061    , L0000062    ,
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	10000.	PAREA1 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 ,
		L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 ,
		L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 ,
		L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 ,
		L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 ,
		L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 ,
		L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 ,
		L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 ,

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = PAREA1       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

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Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000001     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000003 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000004 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000007   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***   02/23/18
 *** AERMET - VERSION 14134 ***   ***
***   16:29:14

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000008   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000009     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000010     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000013     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000014     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
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```
 SOURCE ID = L0000015     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000016     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000017     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000018 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000019 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000020     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

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Mill Creek\construction HRA\construct ***        02/23/18
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000022   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000023   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000024     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000028     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000031     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000032     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000033 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000034 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000036     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14
```

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000037   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***   02/23/18
 *** AERMET - VERSION 14134 ***   ***
***   16:29:14

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000038   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000039     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000040     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000043     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000044     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
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```
 SOURCE ID = L0000045     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000046     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000047     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000048 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000049 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000050     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000051     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000052   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***   02/23/18
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000053   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                    DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000056 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000057 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00				

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000058     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000059   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                 DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01
13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00
5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00
13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00
21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0000060     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000061     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000062     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(516122.5, 4266263.5, 33.0, 33.0, 0.0);
(516114.1, 4266273.3, 33.0, 33.0, 0.0);
(516103.6, 4266275.0, 33.0, 33.0, 0.0);
(516092.4, 4266274.5, 33.0, 33.0, 0.0);
(516081.5, 4266274.5, 33.0, 33.0, 0.0);
(516071.0, 4266273.3, 33.0, 33.0, 0.0);
(516061.0, 4266274.5, 33.0, 33.0, 0.0);
(516134.6, 4266245.7, 33.0, 33.0, 0.0);
(516091.9, 4266243.6, 33.0, 33.0, 0.0);
(516109.9, 4266245.7, 33.0, 33.0, 0.0);
(516122.4, 4266244.9, 33.0, 33.0, 0.0);
(516062.7, 4266259.9, 33.0, 33.0, 0.0);
(516085.7, 4266203.1, 33.0, 33.0, 0.0);
(516095.3, 4266203.1, 33.0, 33.0, 0.0);
(516104.9, 4266203.1, 33.0, 33.0, 0.0);
(516114.5, 4266203.1, 33.0, 33.0, 0.0);
(516123.7, 4266203.1, 33.0, 33.0, 0.0);
(516132.0, 4266202.7, 33.0, 33.0, 0.0);
(516141.2, 4266203.5, 33.0, 33.0, 0.0);
(516150.4, 4266203.1, 32.8, 32.8, 0.0);
(516159.6, 4266203.9, 32.6, 32.6, 0.0);
(516167.1, 4266200.2, 32.3, 32.3, 0.0);
(516172.2, 4266191.4, 32.0, 32.0, 0.0);
(516176.3, 4266184.7, 32.0, 32.0, 0.0);
(516180.9, 4266177.6, 32.0, 32.0, 0.0);
(516063.5, 4266183.5, 33.0, 33.0, 0.0);
(516073.1, 4266183.9, 33.0, 33.0, 0.0);
(516081.5, 4266183.9, 33.0, 33.0, 0.0);
(516089.8, 4266183.9, 33.0, 33.0, 0.0);
(516099.0, 4266184.3, 33.0, 33.0, 0.0);
(516106.6, 4266184.7, 33.0, 33.0, 0.0);
(516114.1, 4266183.9, 33.0, 33.0, 0.0);
(516122.9, 4266184.7, 33.0, 33.0, 0.0);
(516129.5, 4266184.7, 33.0, 33.0, 0.0);
(516137.5, 4266184.7, 33.0, 33.0, 0.0);
(516143.8, 4266184.7, 33.0, 33.0, 0.0);
(516151.3, 4266184.3, 32.8, 32.8, 0.0);
(516024.3, 4266277.5, 33.0, 33.0, 0.0);

