Appendix C:
Air Quality and Greenhouse Gas Supporting Information

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AQ/GHG APPENDIX DATA

Alves Ranch w/ project design feature

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.89	Acre	3.89	169,448.40	0
Other Non-Asphalt Surfaces	9.18	Acre	9.18	399,880.80	0
Parking Lot	710.00	Space	6.39	284,000.00	0
Single Family Housing	346.00	Dwelling Unit	24.43	576,874.00	990
Regional Shopping Center	100.00	1000sqft	2.30	100,000.00	0
Supermarket	40.00	1000sqft	0.92	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Alves Ranch w/ project design feature - Contra Costa County, Annual

Project Characteristics - CO2 intensity factor in compliance with RPS

Land Use - Total acreage: 47.11; square footage for accessory dwelling units are included in the SF units, assuming maximum 1,200 sf size; Other non-asphalt surfaces: storm drainage; other asphalt surfaces: traffic circulation

Construction Phase - Building construction phase duration reduced to be consistent with a 2021 operational year; Architectural coating duration increased to accomodate buildings being constructed in batches

Off-road Equipment -

Grading - Based on information provided by William Lyon Homes

Vehicle Trips - Based on traffic study provided by Fehr & Peers; includes credit for pass-by trips and transit use trip reduction

Woodstoves - No woodburning devices

Energy Use -

Construction Off-road Equipment Mitigation - Tier 3 Mitigation

Energy Mitigation - Solar power generation estimated from the California 2019 Building Energy Efficiency Standards and the U.S Dept. of Energy,Energy Efficiency and Renewable Energy Consumer Guide

Water Mitigation -

Waste Mitigation - AB 341

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

Alves Ranch w/ project design feature - Contra Costa County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	384.00
tblConstructionPhase	NumDays	740.00	370.00
tblFireplaces	NumberGas	86.50	346.00
tblFireplaces	NumberNoFireplace	27.68	0.00
tblFireplaces	NumberWood	148.78	0.00
tblGrading	AcresOfGrading	187.50	38.00
tblGrading	MaterialImported	0.00	6,400.00
tblLandUse	LandUseSquareFeet	622,800.00	576,874.00
tblLandUse	LotAcreage	112.34	24.43
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblVehicleTrips	ST_TR	49.97	25.00
tblVehicleTrips	ST_TR	9.91	9.10
tblVehicleTrips	ST_TR	177.59	68.25

tblVehicleTrips	SU_TR	25.24	25.00
tblVehicleTrips	SU_TR	8.62	9.10
tblVehicleTrips	SU_TR	166.44	68.25
tblVehicleTrips	WD_TR	42.70	25.00
tblVehicleTrips	WD_TR	9.52	9.10
tblVehicleTrips	WD_TR	102.24	68.25
tblWoodstoves	NumberCatalytic	13.84	0.00
tblWoodstoves	NumberNoncatalytic	13.84	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	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	0.3718	3.9574	2.5219	6.1100e-003	0.6564	0.1609	0.8173	0.3131	0.1489	0.4619	0.0000	557.3482	557.3482	0.1060	0.0000	559.9986
2020	2.2386	5.6794	4.8881	0.0162	0.7418	0.1718	0.9136	0.2011	0.1621	0.3632	0.0000	1,481.0292	1,481.0292	0.1198	0.0000	1,484.0250
2021	3.6009	1.7535	1.9628	5.5700e-003	0.2686	0.0630	0.3315	0.0723	0.0595	0.1319	0.0000	504.9527	504.9527	0.0486	0.0000	506.1673
Maximum	**3.6009**	**5.6794**	**4.8881**	**0.0162**	**0.7418**	**0.1718**	**0.9136**	**0.3131**	**0.1621**	**0.4619**	**0.0000**	**1,481.0292**	**1,481.0292**	**0.1198**	**0.0000**	**1,484.0250**

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	0.1605	2.4785	2.6775	6.1100e-003	0.3408	0.0896	0.4304	0.1451	0.0893	0.2344	0.0000	557.3478	557.3478	0.1060	0.0000	559.9983
2020	2.0378	5.0094	5.0224	0.0162	0.7418	0.1429	0.8847	0.2011	0.1419	0.3430	0.0000	1,481.0289	1,481.0289	0.1198	0.0000	1,484.0247
2021	3.5236	1.5890	2.0770	5.5700e-003	0.2686	0.0595	0.3281	0.0723	0.0594	0.1317	0.0000	504.9525	504.9525	0.0486	0.0000	506.1671
Maximum	**3.5236**	**5.0094**	**5.0224**	**0.0162**	**0.7418**	**0.1429**	**0.8847**	**0.2011**	**0.1419**	**0.3430**	**0.0000**	**1,481.0289**	**1,481.0289**	**0.1198**	**0.0000**	**1,484.0247**

Alves Ranch w/ project design feature - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.88**	**20.31**	**-4.31**	**0.00**	**18.93**	**26.22**	**20.33**	**28.64**	**21.58**	**25.90**	**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	**6-1-2019**	**8-31-2019**	1.8707	0.9263
2	**9-1-2019**	**11-30-2019**	1.9073	1.2522
3	**12-1-2019**	**2-29-2020**	1.5947	1.3629
4	**3-1-2020**	**5-31-2020**	1.5428	1.3323
5	**6-1-2020**	**8-31-2020**	2.0629	1.8429
6	**9-1-2020**	**11-30-2020**	2.4544	2.2297
7	**12-1-2020**	**2-28-2021**	2.3321	2.1552
8	**3-1-2021**	**5-31-2021**	1.3208	1.2689
9	**6-1-2021**	**8-31-2021**	0.9235	0.9127
10	**9-1-2021**	**9-30-2021**	0.3011	0.2976
		Highest	2.4544	2.2297

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	3.4339	0.0671	2.5985	3.7000e-004		0.0172	0.0172		0.0172	0.0172	0.0000	47.4064	47.4064	4.9400e-003	7.9000e-004	47.7658
Energy	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	1,848.1280	1,848.1280	0.0852	0.0262	1,858.0708
Mobile	2.0643	8.8466	21.0845	0.0659	5.5126	0.0585	5.5711	1.4793	0.0547	1.5339	0.0000	6,036.2275	6,036.2275	0.2427	0.0000	6,042.2955
Waste						0.0000	0.0000		0.0000	0.0000	151.5125	0.0000	151.5125	8.9541	0.0000	375.3657
Water						0.0000	0.0000		0.0000	0.0000	11.0662	56.8468	67.9130	1.1400	0.0275	104.6164
Total	**5.5586**	**9.4327**	**23.9269**	**0.0696**	**5.5126**	**0.1174**	**5.6300**	**1.4793**	**0.1136**	**1.5929**	**162.5787**	**7,988.6086**	**8,151.1873**	**10.4270**	**0.0545**	**8,428.1142**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4339	0.0671	2.5985	3.7000e-004		0.0172	0.0172		0.0172	0.0172	0.0000	47.4064	47.4064	4.9400e-003	7.9000e-004	47.7658
Energy	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	1,508.7792	1,508.7792	0.0652	0.0221	1,516.9876
Mobile	2.0643	8.8466	21.0845	0.0659	5.5126	0.0585	5.5711	1.4793	0.0547	1.5339	0.0000	6,036.2275	6,036.2275	0.2427	0.0000	6,042.2955
Waste						0.0000	0.0000		0.0000	0.0000	37.8781	0.0000	37.8781	2.2385	0.0000	93.8414
Water						0.0000	0.0000		0.0000	0.0000	8.8530	48.4285	57.2815	0.9121	0.0221	86.6593
Total	**5.5586**	**9.4327**	**23.9269**	**0.0696**	**5.5126**	**0.1174**	**5.6300**	**1.4793**	**0.1136**	**1.5929**	**46.7311**	**7,640.8416**	**7,687.5727**	**3.4635**	**0.0449**	**7,787.5496**

	ROG	NOx	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**71.26**	**4.35**	**5.69**	**66.78**	**17.64**	**7.60**

3.0 Construction Detail

Construction Phase

Alves Ranch w/ project design feature - Contra Costa County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2019	7/12/2019	5	30	
2	Grading	Grading	7/13/2019	10/25/2019	5	75	
3	Building Construction	Building Construction	10/26/2019	3/26/2021	5	370	
4	Architectural Coating	Architectural Coating	7/11/2020	12/30/2021	5	384	
5	Paving	Paving	10/15/2021	12/30/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38

Acres of Paving: 19.46

Residential Indoor: 1,168,170; Residential Outdoor: 389,390; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000; Striped Parking Area: 48,286 (Architectural Coating – sqft)

OffRoad Equipment

Alves Ranch w/ project design feature - Contra Costa County, Annual

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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

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	800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	507.00	192.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	101.00	0.00	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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0650	0.6836	0.3310	5.7000e-004		0.0359	0.0359		0.0330	0.0330	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	**0.0650**	**0.6836**	**0.3310**	**5.7000e-004**	**0.2710**	**0.0359**	**0.3069**	**0.1490**	**0.0330**	**0.1820**	**0.0000**	**51.2530**	**51.2530**	**0.0162**	**0.0000**	**51.6584**

3.2 Site Preparation - 2019

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	9.9000e-004	7.4000e-004	7.5900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.9403	1.9403	5.0000e-005	0.0000	1.9417
Total	**9.9000e-004**	**7.4000e-004**	**7.5900e-003**	**2.0000e-005**	**2.1400e-003**	**1.0000e-005**	**2.1600e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.9403**	**1.9403**	**5.0000e-005**	**0.0000**	**1.9417**

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					0.1057	0.0000	0.1057	0.0581	0.0000	0.0581	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.2860	0.3444	5.7000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	**0.0140**	**0.2860**	**0.3444**	**5.7000e-004**	**0.1057**	**0.0142**	**0.1199**	**0.0581**	**0.0142**	**0.0723**	**0.0000**	**51.2530**	**51.2530**	**0.0162**	**0.0000**	**51.6584**

3.2 Site Preparation - 2019

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	9.9000e-004	7.4000e-004	7.5900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.9403	1.9403	5.0000e-005	0.0000	1.9417
Total	**9.9000e-004**	**7.4000e-004**	**7.5900e-003**	**2.0000e-005**	**2.1400e-003**	**1.0000e-005**	**2.1600e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.9403**	**1.9403**	**5.0000e-005**	**0.0000**	**1.9417**

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					0.2463	0.0000	0.2463	0.1264	0.0000	0.1264	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1777	2.0445	1.2516	2.3300e-003		0.0894	0.0894		0.0822	0.0822	0.0000	208.8800	208.8800	0.0661	0.0000	210.5321
Total	**0.1777**	**2.0445**	**1.2516**	**2.3300e-003**	**0.2463**	**0.0894**	**0.3357**	**0.1264**	**0.0822**	**0.2086**	**0.0000**	**208.8800**	**208.8800**	**0.0661**	**0.0000**	**210.5321**

3.3 Grading - 2019

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	3.6300e-003	0.1245	0.0228	3.2000e-004	6.7800e-003	4.9000e-004	7.2700e-003	1.8600e-003	4.7000e-004	2.3300e-003	0.0000	30.6355	30.6355	1.4100e-003	0.0000	30.6708
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	2.7600e-003	2.0600e-003	0.0211	6.0000e-005	5.9500e-003	4.0000e-005	5.9900e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.3898	5.3898	1.5000e-004	0.0000	5.3935
Total	**6.3900e-003**	**0.1266**	**0.0439**	**3.8000e-004**	**0.0127**	**5.3000e-004**	**0.0133**	**3.4400e-003**	**5.1000e-004**	**3.9500e-003**	**0.0000**	**36.0254**	**36.0254**	**1.5600e-003**	**0.0000**	**36.0643**

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					0.0961	0.0000	0.0961	0.0493	0.0000	0.0493	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	1.1242	1.3771	2.3300e-003		0.0487	0.0487		0.0487	0.0487	0.0000	208.8797	208.8797	0.0661	0.0000	210.5319
Total	**0.0571**	**1.1242**	**1.3771**	**2.3300e-003**	**0.0961**	**0.0487**	**0.1448**	**0.0493**	**0.0487**	**0.0980**	**0.0000**	**208.8797**	**208.8797**	**0.0661**	**0.0000**	**210.5319**

3.3 Grading - 2019

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	3.6300e-003	0.1245	0.0228	3.2000e-004	6.7800e-003	4.9000e-004	7.2700e-003	1.8600e-003	4.7000e-004	2.3300e-003	0.0000	30.6355	30.6355	1.4100e-003	0.0000	30.6708
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	2.7600e-003	2.0600e-003	0.0211	6.0000e-005	5.9500e-003	4.0000e-005	5.9900e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.3898	5.3898	1.5000e-004	0.0000	5.3935
Total	**6.3900e-003**	**0.1266**	**0.0439**	**3.8000e-004**	**0.0127**	**5.3000e-004**	**0.0133**	**3.4400e-003**	**5.1000e-004**	**3.9500e-003**	**0.0000**	**36.0254**	**36.0254**	**1.5600e-003**	**0.0000**	**36.0643**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0555	0.4954	0.4034	6.3000e-004		0.0303	0.0303		0.0285	0.0285	0.0000	55.2495	55.2495	0.0135	0.0000	55.5860
Total	**0.0555**	**0.4954**	**0.4034**	**6.3000e-004**		**0.0303**	**0.0303**		**0.0285**	**0.0285**	**0.0000**	**55.2495**	**55.2495**	**0.0135**	**0.0000**	**55.5860**

3.4 Building Construction - 2019

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	0.0224	0.5739	0.1497	1.2400e-003	0.0297	4.2300e-003	0.0339	8.5800e-003	4.0400e-003	0.0126	0.0000	118.3770	118.3770	6.3100e-003	0.0000	118.5347
Worker	0.0439	0.0328	0.3348	9.5000e-004	0.0945	6.5000e-004	0.0951	0.0251	5.9000e-004	0.0257	0.0000	85.6230	85.6230	2.3400e-003	0.0000	85.6814
Total	**0.0662**	**0.6067**	**0.4845**	**2.1900e-003**	**0.1242**	**4.8800e-003**	**0.1290**	**0.0337**	**4.6300e-003**	**0.0384**	**0.0000**	**204.0000**	**204.0000**	**8.6500e-003**	**0.0000**	**204.2161**

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	0.0158	0.3343	0.4200	6.3000e-004		0.0212	0.0212		0.0212	0.0212	0.0000	55.2494	55.2494	0.0135	0.0000	55.5859
Total	**0.0158**	**0.3343**	**0.4200**	**6.3000e-004**		**0.0212**	**0.0212**		**0.0212**	**0.0212**	**0.0000**	**55.2494**	**55.2494**	**0.0135**	**0.0000**	**55.5859**

3.4 Building Construction - 2019

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	0.0224	0.5739	0.1497	1.2400e-003	0.0297	4.2300e-003	0.0339	8.5800e-003	4.0400e-003	0.0126	0.0000	118.3770	118.3770	6.3100e-003	0.0000	118.5347
Worker	0.0439	0.0328	0.3348	9.5000e-004	0.0945	6.5000e-004	0.0951	0.0251	5.9000e-004	0.0257	0.0000	85.6230	85.6230	2.3400e-003	0.0000	85.6814
Total	**0.0662**	**0.6067**	**0.4845**	**2.1900e-003**	**0.1242**	**4.8800e-003**	**0.1290**	**0.0337**	**4.6300e-003**	**0.0384**	**0.0000**	**204.0000**	**204.0000**	**8.6500e-003**	**0.0000**	**204.2161**

3.4 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1009	2.8852	0.7416	6.8600e-003	0.1654	0.0147	0.1802	0.0478	0.0141	0.0619	0.0000	656.0959	656.0959	0.0322	0.0000	656.9001
Worker	0.2228	0.1612	1.6685	5.1100e-003	0.5268	3.5200e-003	0.5303	0.1401	3.2400e-003	0.1433	0.0000	462.1237	462.1237	0.0114	0.0000	462.4073
Total	**0.3236**	**3.0464**	**2.4100**	**0.0120**	**0.6922**	**0.0183**	**0.7104**	**0.1879**	**0.0173**	**0.2053**	**0.0000**	**1,118.2195**	**1,118.2195**	**0.0435**	**0.0000**	**1,119.3074**

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	0.0883	1.8636	2.3415	3.5300e-003		0.1184	0.1184		0.1184	0.1184	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.0883**	**1.8636**	**2.3415**	**3.5300e-003**		**0.1184**	**0.1184**		**0.1184**	**0.1184**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1009	2.8852	0.7416	6.8600e-003	0.1654	0.0147	0.1802	0.0478	0.0141	0.0619	0.0000	656.0959	656.0959	0.0322	0.0000	656.9001
Worker	0.2228	0.1612	1.6685	5.1100e-003	0.5268	3.5200e-003	0.5303	0.1401	3.2400e-003	0.1433	0.0000	462.1237	462.1237	0.0114	0.0000	462.4073
Total	**0.3236**	**3.0464**	**2.4100**	**0.0120**	**0.6922**	**0.0183**	**0.7104**	**0.1879**	**0.0173**	**0.2053**	**0.0000**	**1,118.2195**	**1,118.2195**	**0.0435**	**0.0000**	**1,119.3074**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0580	0.5317	0.5055	8.2000e-004		0.0292	0.0292		0.0275	0.0275	0.0000	70.6494	70.6494	0.0170	0.0000	71.0755
Total	**0.0580**	**0.5317**	**0.5055**	**8.2000e-004**		**0.0292**	**0.0292**		**0.0275**	**0.0275**	**0.0000**	**70.6494**	**70.6494**	**0.0170**	**0.0000**	**71.0755**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0192	0.6053	0.1538	1.5800e-003	0.0385	1.3600e-003	0.0399	0.0111	1.3000e-003	0.0124	0.0000	151.3803	151.3803	7.0300e-003	0.0000	151.5560
Worker	0.0479	0.0335	0.3541	1.1500e-003	0.1226	8.0000e-004	0.1234	0.0326	7.3000e-004	0.0334	0.0000	103.7793	103.7793	2.3600e-003	0.0000	103.8382
Total	**0.0671**	**0.6388**	**0.5079**	**2.7300e-003**	**0.1612**	**2.1600e-003**	**0.1633**	**0.0438**	**2.0300e-003**	**0.0458**	**0.0000**	**255.1595**	**255.1595**	**9.3900e-003**	**0.0000**	**255.3942**

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	0.0206	0.4339	0.5452	8.2000e-004		0.0276	0.0276		0.0276	0.0276	0.0000	70.6493	70.6493	0.0170	0.0000	71.0754
Total	**0.0206**	**0.4339**	**0.5452**	**8.2000e-004**		**0.0276**	**0.0276**		**0.0276**	**0.0276**	**0.0000**	**70.6493**	**70.6493**	**0.0170**	**0.0000**	**71.0754**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0192	0.6053	0.1538	1.5800e-003	0.0385	1.3600e-003	0.0399	0.0111	1.3000e-003	0.0124	0.0000	151.3803	151.3803	7.0300e-003	0.0000	151.5560
Worker	0.0479	0.0335	0.3541	1.1500e-003	0.1226	8.0000e-004	0.1234	0.0326	7.3000e-004	0.0334	0.0000	103.7793	103.7793	2.3600e-003	0.0000	103.8382
Total	**0.0671**	**0.6388**	**0.5079**	**2.7300e-003**	**0.1612**	**2.1600e-003**	**0.1633**	**0.0438**	**2.0300e-003**	**0.0458**	**0.0000**	**255.1595**	**255.1595**	**9.3900e-003**	**0.0000**	**255.3942**

3.5 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	1.6013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.1044	0.1136	1.8000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	15.8302	15.8302	1.2300e-003	0.0000	15.8608
Total	**1.6163**	**0.1044**	**0.1136**	**1.8000e-004**		**6.8800e-003**	**6.8800e-003**		**6.8800e-003**	**6.8800e-003**	**0.0000**	**15.8302**	**15.8302**	**1.2300e-003**	**0.0000**	**15.8608**

3.5 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0152	0.1573	4.8000e-004	0.0497	3.3000e-004	0.0500	0.0132	3.1000e-004	0.0135	0.0000	43.5705	43.5705	1.0700e-003	0.0000	43.5972
Total	**0.0210**	**0.0152**	**0.1573**	**4.8000e-004**	**0.0497**	**3.3000e-004**	**0.0500**	**0.0132**	**3.1000e-004**	**0.0135**	**0.0000**	**43.5705**	**43.5705**	**1.0700e-003**	**0.0000**	**43.5972**

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	1.6013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0841	0.1136	1.8000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	15.8302	15.8302	1.2300e-003	0.0000	15.8608
Total	**1.6049**	**0.0841**	**0.1136**	**1.8000e-004**		**5.9000e-003**	**5.9000e-003**		**5.9000e-003**	**5.9000e-003**	**0.0000**	**15.8302**	**15.8302**	**1.2300e-003**	**0.0000**	**15.8608**

3.5 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0152	0.1573	4.8000e-004	0.0497	3.3000e-004	0.0500	0.0132	3.1000e-004	0.0135	0.0000	43.5705	43.5705	1.0700e-003	0.0000	43.5972
Total	**0.0210**	**0.0152**	**0.1573**	**4.8000e-004**	**0.0497**	**3.3000e-004**	**0.0500**	**0.0132**	**3.1000e-004**	**0.0135**	**0.0000**	**43.5705**	**43.5705**	**1.0700e-003**	**0.0000**	**43.5972**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0285	0.1985	0.2363	3.9000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	33.1923	33.1923	2.2800e-003	0.0000	33.2492
Total	**3.3859**	**0.1985**	**0.2363**	**3.9000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**	**0.0000**	**33.1923**	**33.1923**	**2.2800e-003**	**0.0000**	**33.2492**

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0407	0.0284	0.3007	9.7000e-004	0.1041	6.8000e-004	0.1048	0.0277	6.2000e-004	0.0283	0.0000	88.1186	88.1186	2.0000e-003	0.0000	88.1686
Total	**0.0407**	**0.0284**	**0.3007**	**9.7000e-004**	**0.1041**	**6.8000e-004**	**0.1048**	**0.0277**	**6.2000e-004**	**0.0283**	**0.0000**	**88.1186**	**88.1186**	**2.0000e-003**	**0.0000**	**88.1686**

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	3.3575					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7300e-003	0.1764	0.2382	3.9000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	33.1923	33.1923	2.2800e-003	0.0000	33.2492
Total	**3.3652**	**0.1764**	**0.2382**	**3.9000e-004**		**0.0124**	**0.0124**		**0.0124**	**0.0124**	**0.0000**	**33.1923**	**33.1923**	**2.2800e-003**	**0.0000**	**33.2492**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0407	0.0284	0.3007	9.7000e-004	0.1041	6.8000e-004	0.1048	0.0277	6.2000e-004	0.0283	0.0000	88.1186	88.1186	2.0000e-003	0.0000	88.1686
Total	**0.0407**	**0.0284**	**0.3007**	**9.7000e-004**	**0.1041**	**6.8000e-004**	**0.1048**	**0.0277**	**6.2000e-004**	**0.0283**	**0.0000**	**88.1186**	**88.1186**	**2.0000e-003**	**0.0000**	**88.1686**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0345	0.3553	0.4030	6.3000e-004		0.0186	0.0186		0.0172	0.0172	0.0000	55.0646	55.0646	0.0178	0.0000	55.5098
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0480**	**0.3553**	**0.4030**	**6.3000e-004**		**0.0186**	**0.0186**		**0.0172**	**0.0172**	**0.0000**	**55.0646**	**55.0646**	**0.0178**	**0.0000**	**55.5098**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	8.9000e-004	9.4500e-003	3.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7684	2.7684	6.0000e-005	0.0000	2.7700
Total	**1.2800e-003**	**8.9000e-004**	**9.4500e-003**	**3.0000e-005**	**3.2700e-003**	**2.0000e-005**	**3.2900e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.7684**	**2.7684**	**6.0000e-005**	**0.0000**	**2.7700**

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	0.0154	0.3106	0.4756	6.3000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	55.0645	55.0645	0.0178	0.0000	55.5097
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0289**	**0.3106**	**0.4756**	**6.3000e-004**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**55.0645**	**55.0645**	**0.0178**	**0.0000**	**55.5097**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	8.9000e-004	9.4500e-003	3.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7684	2.7684	6.0000e-005	0.0000	2.7700
Total	**1.2800e-003**	**8.9000e-004**	**9.4500e-003**	**3.0000e-005**	**3.2700e-003**	**2.0000e-005**	**3.2900e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.7684**	**2.7684**	**6.0000e-005**	**0.0000**	**2.7700**

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	2.0643	8.8466	21.0845	0.0659	5.5126	0.0585	5.5711	1.4793	0.0547	1.5339	0.0000	6,036.2275	6,036.2275	0.2427	0.0000	6,042.2955
Unmitigated	2.0643	8.8466	21.0845	0.0659	5.5126	0.0585	5.5711	1.4793	0.0547	1.5339	0.0000	6,036.2275	6,036.2275	0.2427	0.0000	6,042.2955

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
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		
Regional Shopping Center	2,500.00	2,500.00	2500.00	4,383,262	4,383,262
Single Family Housing	3,148.60	3,148.60	3148.60	7,272,030	7,272,030
Supermarket	2,730.00	2,730.00	2730.00	3,105,221	3,105,221
Total	8,378.60	8,378.60	8,378.60	14,760,513	14,760,513

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
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
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Regional Shopping Center	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Single Family Housing	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Supermarket	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

Alves Ranch w/ project design feature - Contra Costa County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	911.4930	911.4930	0.0538	0.0111	916.1520
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,250.8417	1,250.8417	0.0738	0.0153	1,257.2352
NaturalGas Mitigated	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	597.2862	597.2862	0.0115	0.0110	600.8356
NaturalGas Unmitigated	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	597.2862	597.2862	0.0115	0.0110	600.8356

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					
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
Regional Shopping Center	237000	1.2800e-003	0.0116	9.7600e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6472	12.6472	2.4000e-004	2.3000e-004	12.7224
Single Family Housing	1.00565e+007	0.0542	0.4634	0.1972	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	536.6543	536.6543	0.0103	9.8400e-003	539.8433
Supermarket	899200	4.8500e-003	0.0441	0.0370	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9847	47.9847	9.2000e-004	8.8000e-004	48.2699
Total		**0.0604**	**0.5191**	**0.2440**	**3.2900e-003**		**0.0417**	**0.0417**		**0.0417**	**0.0417**	**0.0000**	**597.2862**	**597.2862**	**0.0115**	**0.0110**	**600.8356**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Regional Shopping Center	237000	1.2800e-003	0.0116	9.7600e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6472	12.6472	2.4000e-004	2.3000e-004	12.7224
Single Family Housing	1.00565e+007	0.0542	0.4634	0.1972	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	536.6543	536.6543	0.0103	9.8400e-003	539.8433
Supermarket	899200	4.8500e-003	0.0441	0.0370	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9847	47.9847	9.2000e-004	8.8000e-004	48.2699
Total		**0.0604**	**0.5191**	**0.2440**	**3.2900e-003**		**0.0417**	**0.0417**		**0.0417**	**0.0417**	**0.0000**	**597.2862**	**597.2862**	**0.0115**	**0.0110**	**600.8356**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
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	99400	22.1671	1.3100e-003	2.7000e-004	22.2804
Regional Shopping Center	1.069e+006	238.3963	0.0141	2.9100e-003	239.6148
Single Family Housing	2.79934e+006	624.2765	0.0368	7.6200e-003	627.4674
Supermarket	1.6412e+006	366.0019	0.0216	4.4700e-003	367.8726
Total		**1,250.8417**	**0.0738**	**0.0153**	**1,257.2352**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	-253614	-56.5581	-0.0033	-0.0007	-56.8472
Other Non-Asphalt Surfaces	-253614	-56.5581	-0.0033	-0.0007	-56.8472
Parking Lot	-154214	-34.3911	-0.0020	-0.0004	-34.5669
Regional Shopping Center	815386	181.8382	0.0107	2.2200e-003	182.7676
Single Family Housing	2.54572e+006	567.7184	0.0335	6.9300e-003	570.6202
Supermarket	1.38759e+006	309.4437	0.0183	3.7800e-003	311.0254
Total		**911.4930**	**0.0538**	**0.0111**	**916.1520**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4339	0.0671	2.5985	3.7000e-004		0.0172	0.0172		0.0172	0.0172	0.0000	47.4064	47.4064	4.9400e-003	7.9000e-004	47.7658
Unmitigated	3.4339	0.0671	2.5985	3.7000e-004		0.0172	0.0172		0.0172	0.0172	0.0000	47.4064	47.4064	4.9400e-003	7.9000e-004	47.7658

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	0.4959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.3600e-003	0.0373	0.0159	2.4000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	43.1944	43.1944	8.3000e-004	7.9000e-004	43.4511
Landscaping	0.0788	0.0298	2.5826	1.4000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	4.2120	4.2120	4.1100e-003	0.0000	4.3147
Total	**3.4339**	**0.0671**	**2.5985**	**3.8000e-004**		**0.0172**	**0.0172**		**0.0172**	**0.0172**	**0.0000**	**47.4064**	**47.4064**	**4.9400e-003**	**7.9000e-004**	**47.7658**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.3600e-003	0.0373	0.0159	2.4000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	43.1944	43.1944	8.3000e-004	7.9000e-004	43.4511
Landscaping	0.0788	0.0298	2.5826	1.4000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	4.2120	4.2120	4.1100e-003	0.0000	4.3147
Total	**3.4339**	**0.0671**	**2.5985**	**3.8000e-004**		**0.0172**	**0.0172**		**0.0172**	**0.0172**	**0.0000**	**47.4064**	**47.4064**	**4.9400e-003**	**7.9000e-004**	**47.7658**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Alves Ranch w/ project design feature - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	57.2815	0.9121	0.0221	86.6593
Unmitigated	67.9130	1.1400	0.0275	104.6164

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Regional Shopping Center	7.40725 / 4.53993	14.8319	0.2421	5.8500e-003	22.6282
Single Family Housing	22.5433 / 14.2121	45.4479	0.7368	0.0178	69.1768
Supermarket	4.93073 / 0.152497	7.6332	0.1610	3.8700e-003	12.8115
Total		**67.9130**	**1.1400**	**0.0275**	**104.6164**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Regional Shopping Center	5.9258 / 4.53993	12.5742	0.1937	4.6900e-003	18.8149
Single Family Housing	18.0346 / 14.2121	38.5769	0.5896	0.0143	57.5713
Supermarket	3.94458 / 0.152497	6.1304	0.1288	3.0900e-003	10.2731
Total		**57.2815**	**0.9121**	**0.0221**	**86.6593**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	37.8781	2.2385	0.0000	93.8414
Unmitigated	151.5125	8.9541	0.0000	375.3657

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
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
Regional Shopping Center	105	21.3141	1.2596	0.0000	52.8047
Single Family Housing	415.8	84.4036	4.9881	0.0000	209.1065
Supermarket	225.6	45.7948	2.7064	0.0000	113.4546
Total		**151.5125**	**8.9541**	**0.0000**	**375.3657**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
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
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
Single Family Housing	103.95	21.1009	1.2470	0.0000	52.2766
Supermarket	56.4	11.4487	0.6766	0.0000	28.3637
Total		**37.8781**	**2.2385**	**0.0000**	**93.8414**

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

Alves Ranch w/ project design feature
Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.89	Acre	3.89	169,448.40	0
Other Non-Asphalt Surfaces	9.18	Acre	9.18	399,880.80	0
Parking Lot	710.00	Space	6.39	284,000.00	0
Single Family Housing	346.00	Dwelling Unit	24.43	576,874.00	990
Regional Shopping Center	100.00	1000sqft	2.30	100,000.00	0
Supermarket	40.00	1000sqft	0.92	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	366.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor in compliance with RPS 50% target by 2030

Land Use - Total acreage: 47.11; square footage for accessory dwelling units are included in the SF units, assuming maximum 1,200 sf size; Other non-asphalt surfaces: storm drainage; other asphalt surfaces: traffic circulation

Construction Phase - Building construction phase duration reduced to be consistent with a 2021 operational year; Architectural coating duration increased to accomodate buildings being constructed in batches

Off-road Equipment -

Grading - Based on information provided by William Lyon Homes

Vehicle Trips - Based on traffic study provided by Fehr & Peers; includes credit for pass-by trips and transit use trip reduction

Woodstoves - No woodburning devices

Energy Use -

Construction Off-road Equipment Mitigation - Tier 3 Mitigation

Energy Mitigation - Solar power generation estimated from the California 2019 Building Energy Efficiency Standards and the U.S Dept. of Energy,Energy Efficiency and Renewable Energy Consumer Guide

Water Mitigation -

Waste Mitigation - AB 341

Trips and VMT -

Architectural Coating -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	384.00
tblConstructionPhase	NumDays	740.00	370.00
tblFireplaces	NumberGas	86.50	346.00
tblFireplaces	NumberNoFireplace	27.68	0.00
tblFireplaces	NumberWood	148.78	0.00
tblGrading	AcresOfGrading	187.50	38.00
tblGrading	MaterialImported	0.00	6,400.00
tblLandUse	LandUseSquareFeet	622,800.00	576,874.00
tblLandUse	LotAcreage	112.34	24.43
tblProjectCharacteristics	CO2IntensityFactor	641.35	366.9
tblVehicleTrips	ST_TR	49.97	25.00
tblVehicleTrips	ST_TR	9.91	9.10
tblVehicleTrips	ST_TR	177.59	68.25
tblVehicleTrips	SU_TR	25.24	25.00
tblVehicleTrips	SU_TR	8.62	9.10

tblVehicleTrips	SU_TR	166.44	68.25
tblVehicleTrips	WD_TR	42.70	25.00
tblVehicleTrips	WD_TR	9.52	9.10
tblVehicleTrips	WD_TR	102.24	68.25
tblWoodstoves	NumberCatalytic	13.84	0.00
tblWoodstoves	NumberNoncatalytic	13.84	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	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	0.3746	3.9827	2.5420	6.2000e-003	0.6615	0.1611	0.8227	0.3145	0.1490	0.4635	0.0000	565.8271	565.8271	0.1064	0.0000	568.4865
2020	2.2563	5.8070	4.9958	0.0167	0.7730	0.1726	0.9456	0.2096	0.1629	0.3724	0.0000	1,529.6647	1,529.6647	0.1217	0.0000	1,532.7071
2021	3.6126	1.7816	1.9988	5.7300e-003	0.2804	0.0631	0.3435	0.0755	0.0597	0.1352	0.0000	519.9211	519.9211	0.0491	0.0000	521.1479
Maximum	**3.6126**	**5.8070**	**4.9958**	**0.0167**	**0.7730**	**0.1726**	**0.9456**	**0.3145**	**0.1629**	**0.4635**	**0.0000**	**1,529.6647**	**1,529.6647**	**0.1217**	**0.0000**	**1,532.7071**

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	0.1633	2.5037	2.6976	6.2000e-003	0.3459	0.0898	0.4357	0.1465	0.0895	0.2360	0.0000	565.8267	565.8267	0.1064	0.0000	568.4861
2020	2.0556	5.1370	5.1302	0.0167	0.7730	0.1436	0.9166	0.2096	0.1427	0.3522	0.0000	1,529.6644	1,529.6644	0.1217	0.0000	1,532.7067
2021	3.5353	1.6170	2.1130	5.7300e-003	0.2804	0.0597	0.3401	0.0755	0.0595	0.1350	0.0000	519.9209	519.9209	0.0491	0.0000	521.1477
Maximum	**3.5353**	**5.1370**	**5.1302**	**0.0167**	**0.7730**	**0.1436**	**0.9166**	**0.2096**	**0.1427**	**0.3522**	**0.0000**	**1,529.6644**	**1,529.6644**	**0.1217**	**0.0000**	**1,532.7067**

	ROG	NOx	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	**7.84**	**19.99**	**-4.24**	**0.00**	**18.40**	**26.14**	**19.86**	**28.01**	**21.51**	**25.53**	**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	**6-1-2019**	**8-31-2019**	1.8707	0.9263
2	**9-1-2019**	**11-30-2019**	1.9228	1.2678
3	**12-1-2019**	**2-29-2020**	1.6313	1.3994
4	**3-1-2020**	**5-31-2020**	1.5779	1.3674
5	**6-1-2020**	**8-31-2020**	2.0992	1.8793
6	**9-1-2020**	**11-30-2020**	2.4921	2.2674
7	**12-1-2020**	**2-28-2021**	2.3672	2.1903
8	**3-1-2021**	**5-31-2021**	1.3325	1.2805
9	**6-1-2021**	**8-31-2021**	0.9261	0.9153
10	**9-1-2021**	**9-30-2021**	0.3020	0.2985
		Highest	2.4921	2.2674