```
     ( 516023.4, 4266267.8,      33.0,      33.0,       0.0);
( 516023.8, 4266259.1,      33.0,      33.0,       0.0);
     ( 516023.8, 4266249.5,      33.0,      33.0,       0.0);
( 516023.4, 4266239.9,      33.0,      33.0,       0.0);
     ( 516023.4, 4266232.8,      33.0,      33.0,       0.0);
( 516023.4, 4266222.7,      33.0,      33.0,       0.0);
     ( 516023.8, 4266213.1,      33.0,      33.0,       0.0);
( 516023.8, 4266204.3,      33.0,      33.0,       0.0);
     ( 516023.4, 4266196.8,      33.0,      33.0,       0.0);
( 516023.4, 4266188.9,      33.0,      33.0,       0.0);
     ( 516024.3, 4266181.0,      33.0,      33.0,       0.0);
( 516023.8, 4266173.8,      33.0,      33.0,       0.0);
     ( 515997.9, 4266272.9,      33.9,      33.9,       0.0);
( 515995.8, 4266254.9,      33.9,      33.9,       0.0);
     ( 515994.6, 4266235.7,      34.0,      34.0,       0.0);
( 515994.2, 4266216.5,      34.0,      34.0,       0.0);
     ( 515995.8, 4266200.2,      33.9,      33.9,       0.0);
( 515998.8, 4266182.2,      33.8,      33.8,       0.0);
     ( 516064.0, 4266332.6,      33.0,      33.0,       0.0);
( 516078.6, 4266314.6,      33.0,      33.0,       0.0);
     ( 516062.3, 4266315.1,      33.0,      33.0,       0.0);
( 516019.2, 4266313.8,      33.1,      33.1,       0.0);
     ( 515990.4, 4266315.1,      34.0,      34.0,       0.0);
( 516022.6, 4266329.3,      33.0,      33.0,       0.0);
     ( 516021.8, 4266350.6,      33.1,      33.1,       0.0);
( 516023.8, 4266362.3,      33.0,      33.0,       0.0);
     ( 515992.9, 4266364.4,      34.0,      34.0,       0.0);
( 515995.8, 4266349.7,      33.9,      33.9,       0.0);
     ( 515997.5, 4266335.1,      33.9,      33.9,       0.0);
( 515987.2, 4266578.8,      35.2,      35.2,       0.0);
     ( 515986.6, 4266608.7,      35.8,      35.8,       0.0);
( 516013.8, 4266579.5,      35.0,      35.0,       0.0);
     ( 516049.8, 4266584.9,      35.0,      35.0,       0.0);
( 516067.5, 4266578.8,      35.0,      35.0,       0.0);
     ( 516078.1, 4266539.8,      35.0,      35.0,       0.0);
( 516047.4, 4266502.2,      34.2,      34.2,       0.0);
     ( 516063.0, 4266496.5,      34.0,      34.0,       0.0);
( 516086.8, 4266509.8,      34.4,      34.4,       0.0);
     ( 516098.3, 4266510.9,      34.2,      34.2,       0.0);
( 516097.7, 4266531.7,      34.6,      34.6,       0.0);
     ( 516113.2, 4266501.5,      34.0,      34.0,       0.0);
( 516115.9, 4266543.7,      34.6,      34.6,       0.0);
     ( 516150.6, 4266535.6,      34.2,      34.2,       0.0);
( 516102.6, 4266586.9,      35.0,      35.0,       0.0);
     ( 516132.2, 4266586.0,      35.0,      35.0,       0.0);
( 516193.8, 4266507.2,      34.0,      34.0,       0.0);
     ( 516134.9, 4266500.6,      34.0,      34.0,       0.0);
( 516202.8, 4266464.6,      34.0,      34.0,       0.0);
     ( 516214.3, 4266464.6,      34.0,      34.0,       0.0);
( 516212.2, 4266446.2,      33.8,      33.8,       0.0);
     ( 516206.8, 4266436.0,      33.9,      33.9,       0.0);
( 516215.8, 4266402.8,      33.0,      33.0,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(516219.1, 4266420.3, 33.2, 33.2, 0.0);
(516151.6, 4266586.7, 35.0, 35.0, 0.0);
(516194.4, 4266583.8, 34.9, 34.9, 0.0);
(516263.9, 4266379.1, 33.0, 33.0, 0.0);
(516263.9, 4266358.0, 33.0, 33.0, 0.0);
(516263.9, 4266330.8, 32.5, 32.5, 0.0);
(516278.9, 4266309.8, 32.0, 32.0, 0.0);
(516295.9, 4266311.1, 32.0, 32.0, 0.0);
(516321.1, 4266313.1, 32.0, 32.0, 0.0);
(516348.3, 4266313.1, 32.0, 32.0, 0.0);
(516308.2, 4266384.6, 32.6, 32.6, 0.0);
(516333.3, 4266383.2, 32.1, 32.1, 0.0);
(516306.1, 4266360.8, 32.3, 32.3, 0.0);
(516325.2, 4266351.9, 32.0, 32.0, 0.0);
(516363.3, 4266358.7, 32.0, 32.0, 0.0);
(516361.2, 4266381.9, 32.0, 32.0, 0.0);
(516401.4, 4266315.2, 31.0, 31.0, 0.0);
(516384.4, 4266384.6, 32.0, 32.0, 0.0);
(516408.2, 4266386.0, 32.0, 32.0, 0.0);
(516389.8, 4266360.8, 31.9, 31.9, 0.0);
(516409.5, 4266359.4, 31.5, 31.5, 0.0);
(516434.7, 4266360.1, 31.4, 31.4, 0.0);
(516456.5, 4266362.1, 31.3, 31.3, 0.0);
(516430.6, 4266317.2, 31.0, 31.0, 0.0);
(516449.0, 4266320.6, 31.0, 31.0, 0.0);
(516447.6, 4266386.6, 31.9, 31.9, 0.0);
(516477.6, 4266385.3, 31.3, 31.3, 0.0);