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	3.4335	0.0669	2.5861	3.7000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	47.4064	47.4064	4.8700e-003	7.9000e-004	47.7640
Energy	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	1,530.7426	1,530.7426	0.0852	0.0262	1,540.6855
Mobile	1.1970	5.5517	12.0018	0.0506	5.5080	0.0338	5.5419	1.4771	0.0314	1.5086	0.0000	4,660.7921	4,660.7921	0.1497	0.0000	4,664.5349
Waste						0.0000	0.0000		0.0000	0.0000	151.5125	0.0000	151.5125	8.9541	0.0000	375.3657
Water						0.0000	0.0000		0.0000	0.0000	11.0662	42.4226	53.4888	1.1400	0.0275	90.1922
Total	**4.6908**	**6.1376**	**14.8319**	**0.0543**	**5.5080**	**0.0928**	**5.6009**	**1.4771**	**0.0904**	**1.5675**	**162.5787**	**6,281.3637**	**6,443.9423**	**10.3339**	**0.0545**	**6,718.5423**

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	3.4335	0.0669	2.5861	3.7000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	47.4064	47.4064	4.8700e-003	7.9000e-004	47.7640
Energy	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	1,277.4993	1,277.4993	0.0652	0.0221	1,285.7077
Mobile	1.1970	5.5517	12.0018	0.0506	5.5080	0.0338	5.5419	1.4771	0.0314	1.5086	0.0000	4,660.7921	4,660.7921	0.1497	0.0000	4,664.5349
Waste						0.0000	0.0000		0.0000	0.0000	37.8781	0.0000	37.8781	2.2385	0.0000	93.8414
Water						0.0000	0.0000		0.0000	0.0000	8.8530	36.1404	44.9934	0.9121	0.0221	74.3712
Total	**4.6908**	**6.1376**	**14.8319**	**0.0543**	**5.5080**	**0.0928**	**5.6009**	**1.4771**	**0.0904**	**1.5675**	**46.7311**	**6,021.8382**	**6,068.5693**	**3.3705**	**0.0449**	**6,166.2191**

	ROG	NOx	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**71.26**	**4.13**	**5.83**	**67.38**	**17.64**	**8.22**

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	6/1/2019	7/12/2019	5	30	
2	Grading	Grading	7/13/2019	10/25/2019	5	75	
3	Building Construction	Building Construction	10/26/2019	3/26/2021	5	370	
4	Architectural Coating	Architectural Coating	7/11/2020	12/30/2021	5	384	
5	Paving	Paving	10/15/2021	12/30/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 38

Acres of Paving: 19.46

Residential Indoor: 1,168,170; Residential Outdoor: 389,390; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

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	800.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	528.00	200.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	106.00	0.00	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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0650	0.6836	0.3310	5.7000e-004		0.0359	0.0359		0.0330	0.0330	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	**0.0650**	**0.6836**	**0.3310**	**5.7000e-004**	**0.2710**	**0.0359**	**0.3069**	**0.1490**	**0.0330**	**0.1820**	**0.0000**	**51.2530**	**51.2530**	**0.0162**	**0.0000**	**51.6584**

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	9.9000e-004	7.4000e-004	7.5900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.9403	1.9403	5.0000e-005	0.0000	1.9417
Total	**9.9000e-004**	**7.4000e-004**	**7.5900e-003**	**2.0000e-005**	**2.1400e-003**	**1.0000e-005**	**2.1600e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.9403**	**1.9403**	**5.0000e-005**	**0.0000**	**1.9417**

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					0.1057	0.0000	0.1057	0.0581	0.0000	0.0581	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.2860	0.3444	5.7000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	**0.0140**	**0.2860**	**0.3444**	**5.7000e-004**	**0.1057**	**0.0142**	**0.1199**	**0.0581**	**0.0142**	**0.0723**	**0.0000**	**51.2530**	**51.2530**	**0.0162**	**0.0000**	**51.6584**

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	9.9000e-004	7.4000e-004	7.5900e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.9403	1.9403	5.0000e-005	0.0000	1.9417
Total	**9.9000e-004**	**7.4000e-004**	**7.5900e-003**	**2.0000e-005**	**2.1400e-003**	**1.0000e-005**	**2.1600e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**0.0000**	**1.9403**	**1.9403**	**5.0000e-005**	**0.0000**	**1.9417**

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					0.2463	0.0000	0.2463	0.1264	0.0000	0.1264	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1777	2.0445	1.2516	2.3300e-003		0.0894	0.0894		0.0822	0.0822	0.0000	208.8800	208.8800	0.0661	0.0000	210.5321
Total	**0.1777**	**2.0445**	**1.2516**	**2.3300e-003**	**0.2463**	**0.0894**	**0.3357**	**0.1264**	**0.0822**	**0.2086**	**0.0000**	**208.8800**	**208.8800**	**0.0661**	**0.0000**	**210.5321**

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	3.6300e-003	0.1245	0.0228	3.2000e-004	6.7800e-003	4.9000e-004	7.2700e-003	1.8600e-003	4.7000e-004	2.3300e-003	0.0000	30.6355	30.6355	1.4100e-003	0.0000	30.6708
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	2.7600e-003	2.0600e-003	0.0211	6.0000e-005	5.9500e-003	4.0000e-005	5.9900e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.3898	5.3898	1.5000e-004	0.0000	5.3935
Total	**6.3900e-003**	**0.1266**	**0.0439**	**3.8000e-004**	**0.0127**	**5.3000e-004**	**0.0133**	**3.4400e-003**	**5.1000e-004**	**3.9500e-003**	**0.0000**	**36.0254**	**36.0254**	**1.5600e-003**	**0.0000**	**36.0643**

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					0.0961	0.0000	0.0961	0.0493	0.0000	0.0493	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	1.1242	1.3771	2.3300e-003		0.0487	0.0487		0.0487	0.0487	0.0000	208.8797	208.8797	0.0661	0.0000	210.5319
Total	**0.0571**	**1.1242**	**1.3771**	**2.3300e-003**	**0.0961**	**0.0487**	**0.1448**	**0.0493**	**0.0487**	**0.0980**	**0.0000**	**208.8797**	**208.8797**	**0.0661**	**0.0000**	**210.5319**

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	3.6300e-003	0.1245	0.0228	3.2000e-004	6.7800e-003	4.9000e-004	7.2700e-003	1.8600e-003	4.7000e-004	2.3300e-003	0.0000	30.6355	30.6355	1.4100e-003	0.0000	30.6708
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	2.7600e-003	2.0600e-003	0.0211	6.0000e-005	5.9500e-003	4.0000e-005	5.9900e-003	1.5800e-003	4.0000e-005	1.6200e-003	0.0000	5.3898	5.3898	1.5000e-004	0.0000	5.3935
Total	**6.3900e-003**	**0.1266**	**0.0439**	**3.8000e-004**	**0.0127**	**5.3000e-004**	**0.0133**	**3.4400e-003**	**5.1000e-004**	**3.9500e-003**	**0.0000**	**36.0254**	**36.0254**	**1.5600e-003**	**0.0000**	**36.0643**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

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

Category	tons/yr										MT/yr					
Off-Road	0.0555	0.4954	0.4034	6.3000e-004		0.0303	0.0303		0.0285	0.0285	0.0000	55.2495	55.2495	0.0135	0.0000	55.5860
Total	**0.0555**	**0.4954**	**0.4034**	**6.3000e-004**		**0.0303**	**0.0303**		**0.0285**	**0.0285**	**0.0000**	**55.2495**	**55.2495**	**0.0135**	**0.0000**	**55.5860**

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	0.0233	0.5978	0.1559	1.2900e-003	0.0309	4.4000e-003	0.0353	8.9400e-003	4.2100e-003	0.0132	0.0000	123.3094	123.3094	6.5700e-003	0.0000	123.4737
Worker	0.0457	0.0342	0.3487	9.9000e-004	0.0984	6.7000e-004	0.0991	0.0262	6.2000e-004	0.0268	0.0000	89.1695	89.1695	2.4300e-003	0.0000	89.2303
Total	**0.0690**	**0.6319**	**0.5046**	**2.2800e-003**	**0.1293**	**5.0700e-003**	**0.1344**	**0.0351**	**4.8300e-003**	**0.0399**	**0.0000**	**212.4789**	**212.4789**	**9.0000e-003**	**0.0000**	**212.7040**

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	0.0158	0.3343	0.4200	6.3000e-004		0.0212	0.0212		0.0212	0.0212	0.0000	55.2494	55.2494	0.0135	0.0000	55.5859
Total	**0.0158**	**0.3343**	**0.4200**	**6.3000e-004**		**0.0212**	**0.0212**		**0.0212**	**0.0212**	**0.0000**	**55.2494**	**55.2494**	**0.0135**	**0.0000**	**55.5859**

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	0.0233	0.5978	0.1559	1.2900e-003	0.0309	4.4000e-003	0.0353	8.9400e-003	4.2100e-003	0.0132	0.0000	123.3094	123.3094	6.5700e-003	0.0000	123.4737
Worker	0.0457	0.0342	0.3487	9.9000e-004	0.0984	6.7000e-004	0.0991	0.0262	6.2000e-004	0.0268	0.0000	89.1695	89.1695	2.4300e-003	0.0000	89.2303
Total	**0.0690**	**0.6319**	**0.5046**	**2.2800e-003**	**0.1293**	**5.0700e-003**	**0.1344**	**0.0351**	**4.8300e-003**	**0.0399**	**0.0000**	**212.4789**	**212.4789**	**9.0000e-003**	**0.0000**	**212.7040**

3.4 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

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	0.1051	3.0055	0.7725	7.1500e-003	0.1723	0.0154	0.1877	0.0498	0.0147	0.0645	0.0000	683.4332	683.4332	0.0335	0.0000	684.2710
Worker	0.2320	0.1679	1.7376	5.3200e-003	0.5486	3.6600e-003	0.5522	0.1459	3.3800e-003	0.1493	0.0000	481.2649	481.2649	0.0118	0.0000	481.5603
Total	**0.3370**	**3.1733**	**2.5101**	**0.0125**	**0.7209**	**0.0190**	**0.7399**	**0.1957**	**0.0181**	**0.2138**	**0.0000**	**1,164.6981**	**1,164.6981**	**0.0453**	**0.0000**	**1,165.8312**

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	0.0883	1.8636	2.3415	3.5300e-003		0.1184	0.1184		0.1184	0.1184	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.0883**	**1.8636**	**2.3415**	**3.5300e-003**		**0.1184**	**0.1184**		**0.1184**	**0.1184**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

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	0.1051	3.0055	0.7725	7.1500e-003	0.1723	0.0154	0.1877	0.0498	0.0147	0.0645	0.0000	683.4332	683.4332	0.0335	0.0000	684.2710
Worker	0.2320	0.1679	1.7376	5.3200e-003	0.5486	3.6600e-003	0.5522	0.1459	3.3800e-003	0.1493	0.0000	481.2649	481.2649	0.0118	0.0000	481.5603
Total	**0.3370**	**3.1733**	**2.5101**	**0.0125**	**0.7209**	**0.0190**	**0.7399**	**0.1957**	**0.0181**	**0.2138**	**0.0000**	**1,164.6981**	**1,164.6981**	**0.0453**	**0.0000**	**1,165.8312**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0580	0.5317	0.5055	8.2000e-004		0.0292	0.0292		0.0275	0.0275	0.0000	70.6494	70.6494	0.0170	0.0000	71.0755
Total	**0.0580**	**0.5317**	**0.5055**	**8.2000e-004**		**0.0292**	**0.0292**		**0.0275**	**0.0275**	**0.0000**	**70.6494**	**70.6494**	**0.0170**	**0.0000**	**71.0755**

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	0.0200	0.6305	0.1602	1.6500e-003	0.0401	1.4100e-003	0.0415	0.0116	1.3500e-003	0.0130	0.0000	157.6878	157.6878	7.3200e-003	0.0000	157.8708
Worker	0.0499	0.0349	0.3688	1.2000e-003	0.1277	8.3000e-004	0.1286	0.0340	7.6000e-004	0.0347	0.0000	108.0778	108.0778	2.4600e-003	0.0000	108.1392
Total	**0.0698**	**0.6654**	**0.5290**	**2.8500e-003**	**0.1678**	**2.2400e-003**	**0.1701**	**0.0456**	**2.1100e-003**	**0.0477**	**0.0000**	**265.7656**	**265.7656**	**9.7800e-003**	**0.0000**	**266.0100**

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	0.0206	0.4339	0.5452	8.2000e-004		0.0276	0.0276		0.0276	0.0276	0.0000	70.6493	70.6493	0.0170	0.0000	71.0754
Total	**0.0206**	**0.4339**	**0.5452**	**8.2000e-004**		**0.0276**	**0.0276**		**0.0276**	**0.0276**	**0.0000**	**70.6493**	**70.6493**	**0.0170**	**0.0000**	**71.0754**

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	0.0200	0.6305	0.1602	1.6500e-003	0.0401	1.4100e-003	0.0415	0.0116	1.3500e-003	0.0130	0.0000	157.6878	157.6878	7.3200e-003	0.0000	157.8708
Worker	0.0499	0.0349	0.3688	1.2000e-003	0.1277	8.3000e-004	0.1286	0.0340	7.6000e-004	0.0347	0.0000	108.0778	108.0778	2.4600e-003	0.0000	108.1392
Total	**0.0698**	**0.6654**	**0.5290**	**2.8500e-003**	**0.1678**	**2.2400e-003**	**0.1701**	**0.0456**	**2.1100e-003**	**0.0477**	**0.0000**	**265.7656**	**265.7656**	**9.7800e-003**	**0.0000**	**266.0100**

3.5 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	1.6045					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.1044	0.1136	1.8000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	15.8302	15.8302	1.2300e-003	0.0000	15.8608
Total	**1.6195**	**0.1044**	**0.1136**	**1.8000e-004**		**6.8800e-003**	**6.8800e-003**		**6.8800e-003**	**6.8800e-003**	**0.0000**	**15.8302**	**15.8302**	**1.2300e-003**	**0.0000**	**15.8608**

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	0.0220	0.0160	0.1651	5.1000e-004	0.0521	3.5000e-004	0.0525	0.0139	3.2000e-004	0.0142	0.0000	45.7274	45.7274	1.1200e-003	0.0000	45.7555
Total	**0.0220**	**0.0160**	**0.1651**	**5.1000e-004**	**0.0521**	**3.5000e-004**	**0.0525**	**0.0139**	**3.2000e-004**	**0.0142**	**0.0000**	**45.7274**	**45.7274**	**1.1200e-003**	**0.0000**	**45.7555**

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	1.6045					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	3.6800e-003	0.0841	0.1136	1.8000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	15.8302	15.8302	1.2300e-003	0.0000	15.8608
Total	**1.6082**	**0.0841**	**0.1136**	**1.8000e-004**		**5.9000e-003**	**5.9000e-003**		**5.9000e-003**	**5.9000e-003**	**0.0000**	**15.8302**	**15.8302**	**1.2300e-003**	**0.0000**	**15.8608**

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	0.0220	0.0160	0.1651	5.1000e-004	0.0521	3.5000e-004	0.0525	0.0139	3.2000e-004	0.0142	0.0000	45.7274	45.7274	1.1200e-003	0.0000	45.7555
Total	**0.0220**	**0.0160**	**0.1651**	**5.1000e-004**	**0.0521**	**3.5000e-004**	**0.0525**	**0.0139**	**3.2000e-004**	**0.0142**	**0.0000**	**45.7274**	**45.7274**	**1.1200e-003**	**0.0000**	**45.7555**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3643					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0285	0.1985	0.2363	3.9000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	33.1923	33.1923	2.2800e-003	0.0000	33.2492
Total	**3.3928**	**0.1985**	**0.2363**	**3.9000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**	**0.0000**	**33.1923**	**33.1923**	**2.2800e-003**	**0.0000**	**33.2492**

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	0.0427	0.0298	0.3156	1.0200e-003	0.1093	7.1000e-004	0.1100	0.0291	6.5000e-004	0.0297	0.0000	92.4809	92.4809	2.1000e-003	0.0000	92.5334
Total	**0.0427**	**0.0298**	**0.3156**	**1.0200e-003**	**0.1093**	**7.1000e-004**	**0.1100**	**0.0291**	**6.5000e-004**	**0.0297**	**0.0000**	**92.4809**	**92.4809**	**2.1000e-003**	**0.0000**	**92.5334**

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	3.3643					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7300e-003	0.1764	0.2382	3.9000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	33.1923	33.1923	2.2800e-003	0.0000	33.2492
Total	**3.3721**	**0.1764**	**0.2382**	**3.9000e-004**		**0.0124**	**0.0124**		**0.0124**	**0.0124**	**0.0000**	**33.1923**	**33.1923**	**2.2800e-003**	**0.0000**	**33.2492**

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	0.0427	0.0298	0.3156	1.0200e-003	0.1093	7.1000e-004	0.1100	0.0291	6.5000e-004	0.0297	0.0000	92.4809	92.4809	2.1000e-003	0.0000	92.5334
Total	**0.0427**	**0.0298**	**0.3156**	**1.0200e-003**	**0.1093**	**7.1000e-004**	**0.1100**	**0.0291**	**6.5000e-004**	**0.0297**	**0.0000**	**92.4809**	**92.4809**	**2.1000e-003**	**0.0000**	**92.5334**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0345	0.3553	0.4030	6.3000e-004		0.0186	0.0186		0.0172	0.0172	0.0000	55.0646	55.0646	0.0178	0.0000	55.5098
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0480**	**0.3553**	**0.4030**	**6.3000e-004**		**0.0186**	**0.0186**		**0.0172**	**0.0172**	**0.0000**	**55.0646**	**55.0646**	**0.0178**	**0.0000**	**55.5098**

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	1.2800e-003	8.9000e-004	9.4500e-003	3.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7684	2.7684	6.0000e-005	0.0000	2.7700
Total	**1.2800e-003**	**8.9000e-004**	**9.4500e-003**	**3.0000e-005**	**3.2700e-003**	**2.0000e-005**	**3.2900e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.7684**	**2.7684**	**6.0000e-005**	**0.0000**	**2.7700**

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	0.0154	0.3106	0.4756	6.3000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	55.0645	55.0645	0.0178	0.0000	55.5097
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0289**	**0.3106**	**0.4756**	**6.3000e-004**		**0.0168**	**0.0168**		**0.0168**	**0.0168**	**0.0000**	**55.0645**	**55.0645**	**0.0178**	**0.0000**	**55.5097**

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	1.2800e-003	8.9000e-004	9.4500e-003	3.0000e-005	3.2700e-003	2.0000e-005	3.2900e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.7684	2.7684	6.0000e-005	0.0000	2.7700
Total	**1.2800e-003**	**8.9000e-004**	**9.4500e-003**	**3.0000e-005**	**3.2700e-003**	**2.0000e-005**	**3.2900e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.7684**	**2.7684**	**6.0000e-005**	**0.0000**	**2.7700**

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	1.1970	5.5517	12.0018	0.0506	5.5080	0.0338	5.5419	1.4771	0.0314	1.5086	0.0000	4,660.7921	4,660.7921	0.1497	0.0000	4,664.5349
Unmitigated	1.1970	5.5517	12.0018	0.0506	5.5080	0.0338	5.5419	1.4771	0.0314	1.5086	0.0000	4,660.7921	4,660.7921	0.1497	0.0000	4,664.5349

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
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		
Regional Shopping Center	2,500.00	2,500.00	2500.00	4,383,262	4,383,262
Single Family Housing	3,148.60	3,148.60	3148.60	7,272,030	7,272,030
Supermarket	2,730.00	2,730.00	2730.00	3,105,221	3,105,221
Total	8,378.60	8,378.60	8,378.60	14,760,513	14,760,513

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
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
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Non-Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Parking Lot	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Regional Shopping Center	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Single Family Housing	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Supermarket	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	680.2131	680.2131	0.0538	0.0111	684.8721
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	933.4564	933.4564	0.0738	0.0153	939.8499
NaturalGas Mitigated	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	597.2862	597.2862	0.0115	0.0110	600.8356
NaturalGas Unmitigated	0.0604	0.5191	0.2440	3.2900e-003		0.0417	0.0417		0.0417	0.0417	0.0000	597.2862	597.2862	0.0115	0.0110	600.8356

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					
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
Regional Shopping Center	237000	1.2800e-003	0.0116	9.7600e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6472	12.6472	2.4000e-004	2.3000e-004	12.7224
Single Family Housing	1.00565e+007	0.0542	0.4634	0.1972	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	536.6543	536.6543	0.0103	9.8400e-003	539.8433
Supermarket	899200	4.8500e-003	0.0441	0.0370	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9847	47.9847	9.2000e-004	8.8000e-004	48.2699
Total		**0.0604**	**0.5191**	**0.2440**	**3.2900e-003**		**0.0417**	**0.0417**		**0.0417**	**0.0417**	**0.0000**	**597.2862**	**597.2862**	**0.0115**	**0.0110**	**600.8356**

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					
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
Regional Shopping Center	237000	1.2800e-003	0.0116	9.7600e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	12.6472	12.6472	2.4000e-004	2.3000e-004	12.7224
Single Family Housing	1.00565e+007	0.0542	0.4634	0.1972	2.9600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	536.6543	536.6543	0.0103	9.8400e-003	539.8433
Supermarket	899200	4.8500e-003	0.0441	0.0370	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9847	47.9847	9.2000e-004	8.8000e-004	48.2699
Total		**0.0604**	**0.5191**	**0.2440**	**3.2900e-003**		**0.0417**	**0.0417**		**0.0417**	**0.0417**	**0.0000**	**597.2862**	**597.2862**	**0.0115**	**0.0110**	**600.8356**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
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	99400	16.5425	1.3100e-003	2.7000e-004	16.6558
Regional Shopping Center	1.069e+006	177.9062	0.0141	2.9100e-003	179.1248
Single Family Housing	2.79934e+006	465.8742	0.0368	7.6200e-003	469.0651
Supermarket	1.6412e+006	273.1335	0.0216	4.4700e-003	275.0043
Total		**933.4564**	**0.0738**	**0.0153**	**939.8499**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	-253614	-42.2072	-0.0033	-0.0007	-42.4963
Other Non-Asphalt Surfaces	-253614	-42.2072	-0.0033	-0.0007	-42.4963
Parking Lot	-154214	-25.6648	-0.0020	-0.0004	-25.8406
Regional Shopping Center	815386	135.6990	0.0107	2.2200e-003	136.6285
Single Family Housing	2.54572e+006	423.6670	0.0335	6.9300e-003	426.5688

Supermarket	1.38759e+006	230.9263	0.0183	3.7800e-003	232.5080
Total		**680.2131**	**0.0538**	**0.0111**	**684.8721**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4335	0.0669	2.5861	3.7000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	47.4064	47.4064	4.8700e-003	7.9000e-004	47.7640
Unmitigated	3.4335	0.0669	2.5861	3.7000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	47.4064	47.4064	4.8700e-003	7.9000e-004	47.7640

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	0.4969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.3600e-003	0.0373	0.0159	2.4000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	43.1944	43.1944	8.3000e-004	7.9000e-004	43.4511

Landscaping	0.0774	0.0296	2.5702	1.4000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	4.2120	4.2120	4.0400e-003	0.0000	4.3129
Total	**3.4335**	**0.0669**	**2.5861**	**3.8000e-004**		**0.0173**	**0.0173**		**0.0173**	**0.0173**	**0.0000**	**47.4064**	**47.4064**	**4.8700e-003**	**7.9000e-004**	**47.7640**

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	0.4969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.3600e-003	0.0373	0.0159	2.4000e-004		3.0200e-003	3.0200e-003		3.0200e-003	3.0200e-003	0.0000	43.1944	43.1944	8.3000e-004	7.9000e-004	43.4511
Landscaping	0.0774	0.0296	2.5702	1.4000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	4.2120	4.2120	4.0400e-003	0.0000	4.3129
Total	**3.4335**	**0.0669**	**2.5861**	**3.8000e-004**		**0.0173**	**0.0173**		**0.0173**	**0.0173**	**0.0000**	**47.4064**	**47.4064**	**4.8700e-003**	**7.9000e-004**	**47.7640**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	44.9934	0.9121	0.0221	74.3712

Unmitigated	53.4888	1.1400	0.0275	90.1922

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Regional Shopping Center	7.40725 / 4.53993	11.6647	0.2421	5.8500e-003	19.4610
Single Family Housing	22.5433 / 14.2121	35.7308	0.7368	0.0178	59.4596
Supermarket	4.93073 / 0.152497	6.0933	0.1610	3.8700e-003	11.2716
Total		**53.4888**	**1.1400**	**0.0275**	**90.1922**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Regional Shopping Center	5.9258 / 4.53993	9.8607	0.1937	4.6900e-003	16.1013
Single Family Housing	18.0346 / 14.2121	30.2403	0.5896	0.0143	49.2347
Supermarket	3.94458 / 0.152497	4.8924	0.1288	3.0900e-003	9.0351
Total		**44.9934**	**0.9121**	**0.0221**	**74.3712**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	37.8781	2.2385	0.0000	93.8414
Unmitigated	151.5125	8.9541	0.0000	375.3657

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

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
Regional Shopping Center	105	21.3141	1.2596	0.0000	52.8047
Single Family Housing	415.8	84.4036	4.9881	0.0000	209.1065
Supermarket	225.6	45.7948	2.7064	0.0000	113.4546
Total		**151.5125**	**8.9541**	**0.0000**	**375.3657**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
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
Regional Shopping Center	26.25	5.3285	0.3149	0.0000	13.2012
Single Family Housing	103.95	21.1009	1.2470	0.0000	52.2766
Supermarket	56.4	11.4487	0.6766	0.0000	28.3637
Total		**37.8781**	**2.2385**	**0.0000**	**93.8414**

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

Alves Ranch Project No Variable Emission Factor

Estimation of Annual Construction PM2.5 Emissions (Unmitigated)

Year: 2019

Start of Construction	6/1/2019
End of Construction	12/31/2019
Number of Hours for averaging	8760

Size of the Construction area source: 237878 sq-meters

Onsite

Construction Activity	PM2.5 Exhaust Onsite (tons/year)	PM2.5 Exhaust Onsite (pounds/hr)	PM2.5 Exhaust Onsite (g/m2-sec)
Site Preparation	0.0330		
Grading	0.0822		
Building Construction	0.0285		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.1437	0.0328	1.739E-08

Construction Activity	PM2.5 Fugitive Dust Onsite (tons/year)	PM2.5 Fugitive Dust Onsite (pounds/hr)	PM2.5 Fugitive Dust Onsite (g/m2-sec)
Site Preparation	0.0581		
Grading	0.0493		
Building Construction	0.0000		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.1074	0.025	1.300E-08

Offsite

Construction Activity	PM2.5 Exhaust Haul Truck (tons/year)	PM2.5 Exhaust Haul Truck (g/sec)	PM2.5 Exhaust Vendor Truck (tons/year)	PM2.5 Exhaust Vendor Truck (g/sec)	PM2.5 Exhaust Worker (tons/year)	PM2.5 Exhaust Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00001	
Grading	0.00047		0.0000		0.00004	
Building Construction	0.00000		0.0040		0.00059	
Paving	0.00000		0.0000		0.00000	
Architectural Coating	0.00000		0.0000		0.00000	
Total	0.00047	1.353E-05	0.00404	1.163E-04	0.00064	1.843E-05

Construction Activity	PM2.5 Fugitive Dust Haul Truck (tons/year)	PM2.5 Fugitive Dust Haul Truck (g/sec)	PM2.5 Fugitive Dust Vendor Truck (tons/year)	PM2.5 Fugitive Dust Vendor Truck (g/sec)	PM2.5 Fugitive Dust Worker (tons/year)	PM2.5 Fugitive Dust Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00058	
Grading	0.00186		0.0000		0.00158	
Building Construction	0.00000		0.0086		0.02510	
Paving	0.00000		0.0000		0.00000	
Architectural Coating	0.00000		0.0000		0.00000	
Total	0.00186	5.355E-05	0.00858	2.470E-04	0.02726	7.849E-04

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20 miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3 miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8 miles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

DPM (as PM2.5 Exhaust)		
Haul Trucks	1.23E-06	g/sec
Vendor Trucks	2.90E-05	g/sec
Worker Vehicles	3.11E-06	g/sec
Total	3.33E-05	g/sec

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20 miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3 miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8 miles

Vehicle Travel Distance in the HRA 1.82 mles

Total Offsite Vehicle Emissions Along Travel Distance

PM2.5 Fugitive Dust		
Haul Trucks	4.874E-06	g/sec
Vendor Trucks	6.160E-05	g/sec
Worker Vehicles	1.323E-04	g/sec
Total	1.987E-04	g/sec

Summary		PM2.5 Exhaust	PM2.5 Fugitive	PM2.5 Total
	Onsite	0.1437 tons/year	0.1074 tons/year	0.2511 tons/year
	Offsite	0.00515 tons/year	0.03770 tons/year	0.0429 tons/year
	Total	0.14885 tons/year	0.1451 tons/year	0.2940 tons/year

Alves Ranch Project **No Variable Emission Factor**

Estimation of Annual Construction PM2.5 Emissions (Unmitigated)

Year: 2020

Start of Construction	1/2/2020
End of Construction	12/31/2020
Number of Hours	8760

Size of the Construction area source: **237878** **sq-meters**

DPM (as PM2.5 Exhaust)

	Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Onsite	Site Preparation	0.0000		
	Grading	0.0000		
	Building Construction	0.1376		
	Paving	0.0000		
	Architectural Coating	0.0069		
	Total	0.1445	0.0329863	1.749E-08

PM2.5 Fugitive Dust

Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Site Preparation	0.0000		
Grading	0.0000		
Building Construction	0.0000		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.0000	0	0.000E+00

PM2.5 Exhaust

	Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)	
Offsite	Site Preparation	0.00000		0.0000		0.00000		
	Grading	0.00000		0.0000		0.00000		
	Building Construction	0.00000		0.0141		0.00324		
	Paving	0.00000		0.0000		0.00000		
	Architectural Coating	0.00000		0.0000		0.00031		
	Total	0.00000	0	0.01410	4.06E-04	0.00355	0.000102213	0.017650

PM2.5 Fugitive Dust

Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00000	
Grading	0.00000		0.0000		0.00000	
Building Construction	0.00000		0.0478		0.14010	
Paving	0.00000		0.0000		0.00000	
Architectural Coating	0.00000		0.0000		0.01320	
Total	0.00000	0.00E+00	0.04780	1.38E-03	0.15330	4.414E-03

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

DPM (as PM2.5 Exhaust)

Haul Trucks	0.00E+00	g/sec
Vendor Trucks	1.01E-04	g/sec
Worker Vehicles	1.72E-05	g/sec
Total	1.18E-04	g/sec

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	mles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

PM2.5 Fugitive Dust

Haul Trucks	0.00E+00	grams/sec
Vendor Trucks	3.43E-04	grams/sec
Worker Vehicles	7.439E-04	grams/sec
Total	1.09E-03	grams/sec

		PM2.5 Exhaust		PM2.5 Fugitive		PM2.5 Total	
Summary	Onsite	0.14448	tons/year	0.0000	tons/year	0.1445	tons/year
	Offsite	0.01765	tons/year	0.20110	tons/year	0.2188	tons/year
	Total	0.16213	tons/year	0.2011	tons/year	0.3632	tons/year

Alves Ranch Project

Estimation of Annual Construction PM2.5 Emissions (Unmitigated)

Year: 2021

Start of Construction	1/2/2021
End of Construction	12/31/2021
Number of Hours	8760

Size of the Construction area source: **237878 sq-meters**

DPM (as PM2.5 Exhaust)

Onsite	Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
	Site Preparation	0.0000		
	Grading	0.0000		
	Building Construction	0.0275		
	Paving	0.0172		
	Architectural Coating	0.0122		
	Total	0.0569	0.01299087	6.887E-09

PM2.5 Fugitive Dust

Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Site Preparation	0.0000		
Grading	0.0000		
Building Construction	0.0000		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.0000	0.0000	0.000E+00

DPM (as PM2.5 Exhaust)

Offsite	Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
	Site Preparation	0.00000		0.0000		0.00000	
	Grading	0.00000		0.0000		0.00000	
	Building Construction	0.00000		0.0013		0.00073	
	Paving	0.00000		0.0000		0.00002	
	Architectural Coating	0.00000		0.0000		0.00062	
	Total	0.00000	0.00000	0.00130	3.743E-05	0.00059	1.699E-05

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

DPM (as PM2.5 Exhaust)

Haul Trucks	0.00E+00	g/sec
Vendor Trucks	9.33E-06	g/sec
Worker Vehicles	2.86E-06	g/sec
Total	1.22E-05	g/sec

PM2.5 Fugitive Dust

Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00000	
Grading	0.00000		0.0000		0.00000	
Building Construction	0.00000		0.0111		0.03260	
Paving	0.00000		0.0000		0.00087	
Architectural Coating	0.00000		0.0000		0.02770	
Total	0.00000	0.0000E+00	0.01110	3.196E-04	0.06117	1.761E-03

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

PM2.5 Fugitive Dust

Haul Trucks	0.00E+00	g/sec
Vendor Trucks	7.97E-05	g/sec
Worker Vehicles	2.97E-04	g/sec
Total	3.77E-04	g/sec

Summary		PM2.5 Exhaust		PM2.5 Fugitive		PM2.5 Total	
	Onsite	0.0569	tons/year	0.0000	tons/year	0.0569	tons/year
	Offsite	0.00189	tons/year	0.07227	tons/year	0.0742	tons/year
	Total	0.05879	tons/year	0.0723	tons/year	0.1311	tons/year

Alves Ranch Project 2019 No Mitigation

Estimation of Construction PM2.5 Concentrations

DPM Emissions from Construction Area Source:	1.74E-08	g/m2-sec
DPM Emissions from Offsite Mobile Source Emissions:	3.33E-05	g/sec
DPM AERMOD Area SourceEmissions Multiplier	1.00E-05	
DPM AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	
Dust Emissions from Construction Area Source:	1.30E-08	g/m2-sec
DustEmissions from Offsite Mobile Source Emissions:	1.99E-04	g/sec
Dust AERMOD Area SourceEmissions Multiplier	1.00E-05	
Dust AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	

		DPM (as PM2.5 Exhaust)						PM2.5 Fugitive Dust					
		Area Source DPM w/	Area Source DPM w/	Offsite Source DPM w/	Offsite Source DPM w/	Total		Area Source Dust w/	Area Source Dust w/	Offsite Source Dust w/	Offsite Source Dust w/	Total	Total
X	Y	Unit Emis	Actual Emis	Unit Emis	Actual Emis	DPM		Unit Emis	Actual Emis	Unit Emis	Actual Emis	Dust	PM2.5
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)		(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
591236.2	4208654	29.54054	5.14E-02	4.30882	1.44E-04	5.15E-02	Sensitive	44.93764	5.84E-02	4.45223	8.85E-04	5.93E-02	1.11E-01
591234.5	4208641	26.81016	4.66E-02	4.48305	1.49E-04	4.68E-02	Sensitive	40.42225	5.25E-02	4.646	9.23E-04	5.35E-02	1.00E-01
591232.7	4208626	24.02479	4.18E-02	4.67025	1.56E-04	4.19E-02	Sensitive	36.44367	4.74E-02	4.85364	9.65E-04	4.83E-02	9.03E-02
591233.6	4208613	24.98369	4.35E-02	4.93147	1.64E-04	4.36E-02	Sensitive	37.83457	4.92E-02	5.13395	1.02E-03	5.02E-02	9.38E-02
591233.6	4208600	25.7327	4.48E-02	5.19894	1.73E-04	4.49E-02	Sensitive	38.71366	5.03E-02	5.42542	1.08E-03	5.14E-02	9.63E-02
591234.9	4208584	27.30214	4.75E-02	5.58097	1.86E-04	4.77E-02	Sensitive	40.97945	5.33E-02	5.8448	1.16E-03	5.44E-02	1.02E-01
591234.9	4208569	28.24101	4.91E-02	5.96973	1.99E-04	4.93E-02	Sensitive	42.12677	5.48E-02	6.28284	1.25E-03	5.60E-02	1.05E-01
591234.9	4208555	25.39267	4.42E-02	6.33489	2.11E-04	4.44E-02	Sensitive	38.36545	4.99E-02	6.69017	1.33E-03	5.12E-02	9.56E-02
591235.3	4208541	22.42152	3.90E-02	6.67632	2.23E-04	3.92E-02	Sensitive	34.66087	4.51E-02	7.09197	1.41E-03	4.65E-02	8.57E-02
591235.3	4208528	21.61267	3.76E-02	7.16541	2.39E-04	3.78E-02	Sensitive	33.5052	4.36E-02	7.66102	1.52E-03	4.51E-02	8.29E-02
591234.9	4208514	21.78832	3.79E-02	7.7801	2.59E-04	3.82E-02	Sensitive	33.43661	4.35E-02	8.38369	1.67E-03	4.51E-02	8.33E-02
591235.8	4208501	22.79521	3.96E-02	8.54426	2.85E-04	3.99E-02	Sensitive	34.7449	4.52E-02	9.28275	1.84E-03	4.70E-02	8.69E-02
591235.8	4208486	24.65757	4.29E-02	9.65262	3.22E-04	4.32E-02	Sensitive	36.97006	4.81E-02	10.66128	2.12E-03	5.02E-02	9.34E-02
591238	4208472	27.01754	4.70E-02	10.92132	3.64E-04	4.74E-02	Sensitive	40.84009	5.31E-02	12.27014	2.44E-03	5.55E-02	1.03E-01
591239.5	4208453	29.68242	5.16E-02	13.45274	4.49E-04	5.21E-02	Sensitive	42.39109	5.51E-02	15.84932	3.15E-03	5.83E-02	1.10E-01
591234	4208435	25.27391	4.40E-02	17.27939	5.76E-04	4.45E-02	Sensitive	34.03944	4.42E-02	22.65436	4.50E-03	4.88E-02	9.33E-02
591218.2	4208438	18.85081	3.28E-02	16.96357	5.66E-04	3.34E-02	Sensitive	25.54186	3.32E-02	22.36111	4.44E-03	3.76E-02	7.10E-02
591204.3	4208440	15.32887	2.67E-02	17.0594	5.69E-04	2.72E-02	Sensitive	20.16624	2.62E-02	23.06948	4.59E-03	3.08E-02	5.80E-02
591200	4208477	14.55409	2.53E-02	10.70654	3.57E-04	2.57E-02	Sensitive	19.71735	2.56E-02	12.22571	2.43E-03	2.81E-02	5.37E-02
591200.7	4208490	14.03364	2.44E-02	9.42163	3.14E-04	2.47E-02	Sensitive	19.187	2.49E-02	10.5418	2.10E-03	2.70E-02	5.18E-02
591198.8	4208504	13.31	2.32E-02	8.21966	2.74E-04	2.34E-02	Sensitive	18.22829	2.37E-02	9.08334	1.81E-03	2.55E-02	4.89E-02
591200.7	4208517	13.97769	2.43E-02	7.53899	2.51E-04	2.46E-02	Sensitive	19.24649	2.50E-02	8.20766	1.63E-03	2.67E-02	5.12E-02
591200	4208530	14.46212	2.52E-02	6.96913	2.32E-04	2.54E-02	Sensitive	19.8921	2.59E-02	7.50469	1.49E-03	2.74E-02	5.27E-02
591199.4	4208542	15.18224	2.64E-02	6.61989	2.21E-04	2.66E-02	Sensitive	20.83817	2.71E-02	7.06386	1.40E-03	2.85E-02	5.51E-02
591198.5	4208558	16.82706	2.93E-02	6.25113	2.08E-04	2.95E-02	Sensitive	22.98695	2.99E-02	6.61319	1.31E-03	3.12E-02	6.07E-02
591197.9	4208572	17.8831	3.11E-02	5.91541	1.97E-04	3.13E-02	Sensitive	24.33388	3.16E-02	6.22367	1.24E-03	3.29E-02	6.42E-02
591197.9	4208584	17.979	3.13E-02	5.5894	1.86E-04	3.15E-02	Sensitive	24.47345	3.18E-02	5.86267	1.17E-03	3.30E-02	6.44E-02
591197	4208598	17.89803	3.11E-02	5.24297	1.75E-04	3.13E-02	Sensitive	24.33246	3.16E-02	5.48303	1.09E-03	3.27E-02	6.40E-02
591198.2	4208612	18.28108	3.18E-02	4.97484	1.66E-04	3.20E-02	Sensitive	24.88484	3.23E-02	5.18971	1.03E-03	3.34E-02	6.53E-02
591197.3	4208626	18.27319	3.18E-02	4.70936	1.57E-04	3.19E-02	Sensitive	24.80309	3.22E-02	4.90214	9.74E-04	3.32E-02	6.52E-02
591196.7	4208639	18.75143	3.26E-02	4.5247	1.51E-04	3.28E-02	Sensitive	25.31465	3.29E-02	4.70375	9.35E-04	3.38E-02	6.66E-02
591197	4208655	19.39365	3.37E-02	4.32841	1.44E-04	3.39E-02	Sensitive	26.01869	3.38E-02	4.4925	8.93E-04	3.47E-02	6.86E-02
591235.6	4208670	30.42362	5.29E-02	4.09674	1.37E-04	5.31E-02	Sensitive	45.75602	5.95E-02	4.22068	8.39E-04	6.03E-02	1.13E-01
591223.9	4208685	26.07894	4.54E-02	3.94466	1.32E-04	4.55E-02	Sensitive	36.32162	4.72E-02	4.06215	8.07E-04	4.80E-02	9.35E-02
591204.2	4208687	20.47428	3.56E-02	3.9383	1.31E-04	3.57E-02	Sensitive	27.24714	3.54E-02	4.0663	8.08E-04	3.62E-02	7.20E-02
591190.3	4208691	17.39397	3.03E-02	3.87505	1.29E-04	3.04E-02	Sensitive	22.74493	2.96E-02	4.0073	7.96E-04	3.04E-02	6.07E-02
591178	4208692	15.32702	2.67E-02	3.84292	1.28E-04	2.68E-02	Sensitive	19.85428	2.58E-02	3.98083	7.91E-04	2.66E-02	5.34E-02
591180.2	4208656	16.27968	2.83E-02	4.28916	1.43E-04	2.85E-02	Sensitive	21.44825	2.79E-02	4.45631	8.86E-04	2.88E-02	5.72E-02
591178.6	4208641	15.97583	2.78E-02	4.49181	1.50E-04	2.79E-02	Sensitive	21.08607	2.74E-02	4.66798	9.28E-04	2.83E-02	5.63E-02
591178.3	4208628	15.82585	2.75E-02	4.68372	1.56E-04	2.77E-02	Sensitive	20.91886	2.72E-02	4.88247	9.70E-04	2.82E-02	5.58E-02
591178.3	4208615	15.58833	2.71E-02	4.88853	1.63E-04	2.73E-02	Sensitive	20.63031	2.68E-02	5.11152	1.02E-03	2.78E-02	5.51E-02
591180.2	4208600	15.47224	2.69E-02	5.1688	1.72E-04	2.71E-02	Sensitive	20.54081	2.67E-02	5.4137	1.08E-03	2.78E-02	5.49E-02
591178.6	4208586	15.01011	2.61E-02	5.49395	1.83E-04	2.63E-02	Sensitive	19.88556	2.59E-02	5.77726	1.15E-03	2.70E-02	5.33E-02
591178.6	4208574	14.81129	2.58E-02	5.79448	1.93E-04	2.60E-02	Sensitive	19.61615	2.55E-02	6.11373	1.22E-03	2.67E-02	5.27E-02
591180.2	4208559	14.29705	2.49E-02	6.19549	2.07E-04	2.51E-02	Sensitive	18.96789	2.47E-02	6.56863	1.31E-03	2.60E-02	5.10E-02
591179.2	4208544	13.18327	2.29E-02	6.55362	2.18E-04	2.31E-02	Sensitive	17.45522	2.27E-02	7.02209	1.40E-03	2.41E-02	4.72E-02
591178.9	4208531	12.42684	2.16E-02	6.98163	2.33E-04	2.18E-02	Sensitive	16.42301	2.13E-02	7.54898	1.50E-03	2.28E-02	4.47E-02
591179.9	4208519	11.92787	2.07E-02	7.49663	2.50E-04	2.10E-02	Sensitive	15.75975	2.05E-02	8.19862	1.63E-03	2.21E-02	4.31E-02
591179.2	4208505	11.29429	1.96E-02	8.2308	2.74E-04	1.99E-02	Sensitive	14.86793	1.93E-02	9.18969	1.83E-03	2.12E-02	4.11E-02
591179.9	4208489	11.42957	1.99E-02	9.60875	3.20E-04	2.02E-02	Sensitive	15.01786	1.95E-02	10.9435	2.17E-03	2.17E-02	4.19E-02
591179.6	4208477	11.51527	2.00E-02	10.85684	3.62E-04	2.04E-02	Sensitive	15.06558	1.96E-02	12.6595	2.52E-03	2.21E-02	4.25E-02
591192.5	4208439	12.70902	2.21E-02	17.4418	5.82E-04	2.27E-02	Sensitive	16.51873	2.15E-02	24.79677	4.93E-03	2.64E-02	4.91E-02
591178.9	4208443	10.74282	1.87E-02	16.89368	5.63E-04	1.92E-02	Sensitive	13.77725	1.79E-02	24.13802	4.80E-03	2.27E-02	4.20E-02
591164.7	4208446	9.55081	1.66E-02	16.72773	5.58E-04	1.72E-02	Sensitive	12.06099	1.57E-02	24.09837	4.79E-03	2.05E-02	3.76E-02
591269.4	4208361	15.36721	2.67E-02	15.52883	5.18E-04	2.72E-02	Sensitive	16.14606	2.10E-02	18.71034	3.72E-03	2.47E-02	5.20E-02
591311.8	4208351	14.78646	2.57E-02	14.41811	4.81E-04	2.62E-02	Sensitive	17.78261	2.31E-02	16.89622	3.36E-03	2.65E-02	5.27E-02
591327.8	4208344	12.80404	2.23E-02	12.51837	4.17E-04	2.27E-02	Sensitive	15.85952	2.06E-02	14.42411	2.87E-03	2.35E-02	4.62E-02

Alves Ranch Project **Phase 1** **2020 No Mitigation**

Estimation of Construction PM2.5 Concentrations

DPM Emissions from Construction Area Source:	1.75E-08	g/m2-sec
DPM Emissions from Offsite Mobile Source Emissions:	1.18E-04	g/sec
DPM AERMOD Area SourceEmissions Multiplier	1.00E-05	
DPM AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	
Dust Emissions from Construction Area Source:	0.00E+00	
DustEmissions from Offsite Mobile Source Emissions:	1.09E-03	
Dust AERMOD Area SourceEmissions Multiplier	1.00E-05	
Dust AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	

		DPM (as PM2.5 Exhaust)						PM2.5 Fugitive Dust					
		Area Source DPM w/	Area Source DPM w/	Offsite Source DPM w/	Offsite Source DPM w/	Total		Area Source Dust w/	Area Source Dust w/	Offsite Source Dust w/	Offsite Source Dust w/	Total	Total
X	Y	Unit Emis	Actual Emis	Unit Emis	Actual Emis	DPM		Unit Emis	Actual Emis	Unit Emis	Actual Emis	Dust	PM2.5
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)		(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
591236.2	4208654	29.54054	5.17E-02	4.30882	5.10E-04	5.22E-02	Sensitive	44.93764	0.00E+00	4.45223	4.84E-03	4.84E-03	5.70E-02
591234.5	4208641	26.81016	4.69E-02	4.48305	5.31E-04	4.74E-02	Sensitive	40.42225	0.00E+00	4.646	5.05E-03	5.05E-03	5.25E-02
591232.7	4208626	24.02479	4.20E-02	4.67025	5.53E-04	4.26E-02	Sensitive	36.44367	0.00E+00	4.85364	5.28E-03	5.28E-03	4.78E-02
591233.6	4208613	24.98369	4.37E-02	4.93147	5.84E-04	4.43E-02	Sensitive	37.83457	0.00E+00	5.13395	5.58E-03	5.58E-03	4.99E-02
591233.6	4208600	25.7327	4.50E-02	5.19894	6.16E-04	4.56E-02	Sensitive	38.71366	0.00E+00	5.42542	5.90E-03	5.90E-03	5.15E-02
591234.9	4208584	27.30214	4.77E-02	5.58097	6.61E-04	4.84E-02	Sensitive	40.97945	0.00E+00	5.8448	6.35E-03	6.35E-03	5.48E-02
591234.9	4208569	28.24101	4.94E-02	5.96973	7.07E-04	5.01E-02	Sensitive	42.12677	0.00E+00	6.28284	6.83E-03	6.83E-03	5.69E-02
591234.9	4208555	25.39267	4.44E-02	6.33489	7.50E-04	4.52E-02	Sensitive	38.36545	0.00E+00	6.69017	7.27E-03	7.27E-03	5.24E-02
591235.3	4208541	22.42152	3.92E-02	6.67632	7.91E-04	4.00E-02	Sensitive	34.66087	0.00E+00	7.09197	7.71E-03	7.71E-03	4.77E-02
591235.3	4208528	21.61267	3.78E-02	7.16541	8.49E-04	3.86E-02	Sensitive	33.5052	0.00E+00	7.66102	8.33E-03	8.33E-03	4.70E-02
591234.9	4208514	21.78832	3.81E-02	7.7801	9.22E-04	3.90E-02	Sensitive	33.43661	0.00E+00	8.38369	9.11E-03	9.11E-03	4.81E-02
591235.8	4208501	22.79521	3.99E-02	8.54426	1.01E-03	4.09E-02	Sensitive	34.7449	0.00E+00	9.28275	1.01E-02	1.01E-02	5.10E-02
591235.8	4208486	24.65757	4.31E-02	9.65262	1.14E-03	4.43E-02	Sensitive	36.97006	0.00E+00	10.66128	1.16E-02	1.16E-02	5.59E-02
591238	4208472	27.01754	4.72E-02	10.92132	1.29E-03	4.85E-02	Sensitive	40.84009	0.00E+00	12.27014	1.33E-02	1.33E-02	6.19E-02
591239.5	4208453	29.68242	5.19E-02	13.45274	1.59E-03	5.35E-02	Sensitive	42.39109	0.00E+00	15.84932	1.72E-02	1.72E-02	7.07E-02
591234	4208435	25.27391	4.42E-02	17.27939	2.05E-03	4.62E-02	Sensitive	34.03944	0.00E+00	22.65436	2.46E-02	2.46E-02	7.09E-02
591218.2	4208438	18.85081	3.30E-02	16.96357	2.01E-03	3.50E-02	Sensitive	25.54186	0.00E+00	22.36111	2.43E-02	2.43E-02	5.93E-02
591204.3	4208440	15.32887	2.68E-02	17.0594	2.02E-03	2.88E-02	Sensitive	20.16624	0.00E+00	23.06948	2.51E-02	2.51E-02	5.39E-02
591200	4208477	14.55409	2.55E-02	10.70654	1.27E-03	2.67E-02	Sensitive	19.71735	0.00E+00	12.22571	1.33E-02	1.33E-02	4.00E-02
591200.7	4208490	14.03364	2.45E-02	9.42163	1.12E-03	2.57E-02	Sensitive	19.187	0.00E+00	10.5418	1.15E-02	1.15E-02	3.71E-02
591198.8	4208504	13.31	2.33E-02	8.21966	9.74E-04	2.42E-02	Sensitive	18.22829	0.00E+00	9.08334	9.87E-03	9.87E-03	3.41E-02
591200.7	4208517	13.97769	2.44E-02	7.53899	8.93E-04	2.53E-02	Sensitive	19.24649	0.00E+00	8.20766	8.92E-03	8.92E-03	3.43E-02
591200	4208530	14.46212	2.53E-02	6.96913	8.25E-04	2.61E-02	Sensitive	19.8921	0.00E+00	7.50469	8.16E-03	8.16E-03	3.43E-02
591199.4	4208542	15.18224	2.66E-02	6.61989	7.84E-04	2.73E-02	Sensitive	20.83817	0.00E+00	7.06386	7.68E-03	7.68E-03	3.50E-02
591198.5	4208558	16.82706	2.94E-02	6.25113	7.40E-04	3.02E-02	Sensitive	22.98695	0.00E+00	6.61319	7.19E-03	7.19E-03	3.74E-02
591197.9	4208572	17.8831	3.13E-02	5.91541	7.01E-04	3.20E-02	Sensitive	24.33388	0.00E+00	6.22367	6.77E-03	6.77E-03	3.87E-02
591197.9	4208584	17.979	3.14E-02	5.5894	6.62E-04	3.21E-02	Sensitive	24.47345	0.00E+00	5.86267	6.37E-03	6.37E-03	3.85E-02
591197	4208598	17.89803	3.13E-02	5.24297	6.21E-04	3.19E-02	Sensitive	24.33246	0.00E+00	5.48303	5.96E-03	5.96E-03	3.79E-02
591198.2	4208612	18.28108	3.20E-02	4.97484	5.89E-04	3.26E-02	Sensitive	24.88484	0.00E+00	5.18971	5.64E-03	5.64E-03	3.82E-02
591197.3	4208626	18.27319	3.20E-02	4.70936	5.58E-04	3.25E-02	Sensitive	24.80309	0.00E+00	4.90214	5.33E-03	5.33E-03	3.78E-02
591196.7	4208639	18.75143	3.28E-02	4.5247	5.36E-04	3.33E-02	Sensitive	25.31465	0.00E+00	4.70375	5.11E-03	5.11E-03	3.84E-02
591197	4208655	19.39365	3.39E-02	4.32841	5.13E-04	3.44E-02	Sensitive	26.01869	0.00E+00	4.4925	4.88E-03	4.88E-03	3.93E-02
591235.6	4208670	30.42362	5.32E-02	4.09674	4.85E-04	5.37E-02	Sensitive	45.75602	0.00E+00	4.22068	4.59E-03	4.59E-03	5.83E-02
591223.9	4208685	26.07894	4.56E-02	3.94466	4.67E-04	4.61E-02	Sensitive	36.32162	0.00E+00	4.06215	4.42E-03	4.42E-03	5.05E-02
591204.2	4208687	20.47428	3.58E-02	3.9383	4.66E-04	3.63E-02	Sensitive	27.24714	0.00E+00	4.0663	4.42E-03	4.42E-03	4.07E-02
591190.3	4208691	17.39397	3.04E-02	3.87505	4.59E-04	3.09E-02	Sensitive	22.74493	0.00E+00	4.0073	4.36E-03	4.36E-03	3.52E-02
591178	4208692	15.32702	2.68E-02	3.84292	4.55E-04	2.73E-02	Sensitive	19.85428	0.00E+00	3.98083	4.33E-03	4.33E-03	3.16E-02
591180.2	4208656	16.27968	2.85E-02	4.28916	5.08E-04	2.90E-02	Sensitive	21.44825	0.00E+00	4.45631	4.84E-03	4.84E-03	3.38E-02
591178.6	4208641	15.97583	2.79E-02	4.49181	5.32E-04	2.85E-02	Sensitive	21.08607	0.00E+00	4.66798	5.07E-03	5.07E-03	3.35E-02
591178.3	4208628	15.82585	2.77E-02	4.68372	5.55E-04	2.82E-02	Sensitive	20.91886	0.00E+00	4.88247	5.31E-03	5.31E-03	3.35E-02
591178.3	4208615	15.58833	2.73E-02	4.88853	5.79E-04	2.78E-02	Sensitive	20.63031	0.00E+00	5.11152	5.56E-03	5.56E-03	3.34E-02
591180.2	4208600	15.47224	2.71E-02	5.1688	6.12E-04	2.77E-02	Sensitive	20.54081	0.00E+00	5.4137	5.88E-03	5.88E-03	3.36E-02
591178.6	4208586	15.01011	2.62E-02	5.49395	6.51E-04	2.69E-02	Sensitive	19.88556	0.00E+00	5.77726	6.28E-03	6.28E-03	3.32E-02
591178.6	4208574	14.81129	2.59E-02	5.79448	6.86E-04	2.66E-02	Sensitive	19.61615	0.00E+00	6.11373	6.65E-03	6.65E-03	3.32E-02
591180.2	4208559	14.29705	2.50E-02	6.19549	7.34E-04	2.57E-02	Sensitive	18.96789	0.00E+00	6.56863	7.14E-03	7.14E-03	3.29E-02
591179.2	4208544	13.18327	2.31E-02	6.55362	7.76E-04	2.38E-02	Sensitive	17.45522	0.00E+00	7.02209	7.63E-03	7.63E-03	3.15E-02
591178.9	4208531	12.42684	2.17E-02	6.98163	8.27E-04	2.26E-02	Sensitive	16.42301	0.00E+00	7.54898	8.21E-03	8.21E-03	3.08E-02
591179.9	4208519	11.92787	2.09E-02	7.49663	8.88E-04	2.17E-02	Sensitive	15.75975	0.00E+00	8.19862	8.91E-03	8.91E-03	3.07E-02
591179.2	4208505	11.29429	1.98E-02	8.2308	9.75E-04	2.07E-02	Sensitive	14.86793	0.00E+00	9.18969	9.99E-03	9.99E-03	3.07E-02
591179.9	4208489	11.42957	2.00E-02	9.60875	1.14E-03	2.11E-02	Sensitive	15.01786	0.00E+00	10.9435	1.19E-02	1.19E-02	3.30E-02
591179.6	4208477	11.51527	2.01E-02	10.85684	1.29E-03	2.14E-02	Sensitive	15.06558	0.00E+00	12.6595	1.38E-02	1.38E-02	3.52E-02
591192.5	4208439	12.70902	2.22E-02	17.4418	2.07E-03	2.43E-02	Sensitive	16.51873	0.00E+00	24.79677	2.70E-02	2.70E-02	5.12E-02

Alves Ranch Project **Phase 1** **2021 No Mitigation**

Estimation of Construction DPM Concentrations

DPM Emissions from Construction Area Source:	6.89E-09	g/m2-sec
DPM Emissions from Offsite Mobile Source Emissions:	1.22E-05	g/sec
DPM AERMOD Area SourceEmissions Multiplier	1.00E-05	
DPM AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	
Dust Emissions from Construction Area Source:	0.00E+00	
DustEmissions from Offsite Mobile Source Emissions:	3.77E-04	
Dust AERMOD Area SourceEmissions Multiplier	1.00E-05	
Dust AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	

		DPM (as PM2.5 Exhaust)						PM2.5 Fugitive Dust					
		Area Source	Area Source	Offsite Source	Offsite Source			Area Source	Area Source	Offsite Source	Offsite Source		
		DPM w/	DPM w/	DPM w/	DPM w/	Total		Dust w/	Dust w/	Dust w/	Dust w/	Total	Total
X	Y	Unit Emis	Actual Emis	Unit Emis	Actual Emis	DPM		Unit Emis	Actual Emis	Unit Emis	Actual Emis	Dust	PM2.5
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)		(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
591236.2	4208654	29.54054	2.03E-02	4.30882	5.25E-05	2.04E-02	Sensitive	44.93764	0.00E+00	4.45223	1.68E-03	1.68E-03	2.21E-02
591234.5	4208641	26.81016	1.85E-02	4.48305	5.47E-05	1.85E-02	Sensitive	40.42225	0.00E+00	4.646	1.75E-03	1.75E-03	2.03E-02
591232.7	4208626	24.02479	1.65E-02	4.67025	5.70E-05	1.66E-02	Sensitive	36.44367	0.00E+00	4.85364	1.83E-03	1.83E-03	1.84E-02
591233.6	4208613	24.98369	1.72E-02	4.93147	6.01E-05	1.73E-02	Sensitive	37.83457	0.00E+00	5.13395	1.93E-03	1.93E-03	1.92E-02
591233.6	4208600	25.7327	1.77E-02	5.19894	6.34E-05	1.78E-02	Sensitive	38.71366	0.00E+00	5.42542	2.04E-03	2.04E-03	1.98E-02
591234.9	4208584	27.30214	1.88E-02	5.58097	6.81E-05	1.89E-02	Sensitive	40.97945	0.00E+00	5.8448	2.20E-03	2.20E-03	2.11E-02
591234.9	4208569	28.24101	1.94E-02	5.96973	7.28E-05	1.95E-02	Sensitive	42.12677	0.00E+00	6.28284	2.37E-03	2.37E-03	2.19E-02
591234.9	4208555	25.39267	1.75E-02	6.33489	7.73E-05	1.76E-02	Sensitive	38.36545	0.00E+00	6.69017	2.52E-03	2.52E-03	2.01E-02
591235.3	4208541	22.42152	1.54E-02	6.67632	8.14E-05	1.55E-02	Sensitive	34.66087	0.00E+00	7.09197	2.67E-03	2.67E-03	1.82E-02
591235.3	4208528	21.61267	1.49E-02	7.16541	8.74E-05	1.50E-02	Sensitive	33.5052	0.00E+00	7.66102	2.88E-03	2.88E-03	1.79E-02
591234.9	4208514	21.78832	1.50E-02	7.7801	9.49E-05	1.51E-02	Sensitive	33.43661	0.00E+00	8.38369	3.16E-03	3.16E-03	1.83E-02
591235.8	4208501	22.79521	1.57E-02	8.54426	1.04E-04	1.58E-02	Sensitive	34.7449	0.00E+00	9.28275	3.50E-03	3.50E-03	1.93E-02
591235.8	4208486	24.65757	1.70E-02	9.65262	1.18E-04	1.71E-02	Sensitive	36.97006	0.00E+00	10.66128	4.01E-03	4.01E-03	2.11E-02
591238	4208472	27.01754	1.86E-02	10.92132	1.33E-04	1.87E-02	Sensitive	40.84009	0.00E+00	12.27014	4.62E-03	4.62E-03	2.34E-02
591239.5	4208453	29.68242	2.04E-02	13.45274	1.64E-04	2.06E-02	Sensitive	42.39109	0.00E+00	15.84932	5.97E-03	5.97E-03	2.66E-02
591234	4208435	25.27391	1.74E-02	17.27939	2.11E-04	1.76E-02	Sensitive	34.03944	0.00E+00	22.65436	8.53E-03	8.53E-03	2.61E-02
591218.2	4208438	18.85081	1.30E-02	16.96357	2.07E-04	1.32E-02	Sensitive	25.54186	0.00E+00	22.36111	8.42E-03	8.42E-03	2.16E-02
591204.3	4208440	15.32887	1.06E-02	17.0594	2.08E-04	1.08E-02	Sensitive	20.16624	0.00E+00	23.06948	8.69E-03	8.69E-03	1.95E-02
591200	4208477	14.55409	1.00E-02	10.70654	1.31E-04	1.02E-02	Sensitive	19.71735	0.00E+00	12.22571	4.60E-03	4.60E-03	1.48E-02
591200.7	4208490	14.03364	9.67E-03	9.42163	1.15E-04	9.78E-03	Sensitive	19.187	0.00E+00	10.5418	3.97E-03	3.97E-03	1.37E-02
591198.8	4208504	13.31	9.17E-03	8.21966	1.00E-04	9.27E-03	Sensitive	18.22829	0.00E+00	9.08334	3.42E-03	3.42E-03	1.27E-02
591200.7	4208517	13.97769	9.63E-03	7.53899	9.19E-05	9.72E-03	Sensitive	19.24649	0.00E+00	8.20766	3.09E-03	3.09E-03	1.28E-02
591200	4208530	14.46212	9.96E-03	6.96913	8.50E-05	1.00E-02	Sensitive	19.8921	0.00E+00	7.50469	2.83E-03	2.83E-03	1.29E-02
591199.4	4208542	15.18224	1.05E-02	6.61989	8.07E-05	1.05E-02	Sensitive	20.83817	0.00E+00	7.06386	2.66E-03	2.66E-03	1.32E-02
591198.5	4208558	16.82706	1.16E-02	6.25113	7.62E-05	1.17E-02	Sensitive	22.98695	0.00E+00	6.61319	2.49E-03	2.49E-03	1.42E-02
591197.9	4208572	17.8831	1.23E-02	5.91541	7.21E-05	1.24E-02	Sensitive	24.33388	0.00E+00	6.22367	2.34E-03	2.34E-03	1.47E-02
591197.9	4208584	17.979	1.24E-02	5.5894	6.82E-05	1.25E-02	Sensitive	24.47345	0.00E+00	5.86267	2.21E-03	2.21E-03	1.47E-02
591197	4208598	17.89803	1.23E-02	5.24297	6.39E-05	1.24E-02	Sensitive	24.33246	0.00E+00	5.48303	2.06E-03	2.06E-03	1.45E-02
591198.2	4208612	18.28108	1.26E-02	4.97484	6.07E-05	1.27E-02	Sensitive	24.88484	0.00E+00	5.18971	1.95E-03	1.95E-03	1.46E-02
591197.3	4208626	18.27319	1.26E-02	4.70936	5.74E-05	1.26E-02	Sensitive	24.80309	0.00E+00	4.90214	1.85E-03	1.85E-03	1.45E-02
591196.7	4208639	18.75143	1.29E-02	4.5247	5.52E-05	1.30E-02	Sensitive	25.31465	0.00E+00	4.70375	1.77E-03	1.77E-03	1.47E-02
591197	4208655	19.39365	1.34E-02	4.32841	5.28E-05	1.34E-02	Sensitive	26.01869	0.00E+00	4.4925	1.69E-03	1.69E-03	1.51E-02
591235.6	4208670	30.42362	2.10E-02	4.09674	5.00E-05	2.10E-02	Sensitive	45.75602	0.00E+00	4.22068	1.59E-03	1.59E-03	2.26E-02
591223.9	4208685	26.07894	1.80E-02	3.94466	4.81E-05	1.80E-02	Sensitive	36.32162	0.00E+00	4.06215	1.53E-03	1.53E-03	1.95E-02
591204.2	4208687	20.47428	1.41E-02	3.9383	4.80E-05	1.41E-02	Sensitive	27.24714	0.00E+00	4.0663	1.53E-03	1.53E-03	1.57E-02
591190.3	4208691	17.39397	1.20E-02	3.87505	4.73E-05	1.20E-02	Sensitive	22.74493	0.00E+00	4.0073	1.51E-03	1.51E-03	1.35E-02
591178	4208692	15.32702	1.06E-02	3.84292	4.69E-05	1.06E-02	Sensitive	19.85428	0.00E+00	3.98083	1.50E-03	1.50E-03	1.21E-02
591180.2	4208656	16.27968	1.12E-02	4.28916	5.23E-05	1.13E-02	Sensitive	21.44825	0.00E+00	4.45631	1.68E-03	1.68E-03	1.29E-02
591178.6	4208641	15.97583	1.10E-02	4.49181	5.48E-05	1.11E-02	Sensitive	21.08607	0.00E+00	4.66798	1.76E-03	1.76E-03	1.28E-02
591178.3	4208628	15.82585	1.09E-02	4.68372	5.71E-05	1.10E-02	Sensitive	20.91886	0.00E+00	4.88247	1.84E-03	1.84E-03	1.28E-02
591178.3	4208615	15.58833	1.07E-02	4.88853	5.96E-05	1.08E-02	Sensitive	20.63031	0.00E+00	5.11152	1.92E-03	1.92E-03	1.27E-02
591180.2	4208600	15.47224	1.07E-02	5.1688	6.30E-05	1.07E-02	Sensitive	20.54081	0.00E+00	5.4137	2.04E-03	2.04E-03	1.28E-02
591178.6	4208586	15.01011	1.03E-02	5.49395	6.70E-05	1.04E-02	Sensitive	19.88556	0.00E+00	5.77726	2.18E-03	2.18E-03	1.26E-02
591178.6	4208574	14.81129	1.02E-02	5.79448	7.07E-05	1.03E-02	Sensitive	19.61615	0.00E+00	6.11373	2.30E-03	2.30E-03	1.26E-02
591180.2	4208559	14.29705	9.85E-03	6.19549	7.56E-05	9.92E-03	Sensitive	18.96789	0.00E+00	6.56863	2.47E-03	2.47E-03	1.24E-02
591179.2	4208544	13.18327	9.08E-03	6.55362	7.99E-05	9.16E-03	Sensitive	17.45522	0.00E+00	7.02209	2.64E-03	2.64E-03	1.18E-02
591178.9	4208531	12.42684	8.56E-03	6.98163	8.51E-05	8.64E-03	Sensitive	16.42301	0.00E+00	7.54898	2.84E-03	2.84E-03	1.15E-02
591179.9	4208519	11.92787	8.21E-03	7.49663	9.14E-05	8.31E-03	Sensitive	15.75975	0.00E+00	8.19862	3.09E-03	3.09E-03	1.14E-02
591179.2	4208505	11.29429	7.78E-03	8.2308	1.00E-04	7.88E-03	Sensitive	14.86793	0.00E+00	9.18969	3.46E-03	3.46E-03	1.13E-02
591179.9	4208489	11.42957	7.87E-03	9.60875	1.17E-04	7.99E-03	Sensitive	15.01786	0.00E+00	10.9435	4.12E-03	4.12E-03	1.21E-02
591179.6	4208477	11.51527	7.93E-03	10.85684	1.32E-04	8.06E-03	Sensitive	15.06558	0.00E+00	12.6595	4.77E-03	4.77E-03	1.28E-02
591192.5	4208439	12.70902	8.75E-03	17.4418	2.13E-04	8.97E-03	Sensitive	16.51873	0.00E+00	24.79677	9.34E-03	9.34E-03	1.83E-02

Alves Ranch Project

Annual DPM Concentrations During Construction **Without Mitigation**

X (m)	Y (m)	2019 (ug/m3)	2020 (ug/m3)	2021 (ug/m3)	
591236.2	4208654	5.15E-02	5.22E-02	2.04E-02	Sensitive
591234.5	4208641	4.68E-02	4.74E-02	1.85E-02	Sensitive
591232.7	4208626	4.19E-02	4.26E-02	1.66E-02	Sensitive
591233.6	4208613	4.36E-02	4.43E-02	1.73E-02	Sensitive
591233.6	4208600	4.49E-02	4.56E-02	1.78E-02	Sensitive
591234.9	4208584	4.77E-02	4.84E-02	1.89E-02	Sensitive
591234.9	4208569	4.93E-02	5.01E-02	1.95E-02	Sensitive
591234.9	4208555	4.44E-02	4.52E-02	1.76E-02	Sensitive
591235.3	4208541	3.92E-02	4.00E-02	1.55E-02	Sensitive
591235.3	4208528	3.78E-02	3.86E-02	1.50E-02	Sensitive
591234.9	4208514	3.82E-02	3.90E-02	1.51E-02	Sensitive
591235.8	4208501	3.99E-02	4.09E-02	1.58E-02	Sensitive
591235.8	4208486	4.32E-02	4.43E-02	1.71E-02	Sensitive
591238	4208472	4.74E-02	4.85E-02	1.87E-02	Sensitive
591239.5	4208453	5.21E-02	5.35E-02	2.06E-02	Sensitive
591234	4208435	4.45E-02	4.62E-02	1.76E-02	Sensitive
591218.2	4208438	3.34E-02	3.50E-02	1.32E-02	Sensitive
591204.3	4208440	2.72E-02	2.88E-02	1.08E-02	Sensitive
591200	4208477	2.57E-02	2.67E-02	1.02E-02	Sensitive
591200.7	4208490	2.47E-02	2.57E-02	9.78E-03	Sensitive
591198.8	4208504	2.34E-02	2.42E-02	9.27E-03	Sensitive
591200.7	4208517	2.46E-02	2.53E-02	9.72E-03	Sensitive
591200	4208530	2.54E-02	2.61E-02	1.00E-02	Sensitive
591199.4	4208542	2.66E-02	2.73E-02	1.05E-02	Sensitive
591198.5	4208558	2.95E-02	3.02E-02	1.17E-02	Sensitive
591197.9	4208572	3.13E-02	3.20E-02	1.24E-02	Sensitive
591197.9	4208584	3.15E-02	3.21E-02	1.25E-02	Sensitive
591197	4208598	3.13E-02	3.19E-02	1.24E-02	Sensitive
591198.2	4208612	3.20E-02	3.26E-02	1.27E-02	Sensitive
591197.3	4208626	3.19E-02	3.25E-02	1.26E-02	Sensitive
591196.7	4208639	3.28E-02	3.33E-02	1.30E-02	Sensitive
591197	4208655	3.39E-02	3.44E-02	1.34E-02	Sensitive
591235.6	4208670	5.31E-02	5.37E-02	2.10E-02	Sensitive

BAAQMD Risk Methodology

Cancer Risk = DPM x CPF x ASF x DBR x ED x EF x TAH / AT

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 70 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model (ug/m3)

CPF = cancer potency factor for DPM (mg.ke-day)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual (liters/kg-day)

ED = exposure duration (years of construction)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