(516498.0, 4266403.0, 31.9, 31.9, 0.0);
(516421.1, 4266462.1, 33.0, 33.0, 0.0);
(516421.8, 4266448.5, 33.0, 33.0, 0.0);
(516423.1, 4266433.6, 32.9, 32.9, 0.0);
(516466.0, 4266460.8, 33.0, 33.0, 0.0);
(516466.0, 4266446.5, 33.0, 33.0, 0.0);
(516467.4, 4266429.5, 32.8, 32.8, 0.0);
(516485.7, 4266429.5, 33.1, 33.1, 0.0);
(516502.1, 4266430.2, 33.5, 33.5, 0.0);

```
     ( 516532.0, 4266464.2,      34.0,      34.0,       0.0);
( 516532.7, 4266448.5,      34.0,      34.0,       0.0);
     ( 516532.0, 4266432.9,      33.6,      33.6,       0.0);
( 516459.7, 4266083.4,      31.0,      31.0,       0.0);
     ( 516469.5, 4266083.9,      31.0,      31.0,       0.0);
( 516488.7, 4266088.3,      31.0,      31.0,       0.0);
     ( 516505.4, 4266086.3,      31.0,      31.0,       0.0);
( 516522.6, 4266085.8,      31.0,      31.0,       0.0);
     ( 516541.3, 4266083.9,      31.0,      31.0,       0.0);
( 516559.0, 4266082.9,      31.0,      31.0,       0.0);
     ( 516580.1, 4266085.3,      31.0,      31.0,       0.0);
( 516492.6, 4266039.6,      31.0,      31.0,       0.0);
     ( 516508.8, 4266039.1,      31.0,      31.0,       0.0);
( 516524.1, 4266041.6,      31.0,      31.0,       0.0);
     ( 516542.3, 4266040.6,      31.0,      31.0,       0.0);
( 516557.5, 4266040.6,      31.0,      31.0,       0.0);
     ( 516494.6, 4266014.1,      31.0,      31.0,       0.0);
( 516508.8, 4266014.1,      31.0,      31.0,       0.0);
     ( 516523.6, 4266014.5,      31.0,      31.0,       0.0);
( 516538.3, 4266013.6,      31.0,      31.0,       0.0);
     ( 516555.5, 4266019.5,      31.0,      31.0,       0.0);
( 516557.0, 4266005.2,      31.0,      31.0,       0.0);
     ( 516556.5, 4265990.5,      31.0,      31.0,       0.0);
( 516557.0, 4265972.3,      31.0,      31.0,       0.0);
     ( 516540.3, 4265975.2,      31.0,      31.0,       0.0);
( 516527.5, 4265980.1,      31.0,      31.0,       0.0);
     ( 516509.8, 4265978.7,      31.0,      31.0,       0.0);
( 516499.5, 4265974.2,      30.9,      30.9,       0.0);
     ( 516499.0, 4265951.1,      30.9,      30.9,       0.0);
( 516494.6, 4265938.8,      30.7,      30.7,       0.0);
     ( 516514.2, 4265943.8,      31.0,      31.0,       0.0);
( 516478.0, 4265907.5,      30.1,      30.1,       0.0);
     ( 516492.2, 4265903.3,      30.1,      30.1,       0.0);
( 516506.4, 4265899.1,      30.2,      30.2,       0.0);
     ( 516527.7, 4265937.5,      31.0,      31.0,       0.0);
( 516595.6, 4266084.7,      31.0,      31.0,       0.0);
     ( 516614.8, 4266089.5,      31.0,      31.0,       0.0);
( 516595.6, 4266042.3,      31.0,      31.0,       0.0);
     ( 516598.0, 4266022.3,      31.0,      31.0,       0.0);
( 516601.2, 4266007.9,      31.0,      31.0,       0.0);
     ( 516602.0, 4265991.9,      31.0,      31.0,       0.0);
( 516611.6, 4266045.5,      31.0,      31.0,       0.0);
     ( 516626.0, 4266044.7,      31.0,      31.0,       0.0);
( 515945.3, 4266464.3,      34.9,      34.9,       0.0);
     ( 515926.5, 4266469.0,      34.8,      34.8,       0.0);
( 515921.8, 4266501.9,      35.0,      35.0,       0.0);
     ( 515948.1, 4266423.8,      34.0,      34.0,       0.0);
( 516579.7, 4266256.9,      31.5,      31.5,       0.0);
     ( 516595.2, 4266256.9,      32.0,      32.0,       0.0);
( 516609.3, 4266256.7,      32.0,      32.0,       0.0);
     ( 516630.7, 4266259.5,      32.0,      32.0,       0.0);
( 516647.4, 4266259.5,      32.1,      32.1,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\724957\724957.SFC
Met Version: 14134
Profile file: ..\724957\724957.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23213 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2009 Year: 2009

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
09	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.03	0.74	1.00	0.00	0.	10.0	279.9	2.0
09	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.03	0.74	1.00	0.00	0.	10.0	279.2	2.0
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.03	0.74	1.00	0.00	0.	10.0	279.9	2.0
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.03	0.74	1.00	0.00	0.	10.0	280.4	2.0
09	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.03	0.74	1.00	0.00	0.	10.0	280.4	2.0