Cancer Risk Equation Values as recommended by the BAAQMD

Sensitive Receptors

CPF	1.1	milligrams/kg-day
Exposure Frequency	350	days
Averaging Time	25550	days

ASF, DBR, TAH Age Factors

Age Group	Duration	ASF	DBR	TAH	Unit Risk Factor Per Each Year
3rd Trimester	0.25	10	361	0.85	11.6
0-2 years	2	10	1090	0.85	139.6
3-16 years	1	3	572	0.72	18.6
>16 to 30 years	0	1	261	0.73	0.0

Child Receptors
3 to 16 year of age

CPF	1.1	milligrams/kg-day
Exposure Frequency	350	days
Averaging Time	25550	days

ASF, DBR, TAH Age Factors

Age Group	Duration	ASF	DBR	TAH	Unit Risk Factor Per Each Year
3rd Trimester	0	10	361	0.85	0.0
0-2 years	0	10	1090	0.85	0.0
3-16 years	3	3	572	0.72	18.6
>16 to 70 years	0	1	261	0.73	0.0

Adult Receptors
> 16 year of age

CPF	1.1	milligrams/kg-day
Exposure Frequency	350	days
Averaging Time	25550	days

ASF, DBR, TAH Age Factors

Age Group	Duration	ASF	DBR	TAH	Unit Risk Factor Per Each Year
3rd Trimester	0	10	361	0.85	0.0
0-2 years	0	10	1090	0.85	139.6
3-16 years	0	3	572	0.72	18.6
>16 to 30 years	3	1	261	0.73	2.9

Alves Ranch Project

Without Mitigation No Variable Emission Factors

Cancer Risk - Infant **Maximum Risk @ Sensitive Receptors:** **15.907**

	2019	2019	2020	2021
Age	**3rd Trimester**	**1**	**2**	**3**
Unit Risk Factor	11.56	139.61	139.61	18.62

Annual Risk (risk/million)

		3rd trimester					
X	Y	2019	2019	2020	2021	Total	
591236.21	4208653.71	5.96E-01	7.193	7.283	0.380	15.452	Sensitive
591234.46	4208640.57	5.41E-01	6.531	6.620	0.345	14.036	Sensitive
591232.71	4208626.11	4.85E-01	5.856	5.943	0.309	12.592	Sensitive
591233.58	4208612.54	5.04E-01	6.090	6.181	0.321	13.097	Sensitive
591233.58	4208599.83	5.19E-01	6.273	6.368	0.331	13.492	Sensitive
591234.9	4208583.63	5.51E-01	6.656	6.758	0.351	14.316	Sensitive
591234.9	4208568.74	5.70E-01	6.885	6.994	0.363	14.813	Sensitive
591234.9	4208554.72	5.13E-01	6.196	6.304	0.327	13.340	Sensitive
591235.34	4208541.14	4.53E-01	5.476	5.585	0.289	11.803	Sensitive
591235.34	4208527.56	4.37E-01	5.281	5.395	0.279	11.393	Sensitive
591234.9	4208514.42	4.41E-01	5.327	5.448	0.281	11.497	Sensitive
591235.77	4208501.28	4.62E-01	5.575	5.707	0.294	12.038	Sensitive
591235.77	4208485.95	4.99E-01	6.032	6.180	0.318	13.030	Sensitive
591237.96	4208472.38	5.47E-01	6.611	6.777	0.349	14.285	Sensitive
591239.45	4208452.86	6.02E-01	7.270	7.469	0.384	15.725	Sensitive
591233.99	4208435.28	5.15E-01	6.218	6.456	0.328	13.517	Sensitive
591218.23	4208438.31	3.86E-01	4.656	4.883	0.246	10.170	Sensitive
591204.28	4208439.52	3.15E-01	3.802	4.025	0.200	8.341	Sensitive
591200.04	4208477.11	2.97E-01	3.584	3.730	0.189	7.800	Sensitive
591200.65	4208489.84	2.86E-01	3.452	3.582	0.182	7.502	Sensitive
591198.83	4208504.39	2.71E-01	3.270	3.385	0.173	7.099	Sensitive
591200.65	4208517.12	2.84E-01	3.429	3.537	0.181	7.431	Sensitive
591200.04	4208530.45	2.93E-01	3.544	3.646	0.187	7.671	Sensitive
591199.43	4208541.97	3.08E-01	3.717	3.816	0.196	8.038	Sensitive
591198.54	4208557.75	3.41E-01	4.115	4.212	0.217	8.885	Sensitive
591197.91	4208571.67	3.62E-01	4.370	4.464	0.231	9.426	Sensitive
591197.91	4208583.7	3.64E-01	4.392	4.482	0.232	9.469	Sensitive
591196.96	4208598.26	3.62E-01	4.371	4.456	0.231	9.419	Sensitive

Alves Ranch Project

Cancer Risk - Infant **Maximum Risk @ Sensitive Receptors:** **2.4**

	2019	2020	2021
Age	**1**	**2**	**3**
Unit Risk Factor	18.62	18.62	18.62

Annual Risk (risk/million)

X	Y	2019	2020	2021	Total	
591236.2	4208654	0.959	0.971	0.380	**2.310**	Sensitive
591234.5	4208641	0.871	0.883	0.345	**2.098**	Sensitive
591232.7	4208626	0.781	0.792	0.309	**1.882**	Sensitive
591233.6	4208613	0.812	0.824	0.321	**1.958**	Sensitive
591233.6	4208600	0.836	0.849	0.331	**2.017**	Sensitive
591234.9	4208584	0.888	0.901	0.351	**2.140**	Sensitive
591234.9	4208569	0.918	0.933	0.363	**2.214**	Sensitive
591234.9	4208555	0.826	0.841	0.327	**1.994**	Sensitive
591235.3	4208541	0.730	0.745	0.289	**1.764**	Sensitive
591235.3	4208528	0.704	0.719	0.279	**1.703**	Sensitive
591234.9	4208514	0.710	0.727	0.281	**1.718**	Sensitive
591235.8	4208501	0.743	0.761	0.294	**1.799**	Sensitive
591235.8	4208486	0.804	0.824	0.318	**1.947**	Sensitive
591238	4208472	0.882	0.904	0.349	**2.134**	Sensitive
591239.5	4208453	0.970	0.996	0.384	**2.349**	Sensitive
591234	4208435	0.829	0.861	0.328	**2.018**	Sensitive
591218.2	4208438	0.621	0.651	0.246	**1.518**	Sensitive
591204.3	4208440	0.507	0.537	0.200	**1.244**	Sensitive
591200	4208477	0.478	0.497	0.189	**1.164**	Sensitive
591200.7	4208490	0.460	0.478	0.182	**1.120**	Sensitive
591198.8	4208504	0.436	0.451	0.173	**1.060**	Sensitive
591200.7	4208517	0.457	0.472	0.181	**1.110**	Sensitive
591200	4208530	0.473	0.486	0.187	**1.146**	Sensitive
591199.4	4208542	0.496	0.509	0.196	**1.201**	Sensitive
591198.5	4208558	0.549	0.562	0.217	**1.328**	Sensitive
591197.9	4208572	0.583	0.595	0.231	**1.409**	Sensitive
591197.9	4208584	0.586	0.598	0.232	**1.415**	Sensitive
591197	4208598	0.583	0.594	0.231	**1.408**	Sensitive

Alves Ranch Project

No Mitigation

Cancer Risk - Adult **Maximum Risk @ Sensitive Receptors:** **0.37**

	2019	2020	2021
Age	**1**	**2**	**3**
Unit Risk Factor	2.87	2.87	2.87

Annual Risk (risk/million)

X	Y	2019	2020	2021	Total	
591236.2	4208654	0.148	0.150	0.059	**0.356**	Sensitive
591234.5	4208641	0.134	0.136	0.053	**0.324**	Sensitive
591232.7	4208626	0.120	0.122	0.048	**0.290**	Sensitive
591233.6	4208613	0.125	0.127	0.050	**0.302**	Sensitive
591233.6	4208600	0.129	0.131	0.051	**0.311**	Sensitive
591234.9	4208584	0.137	0.139	0.054	**0.330**	Sensitive
591234.9	4208569	0.142	0.144	0.056	**0.341**	Sensitive
591234.9	4208555	0.127	0.130	0.050	**0.307**	Sensitive
591235.3	4208541	0.113	0.115	0.045	**0.272**	Sensitive
591235.3	4208528	0.109	0.111	0.043	**0.263**	Sensitive
591234.9	4208514	0.110	0.112	0.043	**0.265**	Sensitive
591235.8	4208501	0.115	0.117	0.045	**0.277**	Sensitive
591235.8	4208486	0.124	0.127	0.049	**0.300**	Sensitive
591238	4208472	0.136	0.139	0.054	**0.329**	Sensitive
591239.5	4208453	0.150	0.154	0.059	**0.362**	Sensitive
591234	4208435	0.128	0.133	0.051	**0.311**	Sensitive
591218.2	4208438	0.096	0.100	0.038	**0.234**	Sensitive
591204.3	4208440	0.078	0.083	0.031	**0.192**	Sensitive
591200	4208477	0.074	0.077	0.029	**0.180**	Sensitive
591200.7	4208490	0.071	0.074	0.028	**0.173**	Sensitive
591198.8	4208504	0.067	0.070	0.027	**0.163**	Sensitive
591200.7	4208517	0.071	0.073	0.028	**0.171**	Sensitive
591200	4208530	0.073	0.075	0.029	**0.177**	Sensitive
591199.4	4208542	0.076	0.078	0.030	**0.185**	Sensitive
591198.5	4208558	0.085	0.087	0.033	**0.205**	Sensitive
591197.9	4208572	0.090	0.092	0.036	**0.217**	Sensitive
591197.9	4208584	0.090	0.092	0.036	**0.218**	Sensitive
591197	4208598	0.090	0.092	0.036	**0.217**	Sensitive

Alves Ranch Project

No Mitigation

Chronic Non-cancer Hazard Index - DPM **Max CNCHI @ Sensitive Receptor:** **1.07E-02**

CNCHI = Maximum Annual DPM / Reference Exposure Level

Reference Exposure Level for DPM is 5 ug/m3

X (x)	Y (y)	Max Annual DPM (ug/m3)	CNCHI	
591236.2	4208654	5.22E-02	1.04E-02	Sensitive
591234.5	4208641	4.74E-02	9.48E-03	Sensitive
591232.7	4208626	4.26E-02	8.51E-03	Sensitive
591233.6	4208613	4.43E-02	8.85E-03	Sensitive
591233.6	4208600	4.56E-02	9.12E-03	Sensitive
591234.9	4208584	4.84E-02	9.68E-03	Sensitive
591234.9	4208569	5.01E-02	1.00E-02	Sensitive
591234.9	4208555	4.52E-02	9.03E-03	Sensitive
591235.3	4208541	4.00E-02	8.00E-03	Sensitive
591235.3	4208528	3.86E-02	7.73E-03	Sensitive
591234.9	4208514	3.90E-02	7.80E-03	Sensitive
591235.8	4208501	4.09E-02	8.18E-03	Sensitive
591235.8	4208486	4.43E-02	8.85E-03	Sensitive
591238	4208472	4.85E-02	9.71E-03	Sensitive
591239.5	4208453	5.35E-02	1.07E-02	Sensitive
591234	4208435	4.62E-02	9.25E-03	Sensitive
591218.2	4208438	3.50E-02	7.00E-03	Sensitive
591204.3	4208440	2.88E-02	5.77E-03	Sensitive
591200	4208477	2.67E-02	5.34E-03	Sensitive
591200.7	4208490	2.57E-02	5.13E-03	Sensitive
591198.8	4208504	2.42E-02	4.85E-03	Sensitive
591200.7	4208517	2.53E-02	5.07E-03	Sensitive
591200	4208530	2.61E-02	5.22E-03	Sensitive
591199.4	4208542	2.73E-02	5.47E-03	Sensitive
591198.5	4208558	3.02E-02	6.03E-03	Sensitive
591197.9	4208572	3.20E-02	6.39E-03	Sensitive
591197.9	4208584	3.21E-02	6.42E-03	Sensitive
591197	4208598	3.19E-02	6.38E-03	Sensitive

Alves Ranch Project

Annual Average PM2.5 (Exhaust + Fugitive Dust) **Maximum Annual PM2.5 @ Sensitive Receptor 1.27E-01**

X (m)	Y (m)	2019 Annual PM2.5 (ug/m3)	2020 Annual PM2.5 (ug/m3)	2021 Annual PM2.5 (ug/m3)	Maximum Annual PM2.5 (ug/m3)	
591236.21	4208653.71	1.02E-01	2.93E-02	1.13E-02	1.02E-01	Sensitive
591234.46	4208640.57	9.28E-02	2.77E-02	1.07E-02	9.28E-02	Sensitive
591232.71	4208626.11	8.57E-02	2.61E-02	1.01E-02	8.57E-02	Sensitive
591233.58	4208612.54	9.06E-02	2.76E-02	1.07E-02	9.06E-02	Sensitive
591233.58	4208599.83	9.41E-02	2.88E-02	1.11E-02	9.41E-02	Sensitive
591234.9	4208583.63	1.01E-01	3.10E-02	1.20E-02	1.01E-01	Sensitive
591234.9	4208568.74	1.06E-01	3.24E-02	1.25E-02	1.06E-01	Sensitive
591234.9	4208554.72	9.83E-02	3.07E-02	1.18E-02	9.83E-02	Sensitive
591235.34	4208541.14	9.13E-02	2.89E-02	1.11E-02	9.13E-02	Sensitive
591235.34	4208527.56	9.00E-02	2.88E-02	1.10E-02	9.00E-02	Sensitive
591234.9	4208514.42	9.12E-02	2.96E-02	1.13E-02	9.12E-02	Sensitive
591235.77	4208501.28	9.59E-02	3.13E-02	1.20E-02	9.59E-02	Sensitive
591235.77	4208485.95	1.03E-01	3.40E-02	1.30E-02	1.03E-01	Sensitive
591237.96	4208472.38	1.16E-01	3.78E-02	1.44E-02	1.16E-01	Sensitive
591239.45	4208452.86	1.27E-01	4.23E-02	1.60E-02	1.27E-01	Sensitive
591233.99	4208435.28	1.10E-01	4.24E-02	1.57E-02	1.10E-01	Sensitive
591218.23	4208438.31	8.03E-02	3.46E-02	1.27E-02	8.03E-02	Sensitive
591204.28	4208439.52	6.45E-02	3.07E-02	1.11E-02	6.45E-02	Sensitive
591200.04	4208477.11	5.90E-02	2.31E-02	8.65E-03	5.90E-02	Sensitive
591200.65	4208489.84	5.68E-02	2.17E-02	8.14E-03	5.68E-02	Sensitive
591198.83	4208504.39	5.31E-02	1.99E-02	7.50E-03	5.31E-02	Sensitive
591200.65	4208517.12	5.46E-02	1.99E-02	7.54E-03	5.46E-02	Sensitive
591200.04	4208530.45	5.51E-02	1.97E-02	7.48E-03	5.51E-02	Sensitive
591199.43	4208541.97	5.63E-02	1.98E-02	7.55E-03	5.63E-02	Sensitive
591198.54	4208557.75	5.94E-02	2.05E-02	7.83E-03	5.94E-02	Sensitive

Alves Ranch Project

Estimation of Annual Construction PM2.5 Emissions (Mitigated)

Year: 2019

Start of Construction	6/1/2019
End of Construction	12/31/2019
Number of Hours	8760

Size of the Construction area source: 332855 sq-meters

Onsite

PM2.5 Exhaust

Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Site Preparation	0.0142		
Grading	0.0487		
Building Construction	0.0212		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.0841	0.0192	7.275E-09

PM2.5 Fugitive Dust

Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Site Preparation	0.0581		
Grading	0.0493		
Building Construction	0.0000		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.1074	0.025	9.290E-09

Offsite

PM2.5 Exhaust

Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00001	
Grading	0.00047		0.0000		0.00004	
Building Construction	0.00000		0.0040		0.00059	
Paving	0.00000		0.0000		0.00000	
Architectural Coating	0.00000		0.0000		0.00000	
Total	0.00047	1.353E-05	0.00404	1.163E-04	0.00064	1.843E-05

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

	DPM (as PM2.5 Exhaust)	
Haul Trucks	1.23E-06	g/sec
Vendor Trucks	2.90E-05	g/sec
Worker Vehicles	3.11E-06	g/sec
Total	3.33E-05	g/sec

PM2.5 Fugitive Dust

Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00057	
Grading	0.00047		0.0000		0.00158	
Building Construction	0.00000		0.0086		0.02510	
Paving	0.00000		0.0000		0.00000	
Architectural Coating	0.00000		0.0000		0.00000	
Total	0.00047	1.353E-05	0.00858	2.470E-04	0.02725	7.846E-04

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles

Vehicle Travel Distance in the HRA 1.82 mles

Total Offsite Vehicle Emissions Along Travel Distance

	PM2.5 Fugitive Dust	
Haul Trucks	1.232E-06	g/sec
Vendor Trucks	6.160E-05	g/sec
Worker Vehicles	1.322E-04	g/sec
Total	1.951E-04	g/sec

Summary

	PM2.5 Exhaust	PM2.5 Fugitive	PM2.5 Total
Onsite	0.0841 tons/year	0.1074 tons/year	0.1915 tons/year
Offsite	0.00515 tons/year	0.03630 tons/year	0.0415 tons/year
Total	0.08925 tons/year	0.1437 tons/year	0.2330 tons/year

Alves Ranch Project

Estimation of Annual Construction PM2.5 Emissions (Mitigated)

Year: 2020

Start of Construction	1/2/2020
End of Construction	12/31/2020
Number of Hours	8760

Size of the Construction area source: **332855 sq-meters**

DPM (as PM2.5 Exhaust)

Onsite	Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
	Site Preparation	0.0000		
	Grading	0.0000		
	Building Construction	0.1184		
	Paving	0.0000		
	Architectural Coating	0.0059		
	Total	0.1243	0.028379	1.075E-08

PM2.5 Fugitive Dust

Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Site Preparation	0.0000		
Grading	0.0000		
Building Construction	0.0000		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.0000	0	0.000E+00

PM2.5 Exhaust

Offsite	Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)	
	Site Preparation	0.00000		0.0000		0.00000		
	Grading	0.00000		0.0000		0.00000		
	Building Construction	0.00000		0.0141		0.00324		
	Paving	0.00000		0.0000		0.00000		
	Architectural Coating	0.00000		0.0000		0.00031		
	Total	0.00000	0	0.01410	4.06E-04	0.00355	0.000102213	0.017650

PM2.5 Fugitive Dust

Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00000	
Grading	0.00000		0.0000		0.00000	
Building Construction	0.00000		0.0478		0.14010	
Paving	0.00000		0.0000		0.00000	
Architectural Coating	0.00000		0.0000		0.01320	
Total	0.00000	0.00E+00	0.04780	1.38E-03	0.15330	4.414E-03

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles
Vehicle Travel Distance in the HRA	1.82	miles

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	mles
Vehicle Travel Distance in the HRA	1.82	miles

Total Offsite Vehicle Emissions Along Travel Distance

DPM (as PM2.5 Exhaust)

Haul Trucks	0.00E+00	g/sec
Vendor Trucks	1.01E-04	g/sec
Worker Vehicles	1.72E-05	g/sec
Total	1.18E-04	g/sec

Total Offsite Vehicle Emissions Along Travel Distance

PM2.5 Fugitive Dust

Haul Trucks	0.00E+00	grams/sec
Vendor Trucks	3.43E-04	grams/sec
Worker Vehicles	7.439E-04	grams/sec
Total	1.09E-03	grams/sec

Summary		PM2.5 Exhaust		PM2.5 Fugitive		PM2.5 Total	
	Onsite	0.1243	tons/year	0.0000	tons/year	0.1243	tons/year
	Offsite	0.01765	tons/year	0.20110	tons/year	0.2188	tons/year
	Total	0.14195	tons/year	0.2011	tons/year	0.3431	tons/year

Alves Ranch Project

Estimation of Annual Construction PM2.5 Emissions (Mitigated)

Year: 2021

Start of Construction	1/2/2021
End of Construction	12/31/2021
Number of Hours	8760

Size of the Construction area source: **332855 sq-meters**

DPM (as PM2.5 Exhaust)

	Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Onsite	Site Preparation	0.0000		
	Grading	0.0000		
	Building Construction	0.0276		
	Paving	0.0168		
	Architectural Coating	0.0124		
	Total	0.0568	0.01296804	4.913E-09

PM2.5 Fugitive Dust

Construction Activity	Onsite (tons/year)	Onsite (pounds/hr)	Onsite (g/m2-sec)
Site Preparation	0.0000		
Grading	0.0000		
Building Construction	0.0000		
Paving	0.0000		
Architectural Coating	0.0000		
Total	0.0000	0.0000	0.000E+00

DPM (as PM2.5 Exhaust)

	Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
Offsite	Site Preparation	0.00000		0.0000		0.00000	
	Grading	0.00000		0.0000		0.00000	
	Building Construction	0.00000		0.0013		0.00073	
	Paving	0.00000		0.0000		0.00002	
	Architectural Coating	0.00000		0.0000		0.00059	
	Total	0.00000	0.00000	0.00130	3.743E-05	0.00059	1.699E-05

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

DPM (as PM2.5 Exhaust)

Haul Trucks	0.00E+00	g/sec
Vendor Trucks	9.33E-06	g/sec
Worker Vehicles	2.86E-06	g/sec
Total	1.22E-05	g/sec

PM2.5 Fugitive Dust

Construction Activity	Haul Truck (tons/year)	Haul Truck (g/sec)	Vendor Truck (tons/year)	Vendor Truck (g/sec)	Worker (tons/year)	Worker (g/sec)
Site Preparation	0.00000		0.0000		0.00000	
Grading	0.00000		0.0000		0.00000	
Building Construction	0.00000		0.0111		0.03260	
Paving	0.00000		0.0000		0.00087	
Architectural Coating	0.00000		0.0000		0.02620	
Total	0.00000	0.0000E+00	0.01110	3.196E-04	0.05967	1.718E-03

Default Vehicle Travel Distance for Haul Trucks in CalEEMod	20	miles
Default Vehicle Travel Distance for Vendor Trucks in CalEEMod	7.3	miles
Default Vehicle Travel Distance for Worker Vehicles in CalEEMod	10.8	miles

Vehicle Travel Distance in the HRA 1.82 miles

Total Offsite Vehicle Emissions Along Travel Distance

PM2.5 Fugitive Dust

Haul Trucks	0.00E+00	g/sec
Vendor Trucks	7.97E-05	g/sec
Worker Vehicles	2.90E-04	g/sec
Total	3.69E-04	g/sec

		PM2.5 Exhaust	PM2.5 Fugitive	PM2.5 Total
Summary	Onsite	0.0568 tons/year	0.0000 tons/year	0.0568 tons/year
	Offsite	0.00189 tons/year	0.07077 tons/year	0.0727 tons/year
	Total	0.05869 tons/year	0.0708 tons/year	0.1295 tons/year

Alves Ranch Project 2019 With Mitigation

Estimation of Construction PM2.5 Concentrations

DPM Emissions from Construction Area Source:	7.27E-09	g/m2-sec
DPM Emissions from Offsite Mobile Source Emissions:	3.33E-05	g/sec
DPM AERMOD Area SourceEmissions Multiplier	1.00E-05	
DPM AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	
Dust Emissions from Construction Area Source:	9.29E-09	g/m2-sec
DustEmissions from Offsite Mobile Source Emissions:	1.95E-04	g/sec
Dust AERMOD Area SourceEmissions Multiplier	1.00E-05	
Dust AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	

		DPM (as PM2.5 Exhaust)						PM2.5 Fugitive Dust					
		Area Source DPM w/	Area Source DPM w/	Offsite Source DPM w/	Offsite Source DPM w/	Total		Area Source Dust w/	Area Source Dust w/	Offsite Source Dust w/	Offsite Source Dust w/	Total	Total
X	Y	Unit Emis	Actual Emis	Unit Emis	Actual Emis	DPM		Unit Emis	Actual Emis	Unit Emis	Actual Emis	Dust	PM2.5
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)		(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
591236.2	4208654	29.54054	2.15E-02	4.30882	1.44E-04	2.16E-02	Sensitive	44.93764	4.17E-02	4.45223	8.68E-04	4.26E-02	6.43E-02
591234.5	4208641	26.81016	1.95E-02	4.48305	1.49E-04	1.97E-02	Sensitive	40.42225	3.76E-02	4.646	9.06E-04	3.85E-02	5.81E-02
591232.7	4208626	24.02479	1.75E-02	4.67025	1.56E-04	1.76E-02	Sensitive	36.44367	3.39E-02	4.85364	9.47E-04	3.48E-02	5.24E-02
591233.6	4208613	24.98369	1.82E-02	4.93147	1.64E-04	1.83E-02	Sensitive	37.83457	3.51E-02	5.13395	1.00E-03	3.62E-02	5.45E-02
591233.6	4208600	25.7327	1.87E-02	5.19894	1.73E-04	1.89E-02	Sensitive	38.71366	3.60E-02	5.42542	1.06E-03	3.70E-02	5.59E-02
591234.9	4208584	27.30214	1.99E-02	5.58097	1.86E-04	2.00E-02	Sensitive	40.97945	3.81E-02	5.8448	1.14E-03	3.92E-02	5.93E-02
591234.9	4208569	28.24101	2.05E-02	5.96973	1.99E-04	2.07E-02	Sensitive	42.12677	3.91E-02	6.28284	1.23E-03	4.04E-02	6.11E-02
591234.9	4208555	25.39267	1.85E-02	6.33489	2.11E-04	1.87E-02	Sensitive	38.36545	3.56E-02	6.69017	1.30E-03	3.69E-02	5.56E-02
591235.3	4208541	22.42152	1.63E-02	6.67632	2.23E-04	1.65E-02	Sensitive	34.66087	3.22E-02	7.09197	1.38E-03	3.36E-02	5.01E-02
591235.3	4208528	21.61267	1.57E-02	7.16541	2.39E-04	1.60E-02	Sensitive	33.5052	3.11E-02	7.66102	1.49E-03	3.26E-02	4.86E-02
591234.9	4208514	21.78832	1.59E-02	7.7801	2.59E-04	1.61E-02	Sensitive	33.43661	3.11E-02	8.38369	1.64E-03	3.27E-02	4.88E-02
591235.8	4208501	22.79521	1.66E-02	8.54426	2.85E-04	1.69E-02	Sensitive	34.7449	3.23E-02	9.28275	1.81E-03	3.41E-02	5.10E-02
591235.8	4208486	24.65757	1.79E-02	9.65262	3.22E-04	1.83E-02	Sensitive	36.97006	3.43E-02	10.66128	2.08E-03	3.64E-02	5.47E-02
591238	4208472	27.01754	1.97E-02	10.92132	3.64E-04	2.00E-02	Sensitive	40.84009	3.79E-02	12.27014	2.39E-03	4.03E-02	6.04E-02
591239.5	4208453	29.68242	2.16E-02	13.45274	4.49E-04	2.20E-02	Sensitive	42.39109	3.94E-02	15.84932	3.09E-03	4.25E-02	6.45E-02
591234	4208435	25.27391	1.84E-02	17.27939	5.76E-04	1.90E-02	Sensitive	34.03944	3.16E-02	22.65436	4.42E-03	3.60E-02	5.50E-02
591218.2	4208438	18.85081	1.37E-02	16.96357	5.66E-04	1.43E-02	Sensitive	25.54186	2.37E-02	22.36111	4.36E-03	2.81E-02	4.24E-02
591204.3	4208440	15.32887	1.12E-02	17.0594	5.69E-04	1.17E-02	Sensitive	20.16624	1.87E-02	23.06948	4.50E-03	2.32E-02	3.50E-02
591200	4208477	14.55409	1.06E-02	10.70654	3.57E-04	1.09E-02	Sensitive	19.71735	1.83E-02	12.22571	2.38E-03	2.07E-02	3.16E-02
591200.7	4208490	14.03364	1.02E-02	9.42163	3.14E-04	1.05E-02	Sensitive	19.187	1.78E-02	10.5418	2.06E-03	1.99E-02	3.04E-02
591198.8	4208504	13.31	9.68E-03	8.21966	2.74E-04	9.96E-03	Sensitive	18.22829	1.69E-02	9.08334	1.77E-03	1.87E-02	2.87E-02
591200.7	4208517	13.97769	1.02E-02	7.53899	2.51E-04	1.04E-02	Sensitive	19.24649	1.79E-02	8.20766	1.60E-03	1.95E-02	2.99E-02
591200	4208530	14.46212	1.05E-02	6.96913	2.32E-04	1.08E-02	Sensitive	19.8921	1.85E-02	7.50469	1.46E-03	1.99E-02	3.07E-02
591199.4	4208542	15.18224	1.10E-02	6.61989	2.21E-04	1.13E-02	Sensitive	20.83817	1.94E-02	7.06386	1.38E-03	2.07E-02	3.20E-02
591198.5	4208558	16.82706	1.22E-02	6.25113	2.08E-04	1.24E-02	Sensitive	22.98695	2.14E-02	6.61319	1.29E-03	2.26E-02	3.51E-02
591197.9	4208572	17.8831	1.30E-02	5.91541	1.97E-04	1.32E-02	Sensitive	24.33388	2.26E-02	6.22367	1.21E-03	2.38E-02	3.70E-02
591197.9	4208584	17.979	1.31E-02	5.5894	1.86E-04	1.33E-02	Sensitive	24.47345	2.27E-02	5.86267	1.14E-03	2.39E-02	3.71E-02
591197	4208598	17.89803	1.30E-02	5.24297	1.75E-04	1.32E-02	Sensitive	24.33246	2.26E-02	5.48303	1.07E-03	2.37E-02	3.69E-02
591198.2	4208612	18.28108	1.33E-02	4.97484	1.66E-04	1.35E-02	Sensitive	24.88484	2.31E-02	5.18971	1.01E-03	2.41E-02	3.76E-02
591197.3	4208626	18.27319	1.33E-02	4.70936	1.57E-04	1.35E-02	Sensitive	24.80309	2.30E-02	4.90214	9.56E-04	2.40E-02	3.74E-02
591196.7	4208639	18.75143	1.36E-02	4.5247	1.51E-04	1.38E-02	Sensitive	25.31465	2.35E-02	4.70375	9.18E-04	2.44E-02	3.82E-02
591197	4208655	19.39365	1.41E-02	4.32841	1.44E-04	1.43E-02	Sensitive	26.01869	2.42E-02	4.4925	8.76E-04	2.50E-02	3.93E-02
591235.6	4208670	30.42362	2.21E-02	4.09674	1.37E-04	2.23E-02	Sensitive	45.75602	4.25E-02	4.22068	8.23E-04	4.33E-02	6.56E-02
591223.9	4208685	26.07894	1.90E-02	3.94466	1.32E-04	1.91E-02	Sensitive	36.32162	3.37E-02	4.06215	7.92E-04	3.45E-02	5.36E-02
591204.2	4208687	20.47428	1.49E-02	3.9383	1.31E-04	1.50E-02	Sensitive	27.24714	2.53E-02	4.0663	7.93E-04	2.61E-02	4.11E-02
591190.3	4208691	17.39397	1.27E-02	3.87505	1.29E-04	1.28E-02	Sensitive	22.74493	2.11E-02	4.0073	7.82E-04	2.19E-02	3.47E-02
591178	4208692	15.32702	1.12E-02	3.84292	1.28E-04	1.13E-02	Sensitive	19.85428	1.84E-02	3.98083	7.76E-04	1.92E-02	3.05E-02
591180.2	4208656	16.27968	1.18E-02	4.28916	1.43E-04	1.20E-02	Sensitive	21.44825	1.99E-02	4.45631	8.69E-04	2.08E-02	3.28E-02
591178.6	4208641	15.97583	1.16E-02	4.49181	1.50E-04	1.18E-02	Sensitive	21.08607	1.96E-02	4.66798	9.11E-04	2.05E-02	3.23E-02
591178.3	4208628	15.82585	1.15E-02	4.68372	1.56E-04	1.17E-02	Sensitive	20.91886	1.94E-02	4.88247	9.52E-04	2.04E-02	3.21E-02
591178.3	4208615	15.58833	1.13E-02	4.88853	1.63E-04	1.15E-02	Sensitive	20.63031	1.92E-02	5.11152	9.97E-04	2.02E-02	3.17E-02
591180.2	4208600	15.47224	1.13E-02	5.1688	1.72E-04	1.14E-02	Sensitive	20.54081	1.91E-02	5.4137	1.06E-03	2.01E-02	3.16E-02
591178.6	4208586	15.01011	1.09E-02	5.49395	1.83E-04	1.11E-02	Sensitive	19.88556	1.85E-02	5.77726	1.13E-03	1.96E-02	3.07E-02
591178.6	4208574	14.81129	1.08E-02	5.79448	1.93E-04	1.10E-02	Sensitive	19.61615	1.82E-02	6.11373	1.19E-03	1.94E-02	3.04E-02
591180.2	4208559	14.29705	1.04E-02	6.19549	2.07E-04	1.06E-02	Sensitive	18.96789	1.76E-02	6.56863	1.28E-03	1.89E-02	2.95E-02
591179.2	4208544	13.18327	9.59E-03	6.55362	2.18E-04	9.81E-03	Sensitive	17.45522	1.62E-02	7.02209	1.37E-03	1.76E-02	2.74E-02
591178.9	4208531	12.42684	9.04E-03	6.98163	2.33E-04	9.27E-03	Sensitive	16.42301	1.53E-02	7.54898	1.47E-03	1.67E-02	2.60E-02
591179.9	4208519	11.92787	8.68E-03	7.49663	2.50E-04	8.93E-03	Sensitive	15.75975	1.46E-02	8.19862	1.60E-03	1.62E-02	2.52E-02
591179.2	4208505	11.29429	8.22E-03	8.2308	2.74E-04	8.49E-03	Sensitive	14.86793	1.38E-02	9.18969	1.79E-03	1.56E-02	2.41E-02
591179.9	4208489	11.42957	8.31E-03	9.60875	3.20E-04	8.64E-03	Sensitive	15.01786	1.40E-02	10.9435	2.13E-03	1.61E-02	2.47E-02
591179.6	4208477	11.51527	8.38E-03	10.85684	3.62E-04	8.74E-03	Sensitive	15.06558	1.40E-02	12.6595	2.47E-03	1.65E-02	2.52E-02
591192.5	4208439	12.70902	9.25E-03	17.4418	5.82E-04	9.83E-03	Sensitive	16.51873	1.53E-02	24.79677	4.84E-03	2.02E-02	3.00E-02

Alves Ranch Project **2020 With Mitigation**

Estimation of Construction PM2.5 Concentrations

DPM Emissions from Construction Area Source:	1.08E-08	g/m2-sec
DPM Emissions from Offsite Mobile Source Emissions:	1.18E-04	g/sec
DPM AERMOD Area SourceEmissions Multiplier	1.00E-05	
DPM AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	
Dust Emissions from Construction Area Source:	0.00E+00	
DustEmissions from Offsite Mobile Source Emissions:	1.09E-03	
Dust AERMOD Area SourceEmissions Multiplier	1.00E-05	
Dust AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	

		DPM (as PM2.5 Exhaust)						PM2.5 Fugitive Dust					
		Area Source DPM w/	Area Source DPM w/	Offsite Source DPM w/	Offsite Source DPM w/	Total		Area Source Dust w/	Area Source Dust w/	Offsite Source Dust w/	Offsite Source Dust w/	Total	Total
X	Y	Unit Emis	Actual Emis	Unit Emis	Actual Emis	DPM		Unit Emis	Actual Emis	Unit Emis	Actual Emis	Dust	PM2.5
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)		(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
591236.2	4208654	29.54054	3.18E-02	4.30882	5.10E-04	3.23E-02	Sensitive	44.93764	0.00E+00	4.45223	4.84E-03	4.84E-03	3.71E-02
591234.5	4208641	26.81016	2.88E-02	4.48305	5.31E-04	2.94E-02	Sensitive	40.42225	0.00E+00	4.646	5.05E-03	5.05E-03	3.44E-02
591232.7	4208626	24.02479	2.58E-02	4.67025	5.53E-04	2.64E-02	Sensitive	36.44367	0.00E+00	4.85364	5.28E-03	5.28E-03	3.17E-02
591233.6	4208613	24.98369	2.69E-02	4.93147	5.84E-04	2.74E-02	Sensitive	37.83457	0.00E+00	5.13395	5.58E-03	5.58E-03	3.30E-02
591233.6	4208600	25.7327	2.77E-02	5.19894	6.16E-04	2.83E-02	Sensitive	38.71366	0.00E+00	5.42542	5.90E-03	5.90E-03	3.42E-02
591234.9	4208584	27.30214	2.94E-02	5.58097	6.61E-04	3.00E-02	Sensitive	40.97945	0.00E+00	5.8448	6.35E-03	6.35E-03	3.64E-02
591234.9	4208569	28.24101	3.04E-02	5.96973	7.07E-04	3.11E-02	Sensitive	42.12677	0.00E+00	6.28284	6.83E-03	6.83E-03	3.79E-02
591234.9	4208555	25.39267	2.73E-02	6.33489	7.50E-04	2.81E-02	Sensitive	38.36545	0.00E+00	6.69017	7.27E-03	7.27E-03	3.53E-02
591235.3	4208541	22.42152	2.41E-02	6.67632	7.91E-04	2.49E-02	Sensitive	34.66087	0.00E+00	7.09197	7.71E-03	7.71E-03	3.26E-02
591235.3	4208528	21.61267	2.32E-02	7.16541	8.49E-04	2.41E-02	Sensitive	33.5052	0.00E+00	7.66102	8.33E-03	8.33E-03	3.24E-02
591234.9	4208514	21.78832	2.34E-02	7.7801	9.22E-04	2.43E-02	Sensitive	33.43661	0.00E+00	8.38369	9.11E-03	9.11E-03	3.35E-02
591235.8	4208501	22.79521	2.45E-02	8.54426	1.01E-03	2.55E-02	Sensitive	34.7449	0.00E+00	9.28275	1.01E-02	1.01E-02	3.56E-02
591235.8	4208486	24.65757	2.65E-02	9.65262	1.14E-03	2.77E-02	Sensitive	36.97006	0.00E+00	10.66128	1.16E-02	1.16E-02	3.92E-02
591238	4208472	27.01754	2.90E-02	10.92132	1.29E-03	3.03E-02	Sensitive	40.84009	0.00E+00	12.27014	1.33E-02	1.33E-02	4.37E-02
591239.5	4208453	29.68242	3.19E-02	13.45274	1.59E-03	3.35E-02	Sensitive	42.39109	0.00E+00	15.84932	1.72E-02	1.72E-02	5.07E-02
591234	4208435	25.27391	2.72E-02	17.27939	2.05E-03	2.92E-02	Sensitive	34.03944	0.00E+00	22.65436	2.46E-02	2.46E-02	5.38E-02
591218.2	4208438	18.85081	2.03E-02	16.96357	2.01E-03	2.23E-02	Sensitive	25.54186	0.00E+00	22.36111	2.43E-02	2.43E-02	4.66E-02
591204.3	4208440	15.32887	1.65E-02	17.0594	2.02E-03	1.85E-02	Sensitive	20.16624	0.00E+00	23.06948	2.51E-02	2.51E-02	4.36E-02
591200	4208477	14.55409	1.56E-02	10.70654	1.27E-03	1.69E-02	Sensitive	19.71735	0.00E+00	12.22571	1.33E-02	1.33E-02	3.02E-02
591200.7	4208490	14.03364	1.51E-02	9.42163	1.12E-03	1.62E-02	Sensitive	19.187	0.00E+00	10.5418	1.15E-02	1.15E-02	2.77E-02
591198.8	4208504	13.31	1.43E-02	8.21966	9.74E-04	1.53E-02	Sensitive	18.22829	0.00E+00	9.08334	9.87E-03	9.87E-03	2.52E-02
591200.7	4208517	13.97769	1.50E-02	7.53899	8.93E-04	1.59E-02	Sensitive	19.24649	0.00E+00	8.20766	8.92E-03	8.92E-03	2.48E-02
591200	4208530	14.46212	1.55E-02	6.96913	8.25E-04	1.64E-02	Sensitive	19.8921	0.00E+00	7.50469	8.16E-03	8.16E-03	2.45E-02
591199.4	4208542	15.18224	1.63E-02	6.61989	7.84E-04	1.71E-02	Sensitive	20.83817	0.00E+00	7.06386	7.68E-03	7.68E-03	2.48E-02
591198.5	4208558	16.82706	1.81E-02	6.25113	7.40E-04	1.88E-02	Sensitive	22.98695	0.00E+00	6.61319	7.19E-03	7.19E-03	2.60E-02
591197.9	4208572	17.8831	1.92E-02	5.91541	7.01E-04	1.99E-02	Sensitive	24.33388	0.00E+00	6.22367	6.77E-03	6.77E-03	2.67E-02
591197.9	4208584	17.979	1.93E-02	5.5894	6.62E-04	2.00E-02	Sensitive	24.47345	0.00E+00	5.86267	6.37E-03	6.37E-03	2.64E-02
591197	4208598	17.89803	1.92E-02	5.24297	6.21E-04	1.99E-02	Sensitive	24.33246	0.00E+00	5.48303	5.96E-03	5.96E-03	2.58E-02
591198.2	4208612	18.28108	1.97E-02	4.97484	5.89E-04	2.02E-02	Sensitive	24.88484	0.00E+00	5.18971	5.64E-03	5.64E-03	2.59E-02
591197.3	4208626	18.27319	1.96E-02	4.70936	5.58E-04	2.02E-02	Sensitive	24.80309	0.00E+00	4.90214	5.33E-03	5.33E-03	2.55E-02
591196.7	4208639	18.75143	2.02E-02	4.5247	5.36E-04	2.07E-02	Sensitive	25.31465	0.00E+00	4.70375	5.11E-03	5.11E-03	2.58E-02
591197	4208655	19.39365	2.09E-02	4.32841	5.13E-04	2.14E-02	Sensitive	26.01869	0.00E+00	4.4925	4.88E-03	4.88E-03	2.62E-02
591235.6	4208670	30.42362	3.27E-02	4.09674	4.85E-04	3.32E-02	Sensitive	45.75602	0.00E+00	4.22068	4.59E-03	4.59E-03	3.78E-02
591223.9	4208685	26.07894	2.80E-02	3.94466	4.67E-04	2.85E-02	Sensitive	36.32162	0.00E+00	4.06215	4.42E-03	4.42E-03	3.29E-02
591204.2	4208687	20.47428	2.20E-02	3.9383	4.66E-04	2.25E-02	Sensitive	27.24714	0.00E+00	4.0663	4.42E-03	4.42E-03	2.69E-02
591190.3	4208691	17.39397	1.87E-02	3.87505	4.59E-04	1.92E-02	Sensitive	22.74493	0.00E+00	4.0073	4.36E-03	4.36E-03	2.35E-02
591178	4208692	15.32702	1.65E-02	3.84292	4.55E-04	1.69E-02	Sensitive	19.85428	0.00E+00	3.98083	4.33E-03	4.33E-03	2.13E-02
591180.2	4208656	16.27968	1.75E-02	4.28916	5.08E-04	1.80E-02	Sensitive	21.44825	0.00E+00	4.45631	4.84E-03	4.84E-03	2.29E-02
591178.6	4208641	15.97583	1.72E-02	4.49181	5.32E-04	1.77E-02	Sensitive	21.08607	0.00E+00	4.66798	5.07E-03	5.07E-03	2.28E-02
591178.3	4208628	15.82585	1.70E-02	4.68372	5.55E-04	1.76E-02	Sensitive	20.91886	0.00E+00	4.88247	5.31E-03	5.31E-03	2.29E-02
591178.3	4208615	15.58833	1.68E-02	4.88853	5.79E-04	1.73E-02	Sensitive	20.63031	0.00E+00	5.11152	5.56E-03	5.56E-03	2.29E-02
591180.2	4208600	15.47224	1.66E-02	5.1688	6.12E-04	1.72E-02	Sensitive	20.54081	0.00E+00	5.4137	5.88E-03	5.88E-03	2.31E-02
591178.6	4208586	15.01011	1.61E-02	5.49395	6.51E-04	1.68E-02	Sensitive	19.88556	0.00E+00	5.77726	6.28E-03	6.28E-03	2.31E-02
591178.6	4208574	14.81129	1.59E-02	5.79448	6.86E-04	1.66E-02	Sensitive	19.61615	0.00E+00	6.11373	6.65E-03	6.65E-03	2.33E-02
591180.2	4208559	14.29705	1.54E-02	6.19549	7.34E-04	1.61E-02	Sensitive	18.96789	0.00E+00	6.56863	7.14E-03	7.14E-03	2.32E-02
591179.2	4208544	13.18327	1.42E-02	6.55362	7.76E-04	1.50E-02	Sensitive	17.45522	0.00E+00	7.02209	7.63E-03	7.63E-03	2.26E-02
591178.9	4208531	12.42684	1.34E-02	6.98163	8.27E-04	1.42E-02	Sensitive	16.42301	0.00E+00	7.54898	8.21E-03	8.21E-03	2.24E-02
591179.9	4208519	11.92787	1.28E-02	7.49663	8.88E-04	1.37E-02	Sensitive	15.75975	0.00E+00	8.19862	8.91E-03	8.91E-03	2.26E-02
591179.2	4208505	11.29429	1.21E-02	8.2308	9.75E-04	1.31E-02	Sensitive	14.86793	0.00E+00	9.18969	9.99E-03	9.99E-03	2.31E-02
591179.9	4208489	11.42957	1.23E-02	9.60875	1.14E-03	1.34E-02	Sensitive	15.01786	0.00E+00	10.9435	1.19E-02	1.19E-02	2.53E-02
591179.6	4208477	11.51527	1.24E-02	10.85684	1.29E-03	1.37E-02	Sensitive	15.06558	0.00E+00	12.6595	1.38E-02	1.38E-02	2.74E-02
591192.5	4208439	12.70902	1.37E-02	17.4418	2.07E-03	1.57E-02	Sensitive	16.51873	0.00E+00	24.79677	2.70E-02	2.70E-02	4.27E-02

Alves Ranch Project **2021 With Mitigation**

Estimation of Construction DPM Concentrations

DPM Emissions from Construction Area Source:	4.91E-09	g/m2-sec
DPM Emissions from Offsite Mobile Source Emissions:	1.22E-05	g/sec
DPM AERMOD Area SourceEmissions Multiplier	1.00E-05	
DPM AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	
Dust Emissions from Construction Area Source:	0.00E+00	
DustEmissions from Offsite Mobile Source Emissions:	3.69E-04	
Dust AERMOD Area SourceEmissions Multiplier	1.00E-05	
Dust AERMOD Offsite Mobile SourceEmissions Multiplier	1.00E+00	

		DPM (as PM2.5 Exhaust)						PM2.5 Fugitive Dust					
		Area Source DPM w/	Area Source DPM w/	Offsite Source DPM w/	Offsite Source DPM w/	Total		Area Source Dust w/	Area Source Dust w/	Offsite Source Dust w/	Offsite Source Dust w/	Total	Total
X	Y	Unit Emis	Actual Emis	Unit Emis	Actual Emis	DPM		Unit Emis	Actual Emis	Unit Emis	Actual Emis	Dust	PM2.5
(m)	(m)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)		(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
591236.2	4208654	29.54054	1.45E-02	4.30882	5.25E-05	1.46E-02	Sensitive	44.93764	0.00E+00	4.45223	1.64E-03	1.64E-03	1.62E-02
591234.5	4208641	26.81016	1.32E-02	4.48305	5.47E-05	1.32E-02	Sensitive	40.42225	0.00E+00	4.646	1.72E-03	1.72E-03	1.49E-02
591232.7	4208626	24.02479	1.18E-02	4.67025	5.70E-05	1.19E-02	Sensitive	36.44367	0.00E+00	4.85364	1.79E-03	1.79E-03	1.37E-02
591233.6	4208613	24.98369	1.23E-02	4.93147	6.01E-05	1.23E-02	Sensitive	37.83457	0.00E+00	5.13395	1.90E-03	1.90E-03	1.42E-02
591233.6	4208600	25.7327	1.26E-02	5.19894	6.34E-05	1.27E-02	Sensitive	38.71366	0.00E+00	5.42542	2.00E-03	2.00E-03	1.47E-02
591234.9	4208584	27.30214	1.34E-02	5.58097	6.81E-05	1.35E-02	Sensitive	40.97945	0.00E+00	5.8448	2.16E-03	2.16E-03	1.56E-02
591234.9	4208569	28.24101	1.39E-02	5.96973	7.28E-05	1.39E-02	Sensitive	42.12677	0.00E+00	6.28284	2.32E-03	2.32E-03	1.63E-02
591234.9	4208555	25.39267	1.25E-02	6.33489	7.73E-05	1.26E-02	Sensitive	38.36545	0.00E+00	6.69017	2.47E-03	2.47E-03	1.50E-02
591235.3	4208541	22.42152	1.10E-02	6.67632	8.14E-05	1.11E-02	Sensitive	34.66087	0.00E+00	7.09197	2.62E-03	2.62E-03	1.37E-02
591235.3	4208528	21.61267	1.06E-02	7.16541	8.74E-05	1.07E-02	Sensitive	33.5052	0.00E+00	7.66102	2.83E-03	2.83E-03	1.35E-02
591234.9	4208514	21.78832	1.07E-02	7.7801	9.49E-05	1.08E-02	Sensitive	33.43661	0.00E+00	8.38369	3.10E-03	3.10E-03	1.39E-02
591235.8	4208501	22.79521	1.12E-02	8.54426	1.04E-04	1.13E-02	Sensitive	34.7449	0.00E+00	9.28275	3.43E-03	3.43E-03	1.47E-02
591235.8	4208486	24.65757	1.21E-02	9.65262	1.18E-04	1.22E-02	Sensitive	36.97006	0.00E+00	10.66128	3.94E-03	3.94E-03	1.62E-02
591238	4208472	27.01754	1.33E-02	10.92132	1.33E-04	1.34E-02	Sensitive	40.84009	0.00E+00	12.27014	4.53E-03	4.53E-03	1.79E-02
591239.5	4208453	29.68242	1.46E-02	13.45274	1.64E-04	1.47E-02	Sensitive	42.39109	0.00E+00	15.84932	5.85E-03	5.85E-03	2.06E-02
591234	4208435	25.27391	1.24E-02	17.27939	2.11E-04	1.26E-02	Sensitive	34.03944	0.00E+00	22.65436	8.36E-03	8.36E-03	2.10E-02
591218.2	4208438	18.85081	9.26E-03	16.96357	2.07E-04	9.47E-03	Sensitive	25.54186	0.00E+00	22.36111	8.26E-03	8.26E-03	1.77E-02
591204.3	4208440	15.32887	7.53E-03	17.0594	2.08E-04	7.74E-03	Sensitive	20.16624	0.00E+00	23.06948	8.52E-03	8.52E-03	1.63E-02
591200	4208477	14.55409	7.15E-03	10.70654	1.31E-04	7.28E-03	Sensitive	19.71735	0.00E+00	12.22571	4.51E-03	4.51E-03	1.18E-02
591200.7	4208490	14.03364	6.90E-03	9.42163	1.15E-04	7.01E-03	Sensitive	19.187	0.00E+00	10.5418	3.89E-03	3.89E-03	1.09E-02
591198.8	4208504	13.31	6.54E-03	8.21966	1.00E-04	6.64E-03	Sensitive	18.22829	0.00E+00	9.08334	3.35E-03	3.35E-03	9.99E-03
591200.7	4208517	13.97769	6.87E-03	7.53899	9.19E-05	6.96E-03	Sensitive	19.24649	0.00E+00	8.20766	3.03E-03	3.03E-03	9.99E-03
591200	4208530	14.46212	7.11E-03	6.96913	8.50E-05	7.19E-03	Sensitive	19.8921	0.00E+00	7.50469	2.77E-03	2.77E-03	9.96E-03
591199.4	4208542	15.18224	7.46E-03	6.61989	8.07E-05	7.54E-03	Sensitive	20.83817	0.00E+00	7.06386	2.61E-03	2.61E-03	1.01E-02
591198.5	4208558	16.82706	8.27E-03	6.25113	7.62E-05	8.34E-03	Sensitive	22.98695	0.00E+00	6.61319	2.44E-03	2.44E-03	1.08E-02
591197.9	4208572	17.8831	8.79E-03	5.91541	7.21E-05	8.86E-03	Sensitive	24.33388	0.00E+00	6.22367	2.30E-03	2.30E-03	1.12E-02
591197.9	4208584	17.979	8.83E-03	5.5894	6.82E-05	8.90E-03	Sensitive	24.47345	0.00E+00	5.86267	2.16E-03	2.16E-03	1.11E-02
591197	4208598	17.89803	8.79E-03	5.24297	6.39E-05	8.86E-03	Sensitive	24.33246	0.00E+00	5.48303	2.02E-03	2.02E-03	1.09E-02
591198.2	4208612	18.28108	8.98E-03	4.97484	6.07E-05	9.04E-03	Sensitive	24.88484	0.00E+00	5.18971	1.92E-03	1.92E-03	1.10E-02
591197.3	4208626	18.27319	8.98E-03	4.70936	5.74E-05	9.04E-03	Sensitive	24.80309	0.00E+00	4.90214	1.81E-03	1.81E-03	1.08E-02
591196.7	4208639	18.75143	9.21E-03	4.5247	5.52E-05	9.27E-03	Sensitive	25.31465	0.00E+00	4.70375	1.74E-03	1.74E-03	1.10E-02
591197	4208655	19.39365	9.53E-03	4.32841	5.28E-05	9.58E-03	Sensitive	26.01869	0.00E+00	4.4925	1.66E-03	1.66E-03	1.12E-02
591235.6	4208670	30.42362	1.49E-02	4.09674	5.00E-05	1.50E-02	Sensitive	45.75602	0.00E+00	4.22068	1.56E-03	1.56E-03	1.66E-02
591223.9	4208685	26.07894	1.28E-02	3.94466	4.81E-05	1.29E-02	Sensitive	36.32162	0.00E+00	4.06215	1.50E-03	1.50E-03	1.44E-02
591204.2	4208687	20.47428	1.01E-02	3.9383	4.80E-05	1.01E-02	Sensitive	27.24714	0.00E+00	4.0663	1.50E-03	1.50E-03	1.16E-02
591190.3	4208691	17.39397	8.55E-03	3.87505	4.73E-05	8.59E-03	Sensitive	22.74493	0.00E+00	4.0073	1.48E-03	1.48E-03	1.01E-02
591178	4208692	15.32702	7.53E-03	3.84292	4.69E-05	7.58E-03	Sensitive	19.85428	0.00E+00	3.98083	1.47E-03	1.47E-03	9.05E-03
591180.2	4208656	16.27968	8.00E-03	4.28916	5.23E-05	8.05E-03	Sensitive	21.44825	0.00E+00	4.45631	1.65E-03	1.65E-03	9.70E-03
591178.6	4208641	15.97583	7.85E-03	4.49181	5.48E-05	7.90E-03	Sensitive	21.08607	0.00E+00	4.66798	1.72E-03	1.72E-03	9.63E-03
591178.3	4208628	15.82585	7.78E-03	4.68372	5.71E-05	7.83E-03	Sensitive	20.91886	0.00E+00	4.88247	1.80E-03	1.80E-03	9.64E-03
591178.3	4208615	15.58833	7.66E-03	4.88853	5.96E-05	7.72E-03	Sensitive	20.63031	0.00E+00	5.11152	1.89E-03	1.89E-03	9.61E-03
591180.2	4208600	15.47224	7.60E-03	5.1688	6.30E-05	7.66E-03	Sensitive	20.54081	0.00E+00	5.4137	2.00E-03	2.00E-03	9.66E-03
591178.6	4208586	15.01011	7.37E-03	5.49395	6.70E-05	7.44E-03	Sensitive	19.88556	0.00E+00	5.77726	2.13E-03	2.13E-03	9.58E-03
591178.6	4208574	14.81129	7.28E-03	5.79448	7.07E-05	7.35E-03	Sensitive	19.61615	0.00E+00	6.11373	2.26E-03	2.26E-03	9.61E-03
591180.2	4208559	14.29705	7.02E-03	6.19549	7.56E-05	7.10E-03	Sensitive	18.96789	0.00E+00	6.56863	2.43E-03	2.43E-03	9.53E-03
591179.2	4208544	13.18327	6.48E-03	6.55362	7.99E-05	6.56E-03	Sensitive	17.45522	0.00E+00	7.02209	2.59E-03	2.59E-03	9.15E-03
591178.9	4208531	12.42684	6.11E-03	6.98163	8.51E-05	6.19E-03	Sensitive	16.42301	0.00E+00	7.54898	2.79E-03	2.79E-03	8.98E-03
591179.9	4208519	11.92787	5.86E-03	7.49663	9.14E-05	5.95E-03	Sensitive	15.75975	0.00E+00	8.19862	3.03E-03	3.03E-03	8.98E-03
591179.2	4208505	11.29429	5.55E-03	8.2308	1.00E-04	5.65E-03	Sensitive	14.86793	0.00E+00	9.18969	3.39E-03	3.39E-03	9.04E-03
591179.9	4208489	11.42957	5.62E-03	9.60875	1.17E-04	5.73E-03	Sensitive	15.01786	0.00E+00	10.9435	4.04E-03	4.04E-03	9.77E-03
591179.6	4208477	11.51527	5.66E-03	10.85684	1.32E-04	5.79E-03	Sensitive	15.06558	0.00E+00	12.6595	4.67E-03	4.67E-03	1.05E-02

Alves Ranch Project No Variable Emission Factors

Annual DPM Concentrations During Construction **With Mitigation**

X (m)	Y (m)	2019 (ug/m3)	2020 (ug/m3)	2021 (ug/m3)	
591236.2	4208654	2.16E-02	3.23E-02	1.46E-02	Sensitive
591234.5	4208641	1.97E-02	2.94E-02	1.32E-02	Sensitive
591232.7	4208626	1.76E-02	2.64E-02	1.19E-02	Sensitive
591233.6	4208613	1.83E-02	2.74E-02	1.23E-02	Sensitive
591233.6	4208600	1.89E-02	2.83E-02	1.27E-02	Sensitive
591234.9	4208584	2.00E-02	3.00E-02	1.35E-02	Sensitive
591234.9	4208569	2.07E-02	3.11E-02	1.39E-02	Sensitive
591234.9	4208555	1.87E-02	2.81E-02	1.26E-02	Sensitive
591235.3	4208541	1.65E-02	2.49E-02	1.11E-02	Sensitive
591235.3	4208528	1.60E-02	2.41E-02	1.07E-02	Sensitive
591234.9	4208514	1.61E-02	2.43E-02	1.08E-02	Sensitive
591235.8	4208501	1.69E-02	2.55E-02	1.13E-02	Sensitive
591235.8	4208486	1.83E-02	2.77E-02	1.22E-02	Sensitive
591238	4208472	2.00E-02	3.03E-02	1.34E-02	Sensitive
591239.5	4208453	2.20E-02	3.35E-02	1.47E-02	Sensitive
591234	4208435	1.90E-02	2.92E-02	1.26E-02	Sensitive
591218.2	4208438	1.43E-02	2.23E-02	9.47E-03	Sensitive
591204.3	4208440	1.17E-02	1.85E-02	7.74E-03	Sensitive
591200	4208477	1.09E-02	1.69E-02	7.28E-03	Sensitive
591200.7	4208490	1.05E-02	1.62E-02	7.01E-03	Sensitive
591198.8	4208504	9.96E-03	1.53E-02	6.64E-03	Sensitive
591200.7	4208517	1.04E-02	1.59E-02	6.96E-03	Sensitive
591200	4208530	1.08E-02	1.64E-02	7.19E-03	Sensitive
591199.4	4208542	1.13E-02	1.71E-02	7.54E-03	Sensitive
591198.5	4208558	1.24E-02	1.88E-02	8.34E-03	Sensitive
591197.9	4208572	1.32E-02	1.99E-02	8.86E-03	Sensitive
591197.9	4208584	1.33E-02	2.00E-02	8.90E-03	Sensitive
591197	4208598	1.32E-02	1.99E-02	8.86E-03	Sensitive
591198.2	4208612	1.35E-02	2.02E-02	9.04E-03	Sensitive
591197.3	4208626	1.35E-02	2.02E-02	9.04E-03	Sensitive
591196.7	4208639	1.38E-02	2.07E-02	9.27E-03	Sensitive
591197	4208655	1.43E-02	2.14E-02	9.58E-03	Sensitive
591235.6	4208670	2.23E-02	3.32E-02	1.50E-02	Sensitive
591223.9	4208685	1.91E-02	2.85E-02	1.29E-02	Sensitive
591204.2	4208687	1.50E-02	2.25E-02	1.01E-02	Sensitive
591190.3	4208691	1.28E-02	1.92E-02	8.59E-03	Sensitive
591178	4208692	1.13E-02	1.69E-02	7.58E-03	Sensitive
591180.2	4208656	1.20E-02	1.80E-02	8.05E-03	Sensitive
591178.6	4208641	1.18E-02	1.77E-02	7.90E-03	Sensitive
591178.3	4208628	1.17E-02	1.76E-02	7.83E-03	Sensitive
591178.3	4208615	1.15E-02	1.73E-02	7.72E-03	Sensitive
591180.2	4208600	1.14E-02	1.72E-02	7.66E-03	Sensitive
591178.6	4208586	1.11E-02	1.68E-02	7.44E-03	Sensitive

BAAQMD Risk Methodology

Cancer Risk = DPM x CPF x ASF x DBR x ED x EF x TAH / AT

Cancer Risk = probability of an individual contracting cancer out of a population of 1 million people over a lifetime exposure duration of 70 years

DPM = long-term average concentration of diesel PM as predicted by the air dispersion model (ug/m3)

CPF = cancer potency factor for DPM (mg.ke-day)

ASF = age sensitivity factors that are dependent on the age of the exposed individual (unitless)

DBR = daily breathing rates that are dependent on the age of the exposed individual (liters/kg-day)

ED = exposure duration (years of construction)

EF = exposure frequency (days/year)

TAH = time at home factors that are dependent on the age of the exposed individual (%)

AT = averaging time over the lifetime of an individual (days)

Cancer Risk Equation Values as recommended by the SJVAPCD 2015

Sensitive Receptors
Infant

CPF	1.1	milligrams/kg-day
Exposure Frequency	350	days
Averaging Time	25550	days

ASF, DBR, TAH Age Factors

Age Group	Duration	ASF	DBR	TAH	Unit Risk Factor Per Each Year
3rd Trimester	0.25	10	361	0.85	11.6
0-2 years	2	10	1090	0.85	139.6
3-16 years	1	3	572	0.72	18.6
>16 to 30 years	0	1	261	0.73	0.0

Child Receptors
3 to 16 year of age

CPF	1.1	milligrams/kg-day
Exposure Frequency	350	days
Averaging Time	25550	days

ASF, DBR, TAH Age Factors

Age Group	Duration	ASF	DBR	TAH	Unit Risk Factor Per Each Year
3rd Trimester	0	10	361	0.85	0.0
0-2 years	0	10	1090	0.85	0.0
3-16 years	3	3	572	0.72	18.6
>16 to 70 years	0	1	261	0.73	0.0

Adult Receptors
> 16 year of age

CPF	1.1	milligrams/kg-day
Exposure Frequency	350	days
Averaging Time	25550	days

ASF, DBR, TAH Age Factors

Age Group	Duration	ASF	DBR	TAH	Unit Risk Factor Per Each Year
3rd Trimester	0	10	361	0.85	0.0
0-2 years	0	10	1090	0.85	139.6
3-16 years	0	3	572	0.72	18.6
>16 to 30 years	3	1	261	0.73	2.9

Alves Ranch Project

Wit Mitigation

Cancer Risk - Infant

Maximum Risk @ Sensitive Receptors: 8.285

		2019	2019	2020	2021		
Age		**3rd Trimester**	**1**	**2**	**3**		
Unit Risk Factor		11.56	139.61	139.61	18.62		
Annual Risk (risk/million)							
		3rd trimester					
X	Y	**2019**	**2019**	**2020**	**2021**	**Total**	
591236.21	4208653.71	2.50E-01	3.020	4.506	0.271	8.04714	Sensitive
591234.46	4208640.57	2.27E-01	2.744	4.099	0.246	7.31584	Sensitive
591232.71	4208626.11	2.04E-01	2.462	3.684	0.221	6.57002	Sensitive
591233.58	4208612.54	2.12E-01	2.560	3.832	0.230	6.83388	Sensitive
591233.58	4208599.83	2.18E-01	2.638	3.949	0.237	7.04137	Sensitive
591234.9	4208583.63	2.32E-01	2.799	4.191	0.251	7.47224	Sensitive
591234.9	4208568.74	2.40E-01	2.896	4.338	0.260	7.73348	Sensitive
591234.9	4208554.72	2.16E-01	2.608	3.916	0.234	6.97459	Sensitive
591235.34	4208541.14	1.91E-01	2.308	3.476	0.207	6.18211	Sensitive
591235.34	4208527.56	1.85E-01	2.228	3.363	0.199	5.97501	Sensitive
591234.9	4208514.42	1.86E-01	2.249	3.399	0.201	6.03570	Sensitive
591235.77	4208501.28	1.95E-01	2.355	3.563	0.210	6.32345	Sensitive
591235.77	4208485.95	2.11E-01	2.549	3.861	0.228	6.84902	Sensitive
591237.96	4208472.38	2.31E-01	2.795	4.236	0.250	7.51205	Sensitive
591239.45	4208452.86	2.55E-01	3.077	4.678	0.275	8.28471	Sensitive
591233.99	4208435.28	2.19E-01	2.647	4.080	0.235	7.18125	Sensitive
591218.23	4208438.31	1.65E-01	1.994	3.110	0.176	5.44507	Sensitive
591204.28	4208439.52	1.35E-01	1.636	2.583	0.144	4.49895	Sensitive
591200.04	4208477.11	1.27E-01	1.528	2.362	0.136	4.15184	Sensitive
591200.65	4208489.84	1.22E-01	1.469	2.262	0.131	3.98370	Sensitive
591198.83	4208504.39	1.15E-01	1.390	2.134	0.124	3.76267	Sensitive
591200.65	4208517.12	1.20E-01	1.455	2.223	0.130	3.92759	Sensitive
591200.04	4208530.45	1.24E-01	1.501	2.286	0.134	4.04559	Sensitive
591199.43	4208541.97	1.30E-01	1.573	2.388	0.140	4.23185	Sensitive
591198.54	4208557.75	1.44E-01	1.738	2.629	0.155	4.66664	Sensitive
591197.91	4208571.67	1.53E-01	1.844	2.782	0.165	4.94364	Sensitive
591197.91	4208583.7	1.53E-01	1.852	2.791	0.166	4.96235	Sensitive
591196.96	4208598.26	1.53E-01	1.842	2.773	0.165	4.93300	Sensitive
591198.23	4208611.55	1.56E-01	1.880	2.826	0.168	5.03028	Sensitive
591197.28	4208626.42	1.55E-01	1.878	2.821	0.168	5.02237	Sensitive
591196.65	4208639.4	1.59E-01	1.926	2.890	0.173	5.14710	Sensitive
591196.96	4208654.59	1.65E-01	1.990	2.983	0.178	5.31572	Sensitive
591235.57	4208669.78	2.57E-01	3.109	4.635	0.279	8.28027	Sensitive
591223.86	4208684.65	2.21E-01	2.667	3.980	0.239	7.10724	Sensitive
591204.24	4208686.87	1.74E-01	2.098	3.139	0.188	5.59816	Sensitive
591190.32	4208691.3	1.48E-01	1.785	2.675	0.160	4.76747	Sensitive
591177.97	4208692.25	1.30E-01	1.575	2.364	0.141	4.21028	Sensitive
591180.19	4208655.54	1.39E-01	1.673	2.515	0.150	4.47650	Sensitive

Alves Ranch Project **With Mitigation**

Cancer Risk - Child **Maximum Risk @ Sensitive Receptors:** **1.312**

		2019	2020	2021		
Age		**1**	**2**	**3**		
Unit Risk Factor		18.62	18.62	18.62		
Annual Risk (risk/million)						
X	Y					
(m)	(m)	**2019**	**2020**	**2021**	**Total**	
591236.2	4208654	0.403	0.601	0.271	**1.275**	Sensitive
591234.5	4208641	0.366	0.547	0.246	**1.159**	Sensitive
591232.7	4208626	0.328	0.491	0.221	**1.040**	Sensitive
591233.6	4208613	0.341	0.511	0.230	**1.082**	Sensitive
591233.6	4208600	0.352	0.527	0.237	**1.115**	Sensitive
591234.9	4208584	0.373	0.559	0.251	**1.183**	Sensitive
591234.9	4208569	0.386	0.578	0.260	**1.224**	Sensitive
591234.9	4208555	0.348	0.522	0.234	**1.104**	Sensitive
591235.3	4208541	0.308	0.464	0.207	**0.978**	Sensitive
591235.3	4208528	0.297	0.448	0.199	**0.945**	Sensitive
591234.9	4208514	0.300	0.453	0.201	**0.954**	Sensitive
591235.8	4208501	0.314	0.475	0.210	**1.000**	Sensitive
591235.8	4208486	0.340	0.515	0.228	**1.083**	Sensitive
591238	4208472	0.373	0.565	0.250	**1.187**	Sensitive
591239.5	4208453	0.410	0.624	0.275	**1.309**	Sensitive
591234	4208435	0.353	0.544	0.235	**1.132**	Sensitive
591218.2	4208438	0.266	0.415	0.176	**0.857**	Sensitive
591204.3	4208440	0.218	0.344	0.144	**0.707**	Sensitive
591200	4208477	0.204	0.315	0.136	**0.654**	Sensitive
591200.7	4208490	0.196	0.302	0.131	**0.628**	Sensitive
591198.8	4208504	0.185	0.285	0.124	**0.594**	Sensitive
591200.7	4208517	0.194	0.296	0.130	**0.620**	Sensitive
591200	4208530	0.200	0.305	0.134	**0.639**	Sensitive
591199.4	4208542	0.210	0.319	0.140	**0.669**	Sensitive
591198.5	4208558	0.232	0.351	0.155	**0.738**	Sensitive
591197.9	4208572	0.246	0.371	0.165	**0.782**	Sensitive
591197.9	4208584	0.247	0.372	0.166	**0.785**	Sensitive
591197	4208598	0.246	0.370	0.165	**0.780**	Sensitive
591198.2	4208612	0.251	0.377	0.168	**0.796**	Sensitive
591197.3	4208626	0.250	0.376	0.168	**0.795**	Sensitive
591196.7	4208639	0.257	0.385	0.173	**0.815**	Sensitive
591197	4208655	0.265	0.398	0.178	**0.841**	Sensitive
591235.6	4208670	0.415	0.618	0.279	**1.312**	Sensitive
591223.9	4208685	0.356	0.531	0.239	**1.126**	Sensitive
591204.2	4208687	0.280	0.419	0.188	**0.886**	Sensitive
591190.3	4208691	0.238	0.357	0.160	**0.755**	Sensitive
591178	4208692	0.210	0.315	0.141	**0.666**	Sensitive
591180.2	4208656	0.223	0.335	0.150	**0.708**	Sensitive

Alves Ranch Project **With Mitigation**

Cancer Risk - Adult **Maximum Risk @ Sensitive Receptors:** **0.202**

		2019	2020	2021		
Age		**1**	**2**	**3**		
Unit Risk Factor		2.87	2.87	2.87		
Annual Risk (risk/million)						
X	Y					
(m)	(m)	**2019**	**2020**	**2021**	**Total**	
591236.2	4208654	0.062	0.093	0.042	**0.197**	Sensitive
591234.5	4208641	0.056	0.084	0.038	**0.179**	Sensitive
591232.7	4208626	0.051	0.076	0.034	**0.160**	Sensitive
591233.6	4208613	0.053	0.079	0.035	**0.167**	Sensitive
591233.6	4208600	0.054	0.081	0.036	**0.172**	Sensitive
591234.9	4208584	0.058	0.086	0.039	**0.182**	Sensitive
591234.9	4208569	0.060	0.089	0.040	**0.189**	Sensitive
591234.9	4208555	0.054	0.081	0.036	**0.170**	Sensitive
591235.3	4208541	0.047	0.071	0.032	**0.151**	Sensitive
591235.3	4208528	0.046	0.069	0.031	**0.146**	Sensitive
591234.9	4208514	0.046	0.070	0.031	**0.147**	Sensitive
591235.8	4208501	0.048	0.073	0.032	**0.154**	Sensitive
591235.8	4208486	0.052	0.079	0.035	**0.167**	Sensitive
591238	4208472	0.057	0.087	0.038	**0.183**	Sensitive
591239.5	4208453	0.063	0.096	0.042	**0.202**	Sensitive
591234	4208435	0.054	0.084	0.036	**0.175**	Sensitive
591218.2	4208438	0.041	0.064	0.027	**0.132**	Sensitive
591204.3	4208440	0.034	0.053	0.022	**0.109**	Sensitive
591200	4208477	0.031	0.049	0.021	**0.101**	Sensitive
591200.7	4208490	0.030	0.047	0.020	**0.097**	Sensitive
591198.8	4208504	0.029	0.044	0.019	**0.092**	Sensitive
591200.7	4208517	0.030	0.046	0.020	**0.096**	Sensitive
591200	4208530	0.031	0.047	0.021	**0.099**	Sensitive
591199.4	4208542	0.032	0.049	0.022	**0.103**	Sensitive
591198.5	4208558	0.036	0.054	0.024	**0.114**	Sensitive
591197.9	4208572	0.038	0.057	0.025	**0.121**	Sensitive
591197.9	4208584	0.038	0.057	0.026	**0.121**	Sensitive
591197	4208598	0.038	0.057	0.025	**0.120**	Sensitive
591198.2	4208612	0.039	0.058	0.026	**0.123**	Sensitive
591197.3	4208626	0.039	0.058	0.026	**0.123**	Sensitive
591196.7	4208639	0.040	0.059	0.027	**0.126**	Sensitive
591197	4208655	0.041	0.061	0.028	**0.130**	Sensitive
591235.6	4208670	0.064	0.095	0.043	**0.202**	Sensitive
591223.9	4208685	0.055	0.082	0.037	**0.174**	Sensitive
591204.2	4208687	0.043	0.065	0.029	**0.137**	Sensitive
591190.3	4208691	0.037	0.055	0.025	**0.116**	Sensitive
591178	4208692	0.032	0.049	0.022	**0.103**	Sensitive
591180.2	4208656	0.034	0.052	0.023	**0.109**	Sensitive