```
 09 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.03   0.74   1.00    0.00    0.   10.0  280.4    2.0
 09 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.03   0.74   1.00    0.00    0.   10.0  280.4    2.0
 09 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.03   0.74   1.00    0.00    0.   10.0  280.4    2.0
 09 01 01   1 09 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.03   0.74   0.42    0.00    0.   10.0  280.9    2.0
 09 01 01   1 10   17.5 -9.000 -9.000 -9.000  157. -999. -99999.0
0.03   0.74   0.29    0.00    0.   10.0  282.0    2.0
 09 01 01   1 11   32.5 -9.000 -9.000 -9.000  263. -999. -99999.0
0.03   0.74   0.24    0.00    0.   10.0  283.1    2.0
 09 01 01   1 12   82.0 -9.000 -9.000 -9.000  426. -999. -99999.0
0.03   0.74   0.22    0.00    0.   10.0  284.9    2.0
 09 01 01   1 13   87.8  0.208  1.039  0.016  462.  228.     -9.3
0.03   0.74   0.22    2.36  999.   10.0  285.9    2.0
 09 01 01   1 14   74.7  0.288  1.001  0.015  485.  371.    -28.9
0.05   0.74   0.23    3.36  159.   10.0  285.4    2.0
 09 01 01   1 15   49.4  0.351  0.880  0.015  499.  499.    -79.2
0.05   0.74   0.26    4.36  162.   10.0  283.8    2.0
 09 01 01   1 16   12.7  0.265  0.561  0.015  502.  331.   -132.2
0.05   0.74   0.34    3.36  164.   10.0  282.5    2.0
 09 01 01   1 17   -7.2  0.089 -9.000 -9.000 -999.  102.      8.8
0.05   0.74   0.57    2.36  171.   10.0  281.4    2.0
 09 01 01   1 18   -8.3  0.089 -9.000 -9.000 -999.   64.      7.7
0.05   0.74   1.00    2.36  177.   10.0  279.9    2.0
 09 01 01   1 19   -4.3  0.066 -9.000 -9.000 -999.   41.      6.1
0.05   0.74   1.00    1.76  164.   10.0  278.8    2.0
 09 01 01   1 20  -10.5  0.183 -9.000 -9.000 -999.  188.     52.9
0.05   0.74   1.00    2.86  127.   10.0  278.8    2.0
 09 01 01   1 21   -7.6  0.133 -9.000 -9.000 -999.  117.     27.9
0.05   0.74   1.00    2.36  120.   10.0  278.8    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.03   0.74   1.00    0.00    0.   10.0  278.8    2.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.03   0.74   1.00    0.00    0.   10.0  279.2    2.0
 09 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.03   0.74   1.00    0.00    0.   10.0  279.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1 -999.  -99.00   279.9   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: AREA ***
INCLUDING SOURCE(S):
PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
516122.45	4266263.52	1.16637	516114.09	4266273.28	1.11747
516103.64	4266274.95	0.96027	516092.36	4266274.54	0.80465
516081.50	4266274.54	0.68555	516071.05	4266273.28	0.58599
516061.03	4266274.54	0.51531	516134.56	4266245.71	1.19268
516091.94	4266243.62	0.63457	516109.91	4266245.71	0.82545
516122.44	4266244.87	0.98350	516062.70	4266259.91	0.48124
516085.68	4266203.09	0.45433	516095.29	4266203.09	0.50756
516104.90	4266203.09	0.56872	516114.50	4266203.09	0.63923
516123.70	4266203.09	0.71732	516132.05	4266202.68	0.79629
516141.24	4266203.51	0.90541	516150.43	4266203.09	1.01992
516159.63	4266203.93	1.16594	516167.15	4266200.17	1.24883
516172.16	4266191.40	1.23079	516176.34	4266184.71	1.22733
516180.93	4266177.61	1.22752	516063.53	4266183.46	0.32373
516073.14	4266183.87	0.35789	516081.50	4266183.87	0.39069
516089.85	4266183.87	0.42728	516099.05	4266184.29	0.47383
516106.57	4266184.71	0.51693	516114.09	4266183.87	0.56061
516122.86	4266184.71	0.62481	516129.54	4266184.71	0.67706

```
         516137.48    4266184.71        0.74649
516143.75    4266184.71        0.80769
         516151.27    4266184.29        0.88267
516024.26    4266277.46        0.32902
         516023.43    4266267.85        0.31130
516023.84    4266259.08        0.30034
         516023.84    4266249.47        0.28769
516023.43    4266239.86        0.27475
         516023.43    4266232.76        0.26663
516023.43    4266222.73        0.25585
         516023.84    4266213.12        0.24718
516023.84    4266204.35        0.23888
         516023.43    4266196.83        0.23128
516023.43    4266188.89        0.22460
         516024.26    4266180.95        0.21991
516023.84    4266173.85        0.21367
         515997.94    4266272.86        0.24163
515995.85    4266254.90        0.22087
         515994.60    4266235.68        0.20372
515994.18    4266216.46        0.19019
         515995.85    4266200.17        0.18315
515998.78    4266182.20        0.17759
         516063.95    4266332.61        0.82598
516078.57    4266314.64        0.90510
         516062.28    4266315.06        0.69645
516019.25    4266313.81        0.37316
         515990.42    4266315.06        0.26488
516022.59    4266329.27        0.42566
         516021.75    4266350.57        0.48088
516023.84    4266362.27        0.53766
         515992.93    4266364.36        0.34915
515995.85    4266349.74        0.33510
         515997.52    4266335.12        0.31728
515987.25    4266578.77        1.66124
         515986.57    4266608.70        1.16387
516013.78    4266579.45        2.18352
         516049.84    4266584.89        1.91213
516067.53    4266578.77        1.96126
         516078.07    4266539.82        2.81417
516047.43    4266502.23        3.11810
         516063.04    4266496.45        3.73926
516086.75    4266509.75        4.03329
         516098.31    4266510.90        4.16986
516097.74    4266531.72        3.25863
         516113.18    4266501.46        4.79022
516115.89    4266543.72        2.94342

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: AREA ***
INCLUDING SOURCE(S):
PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
516150.61	4266535.57	3.21597	516102.61	4266586.89	1.87555
516132.19	4266585.99	1.91947	516193.78	4266507.20	3.32027
516134.91	4266500.56	5.00151	516202.83	4266464.64	3.95194
516214.30	4266464.64	3.59580	516212.19	4266446.22	4.17779
516206.76	4266435.96	4.75377	516215.81	4266402.75	5.59165
516219.13	4266420.26	4.91263	516151.62	4266586.71	1.87916
516194.41	4266583.82	1.70744	516263.94	4266379.14	4.22241
516263.94	4266358.05	4.82806	516263.94	4266330.84	5.79644
516278.91	4266309.75	6.31273	516295.92	4266311.11	6.24973
516321.09	4266313.15	6.18758	516348.31	4266313.15	6.13950
516308.17	4266384.59	3.46087	516333.34	4266383.22	3.33627
516306.12	4266360.77	4.18655	516325.17	4266351.93	4.43487
516363.27	4266358.73	3.99710	516361.23	4266381.86	3.22125
516401.37	4266315.19	5.48749	516384.36	4266384.59	2.97717
516408.18	4266385.95	2.69959	516389.81	4266360.77	3.69342
516409.54	4266359.41	3.45999	516434.71	4266360.09	2.94760

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         516456.48    4266362.13        2.36197
516430.63    4266317.23        4.65490