Alves Ranch Project **With Mitigation**

Chronic Non-cancer Hazard Index - DPM **Max CNCHI @ Sensitive Recepto** **6.70E-03**

CNCHI = Maximum Annual DPM / Reference Exposure Level

Reference Exposure Level for DPM is 5 ug/m3

X (x)	Y (y)	Max Annual DPM (ug/m3)	CNCHI	
591236.2	4208654	3.23E-02	6.45E-03	Sensitive
591234.5	4208641	2.94E-02	5.87E-03	Sensitive
591232.7	4208626	2.64E-02	5.28E-03	Sensitive
591233.6	4208613	2.74E-02	5.49E-03	Sensitive
591233.6	4208600	2.83E-02	5.66E-03	Sensitive
591234.9	4208584	3.00E-02	6.00E-03	Sensitive
591234.9	4208569	3.11E-02	6.21E-03	Sensitive
591234.9	4208555	2.81E-02	5.61E-03	Sensitive
591235.3	4208541	2.49E-02	4.98E-03	Sensitive
591235.3	4208528	2.41E-02	4.82E-03	Sensitive
591234.9	4208514	2.43E-02	4.87E-03	Sensitive
591235.8	4208501	2.55E-02	5.10E-03	Sensitive
591235.8	4208486	2.77E-02	5.53E-03	Sensitive
591238	4208472	3.03E-02	6.07E-03	Sensitive
591239.5	4208453	3.35E-02	6.70E-03	Sensitive
591234	4208435	2.92E-02	5.84E-03	Sensitive
591218.2	4208438	2.23E-02	4.46E-03	Sensitive
591204.3	4208440	1.85E-02	3.70E-03	Sensitive
591200	4208477	1.69E-02	3.38E-03	Sensitive
591200.7	4208490	1.62E-02	3.24E-03	Sensitive
591198.8	4208504	1.53E-02	3.06E-03	Sensitive
591200.7	4208517	1.59E-02	3.18E-03	Sensitive
591200	4208530	1.64E-02	3.28E-03	Sensitive
591199.4	4208542	1.71E-02	3.42E-03	Sensitive
591198.5	4208558	1.88E-02	3.77E-03	Sensitive
591197.9	4208572	1.99E-02	3.99E-03	Sensitive
591197.9	4208584	2.00E-02	4.00E-03	Sensitive
591197	4208598	1.99E-02	3.97E-03	Sensitive
591198.2	4208612	2.02E-02	4.05E-03	Sensitive
591197.3	4208626	2.02E-02	4.04E-03	Sensitive
591196.7	4208639	2.07E-02	4.14E-03	Sensitive
591197	4208655	2.14E-02	4.27E-03	Sensitive
591235.6	4208670	3.32E-02	6.64E-03	Sensitive
591223.9	4208685	2.85E-02	5.70E-03	Sensitive
591204.2	4208687	2.25E-02	4.50E-03	Sensitive

Alves Ranch Project **With Mitigation**

Annual Average PM2.5 (Exhaust + Fugitive Dust) **Maximum Annual PM2.5 @ Sensitive Receptor 6.56E-02**

X (m)	Y (m)	2019 Annual PM2.5 (ug/m3)	2020 Annual PM2.5 (ug/m3)	2021 Annual PM2.5 (ug/m3)	Maximum Annual PM2.5 (ug/m3)	
591236.21	4208653.71	6.43E-02	3.71E-02	1.62E-02	6.43E-02	Sensitive
591234.46	4208640.57	5.81E-02	3.44E-02	1.49E-02	5.81E-02	Sensitive
591232.71	4208626.11	5.24E-02	3.17E-02	1.37E-02	5.24E-02	Sensitive
591233.58	4208612.54	5.45E-02	3.30E-02	1.42E-02	5.45E-02	Sensitive
591233.58	4208599.83	5.59E-02	3.42E-02	1.47E-02	5.59E-02	Sensitive
591234.9	4208583.63	5.93E-02	3.64E-02	1.56E-02	5.93E-02	Sensitive
591234.9	4208568.74	6.11E-02	3.79E-02	1.63E-02	6.11E-02	Sensitive
591234.9	4208554.72	5.56E-02	3.53E-02	1.50E-02	5.56E-02	Sensitive
591235.34	4208541.14	5.01E-02	3.26E-02	1.37E-02	5.01E-02	Sensitive
591235.34	4208527.56	4.86E-02	3.24E-02	1.35E-02	4.86E-02	Sensitive
591234.9	4208514.42	4.88E-02	3.35E-02	1.39E-02	4.88E-02	Sensitive
591235.77	4208501.28	5.10E-02	3.56E-02	1.47E-02	5.10E-02	Sensitive
591235.77	4208485.95	5.47E-02	3.92E-02	1.62E-02	5.47E-02	Sensitive
591237.96	4208472.38	6.04E-02	4.37E-02	1.79E-02	6.04E-02	Sensitive
591239.45	4208452.86	6.45E-02	5.07E-02	2.06E-02	6.45E-02	Sensitive
591233.99	4208435.28	5.50E-02	5.38E-02	2.10E-02	5.50E-02	Sensitive
591218.23	4208438.31	4.24E-02	4.66E-02	1.77E-02	4.66E-02	Sensitive
591204.28	4208439.52	3.50E-02	4.36E-02	1.63E-02	4.36E-02	Sensitive
591200.04	4208477.11	3.16E-02	3.02E-02	1.18E-02	3.16E-02	Sensitive
591200.65	4208489.84	3.04E-02	2.77E-02	1.09E-02	3.04E-02	Sensitive
591198.83	4208504.39	2.87E-02	2.52E-02	9.99E-03	2.87E-02	Sensitive
591200.65	4208517.12	2.99E-02	2.48E-02	9.99E-03	2.99E-02	Sensitive
591200.04	4208530.45	3.07E-02	2.45E-02	9.96E-03	3.07E-02	Sensitive
591199.43	4208541.97	3.20E-02	2.48E-02	1.01E-02	3.20E-02	Sensitive
591198.54	4208557.75	3.51E-02	2.60E-02	1.08E-02	3.51E-02	Sensitive
591197.91	4208571.67	3.70E-02	2.67E-02	1.12E-02	3.70E-02	Sensitive
591197.91	4208583.7	3.71E-02	2.64E-02	1.11E-02	3.71E-02	Sensitive
591196.96	4208598.26	3.69E-02	2.58E-02	1.09E-02	3.69E-02	Sensitive
591198.23	4208611.55	3.76E-02	2.59E-02	1.10E-02	3.76E-02	Sensitive
591197.28	4208626.42	3.74E-02	2.55E-02	1.08E-02	3.74E-02	Sensitive
591196.65	4208639.4	3.82E-02	2.58E-02	1.10E-02	3.82E-02	Sensitive
591196.96	4208654.59	3.93E-02	2.62E-02	1.12E-02	3.93E-02	Sensitive
591235.57	4208669.78	6.56E-02	3.78E-02	1.66E-02	6.56E-02	Sensitive
591223.86	4208684.65	5.36E-02	3.29E-02	1.44E-02	5.36E-02	Sensitive
591204.24	4208686.87	4.11E-02	2.69E-02	1.16E-02	4.11E-02	Sensitive
591190.32	4208691.3	3.47E-02	2.35E-02	1.01E-02	3.47E-02	Sensitive
591177.97	4208692.25	3.05E-02	2.13E-02	9.05E-03	3.05E-02	Sensitive
591180.19	4208655.54	3.28E-02	2.29E-02	9.70E-03	3.28E-02	Sensitive
591178.61	4208640.98	3.23E-02	2.28E-02	9.63E-03	3.23E-02	Sensitive
591178.29	4208628	3.21E-02	2.29E-02	9.64E-03	3.21E-02	Sensitive
591178.29	4208615.35	3.17E-02	2.29E-02	9.61E-03	3.17E-02	Sensitive
591180.19	4208600.47	3.16E-02	2.31E-02	9.66E-03	3.16E-02	Sensitive
591178.61	4208585.6	3.07E-02	2.31E-02	9.58E-03	3.07E-02	Sensitive

```
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***        12/13/18
 *** AERMET - VERSION  18081 ***   ***                                          ***        01:30:14
                                                                        PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                                ***     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   420 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   1147000.0 ;  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:
       TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  UNITEMIS

 **Model Calculates PERIOD Averages Only

 **This Run Includes:    420 Source(s);       4 Source Group(s); and    1178 Receptor(s)

             with:      0 POINT(s), including
                      0 POINTCAP(s) and      0 POINTHOR(s)
              and:    418 VOLUME source(s)
              and:      2 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:  18081

 **Output Options Selected:
        Model Outputs Tables of PERIOD Averages by Receptor
```

Const_Unit_NoFactors
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) = 0.00 ; 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 = 4.1 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: Const_Unit_NoFactors.err
**File for Summary of Results: Const_Unit_NoFactors.sum
♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14
PAGE 2
*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0006515	0	0.47847E-02	590770.2	4208834.0	48.8	3.66	6.51	0.85	YES	
L0006516	0	0.47847E-02	590768.3	4208820.1	48.8	3.66	6.51	0.85	YES	
L0006517	0	0.47847E-02	590766.4	4208806.2	48.8	3.66	6.51	0.85	YES	
L0006518	0	0.47847E-02	590764.6	4208792.4	49.6	3.66	6.51	0.85	YES	
L0006519	0	0.47847E-02	590762.7	4208778.5	50.5	3.66	6.51	0.85	YES	
L0006520	0	0.47847E-02	590761.0	4208764.6	52.0	3.66	6.51	0.85	YES	
L0006521	0	0.47847E-02	590760.6	4208750.6	53.5	3.66	6.51	0.85	YES	
L0006522	0	0.47847E-02	590760.3	4208736.6	55.4	3.66	6.51	0.85	YES	
L0006523	0	0.47847E-02	590759.9	4208722.6	57.4	3.66	6.51	0.85	YES	
L0006524	0	0.47847E-02	590759.6	4208708.6	60.0	3.66	6.51	0.85	YES	
L0006525	0	0.47847E-02	590759.3	4208694.6	63.2	3.66	6.51	0.85	YES	
L0006526	0	0.47847E-02	590758.9	4208680.6	66.3	3.66	6.51	0.85	YES	
L0006527	0	0.47847E-02	590758.6	4208666.6	69.5	3.66	6.51	0.85	YES	
L0006528	0	0.47847E-02	590758.2	4208652.6	72.3	3.66	6.51	0.85	YES	
L0006529	0	0.47847E-02	590757.9	4208638.6	74.1	3.66	6.51	0.85	YES	
L0006530	0	0.47847E-02	590757.6	4208624.6	75.9	3.66	6.51	0.85	YES	
L0006531	0	0.47847E-02	590757.2	4208610.6	76.6	3.66	6.51	0.85	YES	
L0006532	0	0.47847E-02	590756.9	4208596.6	77.3	3.66	6.51	0.85	YES	
L0006533	0	0.47847E-02	590756.5	4208582.7	76.2	3.66	6.51	0.85	YES	
L0006534	0	0.47847E-02	590756.2	4208568.7	75.0	3.66	6.51	0.85	YES	
L0006535	0	0.47847E-02	590755.8	4208554.7	73.5	3.66	6.51	0.85	YES	
L0006536	0	0.47847E-02	590755.5	4208540.7	71.8	3.66	6.51	0.85	YES	
L0006537	0	0.47847E-02	590755.2	4208526.7	70.3	3.66	6.51	0.85	YES	

L0006538	0	0.47847E-02	590754.8	4208512.7	68.8	3.66	6.51	0.85	YES
L0006539	0	0.47847E-02	590754.5	4208498.7	67.8	3.66	6.51	0.85	YES
L0006540	0	0.47847E-02	590754.1	4208484.7	67.4	3.66	6.51	0.85	YES
L0006541	0	0.47847E-02	590760.5	4208476.9	66.4	3.66	6.51	0.85	YES
L0006542	0	0.47847E-02	590774.5	4208476.2	64.9	3.66	6.51	0.85	YES
L0006543	0	0.47847E-02	590788.5	4208475.5	63.6	3.66	6.51	0.85	YES
L0006544	0	0.47847E-02	590802.4	4208474.9	62.5	3.66	6.51	0.85	YES
L0006545	0	0.47847E-02	590816.4	4208474.2	61.0	3.66	6.51	0.85	YES
L0006546	0	0.47847E-02	590830.4	4208473.5	58.5	3.66	6.51	0.85	YES
L0006547	0	0.47847E-02	590844.4	4208472.8	56.0	3.66	6.51	0.85	YES
L0006548	0	0.47847E-02	590858.4	4208472.2	54.0	3.66	6.51	0.85	YES
L0006549	0	0.47847E-02	590872.4	4208471.5	52.1	3.66	6.51	0.85	YES
L0006550	0	0.47847E-02	590886.3	4208470.8	52.9	3.66	6.51	0.85	YES
L0006551	0	0.47847E-02	590900.3	4208469.9	54.1	3.66	6.51	0.85	YES
L0006552	0	0.47847E-02	590914.1	4208467.4	55.0	3.66	6.51	0.85	YES
L0006553	0	0.47847E-02	590927.8	4208464.9	55.8	3.66	6.51	0.85	YES
L0006554	0	0.47847E-02	590941.6	4208462.5	56.6	3.66	6.51	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** 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
L0006555	0	0.47847E-02	590955.4	4208460.0	57.4	3.66	6.51	0.85	YES	
L0006556	0	0.47847E-02	590969.2	4208457.5	58.6	3.66	6.51	0.85	YES	
L0006557	0	0.47847E-02	590983.0	4208455.0	60.8	3.66	6.51	0.85	YES	
L0006558	0	0.47847E-02	590996.7	4208452.4	62.9	3.66	6.51	0.85	YES	
L0006559	0	0.47847E-02	591010.4	4208449.3	65.2	3.66	6.51	0.85	YES	
L0006560	0	0.47847E-02	591024.0	4208446.3	67.4	3.66	6.51	0.85	YES	
L0006561	0	0.47847E-02	591037.7	4208443.3	71.1	3.66	6.51	0.85	YES	
L0006562	0	0.47847E-02	591051.4	4208440.2	74.6	3.66	6.51	0.85	YES	
L0006563	0	0.47847E-02	591065.0	4208437.2	78.4	3.66	6.51	0.85	YES	
L0006564	0	0.47847E-02	591078.7	4208434.2	82.3	3.66	6.51	0.85	YES	
L0006565	0	0.47847E-02	591092.4	4208431.2	84.0	3.66	6.51	0.85	YES	
L0006566	0	0.47847E-02	591106.1	4208428.1	84.3	3.66	6.51	0.85	YES	
L0006567	0	0.47847E-02	591119.7	4208425.1	83.6	3.66	6.51	0.85	YES	
L0006568	0	0.47847E-02	591133.4	4208422.2	82.0	3.66	6.51	0.85	YES	
L0006569	0	0.47847E-02	591147.1	4208419.3	80.3	3.66	6.51	0.85	YES	
L0006570	0	0.47847E-02	591160.8	4208416.5	78.3	3.66	6.51	0.85	YES	
L0006571	0	0.47847E-02	591174.5	4208413.6	75.7	3.66	6.51	0.85	YES	
L0006572	0	0.47847E-02	591188.2	4208410.8	71.2	3.66	6.51	0.85	YES	
L0006573	0	0.47847E-02	591201.9	4208407.9	66.9	3.66	6.51	0.85	YES	
L0006574	0	0.47847E-02	591215.7	4208405.1	63.2	3.66	6.51	0.85	YES	
L0006575	0	0.47847E-02	591229.4	4208402.2	60.0	3.66	6.51	0.85	YES	
L0006576	0	0.47847E-02	591243.1	4208399.4	57.5	3.66	6.51	0.85	YES	
L0006577	0	0.47847E-02	591256.8	4208396.5	55.3	3.66	6.51	0.85	YES	
L0006578	0	0.47847E-02	591270.5	4208393.7	53.9	3.66	6.51	0.85	YES	
L0006579	0	0.47847E-02	591284.2	4208390.8	53.5	3.66	6.51	0.85	YES	

L0006580	0	0.47847E-02	591297.9	4208388.0	54.1	3.66	6.51	0.85	YES
L0006581	0	0.47847E-02	591311.6	4208385.1	56.5	3.66	6.51	0.85	YES
L0006582	0	0.47847E-02	591325.3	4208382.3	58.9	3.66	6.51	0.85	YES
L0006583	0	0.47847E-02	591339.0	4208379.4	60.5	3.66	6.51	0.85	YES
L0006584	0	0.47847E-02	591352.7	4208376.6	62.2	3.66	6.51	0.85	YES
L0006585	0	0.47847E-02	591366.4	4208373.7	63.4	3.66	6.51	0.85	YES
L0006586	0	0.47847E-02	591380.1	4208370.9	64.5	3.66	6.51	0.85	YES
L0006587	0	0.47847E-02	591393.8	4208368.0	66.1	3.66	6.51	0.85	YES
L0006588	0	0.47847E-02	591407.5	4208365.2	67.8	3.66	6.51	0.85	YES
L0006589	0	0.47847E-02	591421.3	4208362.3	69.2	3.66	6.51	0.85	YES
L0006590	0	0.47847E-02	591435.0	4208359.5	70.5	3.66	6.51	0.85	YES
L0006591	0	0.47847E-02	591448.7	4208356.6	71.7	3.66	6.51	0.85	YES
L0006592	0	0.47847E-02	591462.4	4208353.8	73.0	3.66	6.51	0.85	YES
L0006593	0	0.47847E-02	591476.1	4208350.9	74.1	3.66	6.51	0.85	YES
L0006594	0	0.47847E-02	591489.8	4208348.1	74.6	3.66	6.51	0.85	YES

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*** 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
L0006595	0	0.47847E-02	591503.5	4208345.2	74.9	3.66	6.51	0.85	YES	
L0006596	0	0.47847E-02	591517.2	4208342.4	74.0	3.66	6.51	0.85	YES	
L0006597	0	0.47847E-02	591530.9	4208339.5	73.2	3.66	6.51	0.85	YES	
L0006598	0	0.47847E-02	591544.6	4208336.7	73.7	3.66	6.51	0.85	YES	
L0006599	0	0.47847E-02	591558.3	4208333.8	74.7	3.66	6.51	0.85	YES	
L0006600	0	0.47847E-02	591572.0	4208331.0	74.9	3.66	6.51	0.85	YES	
L0006601	0	0.47847E-02	591585.7	4208328.1	74.2	3.66	6.51	0.85	YES	
L0006602	0	0.47847E-02	591599.4	4208325.3	72.9	3.66	6.51	0.85	YES	
L0006603	0	0.47847E-02	591613.1	4208322.4	70.7	3.66	6.51	0.85	YES	
L0006604	0	0.47847E-02	591626.9	4208319.5	68.2	3.66	6.51	0.85	YES	
L0006605	0	0.47847E-02	591640.6	4208316.7	64.8	3.66	6.51	0.85	YES	
L0006606	0	0.47847E-02	591654.3	4208313.8	61.3	3.66	6.51	0.85	YES	
L0006607	0	0.47847E-02	591668.0	4208311.0	58.3	3.66	6.51	0.85	YES	
L0006608	0	0.47847E-02	591681.7	4208308.1	55.2	3.66	6.51	0.85	YES	
L0006609	0	0.47847E-02	591695.4	4208305.3	51.9	3.66	6.51	0.85	YES	
L0006610	0	0.47847E-02	591709.1	4208302.4	48.8	3.66	6.51	0.85	YES	
L0006611	0	0.47847E-02	591722.8	4208299.6	46.7	3.66	6.51	0.85	YES	
L0006612	0	0.47847E-02	591736.5	4208296.5	45.2	3.66	6.51	0.85	YES	
L0006613	0	0.47847E-02	591750.0	4208293.0	44.9	3.66	6.51	0.85	YES	
L0006614	0	0.47847E-02	591763.6	4208289.5	45.8	3.66	6.51	0.85	YES	
L0006615	0	0.47847E-02	591777.1	4208286.0	47.4	3.66	6.51	0.85	YES	
L0006616	0	0.47847E-02	591790.5	4208282.0	50.5	3.66	6.51	0.85	YES	
L0006617	0	0.47847E-02	591803.7	4208277.2	53.6	3.66	6.51	0.85	YES	
L0006618	0	0.47847E-02	591816.8	4208272.5	57.3	3.66	6.51	0.85	YES	
L0006619	0	0.47847E-02	591830.0	4208267.7	61.1	3.66	6.51	0.85	YES	
L0006620	0	0.47847E-02	591842.7	4208261.9	65.1	3.66	6.51	0.85	YES	
L0006621	0	0.47847E-02	591855.2	4208255.5	69.3	3.66	6.51	0.85	YES	

L0006622	0	0.47847E-02	591867.6	4208249.0	72.4	3.66	6.51	0.85	YES
L0006623	0	0.47847E-02	591880.0	4208242.6	72.8	3.66	6.51	0.85	YES
L0006624	0	0.47847E-02	591892.4	4208236.2	73.1	3.66	6.51	0.85	YES
L0006625	0	0.47847E-02	591904.9	4208229.7	72.4	3.66	6.51	0.85	YES
L0006626	0	0.47847E-02	591917.3	4208223.3	71.7	3.66	6.51	0.85	YES
L0006627	0	0.47847E-02	591929.7	4208216.7	72.1	3.66	6.51	0.85	YES
L0006628	0	0.47847E-02	591941.6	4208209.4	73.1	3.66	6.51	0.85	YES
L0006629	0	0.47847E-02	591953.6	4208202.1	73.5	3.66	6.51	0.85	YES
L0006630	0	0.47847E-02	591965.5	4208194.8	72.0	3.66	6.51	0.85	YES
L0006631	0	0.47847E-02	591977.4	4208187.5	69.4	3.66	6.51	0.85	YES
L0006632	0	0.47847E-02	591989.4	4208180.2	65.5	3.66	6.51	0.85	YES
L0006633	0	0.47847E-02	592001.3	4208172.8	61.3	3.66	6.51	0.85	YES
L0006634	0	0.47847E-02	592013.2	4208165.5	57.4	3.66	6.51	0.85	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0006635	0	0.47847E-02	592025.2 4208158.2	54.8	3.66	6.51	0.85	YES
L0006636	0	0.47847E-02	592037.6 4208151.8	52.9	3.66	6.51	0.85	YES
L0006637	0	0.47847E-02	592050.6 4208146.7	52.3	3.66	6.51	0.85	YES
L0006638	0	0.47847E-02	592063.7 4208141.7	52.8	3.66	6.51	0.85	YES
L0006639	0	0.47847E-02	592076.7 4208136.6	52.5	3.66	6.51	0.85	YES
L0006640	0	0.47847E-02	592089.8 4208131.5	51.0	3.66	6.51	0.85	YES
L0006641	0	0.47847E-02	592102.8 4208126.5	49.2	3.66	6.51	0.85	YES
L0006642	0	0.47847E-02	592116.3 4208123.1	48.5	3.66	6.51	0.85	YES
L0006643	0	0.47847E-02	592130.1 4208120.6	48.5	3.66	6.51	0.85	YES
L0006644	0	0.47847E-02	592143.9 4208118.1	49.3	3.66	6.51	0.85	YES
L0006645	0	0.47847E-02	592157.7 4208115.7	50.1	3.66	6.51	0.85	YES
L0006646	0	0.47847E-02	592171.5 4208113.2	50.4	3.66	6.51	0.85	YES
L0006647	0	0.47847E-02	592185.2 4208110.7	50.6	3.66	6.51	0.85	YES
L0006648	0	0.47847E-02	592199.0 4208108.2	50.6	3.66	6.51	0.85	YES
L0006649	0	0.47847E-02	592212.8 4208105.8	50.1	3.66	6.51	0.85	YES
L0006650	0	0.47847E-02	592226.6 4208103.3	49.6	3.66	6.51	0.85	YES
L0006651	0	0.47847E-02	592240.4 4208100.8	48.3	3.66	6.51	0.85	YES
L0006652	0	0.47847E-02	592254.1 4208098.3	46.9	3.66	6.51	0.85	YES
L0006653	0	0.47847E-02	592267.9 4208095.8	46.3	3.66	6.51	0.85	YES
L0006654	0	0.47847E-02	592281.7 4208093.4	45.5	3.66	6.51	0.85	YES
L0006655	0	0.47847E-02	592295.5 4208090.9	46.0	3.66	6.51	0.85	YES
L0006656	0	0.47847E-02	592309.2 4208088.4	46.4	3.66	6.51	0.85	YES
L0006657	0	0.47847E-02	592323.0 4208085.9	48.1	3.66	6.51	0.85	YES
L0006658	0	0.47847E-02	592336.8 4208083.5	50.8	3.66	6.51	0.85	YES
L0006659	0	0.47847E-02	592350.6 4208081.0	52.7	3.66	6.51	0.85	YES
L0006660	0	0.47847E-02	592364.4 4208078.5	53.9	3.66	6.51	0.85	YES
L0006661	0	0.47847E-02	592378.1 4208076.0	55.2	3.66	6.51	0.85	YES
L0006662	0	0.47847E-02	592391.9 4208073.6	56.6	3.66	6.51	0.85	YES
L0006663	0	0.47847E-02	592405.7 4208071.1	57.8	3.66	6.51	0.85	YES

L0006664	0	0.47847E-02	592419.5	4208068.6	58.5	3.66	6.51	0.85	YES
L0006665	0	0.47847E-02	592433.3	4208066.1	59.3	3.66	6.51	0.85	YES
L0006666	0	0.47847E-02	592447.0	4208063.7	58.1	3.66	6.51	0.85	YES
L0006667	0	0.47847E-02	592460.8	4208061.2	57.0	3.66	6.51	0.85	YES
L0006668	0	0.47847E-02	592474.6	4208058.7	55.8	3.66	6.51	0.85	YES
L0006669	0	0.47847E-02	592488.4	4208056.2	54.5	3.66	6.51	0.85	YES
L0006670	0	0.47847E-02	592502.2	4208053.7	53.5	3.66	6.51	0.85	YES
L0006671	0	0.47847E-02	592515.9	4208051.3	52.5	3.66	6.51	0.85	YES
L0006672	0	0.47847E-02	592529.7	4208048.8	51.7	3.66	6.51	0.85	YES
L0006673	0	0.47847E-02	592543.5	4208046.3	51.2	3.66	6.51	0.85	YES
L0006674	0	0.47847E-02	592557.3	4208043.8	50.6	3.66	6.51	0.85	YES

*** 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
L0006675	0	0.47847E-02	592571.1	4208041.7	50.0	3.66	6.51	0.85	YES	
L0006676	0	0.47847E-02	592585.1	4208041.9	49.3	3.66	6.51	0.85	YES	
L0006677	0	0.47847E-02	592599.1	4208042.0	49.1	3.66	6.51	0.85	YES	
L0006678	0	0.47847E-02	592613.1	4208042.2	48.9	3.66	6.51	0.85	YES	
L0006679	0	0.47847E-02	592627.1	4208042.3	49.7	3.66	6.51	0.85	YES	
L0006680	0	0.47847E-02	592641.1	4208042.5	50.6	3.66	6.51	0.85	YES	
L0006681	0	0.47847E-02	592655.1	4208042.6	54.5	3.66	6.51	0.85	YES	
L0006682	0	0.47847E-02	592669.1	4208042.7	59.1	3.66	6.51	0.85	YES	
L0006683	0	0.47847E-02	592683.1	4208042.9	63.1	3.66	6.51	0.85	YES	
L0006684	0	0.47847E-02	592697.1	4208043.0	66.8	3.66	6.51	0.85	YES	
L0006685	0	0.47847E-02	592711.1	4208043.2	69.4	3.66	6.51	0.85	YES	
L0006686	0	0.47847E-02	592725.1	4208043.3	71.0	3.66	6.51	0.85	YES	
L0006687	0	0.47847E-02	592739.1	4208043.5	71.2	3.66	6.51	0.85	YES	
L0006688	0	0.47847E-02	592753.1	4208043.6	68.8	3.66	6.51	0.85	YES	
L0006689	0	0.47847E-02	592767.1	4208043.8	66.2	3.66	6.51	0.85	YES	
L0006690	0	0.47847E-02	592781.1	4208043.9	63.2	3.66	6.51	0.85	YES	
L0006691	0	0.47847E-02	592795.1	4208044.1	60.4	3.66	6.51	0.85	YES	
L0006692	0	0.47847E-02	592809.1	4208044.2	58.9	3.66	6.51	0.85	YES	
L0006693	0	0.47847E-02	592823.1	4208044.4	57.3	3.66	6.51	0.85	YES	
L0006694	0	0.47847E-02	592837.1	4208044.5	56.0	3.66	6.51	0.85	YES	
L0006695	0	0.47847E-02	592851.1	4208044.7	54.6	3.66	6.51	0.85	YES	
L0006696	0	0.47847E-02	592865.1	4208044.8	53.8	3.66	6.51	0.85	YES	
L0006697	0	0.47847E-02	592875.4	4208048.6	53.2	3.66	6.51	0.85	YES	
L0006698	0	0.47847E-02	592875.3	4208062.6	52.3	3.66	6.51	0.85	YES	
L0006699	0	0.47847E-02	592875.1	4208076.6	51.4	3.66	6.51	0.85	YES	
L0006700	0	0.47847E-02	592875.0	4208090.6	50.5	3.66	6.51	0.85	YES	
L0006701	0	0.47847E-02	592874.9	4208104.6	49.5	3.66	6.51	0.85	YES	
L0006702	0	0.47847E-02	592874.8	4208118.6	48.6	3.66	6.51	0.85	YES	
L0006703	0	0.47847E-02	592874.6	4208132.6	48.2	3.66	6.51	0.85	YES	
L0006704	0	0.47847E-02	592874.5	4208146.6	47.8	3.66	6.51	0.85	YES	
L0006705	0	0.47847E-02	592874.4	4208160.6	47.2	3.66	6.51	0.85	YES	

L0006706	0	0.47847E-02	592874.3	4208174.6	46.5	3.66	6.51	0.85	YES
L0006707	0	0.47847E-02	592874.1	4208188.6	46.1	3.66	6.51	0.85	YES
L0006708	0	0.47847E-02	592874.0	4208202.6	45.8	3.66	6.51	0.85	YES
L0006709	0	0.47847E-02	592873.9	4208216.6	45.3	3.66	6.51	0.85	YES
L0006710	0	0.47847E-02	592873.8	4208230.6	44.6	3.66	6.51	0.85	YES
L0006711	0	0.47847E-02	592873.6	4208244.6	44.0	3.66	6.51	0.85	YES
L0006712	0	0.47847E-02	592873.5	4208258.6	43.5	3.66	6.51	0.85	YES
L0006713	0	0.47847E-02	592873.4	4208272.6	43.0	3.66	6.51	0.85	YES
L0006714	0	0.47847E-02	592873.3	4208286.6	42.5	3.66	6.51	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

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L0006715	0	0.47847E-02	592873.1	4208300.6	42.1	3.66	6.51	0.85	YES	
L0006716	0	0.47847E-02	592873.0	4208314.6	41.6	3.66	6.51	0.85	YES	
L0006717	0	0.47847E-02	592872.9	4208328.6	41.2	3.66	6.51	0.85	YES	
L0006718	0	0.47847E-02	592872.8	4208342.6	40.8	3.66	6.51	0.85	YES	
L0006719	0	0.47847E-02	592872.6	4208356.6	40.4	3.66	6.51	0.85	YES	
L0006720	0	0.47847E-02	592872.5	4208370.6	40.0	3.66	6.51	0.85	YES	
L0006721	0	0.47847E-02	592872.4	4208384.6	39.7	3.66	6.51	0.85	YES	
L0006722	0	0.47847E-02	592872.2	4208398.6	39.2	3.66	6.51	0.85	YES	
L0006723	0	0.47847E-02	592872.1	4208412.6	38.8	3.66	6.51	0.85	YES	
L0006306	0	0.47847E-02	590769.0	4208830.8	48.8	1.00	6.51	0.23	YES	
L0006307	0	0.47847E-02	590767.5	4208816.9	48.8	1.00	6.51	0.23	YES	
L0006308	0	0.47847E-02	590765.9	4208803.0	48.9	1.00	6.51	0.23	YES	
L0006309	0	0.47847E-02	590764.4	4208789.1	49.8	1.00	6.51	0.23	YES	
L0006310	0	0.47847E-02	590762.8	4208775.2	50.8	1.00	6.51	0.23	YES	
L0006311	0	0.47847E-02	590761.5	4208761.3	52.3	1.00	6.51	0.23	YES	
L0006312	0	0.47847E-02	590761.2	4208747.3	53.9	1.00	6.51	0.23	YES	
L0006313	0	0.47847E-02	590760.9	4208733.3	55.9	1.00	6.51	0.23	YES	
L0006314	0	0.47847E-02	590760.6	4208719.3	57.9	1.00	6.51	0.23	YES	
L0006315	0	0.47847E-02	590760.3	4208705.3	60.8	1.00	6.51	0.23	YES	
L0006316	0	0.47847E-02	590759.9	4208691.3	63.9	1.00	6.51	0.23	YES	
L0006317	0	0.47847E-02	590759.6	4208677.3	67.1	1.00	6.51	0.23	YES	
L0006318	0	0.47847E-02	590759.3	4208663.3	70.2	1.00	6.51	0.23	YES	
L0006319	0	0.47847E-02	590759.0	4208649.3	72.7	1.00	6.51	0.23	YES	
L0006320	0	0.47847E-02	590758.7	4208635.3	74.4	1.00	6.51	0.23	YES	
L0006321	0	0.47847E-02	590758.3	4208621.3	75.9	1.00	6.51	0.23	YES	
L0006322	0	0.47847E-02	590758.0	4208607.3	76.5	1.00	6.51	0.23	YES	
L0006323	0	0.47847E-02	590757.7	4208593.3	76.9	1.00	6.51	0.23	YES	
L0006324	0	0.47847E-02	590757.4	4208579.3	75.7	1.00	6.51	0.23	YES	
L0006325	0	0.47847E-02	590757.1	4208565.3	74.5	1.00	6.51	0.23	YES	
L0006326	0	0.47847E-02	590756.8	4208551.3	72.8	1.00	6.51	0.23	YES	
L0006327	0	0.47847E-02	590756.4	4208537.3	71.2	1.00	6.51	0.23	YES	
L0006328	0	0.47847E-02	590756.1	4208523.3	69.7	1.00	6.51	0.23	YES	
L0006329	0	0.47847E-02	590755.8	4208509.3	68.2	1.00	6.51	0.23	YES	

L0006330	0	0.47847E-02	590755.5	4208495.3	67.6	1.00	6.51	0.23	YES
L0006331	0	0.47847E-02	590755.2	4208481.3	67.1	1.00	6.51	0.23	YES
L0006332	0	0.47847E-02	590762.8	4208474.9	66.2	1.00	6.51	0.23	YES
L0006333	0	0.47847E-02	590776.8	4208474.6	64.7	1.00	6.51	0.23	YES
L0006334	0	0.47847E-02	590790.8	4208474.3	63.4	1.00	6.51	0.23	YES
L0006335	0	0.47847E-02	590804.8	4208474.0	62.3	1.00	6.51	0.23	YES
L0006336	0	0.47847E-02	590818.8	4208473.7	60.6	1.00	6.51	0.23	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** 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
L0006337	0	0.47847E-02	590832.8	4208473.4	58.1	1.00	6.51	0.23	YES	
L0006338	0	0.47847E-02	590846.8	4208473.1	55.7	1.00	6.51	0.23	YES	
L0006339	0	0.47847E-02	590860.8	4208472.8	53.7	1.00	6.51	0.23	YES	
L0006340	0	0.47847E-02	590874.8	4208472.5	52.0	1.00	6.51	0.23	YES	
L0006341	0	0.47847E-02	590888.8	4208472.2	53.1	1.00	6.51	0.23	YES	
L0006342	0	0.47847E-02	590902.8	4208471.9	54.2	1.00	6.51	0.23	YES	
L0006343	0	0.47847E-02	590916.6	4208470.1	55.0	1.00	6.51	0.23	YES	
L0006344	0	0.47847E-02	590930.3	4208467.2	55.9	1.00	6.51	0.23	YES	
L0006345	0	0.47847E-02	590944.0	4208464.3	56.6	1.00	6.51	0.23	YES	
L0006346	0	0.47847E-02	590957.7	4208461.3	57.4	1.00	6.51	0.23	YES	
L0006347	0	0.47847E-02	590971.4	4208458.4	58.9	1.00	6.51	0.23	YES	
L0006348	0	0.47847E-02	590985.1	4208455.5	61.0	1.00	6.51	0.23	YES	
L0006349	0	0.47847E-02	590998.7	4208452.6	63.2	1.00	6.51	0.23	YES	
L0006350	0	0.47847E-02	591012.4	4208449.7	65.5	1.00	6.51	0.23	YES	
L0006351	0	0.47847E-02	591026.1	4208446.8	68.0	1.00	6.51	0.23	YES	
L0006352	0	0.47847E-02	591039.8	4208443.8	71.6	1.00	6.51	0.23	YES	
L0006353	0	0.47847E-02	591053.5	4208440.9	75.2	1.00	6.51	0.23	YES	
L0006354	0	0.47847E-02	591067.2	4208438.0	79.0	1.00	6.51	0.23	YES	
L0006355	0	0.47847E-02	591080.9	4208435.1	82.9	1.00	6.51	0.23	YES	
L0006356	0	0.47847E-02	591094.6	4208432.2	84.0	1.00	6.51	0.23	YES	
L0006357	0	0.47847E-02	591108.3	4208429.3	84.2	1.00	6.51	0.23	YES	
L0006358	0	0.47847E-02	591122.0	4208426.3	83.3	1.00	6.51	0.23	YES	
L0006359	0	0.47847E-02	591135.7	4208423.4	81.7	1.00	6.51	0.23	YES	
L0006360	0	0.47847E-02	591149.4	4208420.5	80.0	1.00	6.51	0.23	YES	
L0006361	0	0.47847E-02	591163.1	4208417.6	78.0	1.00	6.51	0.23	YES	
L0006362	0	0.47847E-02	591176.8	4208414.7	75.3	1.00	6.51	0.23	YES	
L0006363	0	0.47847E-02	591190.4	4208411.8	70.8	1.00	6.51	0.23	YES	
L0006364	0	0.47847E-02	591204.1	4208408.9	66.5	1.00	6.51	0.23	YES	
L0006365	0	0.47847E-02	591217.8	4208405.9	62.8	1.00	6.51	0.23	YES	
L0006366	0	0.47847E-02	591231.5	4208403.0	59.6	1.00	6.51	0.23	YES	
L0006367	0	0.47847E-02	591245.2	4208400.1	57.2	1.00	6.51	0.23	YES	
L0006368	0	0.47847E-02	591258.9	4208397.2	55.0	1.00	6.51	0.23	YES	
L0006369	0	0.47847E-02	591272.6	4208394.3	53.8	1.00	6.51	0.23	YES	
L0006370	0	0.47847E-02	591286.3	4208391.4	53.4	1.00	6.51	0.23	YES	
L0006371	0	0.47847E-02	591300.0	4208388.4	54.3	1.00	6.51	0.23	YES	

L0006372	0	0.47847E-02	591313.7	4208385.5	56.7	1.00	6.51	0.23	YES
L0006373	0	0.47847E-02	591327.4	4208382.6	59.0	1.00	6.51	0.23	YES
L0006374	0	0.47847E-02	591341.1	4208379.7	60.6	1.00	6.51	0.23	YES
L0006375	0	0.47847E-02	591354.8	4208376.8	62.3	1.00	6.51	0.23	YES
L0006376	0	0.47847E-02	591368.5	4208373.9	63.4	1.00	6.51	0.23	YES

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*** VOLUME SOURCE DATA ***

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L0006377	0	0.47847E-02	591382.1	4208370.9	64.5	1.00	6.51	0.23	YES	
L0006378	0	0.47847E-02	591395.8	4208368.0	66.3	1.00	6.51	0.23	YES	
L0006379	0	0.47847E-02	591409.5	4208365.1	68.0	1.00	6.51	0.23	YES	
L0006380	0	0.47847E-02	591423.2	4208362.2	69.4	1.00	6.51	0.23	YES	
L0006381	0	0.47847E-02	591436.9	4208359.3	70.6	1.00	6.51	0.23	YES	
L0006382	0	0.47847E-02	591450.6	4208356.4	71.9	1.00	6.51	0.23	YES	
L0006383	0	0.47847E-02	591464.3	4208353.4	73.2	1.00	6.51	0.23	YES	
L0006384	0	0.47847E-02	591478.0	4208350.5	74.2	1.00	6.51	0.23	YES	
L0006385	0	0.47847E-02	591491.7	4208347.6	74.6	1.00	6.51	0.23	YES	
L0006386	0	0.47847E-02	591505.4	4208344.7	74.8	1.00	6.51	0.23	YES	
L0006387	0	0.47847E-02	591519.1	4208341.8	73.9	1.00	6.51	0.23	YES	
L0006388	0	0.47847E-02	591532.8	4208338.9	73.1	1.00	6.51	0.23	YES	
L0006389	0	0.47847E-02	591546.5	4208335.9	73.9	1.00	6.51	0.23	YES	
L0006390	0	0.47847E-02	591560.2	4208333.0	74.9	1.00	6.51	0.23	YES	
L0006391	0	0.47847E-02	591573.8	4208330.1	74.9	1.00	6.51	0.23	YES	
L0006392	0	0.47847E-02	591587.5	4208327.2	74.2	1.00	6.51	0.23	YES	
L0006393	0	0.47847E-02	591601.2	4208324.3	72.6	1.00	6.51	0.23	YES	
L0006394	0	0.47847E-02	591614.9	4208321.4	70.4	1.00	6.51	0.23	YES	
L0006395	0	0.47847E-02	591628.6	4208318.4	67.7	1.00	6.51	0.23	YES	
L0006396	0	0.47847E-02	591642.3	4208315.5	64.3	1.00	6.51	0.23	YES	
L0006397	0	0.47847E-02	591656.0	4208312.5	60.9	1.00	6.51	0.23	YES	
L0006398	0	0.47847E-02	591669.7	4208309.6	57.8	1.00	6.51	0.23	YES	
L0006399	0	0.47847E-02	591683.4	4208306.6	54.6	1.00	6.51	0.23	YES	
L0006400	0	0.47847E-02	591697.0	4208303.7	51.4	1.00	6.51	0.23	YES	
L0006401	0	0.47847E-02	591710.7	4208300.8	48.3	1.00	6.51	0.23	YES	
L0006402	0	0.47847E-02	591724.4	4208297.8	46.5	1.00	6.51	0.23	YES	
L0006403	0	0.47847E-02	591738.1	4208294.9	45.1	1.00	6.51	0.23	YES	
L0006404	0	0.47847E-02	591751.8	4208291.9	45.0	1.00	6.51	0.23	YES	
L0006405	0	0.47847E-02	591765.5	4208289.0	45.9	1.00	6.51	0.23	YES	
L0006406	0	0.47847E-02	591779.1	4208285.7	47.8	1.00	6.51	0.23	YES	
L0006407	0	0.47847E-02	591791.9	4208280.0	50.9	1.00	6.51	0.23	YES	
L0006408	0	0.47847E-02	591804.7	4208274.3	53.9	1.00	6.51	0.23	YES	
L0006409	0	0.47847E-02	591817.5	4208268.7	57.6	1.00	6.51	0.23	YES	
L0006410	0	0.47847E-02	591830.3	4208263.0	61.4	1.00	6.51	0.23	YES	
L0006411	0	0.47847E-02	591843.1	4208257.4	65.5	1.00	6.51	0.23	YES	
L0006412	0	0.47847E-02	591855.9	4208251.7	69.8	1.00	6.51	0.23	YES	
L0006413	0	0.47847E-02	591868.7	4208246.0	72.6	1.00	6.51	0.23	YES	

L0006414	0	0.47847E-02	591881.5	4208240.4	72.9	1.00	6.51	0.23	YES
L0006415	0	0.47847E-02	591894.3	4208234.7	73.2	1.00	6.51	0.23	YES
L0006416	0	0.47847E-02	591907.0	4208228.8	72.2	1.00	6.51	0.23	YES

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*** VOLUME SOURCE DATA ***

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L0006417	0	0.47847E-02	591918.9	4208221.5	71.8	1.00	6.51	0.23	YES	
L0006418	0	0.47847E-02	591930.8	4208214.2	72.5	1.00	6.51	0.23	YES	
L0006419	0	0.47847E-02	591942.8	4208206.8	73.5	1.00	6.51	0.23	YES	
L0006420	0	0.47847E-02	591954.7	4208199.5	73.4	1.00	6.51	0.23	YES	
L0006421	0	0.47847E-02	591966.6	4208192.2	71.7	1.00	6.51	0.23	YES	
L0006422	0	0.47847E-02	591978.5	4208184.8	68.8	1.00	6.51	0.23	YES	
L0006423	0	0.47847E-02	591990.5	4208177.5	64.7	1.00	6.51	0.23	YES	
L0006424	0	0.47847E-02	592002.4	4208170.2	60.7	1.00	6.51	0.23	YES	
L0006425	0	0.47847E-02	592014.3	4208162.8	56.8	1.00	6.51	0.23	YES	
L0006426	0	0.47847E-02	592026.9	4208156.8	54.5	1.00	6.51	0.23	YES	
L0006427	0	0.47847E-02	592039.6	4208150.9	52.6	1.00	6.51	0.23	YES	
L0006428	0	0.47847E-02	592052.4	4208145.1	52.4	1.00	6.51	0.23	YES	
L0006429	0	0.47847E-02	592065.1	4208139.3	52.8	1.00	6.51	0.23	YES	
L0006430	0	0.47847E-02	592078.4	4208134.8	52.3	1.00	6.51	0.23	YES	
L0006431	0	0.47847E-02	592091.6	4208130.2	50.7	1.00	6.51	0.23	YES	
L0006432	0	0.47847E-02	592104.8	4208125.7	49.0	1.00	6.51	0.23	YES	
L0006433	0	0.47847E-02	592118.2	4208121.6	48.5	1.00	6.51	0.23	YES	
L0006434	0	0.47847E-02	592132.0	4208119.2	48.6	1.00	6.51	0.23	YES	
L0006435	0	0.47847E-02	592145.8	4208116.8	49.5	1.00	6.51	0.23	YES	
L0006436	0	0.47847E-02	592159.6	4208114.3	50.2	1.00	6.51	0.23	YES	
L0006437	0	0.47847E-02	592173.4	4208111.9	50.5	1.00	6.51	0.23	YES	
L0006438	0	0.47847E-02	592187.1	4208109.5	50.7	1.00	6.51	0.23	YES	
L0006439	0	0.47847E-02	592200.9	4208107.0	50.6	1.00	6.51	0.23	YES	
L0006440	0	0.47847E-02	592214.7	4208104.6	50.1	1.00	6.51	0.23	YES	
L0006441	0	0.47847E-02	592228.5	4208102.2	49.5	1.00	6.51	0.23	YES	
L0006442	0	0.47847E-02	592242.3	4208099.7	48.2	1.00	6.51	0.23	YES	
L0006443	0	0.47847E-02	592256.1	4208097.3	46.9	1.00	6.51	0.23	YES	
L0006444	0	0.47847E-02	592269.8	4208094.7	46.2	1.00	6.51	0.23	YES	
L0006445	0	0.47847E-02	592283.6	4208092.2	45.5	1.00	6.51	0.23	YES	
L0006446	0	0.47847E-02	592297.4	4208089.6	46.0	1.00	6.51	0.23	YES	
L0006447	0	0.47847E-02	592311.1	4208087.1	46.3	1.00	6.51	0.23	YES	
L0006448	0	0.47847E-02	592324.9	4208084.5	48.5	1.00	6.51	0.23	YES	
L0006449	0	0.47847E-02	592338.7	4208081.9	51.1	1.00	6.51	0.23	YES	
L0006450	0	0.47847E-02	592352.4	4208079.4	52.8	1.00	6.51	0.23	YES	
L0006451	0	0.47847E-02	592366.2	4208076.8	54.1	1.00	6.51	0.23	YES	
L0006452	0	0.47847E-02	592380.0	4208074.3	55.4	1.00	6.51	0.23	YES	
L0006453	0	0.47847E-02	592393.7	4208071.7	56.8	1.00	6.51	0.23	YES	
L0006454	0	0.47847E-02	592407.5	4208069.2	57.9	1.00	6.51	0.23	YES	
L0006455	0	0.47847E-02	592421.2	4208066.6	58.6	1.00	6.51	0.23	YES	

L0006456 0 0.47847E-02 592435.0 4208064.0 59.3 1.00 6.51 0.23 YES

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L0006457	0	0.47847E-02	592448.8	4208061.5	58.1	1.00	6.51	0.23	YES	
L0006458	0	0.47847E-02	592462.5	4208058.9	57.1	1.00	6.51	0.23	YES	
L0006459	0	0.47847E-02	592476.3	4208056.4	55.8	1.00	6.51	0.23	YES	
L0006460	0	0.47847E-02	592490.1	4208053.8	54.7	1.00	6.51	0.23	YES	
L0006461	0	0.47847E-02	592503.8	4208051.3	53.7	1.00	6.51	0.23	YES	
L0006462	0	0.47847E-02	592517.6	4208048.7	52.7	1.00	6.51	0.23	YES	
L0006463	0	0.47847E-02	592531.4	4208046.1	51.9	1.00	6.51	0.23	YES	
L0006464	0	0.47847E-02	592545.3	4208045.9	51.1	1.00	6.51	0.23	YES	
L0006465	0	0.47847E-02	592559.3	4208045.8	50.3	1.00	6.51	0.23	YES	
L0006466	0	0.47847E-02	592573.3	4208045.7	49.5	1.00	6.51	0.23	YES	
L0006467	0	0.47847E-02	592587.3	4208045.7	48.9	1.00	6.51	0.23	YES	
L0006468	0	0.47847E-02	592601.3	4208045.6	48.8	1.00	6.51	0.23	YES	
L0006469	0	0.47847E-02	592615.3	4208045.5	48.8	1.00	6.51	0.23	YES	
L0006470	0	0.47847E-02	592629.3	4208045.5	50.0	1.00	6.51	0.23	YES	
L0006471	0	0.47847E-02	592643.3	4208045.4	51.1	1.00	6.51	0.23	YES	
L0006472	0	0.47847E-02	592657.3	4208045.3	55.6	1.00	6.51	0.23	YES	
L0006473	0	0.47847E-02	592671.3	4208045.3	60.3	1.00	6.51	0.23	YES	
L0006474	0	0.47847E-02	592685.3	4208045.2	64.0	1.00	6.51	0.23	YES	
L0006475	0	0.47847E-02	592699.3	4208045.1	67.6	1.00	6.51	0.23	YES	
L0006476	0	0.47847E-02	592713.3	4208045.1	69.8	1.00	6.51	0.23	YES	
L0006477	0	0.47847E-02	592727.3	4208045.0	71.3	1.00	6.51	0.23	YES	
L0006478	0	0.47847E-02	592741.3	4208044.9	70.7	1.00	6.51	0.23	YES	
L0006479	0	0.47847E-02	592755.3	4208044.9	68.3	1.00	6.51	0.23	YES	
L0006480	0	0.47847E-02	592769.3	4208044.8	65.7	1.00	6.51	0.23	YES	
L0006481	0	0.47847E-02	592783.3	4208044.7	62.7	1.00	6.51	0.23	YES	
L0006482	0	0.47847E-02	592797.3	4208044.7	60.1	1.00	6.51	0.23	YES	
L0006483	0	0.47847E-02	592811.3	4208044.6	58.6	1.00	6.51	0.23	YES	
L0006484	0	0.47847E-02	592825.3	4208044.5	57.1	1.00	6.51	0.23	YES	
L0006485	0	0.47847E-02	592839.3	4208044.5	55.8	1.00	6.51	0.23	YES	
L0006486	0	0.47847E-02	592853.3	4208044.4	54.4	1.00	6.51	0.23	YES	
L0006487	0	0.47847E-02	592867.3	4208044.3	53.7	1.00	6.51	0.23	YES	
L0006488	0	0.47847E-02	592874.6	4208051.1	53.1	1.00	6.51	0.23	YES	
L0006489	0	0.47847E-02	592874.5	4208065.1	52.2	1.00	6.51	0.23	YES	
L0006490	0	0.47847E-02	592874.4	4208079.1	51.3	1.00	6.51	0.23	YES	
L0006491	0	0.47847E-02	592874.4	4208093.1	50.3	1.00	6.51	0.23	YES	
L0006492	0	0.47847E-02	592874.3	4208107.1	49.3	1.00	6.51	0.23	YES	
L0006493	0	0.47847E-02	592874.2	4208121.1	48.5	1.00	6.51	0.23	YES	
L0006494	0	0.47847E-02	592874.2	4208135.1	48.1	1.00	6.51	0.23	YES	
L0006495	0	0.47847E-02	592874.1	4208149.1	47.7	1.00	6.51	0.23	YES	
L0006496	0	0.47847E-02	592874.1	4208163.1	47.0	1.00	6.51	0.23	YES	

*** 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
L0006497	0	0.47847E-02	592874.0	4208177.1	46.4	1.00	6.51	0.23	YES	
L0006498	0	0.47847E-02	592873.9	4208191.1	46.1	1.00	6.51	0.23	YES	
L0006499	0	0.47847E-02	592873.9	4208205.1	45.8	1.00	6.51	0.23	YES	
L0006500	0	0.47847E-02	592873.8	4208219.1	45.1	1.00	6.51	0.23	YES	
L0006501	0	0.47847E-02	592873.8	4208233.1	44.5	1.00	6.51	0.23	YES	
L0006502	0	0.47847E-02	592873.7	4208247.1	43.9	1.00	6.51	0.23	YES	
L0006503	0	0.47847E-02	592873.6	4208261.1	43.4	1.00	6.51	0.23	YES	
L0006504	0	0.47847E-02	592873.6	4208275.1	42.9	1.00	6.51	0.23	YES	
L0006505	0	0.47847E-02	592873.5	4208289.1	42.5	1.00	6.51	0.23	YES	
L0006506	0	0.47847E-02	592873.4	4208303.1	42.0	1.00	6.51	0.23	YES	
L0006507	0	0.47847E-02	592873.4	4208317.1	41.5	1.00	6.51	0.23	YES	
L0006508	0	0.47847E-02	592873.3	4208331.1	41.1	1.00	6.51	0.23	YES	
L0006509	0	0.47847E-02	592873.3	4208345.1	40.7	1.00	6.51	0.23	YES	
L0006510	0	0.47847E-02	592873.2	4208359.1	40.3	1.00	6.51	0.23	YES	
L0006511	0	0.47847E-02	592873.1	4208373.1	40.0	1.00	6.51	0.23	YES	
L0006512	0	0.47847E-02	592873.1	4208387.1	39.6	1.00	6.51	0.23	YES	
L0006513	0	0.47847E-02	592873.0	4208401.1	39.2	1.00	6.51	0.23	YES	
L0006514	0	0.47847E-02	592873.0	4208415.1	38.7	1.00	6.51	0.23	YES	

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AREAEXH	0	0.10000E-04	591253.1	4208417.8	56.7	5.00	13	2.30	YES	
AREAFUG	0	0.10000E-04	591245.2	4208699.5	59.7	1.00	19	0.00	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
AREAEXH	AREAEXH ,
AREAFUG	AREAFUG ,
OFFEXH	L0006515 , L0006516 , L0006517 , L0006518 , L0006519 , L0006520 , L0006521 , L0006522 ,
	L0006523 , L0006524 , L0006525 , L0006526 , L0006527 , L0006528 , L0006529 , L0006530 ,
	L0006531 , L0006532 , L0006533 , L0006534 , L0006535 , L0006536 , L0006537 , L0006538 ,
	L0006539 , L0006540 , L0006541 , L0006542 , L0006543 , L0006544 , L0006545 , L0006546 ,
	L0006547 , L0006548 , L0006549 , L0006550 , L0006551 , L0006552 , L0006553 , L0006554 ,
	L0006555 , L0006556 , L0006557 , L0006558 , L0006559 , L0006560 , L0006561 , L0006562 ,
	L0006563 , L0006564 , L0006565 , L0006566 , L0006567 , L0006568 , L0006569 , L0006570 ,
	L0006571 , L0006572 , L0006573 , L0006574 , L0006575 , L0006576 , L0006577 , L0006578 ,
	L0006579 , L0006580 , L0006581 , L0006582 , L0006583 , L0006584 , L0006585 , L0006586 ,
	L0006587 , L0006588 , L0006589 , L0006590 , L0006591 , L0006592 , L0006593 , L0006594 ,
	L0006595 , L0006596 , L0006597 , L0006598 , L0006599 , L0006600 , L0006601 , L0006602 ,
	L0006603 , L0006604 , L0006605 , L0006606 , L0006607 , L0006608 , L0006609 , L0006610 ,
	L0006611 , L0006612 , L0006613 , L0006614 , L0006615 , L0006616 , L0006617 , L0006618 ,
	L0006619 , L0006620 , L0006621 , L0006622 , L0006623 , L0006624 , L0006625 , L0006626 ,
	L0006627 , L0006628 , L0006629 , L0006630 , L0006631 , L0006632 , L0006633 , L0006634 ,
	L0006635 , L0006636 , L0006637 , L0006638 , L0006639 , L0006640 , L0006641 ,

L0006642 ,

L0006643 , L0006644 , L0006645 , L0006646 , L0006647 , L0006648 , L0006649 , L0006650 ,

L0006651 , L0006652 , L0006653 , L0006654 , L0006655 , L0006656 , L0006657 , L0006658 ,

♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0006659 , L0006660 , L0006661 , L0006662 , L0006663 , L0006664 , L0006665 , L0006666 ,

L0006667 , L0006668 , L0006669 , L0006670 , L0006671 , L0006672 , L0006673 , L0006674 ,

L0006675 , L0006676 , L0006677 , L0006678 , L0006679 , L0006680 , L0006681 , L0006682 ,

L0006683 , L0006684 , L0006685 , L0006686 , L0006687 , L0006688 , L0006689 , L0006690 ,

L0006691 , L0006692 , L0006693 , L0006694 , L0006695 , L0006696 , L0006697 , L0006698 ,

L0006699 , L0006700 , L0006701 , L0006702 , L0006703 , L0006704 , L0006705 , L0006706 ,

L0006707 , L0006708 , L0006709 , L0006710 , L0006711 , L0006712 , L0006713 , L0006714 ,

L0006715 , L0006716 , L0006717 , L0006718 , L0006719 , L0006720 , L0006721 , L0006722 ,

L0006723 ,

OFFFUG L0006306 , L0006307 , L0006308 , L0006309 , L0006310 , L0006311 , L0006312 , L0006313 ,

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L0006362 , L0006363 , L0006364 , L0006365 , L0006366 , L0006367 , L0006368 , L0006369 ,

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L0006378 , L0006379 , L0006380 , L0006381 , L0006382 , L0006383 , L0006384 , L0006385 ,

L0006386 , L0006387 , L0006388 , L0006389 , L0006390 , L0006391 , L0006392 , L0006393 ,

♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0006394 , L0006395 , L0006396 , L0006397 , L0006398 , L0006399 , L0006400 , L0006401 ,

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L0006410 , L0006411 , L0006412 , L0006413 , L0006414 , L0006415 , L0006416 , L0006417 ,

L0006418 , L0006419 , L0006420 , L0006421 , L0006422 , L0006423 , L0006424 , L0006425 ,

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L0006490 , L0006491 , L0006492 , L0006493 , L0006494 , L0006495 , L0006496 , L0006497 ,

L0006498 , L0006499 , L0006500 , L0006501 , L0006502 , L0006503 , L0006504 , L0006505 ,

L0006506 , L0006507 , L0006508 , L0006509 , L0006510 , L0006511 , L0006512 , L0006513 ,

L0006514 ,

♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

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

URBAN ID	URBAN POP	SOURCE IDs

1147000. AREAEXH , L0006515 , L0006516 , L0006517 , L0006518 , L0006519 , L0006520 , L0006521 ,

L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 , L0006528 , L0006529 ,

L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 , L0006536 , L0006537 ,

L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , L0006543 , L0006544 , L0006545 ,

L0006546 , L0006547 , L0006548 , L0006549 , L0006550 , L0006551 , L0006552 , L0006553 ,

L0006554 , L0006555 , L0006556 , L0006557 , L0006558 , L0006559 , L0006560 , L0006561 ,

L0006562 , L0006563 , L0006564 , L0006565 , L0006566 , L0006567 , L0006568 , L0006569 ,

L0006570 , L0006571 , L0006572 , L0006573 , L0006574 , L0006575 , L0006576 , L0006577 ,

L0006578 , L0006579 , L0006580 , L0006581 , L0006582 , L0006583 , L0006584 , L0006585 ,

L0006586 , L0006587 , L0006588 , L0006589 , L0006590 , L0006591 , L0006592 , L0006593 ,

L0006594 , L0006595 , L0006596 , L0006597 , L0006598 , L0006599 , L0006600 , L0006601 ,

L0006602 , L0006603 , L0006604 , L0006605 , L0006606 , L0006607 , L0006608 , L0006609 ,

L0006610 , L0006611 , L0006612 , L0006613 , L0006614 , L0006615 , L0006616 , L0006617 ,

L0006618 , L0006619 , L0006620 , L0006621 , L0006622 , L0006623 , L0006624 , L0006625 ,

L0006626 , L0006627 , L0006628 , L0006629 , L0006630 , L0006631 , L0006632 , L0006633 ,

L0006634 , L0006635 , L0006636 , L0006637 , L0006638 , L0006639 , L0006640 , L0006641 ,

L0006642 , L0006643 , L0006644 , L0006645 , L0006646 , L0006647 , L0006648 , L0006649 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

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

URBAN ID	URBAN POP	SOURCE IDs

L0006674 , L0006675 , L0006676 , L0006677 , L0006678 , L0006679 , L0006680 ,

L0006681 ,

L0006682 , L0006683 , L0006684 , L0006685 , L0006686 , L0006687 , L0006688 , L0006689 ,

L0006690 , L0006691 , L0006692 , L0006693 , L0006694 , L0006695 , L0006696 , L0006697 ,

L0006698 , L0006699 , L0006700 , L0006701 , L0006702 , L0006703 , L0006704 , L0006705 ,

L0006706 , L0006707 , L0006708 , L0006709 , L0006710 , L0006711 , L0006712 , L0006713 ,

L0006714 , L0006715 , L0006716 , L0006717 , L0006718 , L0006719 , L0006720 , L0006721 ,

L0006722 , L0006723 , AREAFUG , L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,

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L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,

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L0006335 , L0006336 , L0006337 , L0006338 , L0006339 , L0006340 , L0006341 , L0006342 ,

L0006343 , L0006344 , L0006345 , L0006346 , L0006347 , L0006348 , L0006349 , L0006350 ,

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L0006359 , L0006360 , L0006361 , L0006362 , L0006363 , L0006364 , L0006365 , L0006366 ,

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♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

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

URBAN ID	URBAN POP	SOURCE IDs

L0006415 , L0006416 , L0006417 , L0006418 , L0006419 , L0006420 , L0006421 , L0006422 ,

L0006423 , L0006424 , L0006425 , L0006426 , L0006427 , L0006428 , L0006429 , L0006430 ,

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L0006495 , L0006496 , L0006497 , L0006498 , L0006499 , L0006500 , L0006501 , L0006502 ,

L0006503 , L0006504 , L0006505 , L0006506 , L0006507 , L0006508 , L0006509 , L0006510 ,

L0006511 , L0006512 , L0006513 , L0006514 ,
♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

590596.9, 590646.9, 590696.9, 590746.9, 590796.9, 590846.9, 590896.9, 590946.9, 590996.9, 591046.9,
591096.9, 591146.9, 591196.9, 591246.9, 591296.9, 591346.9, 591396.9, 591446.9, 591496.9, 591546.9,
591596.9, 591646.9, 591696.9, 591746.9, 591796.9, 591846.9, 591896.9, 591946.9, 591996.9, 592046.9,
592096.9, 592146.9, 592196.9, 592246.9, 592296.9, 592346.9, 592396.9, 592446.9, 592496.9, 592546.9,
592596.9, 592646.9, 592696.9, 592746.9, 592796.9, 592846.9, 592896.9, 592946.9, 592996.9, 593046.9,

*** Y-COORDINATES OF GRID ***
(METERS)

4207976.7, 4208026.7, 4208076.7, 4208126.7, 4208176.7, 4208226.7, 4208276.7, 4208326.7, 4208376.7, 4208426.7,
4208476.7, 4208526.7, 4208576.7, 4208626.7, 4208676.7, 4208726.7, 4208776.7, 4208826.7, 4208876.7, 4208926.7,

♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	590596.94	590646.94	590696.94	590746.94	590796.94	590846.94	590896.94	590946.94	590996.94
4208926.72	54.90	53.70	52.10	52.00	49.20	45.80	44.00	43.90	40.00
4208876.72	49.90	50.70	52.00	50.80	48.80	46.90	45.70	48.20	47.80
4208826.72	50.70	50.80	51.20	49.00	49.20	48.80	47.00	46.60	48.00
4208776.72	56.50	58.90	60.50	51.60	51.60	51.10	46.00	45.80	46.00
4208726.72	61.30	67.70	66.80	57.50	57.70	53.70	46.00	46.60	47.80
4208676.72	70.10	76.90	73.70	68.00	64.10	52.60	46.50	48.10	49.70
4208626.72	80.40	84.10	80.70	76.80	66.20	47.30	48.50	50.50	53.00
4208576.72	88.30	90.50	86.20	77.60	65.00	46.90	51.30	53.10	56.40
4208526.72	96.00	90.80	81.40	71.80	61.10	49.50	53.00	54.40	59.40
4208476.72	97.20	87.10	76.40	68.30	62.90	55.50	53.70	56.40	61.80
4208426.72	97.40	87.40	78.60	69.70	61.70	56.20	55.00	58.40	63.80
4208376.72	100.50	89.30	77.00	70.40	63.90	59.20	57.80	60.30	66.00

4208326.72	106.50	93.50	80.40	72.70	66.80	64.30	60.70	62.60	68.30
4208276.72	113.90	98.20	85.20	75.90	70.40	65.80	62.50	67.30	71.70
4208226.72	122.30	107.10	93.30	85.20	75.10	66.30	69.10	72.20	77.30
4208176.72	129.70	115.90	104.30	93.10	76.20	71.00	74.60	78.10	83.90
4208126.72	129.00	114.50	93.00	81.20	73.20	76.20	80.40	87.70	91.90
4208076.72	116.00	102.70	84.80	77.10	74.50	80.90	91.60	98.70	96.60
4208026.72	98.90	88.40	81.80	74.40	75.50	86.50	104.30	107.90	98.90
4207976.72	90.20	82.30	76.70	74.10	77.50	93.60	112.60	113.20	103.60

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

PAGE 22

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 591046.94	591096.94	591146.94	591196.94	591246.94	591296.94	591346.94	591396.94	591446.94
4208926.72	42.10	50.20	45.50	43.40	47.40	42.40	37.10	35.50	34.00
4208876.72	47.40	54.00	54.00	52.80	53.20	48.90	45.60	42.60	37.40
4208826.72	50.00	51.10	52.70	54.90	51.30	46.50	45.10	44.70	43.70
4208776.72	50.90	55.30	50.90	48.00	47.90	47.50	46.60	44.60	41.10
4208726.72	54.70	66.00	71.50	65.70	57.70	50.60	48.70	45.40	43.20
4208676.72	59.10	69.60	74.00	67.80	60.90	55.70	48.60	44.30	44.60
4208626.72	63.40	74.70	76.30	70.60	66.50	57.30	51.70	53.30	50.00
4208576.72	67.80	79.90	77.70	71.20	63.80	59.50	61.20	56.00	50.50
4208526.72	70.70	82.60	81.10	77.10	67.30	59.70	54.10	48.40	46.10
4208476.72	72.50	83.30	81.80	72.70	62.20	53.10	48.20	47.30	48.10
4208426.72	73.40	84.20	80.30	69.80	58.20	51.50	51.70	54.60	57.10
4208376.72	74.10	79.20	71.70	62.20	56.00	55.70	61.70	64.50	67.80
4208326.72	75.50	73.00	63.80	57.70	60.50	64.20	73.40	76.70	78.70
4208276.72	75.50	68.20	65.60	64.20	70.10	77.20	84.30	88.30	87.30
4208226.72	76.30	71.10	76.20	71.40	76.20	84.50	93.40	100.10	97.20
4208176.72	77.00	76.10	82.90	79.20	84.60	91.50	99.80	108.90	102.40
4208126.72	80.70	82.20	92.60	89.20	93.50	101.10	104.70	110.90	104.30
4208076.72	85.70	91.10	102.60	103.90	104.70	111.00	111.10	102.40	94.00
4208026.72	92.10	100.70	113.20	116.90	116.30	118.00	107.50	93.70	81.90
4207976.72	97.90	109.50	119.90	129.70	126.70	117.80	98.70	86.20	74.00

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

PAGE 23

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS) | X-COORD (METERS) 591496.94 591546.94 591596.94 591646.94 591696.94 591746.94 591796.94 591846.94 591896.94

4208926.72	32.50	31.40	31.10	31.10	31.10	31.10	30.80	30.50	30.10
4208876.72	34.40	33.20	32.60	32.10	32.10	31.90	31.80	31.60	31.20
4208826.72	39.50	34.90	33.50	33.00	32.80	32.70	32.80	32.80	32.50
4208776.72	40.20	36.00	34.70	34.20	34.00	33.50	34.00	34.00	33.40
4208726.72	43.10	41.50	39.50	38.50	38.50	36.00	35.40	34.30	32.80
4208676.72	43.10	43.10	44.20	44.40	43.00	40.30	38.60	37.50	36.80
4208626.72	43.50	43.00	43.00	43.50	43.00	43.00	44.10	44.80	45.00
4208576.72	47.20	44.20	43.00	43.00	43.10	43.00	44.00	48.10	48.00
4208526.72	45.30	43.50	45.50	47.90	47.30	43.00	43.00	49.90	56.40
4208476.72	49.00	49.40	53.60	66.10	54.30	43.00	43.20	55.90	61.50
4208426.72	60.50	58.90	59.80	71.70	56.30	43.20	46.10	59.50	64.70
4208376.72	70.20	66.60	66.10	71.80	58.20	43.90	47.90	61.30	67.30
4208326.72	77.60	75.80	73.20	64.50	53.70	44.50	49.40	63.50	69.90
4208276.72	82.60	75.30	68.80	59.50	50.20	45.00	52.20	65.70	70.00
4208226.72	85.00	72.40	63.60	56.00	50.80	49.30	55.20	68.30	73.80
4208176.72	88.10	72.90	62.60	55.70	52.70	53.10	58.00	69.30	77.30
4208126.72	92.40	77.70	63.20	56.60	53.90	54.80	61.00	72.20	77.90
4208076.72	84.70	72.90	61.90	58.30	55.50	59.80	68.00	77.20	73.80
4208026.72	72.70	63.50	60.60	58.20	59.00	67.70	77.60	81.90	76.10
4207976.72	65.50	68.20	65.70	59.90	64.90	74.50	85.40	85.70	75.70