         516449.00    4266320.63        3.70740
516447.64    4266386.63        2.10746
         516477.57    4266385.27        1.60636
516497.98    4266402.95        1.20115
         516421.10    4266462.15        1.45454
516421.78    4266448.54        1.57832
         516423.14    4266433.57        1.73191
516466.01    4266460.78        1.14820
         516466.01    4266446.50        1.23987
516467.37    4266429.49        1.35194
         516485.74    4266429.49        1.17223
516502.07    4266430.17        1.02371
         516532.00    4266464.19        0.71397
516532.68    4266448.54        0.75079
         516532.00    4266432.89        0.79810
516459.68    4266083.37        2.71771
         516469.51    4266083.86        2.37205
516488.68    4266088.28        1.86223
         516505.40    4266086.32        1.50770
516522.60    4266085.83        1.22982
         516541.28    4266083.86        0.99600
516558.98    4266082.88        0.82677
         516580.12    4266085.33        0.67329
516492.62    4266039.62        1.58149
         516508.84    4266039.13        1.31375
516524.08    4266041.58        1.12216
         516542.27    4266040.60        0.93127
516557.50    4266040.60        0.80370
         516494.58    4266014.06        1.43882
516508.84    4266014.06        1.23570
         516523.59    4266014.55        1.06632
516538.33    4266013.57        0.92400
         516555.54    4266019.46        0.79572
516557.01    4266005.21        0.77008
         516556.52    4265990.46        0.75857
516557.01    4265972.27        0.73952
         516540.30    4265975.22        0.85189
516527.52    4265980.14        0.95886
         516509.82    4265978.66        1.12277
516499.50    4265974.24        1.22298
         516499.01    4265951.14        1.16314
516494.58    4265938.85        1.17197
         516514.25    4265943.76        1.00550
516478.00    4265907.45        1.19655
         516492.21    4265903.27        1.06292
516506.41    4265899.09        0.94913

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
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*** THE ANNUAL AVERAGE CONCENTRATION   VALUES AVERAGED OVER   5 YEARS FOR SOURCE GROUP: AREA   ***
INCLUDING SOURCE(S):
PAREA1   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM   IN MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
516527.71	4265937.53	0.89169	516595.64	4266084.72	0.58386
516614.84	4266089.52	0.49545	516595.64	4266042.30	0.57188
516598.04	4266022.29	0.55337	516601.24	4266007.89	0.53473
516602.04	4265991.88	0.52706	516611.64	4266045.50	0.50176
516626.05	4266044.70	0.44758	515945.31	4266464.28	0.31788
515926.48	4266468.98	0.25560	515921.78	4266501.94	0.28621
515948.14	4266423.79	0.26568	516579.70	4266256.89	0.69510
516595.22	4266256.89	0.60442	516609.32	4266256.70	0.53483
516630.68	4266259.49	0.45138	516647.41	4266259.49	0.39828
516641.83	4266238.12	0.40733	516624.18	4266236.26	0.46630
516601.88	4266234.41	0.56151	516580.51	4266234.41	0.68113
516586.09	4266209.32	0.64227	516601.88	4266213.04	0.55708
516620.46	4266214.90	0.47571	516638.12	4266213.04	0.41338

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: LINE *** INCLUDING SOURCE(S):

L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
516122.45	4266263.52	0.00000	516114.09	4266273.28	0.00000
516103.64	4266274.95	0.00000	516092.36	4266274.54	0.00000
516081.50	4266274.54	0.00000	516071.05	4266273.28	0.00000
516061.03	4266274.54	0.00000	516134.56	4266245.71	0.00000
516091.94	4266243.62	0.00000	516109.91	4266245.71	0.00000
516122.44	4266244.87	0.00000	516062.70	4266259.91	0.00000
516085.68	4266203.09	0.00000	516095.29	4266203.09	0.00000
516104.90	4266203.09	0.00000	516114.50	4266203.09	0.00000
516123.70	4266203.09	0.00000	516132.05	4266202.68	0.00000
516141.24	4266203.51	0.00000	516150.43	4266203.09	0.00000
516159.63	4266203.93	0.00000	516167.15	4266200.17	0.00000
516172.16	4266191.40	0.00000	516176.34	4266184.71	0.00000
516180.93	4266177.61	0.00000	516063.53	4266183.46	0.00000

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         516073.14    4266183.87        0.00000
516081.50    4266183.87        0.00000
         516089.85    4266183.87        0.00000
516099.05    4266184.29        0.00000
         516106.57    4266184.71        0.00000
516114.09    4266183.87        0.00000
         516122.86    4266184.71        0.00000
516129.54    4266184.71        0.00000
         516137.48    4266184.71        0.00000
516143.75    4266184.71        0.00000
         516151.27    4266184.29        0.00000
516024.26    4266277.46        0.00000
         516023.43    4266267.85        0.00000
516023.84    4266259.08        0.00000
         516023.84    4266249.47        0.00000
516023.43    4266239.86        0.00000
         516023.43    4266232.76        0.00000
516023.43    4266222.73        0.00000
         516023.84    4266213.12        0.00000
516023.84    4266204.35        0.00000
         516023.43    4266196.83        0.00000
516023.43    4266188.89        0.00000
         516024.26    4266180.95        0.00000
516023.84    4266173.85        0.00000
         515997.94    4266272.86        0.00000
515995.85    4266254.90        0.00000
         515994.60    4266235.68        0.00000
515994.18    4266216.46        0.00000
         515995.85    4266200.17        0.00000
515998.78    4266182.20        0.00000
         516063.95    4266332.61        0.00000
516078.57    4266314.64        0.00000
         516062.28    4266315.06        0.00000
516019.25    4266313.81        0.00000
         515990.42    4266315.06        0.00000
516022.59    4266329.27        0.00000
         516021.75    4266350.57        0.00000
516023.84    4266362.27        0.00000
         515992.93    4266364.36        0.00000
515995.85    4266349.74        0.00000
         515997.52    4266335.12        0.00000
515987.25    4266578.77        0.00000
         515986.57    4266608.70        0.00000
516013.78    4266579.45        0.00000
         516049.84    4266584.89        0.00000
516067.53    4266578.77        0.00001
         516078.07    4266539.82        0.00001
516047.43    4266502.23        0.00000
         516063.04    4266496.45        0.00000
516086.75    4266509.75        0.00001
         516098.31    4266510.90        0.00001
516097.74    4266531.72        0.00001
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: LINE ***
INCLUDING SOURCE(S):
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
516150.61	4266535.57	0.00002	516102.61	4266586.89	0.00001
516132.19	4266585.99	0.00001	516193.78	4266507.20	0.00006
516134.91	4266500.56	0.00001	516202.83	4266464.64	0.00007
516214.30	4266464.64	0.00013	516212.19	4266446.22	0.00010
516206.76	4266435.96	0.00007	516215.81	4266402.75	0.00005
516219.13	4266420.26	0.00009	516151.62	4266586.71	0.00002
516194.41	4266583.82	0.00006	516263.94	4266379.14	0.00006
516263.94	4266358.05	0.00004	516263.94	4266330.84	0.00002
516278.91	4266309.75	0.00002	516295.92	4266311.11	0.00002
516321.09	4266313.15	0.00002	516348.31	4266313.15	0.00002

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         516308.17    4266384.59        0.00003
516333.34    4266383.22        0.00003
         516306.12    4266360.77        0.00003
516325.17    4266351.93        0.00002
         516363.27    4266358.73        0.00002
516361.23    4266381.86        0.00002
         516401.37    4266315.19        0.00001
516384.36    4266384.59        0.00002
         516408.18    4266385.95        0.00002
516389.81    4266360.77        0.00002
         516409.54    4266359.41        0.00002
516434.71    4266360.09        0.00002
         516456.48    4266362.13        0.00002
516430.63    4266317.23        0.00001
         516449.00    4266320.63        0.00001
516447.64    4266386.63        0.00002
         516477.57    4266385.27        0.00002
516497.98    4266402.95        0.00002
         516421.10    4266462.15        0.00003
516421.78    4266448.54        0.00003
         516423.14    4266433.57        0.00003
516466.01    4266460.78        0.00003
         516466.01    4266446.50        0.00003
516467.37    4266429.49        0.00002
         516485.74    4266429.49        0.00002
516502.07    4266430.17        0.00002
         516532.00    4266464.19        0.00003
516532.68    4266448.54        0.00003
         516532.00    4266432.89        0.00002
516459.68    4266083.37        0.00001
         516469.51    4266083.86        0.00001
516488.68    4266088.28        0.00001
         516505.40    4266086.32        0.00001
516522.60    4266085.83        0.00001
         516541.28    4266083.86        0.00001
516558.98    4266082.88        0.00000
         516580.12    4266085.33        0.00000
516492.62    4266039.62        0.00000
         516508.84    4266039.13        0.00000
516524.08    4266041.58        0.00000
         516542.27    4266040.60        0.00000
516557.50    4266040.60        0.00000
         516494.58    4266014.06        0.00000
516508.84    4266014.06        0.00000
         516523.59    4266014.55        0.00000
516538.33    4266013.57        0.00000
         516555.54    4266019.46        0.00000
516557.01    4266005.21        0.00000
         516556.52    4265990.46        0.00000
516557.01    4265972.27        0.00000
         516540.30    4265975.22        0.00000
516527.52    4265980.14        0.00000
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         516509.82    4265978.66        0.00000
516499.50    4265974.24        0.00000
         516499.01    4265951.14        0.00000
516494.58    4265938.85        0.00000
         516514.25    4265943.76        0.00000
516478.00    4265907.45        0.00000
         516492.21    4265903.27        0.00000
516506.41    4265899.09        0.00000

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                          ** CONC OF DPM      IN
MICROGRAMS/M**3                            **

       X-COORD (M)   Y-COORD (M)        CONC                        X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         516527.71    4265937.53        0.00000
516595.64    4266084.72        0.00000
         516614.84    4266089.52        0.00000
516595.64    4266042.30        0.00000
         516598.04    4266022.29        0.00000
516601.24    4266007.89        0.00000
         516602.04    4265991.88        0.00000
516611.64    4266045.50        0.00000
         516626.05    4266044.70        0.00000
515945.31    4266464.28        0.00000
         515926.48    4266468.98        0.00000
515921.78    4266501.94        0.00000
         515948.14    4266423.79        0.00000
516579.70    4266256.89        0.00001
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         516595.22    4266256.89        0.00001
516609.32    4266256.70        0.00001
         516630.68    4266259.49        0.00001
516647.41    4266259.49        0.00001
         516641.83    4266238.12        0.00001
516624.18    4266236.26        0.00001
         516601.88    4266234.41        0.00001
516580.51    4266234.41        0.00001
         516586.09    4266209.32        0.00001
516601.88    4266213.04        0.00001
         516620.46    4266214.90        0.00001
516638.12    4266213.04        0.00001

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
                L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
                L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                       *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                      ** CONC OF DPM      IN
MICROGRAMS/M**3                        **

       X-COORD (M)   Y-COORD (M)        CONC                      X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         516122.45    4266263.52        1.16638
516114.09    4266273.28        1.11747
         516103.64    4266274.95        0.96027
516092.36    4266274.54        0.80465
         516081.50    4266274.54        0.68555
516071.05    4266273.28        0.58599
         516061.03    4266274.54        0.51531
516134.56    4266245.71        1.19268
         516091.94    4266243.62        0.63457
516109.91    4266245.71        0.82545
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         516122.44    4266244.87        0.98351
516062.70    4266259.91        0.48124
         516085.68    4266203.09        0.45434
516095.29    4266203.09        0.50756
         516104.90    4266203.09        0.56872
516114.50    4266203.09        0.63923
         516123.70    4266203.09        0.71732
516132.05    4266202.68        0.79630
         516141.24    4266203.51        0.90541
516150.43    4266203.09        1.01992
         516159.63    4266203.93        1.16595
516167.15    4266200.17        1.24884
         516172.16    4266191.40        1.23080
516176.34    4266184.71        1.22733
         516180.93    4266177.61        1.22753
516063.53    4266183.46        0.32373
         516073.14    4266183.87        0.35790
516081.50    4266183.87        0.39069
         516089.85    4266183.87        0.42728
516099.05    4266184.29        0.47383
         516106.57    4266184.71        0.51693
516114.09    4266183.87        0.56061
         516122.86    4266184.71        0.62481
516129.54    4266184.71        0.67707
         516137.48    4266184.71        0.74649
516143.75    4266184.71        0.80769
         516151.27    4266184.29        0.88267
516024.26    4266277.46        0.32903
         516023.43    4266267.85        0.31130
516023.84    4266259.08        0.30034
         516023.84    4266249.47        0.28769
516023.43    4266239.86        0.27475
         516023.43    4266232.76        0.26663
516023.43    4266222.73        0.25585
         516023.84    4266213.12        0.24718
516023.84    4266204.35        0.23888
         516023.43    4266196.83        0.23128
516023.43    4266188.89        0.22460
         516024.26    4266180.95        0.21991
516023.84    4266173.85        0.21367
         515997.94    4266272.86        0.24163
515995.85    4266254.90        0.22087
         515994.60    4266235.68        0.20372
515994.18    4266216.46        0.19019
         515995.85    4266200.17        0.18316
515998.78    4266182.20        0.17759
         516063.95    4266332.61        0.82598
516078.57    4266314.64        0.90510
         516062.28    4266315.06        0.69645
516019.25    4266313.81        0.37316
         515990.42    4266315.06        0.26489
516022.59    4266329.27        0.42566
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         516021.75    4266350.57        0.48088
516023.84    4266362.27        0.53766
         515992.93    4266364.36        0.34915
515995.85    4266349.74        0.33511
         515997.52    4266335.12        0.31728
515987.25    4266578.77        1.66125
         515986.57    4266608.70        1.16387
516013.78    4266579.45        2.18353
         516049.84    4266584.89        1.91213
516067.53    4266578.77        1.96127
         516078.07    4266539.82        2.81418
516047.43    4266502.23        3.11810
         516063.04    4266496.45        3.73926
516086.75    4266509.75        4.03330
         516098.31    4266510.90        4.16986
516097.74    4266531.72        3.25863
         516113.18    4266501.46        4.79023
516115.89    4266543.72        2.94343

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
               L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
               L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
               L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                          *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                        ** CONC OF DPM      IN
MICROGRAMS/M**3                          **

       X-COORD (M)   Y-COORD (M)        CONC                        X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         516150.61    4266535.57        3.21599
516102.61    4266586.89        1.87556
         516132.19    4266585.99        1.91948
516193.78    4266507.20        3.32033
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         516134.91    4266500.56        5.00152
516202.83    4266464.64        3.95201
         516214.30    4266464.64        3.59592
516212.19    4266446.22        4.17789
         516206.76    4266435.96        4.75383
516215.81    4266402.75        5.59170
         516219.13    4266420.26        4.91273
516151.62    4266586.71        1.87918
         516194.41    4266583.82        1.70750
516263.94    4266379.14        4.22247
         516263.94    4266358.05        4.82810
516263.94    4266330.84        5.79646
         516278.91    4266309.75        6.31275
516295.92    4266311.11        6.24975
         516321.09    4266313.15        6.18760
516348.31    4266313.15        6.13952
         516308.17    4266384.59        3.46090
516333.34    4266383.22        3.33630
         516306.12    4266360.77        4.18658
516325.17    4266351.93        4.43489
         516363.27    4266358.73        3.99711
516361.23    4266381.86        3.22127
         516401.37    4266315.19        5.48751
516384.36    4266384.59        2.97719
         516408.18    4266385.95        2.69961
516389.81    4266360.77        3.69343
         516409.54    4266359.41        3.46001
516434.71    4266360.09        2.94762
         516456.48    4266362.13        2.36199
516430.63    4266317.23        4.65492
         516449.00    4266320.63        3.70741
516447.64    4266386.63        2.10748
         516477.57    4266385.27        1.60638
516497.98    4266402.95        1.20117
         516421.10    4266462.15        1.45457
516421.78    4266448.54        1.57835
         516423.14    4266433.57        1.73193
516466.01    4266460.78        1.14823
         516466.01    4266446.50        1.23990
516467.37    4266429.49        1.35196
         516485.74    4266429.49        1.17226
516502.07    4266430.17        1.02374
         516532.00    4266464.19        0.71400
516532.68    4266448.54        0.75081
         516532.00    4266432.89        0.79813
516459.68    4266083.37        2.71771
         516469.51    4266083.86        2.37206
516488.68    4266088.28        1.86223
         516505.40    4266086.32        1.50770
516522.60    4266085.83        1.22983
         516541.28    4266083.86        0.99600
516558.98    4266082.88        0.82678
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         516580.12    4266085.33        0.67329
516492.62    4266039.62        1.58149
         516508.84    4266039.13        1.31375
516524.08    4266041.58        1.12216
         516542.27    4266040.60        0.93127
516557.50    4266040.60        0.80370
         516494.58    4266014.06        1.43882
516508.84    4266014.06        1.23570
         516523.59    4266014.55        1.06632
516538.33    4266013.57        0.92400
         516555.54    4266019.46        0.79572
516557.01    4266005.21        0.77008
         516556.52    4265990.46        0.75858
516557.01    4265972.27        0.73952
         516540.30    4265975.22        0.85190
516527.52    4265980.14        0.95886
         516509.82    4265978.66        1.12278
516499.50    4265974.24        1.22299
         516499.01    4265951.14        1.16314
516494.58    4265938.85        1.17197
         516514.25    4265943.76        1.00551
516478.00    4265907.45        1.19655
         516492.21    4265903.27        1.06292
516506.41    4265899.09        0.94913

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
                L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
                L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                         ** CONC OF DPM      IN
MICROGRAMS/M**3                           **

       X-COORD (M)   Y-COORD (M)        CONC                        X-
COORD (M)   Y-COORD (M)        CONC
```

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         516527.71    4265937.53        0.89169
516595.64    4266084.72        0.58387
         516614.84    4266089.52        0.49545
516595.64    4266042.30        0.57188
         516598.04    4266022.29        0.55337
516601.24    4266007.89        0.53473
         516602.04    4265991.88        0.52707
516611.64    4266045.50        0.50176
         516626.05    4266044.70        0.44758
515945.31    4266464.28        0.31788
         515926.48    4266468.98        0.25560
515921.78    4266501.94        0.28621
         515948.14    4266423.79        0.26568
516579.70    4266256.89        0.69511
         516595.22    4266256.89        0.60443
516609.32    4266256.70        0.53484
         516630.68    4266259.49        0.45139
516647.41    4266259.49        0.39829
         516641.83    4266238.12        0.40734
516624.18    4266236.26        0.46631
         516601.88    4266234.41        0.56152
516580.51    4266234.41        0.68114
         516586.09    4266209.32        0.64227
516601.88    4266213.04        0.55708
         516620.46    4266214.90        0.47571
516638.12    4266213.04        0.41338

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
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PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                   *** THE SUMMARY OF MAXIMUM ANNUAL
RESULTS AVERAGED OVER   5 YEARS ***


                                    ** CONC OF DPM      IN
MICROGRAMS/M**3                          **


NETWORK
GROUP ID                        AVERAGE CONC                RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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AREA      1ST HIGHEST VALUE IS       6.31273 AT (  516278.91,
4266309.75,    32.00,    32.00,    0.00)  DC
          2ND HIGHEST VALUE IS       6.24973 AT (  516295.92,
4266311.11,    32.00,    32.00,    0.00)  DC
          3RD HIGHEST VALUE IS       6.18758 AT (  516321.09,
4266313.15,    32.00,    32.00,    0.00)  DC
          4TH HIGHEST VALUE IS       6.13950 AT (  516348.31,
4266313.15,    32.00,    32.00,    0.00)  DC
          5TH HIGHEST VALUE IS       5.79644 AT (  516263.94,
4266330.84,    32.46,    32.46,    0.00)  DC
          6TH HIGHEST VALUE IS       5.59165 AT (  516215.81,
4266402.75,    33.00,    33.00,    0.00)  DC
          7TH HIGHEST VALUE IS       5.48749 AT (  516401.37,
4266315.19,    31.00,    31.00,    0.00)  DC
          8TH HIGHEST VALUE IS       5.00151 AT (  516134.91,
4266500.56,    34.00,    34.00,    0.00)  DC
          9TH HIGHEST VALUE IS       4.91263 AT (  516219.13,
4266420.26,    33.22,    33.22,    0.00)  DC
         10TH HIGHEST VALUE IS       4.82806 AT (  516263.94,
4266358.05,    32.99,    32.99,    0.00)  DC

LINE      1ST HIGHEST VALUE IS       0.00013 AT (  516214.30,
4266464.64,    33.97,    33.97,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00010 AT (  516212.19,
4266446.22,    33.80,    33.80,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00009 AT (  516219.13,
4266420.26,    33.22,    33.22,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00007 AT (  516202.83,
4266464.64,    34.00,    34.00,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00007 AT (  516206.76,
4266435.96,    33.87,    33.87,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00006 AT (  516193.78,
4266507.20,    34.00,    34.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00006 AT (  516194.41,
4266583.82,    34.90,    34.90,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00006 AT (  516263.94,
4266379.14,    33.00,    33.00,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00005 AT (  516215.81,
4266402.75,    33.00,    33.00,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00004 AT (  516263.94,
4266358.05,    32.99,    32.99,    0.00)  DC

ALL       1ST HIGHEST VALUE IS       6.31275 AT (  516278.91,
4266309.75,    32.00,    32.00,    0.00)  DC
          2ND HIGHEST VALUE IS       6.24975 AT (  516295.92,
4266311.11,    32.00,    32.00,    0.00)  DC
          3RD HIGHEST VALUE IS       6.18760 AT (  516321.09,
4266313.15,    32.00,    32.00,    0.00)  DC
          4TH HIGHEST VALUE IS       6.13952 AT (  516348.31,
4266313.15,    32.00,    32.00,    0.00)  DC
          5TH HIGHEST VALUE IS       5.79646 AT (  516263.94,
4266330.84,    32.46,    32.46,    0.00)  DC
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          6TH HIGHEST VALUE IS       5.59170 AT (  516215.81,
4266402.75,    33.00,    33.00,    0.00)  DC
          7TH HIGHEST VALUE IS       5.48751 AT (  516401.37,
4266315.19,    31.00,    31.00,    0.00)  DC
          8TH HIGHEST VALUE IS       5.00152 AT (  516134.91,
4266500.56,    34.00,    34.00,    0.00)  DC
          9TH HIGHEST VALUE IS       4.91273 AT (  516219.13,
4266420.26,    33.22,    33.22,    0.00)  DC
         10TH HIGHEST VALUE IS       4.82810 AT (  516263.94,
4266358.05,    32.99,    32.99,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 16216r ***   *** C:\Users\xli\Desktop\3249.0010
Mill Creek\construction HRA\construct ***        02/23/18
 *** AERMET - VERSION  14134 ***   ***
***        16:29:14

PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of        18866 Informational Message(s)

 A Total of        43872 Hours Were Processed

 A Total of        16971 Calm Hours Identified

 A Total of         1895 Missing Hours Identified (  4.32 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 CO W320      22       URBOPT: Input Parameter May Be Out-of-Range for
Parameter       URB-POP
 MX W481   43873         MAIN: Data Remaining After End of Year.
Number of Hours=           48

    ***********************************
    *** AERMOD Finishes Successfully ***
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