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

PAGE 24

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	591946.94	591996.94	592046.94	592096.94	592146.94	592196.94	592246.94	592296.94	592346.94
4208926.72	29.30	28.40	27.60	25.10	24.30	25.40	26.10	26.50	26.50
4208876.72	30.80	29.90	28.40	26.10	25.10	26.20	27.10	27.50	27.50
4208826.72	31.60	30.80	28.30	27.20	26.60	26.80	28.10	28.90	28.90
4208776.72	31.90	30.00	27.10	27.10	27.80	27.70	29.60	30.80	30.40
4208726.72	30.50	30.30	29.70	29.30	29.80	29.80	30.40	32.30	32.40
4208676.72	35.00	34.10	33.70	33.60	34.00	33.40	32.10	33.40	34.20
4208626.72	37.60	36.20	36.20	35.90	36.20	35.90	35.20	35.00	35.00
4208576.72	43.70	41.90	42.20	39.70	40.90	39.80	36.80	36.00	35.60
4208526.72	47.70	44.80	44.70	42.10	43.10	42.60	40.00	37.40	36.50
4208476.72	53.30	51.70	57.90	50.50	45.40	42.30	41.60	40.10	39.10
4208426.72	53.60	57.80	63.50	58.80	54.70	44.90	40.50	38.30	39.20
4208376.72	55.20	63.80	67.20	57.90	47.60	41.50	38.50	36.60	41.30
4208326.72	59.90	68.60	65.70	50.40	43.30	39.40	40.00	40.00	53.00
4208276.72	65.30	71.40	61.80	48.20	43.30	43.40	41.50	42.60	58.70
4208226.72	71.30	70.00	57.30	48.80	45.60	46.30	43.20	43.80	58.80
4208176.72	74.40	62.90	52.40	50.60	45.80	47.50	43.50	44.70	54.80
4208126.72	69.90	58.30	53.70	49.90	48.70	49.60	45.80	46.20	52.40
4208076.72	64.30	56.90	52.10	51.50	52.40	54.00	50.20	46.60	52.30
4208026.72	62.90	52.80	55.30	54.40	55.00	61.20	57.90	50.50	51.30

4207976.72 | 57.30 58.20 59.20 60.00 60.60 65.00 62.00 53.60 53.60
♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14
PAGE 25
*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	592396.94	592446.94	592496.94	592546.94	592596.94	592646.94	592696.94	592746.94	592796.94
4208926.72	26.30	25.90	25.50	25.00	24.50	24.00	23.80	24.10	24.40
4208876.72	27.30	27.00	26.90	26.80	26.00	24.50	24.20	24.80	25.50
4208826.72	28.70	28.30	28.30	28.30	27.50	24.90	24.20	25.20	26.70
4208776.72	29.90	29.50	29.80	29.60	28.20	24.70	24.60	25.20	27.80
4208726.72	31.70	30.90	31.10	30.60	28.50	25.90	25.50	26.70	29.40
4208676.72	33.50	32.70	32.40	30.70	28.20	27.00	26.70	27.10	30.70
4208626.72	34.50	34.00	33.70	31.00	28.70	29.10	27.40	26.90	31.20
4208576.72	35.50	35.10	33.30	30.20	30.10	32.90	30.10	29.40	30.70
4208526.72	36.40	35.70	31.80	31.70	33.40	34.70	34.10	34.30	34.30
4208476.72	38.50	39.10	38.90	36.90	36.20	36.20	36.50	36.50	36.50
4208426.72	40.60	42.30	39.30	38.10	38.10	38.20	37.90	35.90	36.00
4208376.72	47.60	49.50	37.10	36.20	38.70	40.20	39.90	37.90	34.20
4208326.72	57.30	55.90	42.40	36.40	37.60	41.80	42.30	41.60	37.20
4208276.72	63.60	57.80	44.70	39.20	39.80	45.00	49.80	47.80	42.50
4208226.72	64.30	55.80	45.80	41.60	43.20	55.30	61.30	56.20	47.40
4208176.72	63.20	53.30	46.20	44.90	45.60	62.50	71.40	62.80	51.30
4208126.72	59.80	53.60	47.20	46.00	46.30	58.40	70.20	65.60	55.60
4208076.72	57.10	57.20	51.50	48.20	46.70	55.50	68.20	67.90	58.50
4208026.72	59.70	62.30	58.00	52.90	50.10	49.80	64.80	70.60	60.90
4207976.72	63.50	72.60	66.20	57.70	53.40	51.50	58.70	69.80	63.70

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14
PAGE 26
*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	592846.94	592896.94	592946.94	592996.94	593046.94
4208926.72	25.10	25.70	25.90	25.90	25.60
4208876.72	26.60	27.20	27.40	27.10	26.90
4208826.72	27.80	28.60	28.60	28.60	28.30
4208776.72	29.30	30.00	29.90	29.80	29.80
4208726.72	31.00	31.20	31.20	31.20	31.20
4208676.72	32.10	32.40	32.40	32.30	32.20

4208626.72	33.30	33.40	33.20	33.50	33.50
4208576.72	34.20	35.20	35.20	35.20	35.30
4208526.72	35.50	36.50	36.60	36.60	36.60
4208476.72	37.00	37.20	37.20	37.40	37.50
4208426.72	38.10	38.50	38.50	38.60	39.00
4208376.72	39.40	39.70	39.60	39.60	40.30
4208326.72	40.20	41.40	41.40	41.60	41.50
4208276.72	41.70	43.30	43.50	43.50	41.30
4208226.72	43.50	45.50	45.50	45.80	37.10
4208176.72	45.90	47.10	47.20	44.00	35.10
4208126.72	49.00	48.50	48.90	40.30	40.30
4208076.72	52.80	51.30	50.80	38.70	45.30
4208026.72	56.00	53.90	51.80	39.50	48.20
4207976.72	58.30	55.80	51.80	41.30	49.00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 590596.94	590646.94	590696.94	590746.94	590796.94	590846.94	590896.94	590946.94	590996.94
4208926.72	263.70	263.70	263.70	263.70	263.70	263.70	263.70	263.70	263.70
4208876.72	263.70	263.70	263.70	263.70	263.70	263.70	263.70	263.70	263.70
4208826.72	263.70	263.70	263.70	263.70	263.70	263.70	263.70	279.50	263.70
4208776.72	263.70	263.70	263.70	263.70	263.70	263.70	279.50	279.50	279.50
4208726.72	263.70	263.70	263.70	263.70	263.70	279.50	279.50	279.50	279.50
4208676.72	263.70	263.70	263.70	263.70	263.70	279.50	279.50	279.50	279.50
4208626.72	263.70	263.70	263.70	263.70	263.70	296.60	296.60	296.60	296.60
4208576.72	263.70	263.70	263.70	263.70	279.50	296.60	296.60	296.60	296.60
4208526.72	263.70	263.70	263.70	279.50	279.50	296.60	296.60	296.60	296.60
4208476.72	263.70	263.70	263.70	279.50	279.50	296.60	296.60	296.60	296.60
4208426.72	263.70	263.70	279.50	279.50	296.60	296.60	296.60	296.60	296.60
4208376.72	263.70	263.70	279.50	279.50	296.60	296.60	296.60	296.60	296.60
4208326.72	263.70	263.70	279.50	279.50	296.60	296.60	296.60	296.60	296.60
4208276.72	263.70	263.70	279.50	279.50	296.60	296.60	296.60	296.60	

296.60
4208226.72 | 263.70 263.70 279.50 279.50 296.60 296.60 296.60 296.60
296.60
4208176.72 | 263.70 263.70 276.50 279.50 296.60 296.60 296.60 296.60
296.60
4208126.72 | 263.70 263.70 279.50 296.60 296.60 296.60 296.60 296.60
296.60
4208076.72 | 263.70 279.50 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208026.72 | 279.50 296.60 296.60 296.60 296.60 296.60 279.50 279.50
296.60
4207976.72 | 296.60 296.60 296.60 296.60 296.60 296.60 279.50 279.50
296.60
♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14
PAGE 28
*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 591046.94 591096.94 591146.94 591196.94 591246.94 591296.94 591346.94
591396.94 591446.94

4208926.72 | 263.70 263.70 263.70 263.70 263.70 263.70 279.50 279.50
296.60
4208876.72 | 263.70 263.70 263.70 263.70 261.20 261.20 261.20 279.50
296.60
4208826.72 | 263.70 263.70 263.70 263.70 263.70 279.50 279.50 279.50
296.60
4208776.72 | 279.50 263.70 279.50 279.50 279.50 296.60 296.60 296.60
296.60
4208726.72 | 279.50 263.70 74.10 263.70 279.50 296.60 296.60 296.60
296.60
4208676.72 | 279.50 263.70 261.20 263.70 279.50 296.60 296.60 296.60
296.60
4208626.72 | 279.50 263.70 263.70 263.70 279.50 296.60 296.60 296.60
296.60
4208576.72 | 279.50 263.70 263.70 279.50 296.60 296.60 296.60 296.60
296.60
4208526.72 | 279.50 263.70 263.70 279.50 296.60 296.60 296.60 296.60
296.60
4208476.72 | 279.50 279.50 279.50 296.60 296.60 296.60 296.60 296.60
296.60
4208426.72 | 296.60 279.50 279.50 296.60 296.60 296.60 296.60 296.60
296.60
4208376.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208326.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208276.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60

4208226.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208176.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 279.50
296.60
4208126.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208076.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208026.72 | 296.60 296.60 296.60 279.50 296.60 296.60 296.60 296.60
296.60
4207976.72 | 296.60 296.60 279.50 279.50 279.50 296.60 296.60 296.60
296.60

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 591496.94 591546.94 591596.94 591646.94 591696.94 591746.94 591796.94
591846.94 591896.94
- -

4208926.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208876.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208826.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208776.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208726.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208676.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208626.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60
4208576.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208526.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208476.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208426.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208376.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208326.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208276.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208226.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60

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4208176.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208126.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208076.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208026.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4207976.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)							
	591946.94	591996.94	592046.94	592096.94	592146.94	592196.94	592246.94	592296.94	592346.94
4208926.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208876.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208826.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208776.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208726.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208676.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208626.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208576.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208526.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208476.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208426.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208376.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208326.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208276.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60
4208226.72	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60	296.60

4208176.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208126.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208076.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208026.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4207976.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 592396.94 592446.94 592496.94 592546.94 592596.94 592646.94 592696.94
592746.94 592796.94

4208926.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 24.10
24.40
4208876.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208826.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208776.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208726.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208676.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208626.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208576.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208526.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208476.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208426.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208376.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208326.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208276.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208226.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208176.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60

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4208126.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208076.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4208026.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
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4207976.72 | 296.60 296.60 296.60 296.60 296.60 296.60 296.60 296.60
296.60

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	592846.94	592896.94	592946.94	592996.94	593046.94
4208926.72	25.10	25.70	25.90	25.90	25.60
4208876.72	26.60	27.20	27.40	27.10	26.90
4208826.72	296.60	28.60	28.60	28.60	28.30
4208776.72	296.60	296.60	275.80	275.80	275.80
4208726.72	296.60	296.60	296.60	296.60	275.80
4208676.72	296.60	296.60	296.60	296.60	296.60
4208626.72	296.60	296.60	296.60	296.60	296.60
4208576.72	296.60	296.60	296.60	296.60	296.60
4208526.72	296.60	296.60	296.60	296.60	296.60
4208476.72	296.60	296.60	296.60	296.60	296.60
4208426.72	296.60	296.60	296.60	296.60	296.60
4208376.72	296.60	296.60	296.60	296.60	296.60
4208326.72	296.60	296.60	296.60	296.60	296.60
4208276.72	296.60	296.60	296.60	296.60	296.60
4208226.72	296.60	296.60	296.60	296.60	296.60
4208176.72	296.60	296.60	296.60	296.60	296.60
4208126.72	296.60	296.60	296.60	296.60	296.60
4208076.72	296.60	296.60	296.60	296.60	296.60
4208026.72	296.60	296.60	296.60	296.60	296.60
4207976.72	296.60	296.60	296.60	296.60	296.60

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

(591236.2, 4208653.7, 64.2, 279.5, 0.0); (591234.5, 4208640.6, 66.1, 279.5, 0.0);
(591232.7, 4208626.1, 68.3, 279.5, 0.0); (591233.6, 4208612.5, 67.8, 279.5, 0.0);
(591233.6, 4208599.8, 67.2, 279.5, 0.0); (591234.9, 4208583.6, 66.2, 279.5, 0.0);

(591234.9, 4208568.7, 65.5, 296.6, 0.0); (591234.9, 4208554.7, 67.2, 296.6, 0.0);
(591235.3, 4208541.1, 69.5, 279.5, 0.0); (591235.3, 4208527.6, 69.9, 296.6, 0.0);
(591234.9, 4208514.4, 69.2, 296.6, 0.0); (591235.8, 4208501.3, 67.8, 296.6, 0.0);
(591235.8, 4208486.0, 65.6, 296.6, 0.0); (591238.0, 4208472.4, 63.4, 296.6, 0.0);
(591239.5, 4208452.9, 61.1, 296.6, 0.0); (591234.0, 4208435.3, 60.7, 296.6, 0.0);
(591218.2, 4208438.3, 64.4, 296.6, 0.0); (591204.3, 4208439.5, 67.6, 296.6, 0.0);
(591200.0, 4208477.1, 72.1, 296.6, 0.0); (591200.7, 4208489.8, 74.5, 279.5, 0.0);
(591198.8, 4208504.4, 77.7, 279.5, 0.0); (591200.7, 4208517.1, 77.1, 279.5, 0.0);
(591200.0, 4208530.5, 76.5, 279.5, 0.0); (591199.4, 4208542.0, 75.2, 279.5, 0.0);
(591198.5, 4208557.8, 72.4, 279.5, 0.0); (591197.9, 4208571.7, 71.0, 279.5, 0.0);
(591197.9, 4208583.7, 71.1, 279.5, 0.0); (591197.0, 4208598.3, 71.2, 279.5, 0.0);
(591198.2, 4208611.5, 70.8, 263.7, 0.0); (591197.3, 4208626.4, 70.6, 263.7, 0.0);
(591196.7, 4208639.4, 69.7, 263.7, 0.0); (591197.0, 4208654.6, 68.5, 263.7, 0.0);
(591235.6, 4208669.8, 62.7, 279.5, 0.0); (591223.9, 4208684.6, 63.3, 279.5, 0.0);
(591204.2, 4208686.9, 66.4, 263.7, 0.0); (591190.3, 4208691.3, 68.6, 263.7, 0.0);
(591178.0, 4208692.2, 70.6, 261.2, 0.0); (591180.2, 4208655.5, 71.0, 263.7, 0.0);
(591178.6, 4208641.0, 71.7, 263.7, 0.0); (591178.3, 4208628.0, 72.1, 263.7, 0.0);
(591178.3, 4208615.3, 72.6, 263.7, 0.0); (591180.2, 4208600.5, 73.1, 263.7, 0.0);
(591178.6, 4208585.6, 73.6, 263.7, 0.0); (591178.6, 4208573.9, 73.8, 279.5, 0.0);
(591180.2, 4208558.7, 74.7, 279.5, 0.0); (591179.2, 4208544.1, 77.0, 279.5, 0.0);
(591178.9, 4208531.2, 78.7, 276.4, 0.0); (591179.9, 4208518.8, 80.0, 263.7, 0.0);
(591179.2, 4208504.6, 81.4, 276.4, 0.0); (591179.9, 4208489.1, 78.6, 279.5, 0.0);
(591179.6, 4208477.4, 76.7, 279.5, 0.0); (591192.5, 4208439.1, 70.9, 296.6, 0.0);
(591178.9, 4208442.6, 74.8, 296.6, 0.0); (591164.7, 4208446.0, 77.6, 279.5, 0.0);
(591269.4, 4208360.7, 55.3, 296.6, 0.0); (591311.8, 4208351.1, 62.2, 296.6, 0.0);
(591327.8, 4208343.7, 66.3, 296.6, 0.0); (591342.3, 4208343.7, 68.4, 296.6, 0.0);
(591357.6, 4208340.3, 71.1, 296.6, 0.0); (591372.5, 4208335.9, 73.1, 296.6, 0.0);
(591387.3, 4208333.6, 74.5, 296.6, 0.0); (591414.9, 4208326.5, 77.3, 296.6, 0.0);
(591432.8, 4208325.1, 78.5, 296.6, 0.0); (591454.4, 4208322.1, 79.5, 296.6, 0.0);
(591470.0, 4208319.8, 79.7, 296.6, 0.0); (591485.3, 4208315.4, 79.6, 296.6, 0.0);
(591499.8, 4208312.0, 79.2, 296.6, 0.0); (591515.1, 4208308.7, 78.7, 296.6, 0.0);
(591529.2, 4208305.0, 78.3, 296.6, 0.0); (591544.8, 4208302.3, 77.6, 296.6, 0.0);
(591559.7, 4208298.3, 76.6, 296.6, 0.0); (591573.5, 4208296.0, 74.9, 296.6, 0.0);
(591589.5, 4208291.9, 72.2, 296.6, 0.0); (591605.9, 4208288.2, 69.0, 296.6, 0.0);
(591620.4, 4208285.2, 66.2, 296.6, 0.0); (591635.3, 4208283.4, 62.8, 296.6, 0.0);
(591651.7, 4208281.1, 58.7, 296.6, 0.0); (591673.3, 4208274.8, 54.1, 296.6, 0.0);
(591671.1, 4208249.1, 53.2, 296.6, 0.0); (591666.2, 4208232.4, 53.3, 296.6, 0.0);
(591661.4, 4208220.8, 54.2, 296.6, 0.0); (591655.8, 4208204.8, 55.2, 296.6, 0.0);
(591653.6, 4208188.4, 55.1, 296.6, 0.0); (591269.7, 4208343.7, 57.9, 296.6, 0.0);
(591268.6, 4208328.4, 60.7, 296.6, 0.0); (591271.9, 4208312.0, 65.5, 296.6, 0.0);
(591273.4, 4208296.0, 70.3, 296.6, 0.0); (591276.8, 4208281.9, 73.2, 296.6, 0.0);
(591286.1, 4208263.3, 77.9, 296.6, 0.0); (591290.5, 4208250.2, 80.3, 296.6, 0.0);

♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

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

(591318.1, 4208303.8, 74.0, 296.6, 0.0); (591324.1, 4208286.0, 78.8, 296.6, 0.0);
(591334.1, 4208263.6, 85.2, 296.6, 0.0); (591345.3, 4208275.5, 84.3, 296.6, 0.0);
(591358.7, 4208284.8, 84.0, 296.6, 0.0); (591373.6, 4208293.0, 83.5, 296.6, 0.0);
(591384.7, 4208301.6, 82.4, 296.6, 0.0); (591398.9, 4208309.8, 80.7, 296.6, 0.0);

(591357.6, 4208228.6, 95.1, 296.6, 0.0); (591370.6, 4208238.3, 95.3, 296.6, 0.0);
(591384.4, 4208246.9, 95.0, 296.6, 0.0); (591398.1, 4208255.1, 93.5, 296.6, 0.0);
(591410.8, 4208266.2, 91.0, 296.6, 0.0); (591425.7, 4208276.3, 88.3, 296.6, 0.0);
(591444.7, 4208283.7, 86.1, 296.6, 0.0); (591460.3, 4208280.8, 85.7, 296.6, 0.0);
(591476.0, 4208276.7, 85.2, 296.6, 0.0); (591491.6, 4208274.1, 83.5, 296.6, 0.0);
(591507.6, 4208269.6, 81.4, 296.6, 0.0); (591521.4, 4208266.6, 78.6, 296.6, 0.0);
(591537.0, 4208261.8, 75.2, 296.6, 0.0); (591552.3, 4208258.4, 72.6, 296.6, 0.0);
(591566.4, 4208255.4, 70.1, 296.6, 0.0); (591581.3, 4208253.6, 67.9, 296.6, 0.0);
(591596.2, 4208251.3, 65.6, 296.6, 0.0); (591610.4, 4208246.5, 63.0, 296.6, 0.0);
(591624.9, 4208244.6, 60.7, 296.6, 0.0); (591619.7, 4208221.9, 60.5, 296.6, 0.0);
(591612.2, 4208206.3, 61.7, 296.6, 0.0); (591724.3, 4208263.6, 46.7, 296.6, 0.0);
(591734.0, 4208264.4, 45.8, 296.6, 0.0); (591745.1, 4208262.1, 45.3, 296.6, 0.0);
(591757.1, 4208258.4, 46.8, 296.6, 0.0); (591767.1, 4208254.0, 48.1, 296.6, 0.0);
(591778.3, 4208251.0, 49.9, 296.6, 0.0); (591788.3, 4208249.1, 52.1, 296.6, 0.0);
(591798.4, 4208244.6, 54.5, 296.6, 0.0); (591809.2, 4208241.3, 57.3, 296.6, 0.0);
(591820.0, 4208238.7, 60.3, 296.6, 0.0); (591830.0, 4208236.8, 63.0, 296.6, 0.0);
(591840.5, 4208230.9, 66.2, 296.6, 0.0); (591850.1, 4208225.6, 69.3, 296.6, 0.0);
(591860.6, 4208221.9, 72.5, 296.6, 0.0); (591871.7, 4208220.4, 73.8, 296.6, 0.0);
(591881.0, 4208213.7, 74.7, 296.6, 0.0); (591892.2, 4208208.9, 76.0, 296.6, 0.0);
(591901.9, 4208205.2, 75.8, 296.6, 0.0); (591911.9, 4208198.8, 75.3, 296.6, 0.0);
(591918.6, 4208191.0, 75.4, 296.6, 0.0); (591929.1, 4208184.7, 75.3, 296.6, 0.0);
(591941.7, 4208176.9, 74.8, 296.6, 0.0); (591975.2, 4208160.9, 66.6, 296.6, 0.0);
(592005.0, 4208133.7, 56.8, 296.6, 0.0); (592015.4, 4208127.7, 54.8, 296.6, 0.0);
(592030.6, 4208121.9, 54.6, 296.6, 0.0); (592040.7, 4208115.8, 54.9, 296.6, 0.0);
(592056.0, 4208110.5, 53.3, 296.6, 0.0); (592066.1, 4208107.9, 52.0, 296.6, 0.0);
(592081.0, 4208102.6, 50.3, 296.6, 0.0); (592098.0, 4208100.4, 49.9, 296.6, 0.0);
(592107.7, 4208098.2, 50.2, 296.6, 0.0); (592122.1, 4208091.7, 51.3, 296.6, 0.0);
(592135.7, 4208090.3, 51.6, 296.6, 0.0); (592151.0, 4208088.6, 51.6, 296.6, 0.0);
(592162.0, 4208085.5, 51.6, 296.6, 0.0); (592176.9, 4208082.5, 52.3, 296.6, 0.0);
(592190.5, 4208081.1, 53.1, 296.6, 0.0); (592202.7, 4208078.5, 53.6, 296.6, 0.0);
(592215.9, 4208076.8, 53.8, 296.6, 0.0); (592231.2, 4208075.0, 52.9, 296.6, 0.0);
(592240.4, 4208073.3, 51.8, 296.6, 0.0); (592254.9, 4208074.1, 49.4, 296.6, 0.0);
(592272.4, 4208070.2, 48.5, 296.6, 0.0); (592283.3, 4208065.4, 48.0, 296.6, 0.0);
(592328.4, 4208060.6, 49.3, 296.6, 0.0); (592357.8, 4208053.1, 53.4, 296.6, 0.0);
(592377.9, 4208052.2, 55.7, 296.6, 0.0); (592400.3, 4208037.8, 59.1, 296.6, 0.0);
(591747.4, 4208240.6, 47.6, 296.6, 0.0); (591765.3, 4208236.5, 49.3, 296.6, 0.0);
(591786.9, 4208228.3, 53.2, 296.6, 0.0); (591805.5, 4208222.7, 57.1, 296.6, 0.0);
(591839.4, 4208210.4, 66.4, 296.6, 0.0); (591871.1, 4208197.8, 74.4, 296.6, 0.0);
(591888.6, 4208191.8, 76.4, 296.6, 0.0); (591912.0, 4208179.9, 76.6, 296.6, 0.0);
(591945.2, 4208162.0, 73.7, 296.6, 0.0); (591966.4, 4208148.6, 67.5, 296.6, 0.0);

♀ *** AERMOD - VERSION 18081 *** ***
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*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0006523	590746.9	4208726.7	-0.36

L0006526	590746.9	4208676.7	-1.40
L0006530	590746.9	4208626.7	-3.18
L0006533	590746.9	4208576.7	-2.72
L0006534	590746.9	4208576.7	-1.73
L0006537	590746.9	4208526.7	-5.77
L0006540	590746.9	4208476.7	-3.26
L0006541	590746.9	4208476.7	-0.45
L0006543	590796.9	4208476.7	-5.43
L0006544	590796.9	4208476.7	-8.20
L0006547	590846.9	4208476.7	-9.35
L0006548	590846.9	4208476.7	-1.69
L0006550	590896.9	4208476.7	-1.85
L0006551	590896.9	4208476.7	-6.41
L0006562	591046.9	4208426.7	0.24
L0006565	591096.9	4208426.7	-7.64
L0006566	591096.9	4208426.7	-4.77
L0006568	591146.9	4208426.7	0.27
L0006569	591146.9	4208426.7	-6.61
L0006580	591296.9	4208376.7	-2.70
L0006583	591346.9	4208376.7	-5.62
L0006584	591346.9	4208376.7	-8.21
L0006587	591396.9	4208376.7	-4.76
L0006598	591546.9	4208326.7	-3.79
L0006599	591546.9	4208326.7	-0.59
L0006601	591596.9	4208326.7	-2.71
L0006602	591596.9	4208326.7	-11.10
L0006605	591646.9	4208326.7	-2.12
L0006606	591646.9	4208326.7	0.82
L0006616	591796.9	4208276.7	-5.70
L0006617	591796.9	4208276.7	-7.24
L0006624	591896.9	4208226.7	-3.54
L0006625	591896.9	4208226.7	-5.51
L0006632	591996.9	4208176.7	-5.68
L0006633	591996.9	4208176.7	-8.16
L0006640	592096.9	4208126.7	-5.36
L0006641	592096.9	4208126.7	-8.12
L0006644	592146.9	4208126.7	-4.89
L0006655	592296.9	4208076.7	0.25
L0006658	592346.9	4208076.7	-1.83

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0006659	592346.9	4208076.7	-8.38
L0006662	592396.9	4208076.7	-8.07

L0006663	592396.9	4208076.7	-3.58
L0006666	592446.9	4208076.7	-0.93
L0006317	590746.9	4208676.7	-1.30
L0006320	590746.9	4208626.7	0.53
L0006321	590746.9	4208626.7	-1.36
L0006324	590746.9	4208576.7	-3.23
L0006327	590746.9	4208526.7	0.23
L0006328	590746.9	4208526.7	-4.20
L0006331	590746.9	4208476.7	-4.57
L0006334	590796.9	4208476.7	-7.41
L0006335	590796.9	4208476.7	-5.70
L0006337	590846.9	4208476.7	0.53
L0006338	590846.9	4208476.7	-10.41
L0006339	590846.9	4208476.7	0.37
L0006341	590896.9	4208476.7	-4.68
L0006342	590896.9	4208476.7	-6.46
L0006345	590946.9	4208476.7	-1.19
L0006356	591096.9	4208426.7	-8.05
L0006357	591096.9	4208426.7	-2.37
L0006359	591146.9	4208426.7	-2.26
L0006360	591146.9	4208426.7	-7.34
L0006371	591296.9	4208376.7	-1.89
L0006374	591346.9	4208376.7	-7.41
L0006375	591346.9	4208376.7	-6.18
L0006378	591396.9	4208376.7	-5.23
L0006389	591546.9	4208326.7	-4.76
L0006390	591546.9	4208326.7	0.64
L0006392	591596.9	4208326.7	-4.58
L0006393	591596.9	4208326.7	-9.06
L0006396	591646.9	4208326.7	-1.85
L0006407	591796.9	4208276.7	-7.94
L0006408	591796.9	4208276.7	-5.92
L0006415	591896.9	4208226.7	-5.58
L0006416	591896.9	4208226.7	-3.74
L0006423	591996.9	4208176.7	-7.47
L0006424	591996.9	4208176.7	-5.48
L0006431	592096.9	4208126.7	-7.61
L0006432	592096.9	4208126.7	-6.03

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0006435	592146.9	4208126.7	-3.98
L0006446	592296.9	4208076.7	-1.09
L0006449	592346.9	4208076.7	-4.21

```
                    L0006450          592346.9   4208076.7          -7.90
                    L0006453          592396.9   4208076.7          -8.04
                    L0006454          592396.9   4208076.7          -1.02
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***       12/13/18
 *** AERMET - VERSION  18081 ***   ***                                        ***       01:30:14
                                                                         PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                      *** 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

            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,
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***       12/13/18
 *** AERMET - VERSION  18081 ***   ***                                        ***       01:30:14
                                                                         PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

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

  Surface file:   ..\..\MET Data\V_Mirabella\Pittsburg_2009_2011.sfc                  Met Version:  18081
  Profile file:   ..\..\MET Data\V_Mirabella\Pittsburg_2009_2011.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:   23254            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   -1.4  0.039 -9.000 -9.000 -999.   19.      4.0  0.01   0.57   1.00    1.50   68.   10.0  278.9   10.0
 09 01 01   1 02   -1.0  0.034 -9.000 -9.000 -999.   15.      3.5  0.01   0.57   1.00    1.30   45.   10.0  278.9   10.0
 09 01 01   1 03   -2.5  0.053 -9.000 -9.000 -999.   29.      5.4  0.01   0.57   1.00    2.00   76.   10.0  278.9   10.0
 09 01 01   1 04   -2.7  0.057 -9.000 -9.000 -999.   33.      6.2  0.01   0.57   1.00    1.90   88.   10.0  279.1   10.0
 09 01 01   1 05   -3.7  0.066 -9.000 -9.000 -999.   41.      7.2  0.01   0.57   1.00    2.20   84.   10.0  279.1   10.0
 09 01 01   1 06   -1.8  0.045 -9.000 -9.000 -999.   23.      4.6  0.01   0.57   1.00    1.70   78.   10.0  279.1   10.0
```

```
09 01 01   1 07   -2.7  0.057 -9.000 -9.000 -999.   33.     6.2  0.01   0.57   1.00    1.90  100.   10.0  279.1   10.0
09 01 01   1 08   -1.3  0.039 -9.000 -9.000 -999.   19.     4.3  0.01   0.57   0.74    1.30  105.   10.0  279.1   10.0
09 01 01   1 09   -1.9  0.074 -9.000 -9.000 -999.   48.    19.8  0.01   0.57   0.37    1.70   85.   10.0  279.2   10.0
09 01 01   1 10    5.4  0.194  0.234  0.015   87.  205.  -122.5  0.01   0.57   0.25    3.10   98.   10.0  279.4   10.0
09 01 01   1 11   12.2  0.222  0.374  0.015  156.  250.   -81.6  0.01   0.57   0.20    3.50   99.   10.0  279.4   10.0
09 01 01   1 12   16.0  0.168  0.455  0.015  214.  165.   -26.9  0.01   0.57   0.19    2.90   73.   10.0  279.5   10.0
09 01 01   1 13   16.6  0.179  0.492  0.015  261.  182.   -31.5  0.01   0.57   0.18    2.70   81.   10.0  279.5   10.0
09 01 01   1 14   14.0  0.167  0.484  0.015  295.  163.   -30.1  0.01   0.57   0.19    2.90   74.   10.0  279.8   10.0
09 01 01   1 15    8.3  0.157  0.416  0.015  313.  149.   -42.0  0.01   0.57   0.23    2.40   96.   10.0  280.0   10.0
09 01 01   1 16    0.1  0.151  0.084  0.015  314.  140. -4488.9  0.01   0.57   0.31    2.50  108.   10.0  280.0   10.0
09 01 01   1 17   -4.7  0.090 -9.000 -9.000 -999.   66.    14.2  0.01   0.57   0.56    2.30  109.   10.0  280.0   10.0
09 01 01   1 18   -3.3  0.063 -9.000 -9.000 -999.   38.     6.9  0.01   0.57   1.00    2.10   94.   10.0  279.9   10.0
09 01 01   1 19   -7.6  0.133 -9.000 -9.000 -999.  116.    28.0  0.01   0.57   1.00    2.80  119.   10.0  279.9   10.0
09 01 01   1 20   -8.1  0.141 -9.000 -9.000 -999.  127.    31.4  0.01   0.57   1.00    2.90  114.   10.0  279.8   10.0
09 01 01   1 21   -1.7  0.045 -9.000 -9.000 -999.   31.     4.9  0.01   0.57   1.00    1.50  127.   10.0  279.9   10.0
09 01 01   1 22   -0.5  0.025 -9.000 -9.000 -999.   10.     3.0  0.04   0.57   1.00    0.70  144.   10.0  279.9   10.0
09 01 01   1 23   -2.7  0.057 -9.000 -9.000 -999.   33.     6.2  0.01   0.57   1.00    1.90  121.   10.0  279.9   10.0
09 01 01   1 24   -2.7  0.057 -9.000 -9.000 -999.   33.     6.2  0.01   0.57   1.00    1.90  129.   10.0  279.8   10.0


 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   68.    1.50   279.0   18.5  -99.00    0.46

 F indicates top of profile (=1) or below (=0)
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***       12/13/18
 *** AERMET - VERSION  18081 ***   ***                                                    ***       01:30:14
                                                                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                      *** THE PERIOD ( 26280 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: AREAEXH  ***
                        INCLUDING SOURCE(S):    AREAEXH     ,

                         *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

   Y-COORD  |                              X-COORD (METERS)
   (METERS) |    590596.94    590646.94    590696.94    590746.94    590796.94    590846.94    590896.94
590946.94    590996.94
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4208926.72 |     3.99744     4.29611     4.60257     4.97156     5.26155     5.50781     5.82068     6.21569
6.36332
  4208876.72 |     3.95153     4.31399     4.73593     5.12023     5.49685     5.89611     6.35567     7.08871
7.64688
  4208826.72 |     3.99978     4.36728     4.79521     5.17309     5.70454     6.27368     6.81538     7.51226
8.43626
  4208776.72 |     4.11597     4.50932     4.95428     5.35629     5.94818     6.60779     7.02363     7.87266
8.89792
  4208726.72 |     4.06892     4.14528     4.61864     5.52916     6.18956     6.86296     7.18993     8.23403
9.58397
  4208676.72 |     3.61814     3.43993     4.02672     4.96708     5.87173     6.79972     7.26605     8.50293
10.09650
```

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 4208626.72 |     2.90784     2.91714     3.38809     4.04266     5.59524     6.33971     7.32899     8.67928
10.53328
 4208576.72 |     2.47284     2.58774     2.98686     3.86905     5.52667     6.12252     7.32698     8.66771
10.58520
 4208526.72 |     2.19974     2.50727     3.16584     4.25560     5.59133     6.02242     7.10507     8.32990
9.94398
 4208476.72 |     2.09796     2.53729     3.37143     4.32960     5.15476     5.98067     6.70279     7.85822
8.78389
 4208426.72 |     1.99979     2.40334     3.04333     3.97316     4.95121     5.58177     6.24365     7.15497
7.66605
 4208376.72 |     1.85524     2.21117     2.95500     3.65264     4.40589     5.11829     5.72317     6.37903
6.50199
 4208326.72 |     1.69582     1.98163     2.57538     3.23417     3.88654     4.38992     5.10606     5.42344
5.43109
 4208276.72 |     1.55098     1.78424     2.20338     2.79931     3.34413     3.88754     4.39562     4.45482
4.40023
 4208226.72 |     1.42135     1.58432     1.84787     2.17456     2.78850     3.47811     3.56102     3.57633
3.40229
 4208176.72 |     1.30938     1.42953     1.58375     1.81710     2.49343     2.90606     2.86484     2.80773
2.64839
 4208126.72 |     1.22458     1.33714     1.60268     1.98299     2.40374     2.38321     2.29988     2.13268
2.11468
 4208076.72 |     1.18400     1.31700     1.65424     1.96125     2.13876     1.98312     1.76280     1.71394
1.80326
 4208026.72 |     1.21407     1.40554     1.60672     1.88270     1.91530     1.65158     1.44069     1.45741
1.58346
 4207976.72 |     1.23957     1.42940     1.61210     1.73220     1.68982     1.38285     1.25146     1.28116
1.37777
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***       12/13/18
 *** AERMET - VERSION  18081 ***   ***                                                    ***       01:30:14
                                                                                PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                      *** THE PERIOD ( 26280 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: AREAEXH  ***
                        INCLUDING SOURCE(S):     AREAEXH     ,

                         *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

   Y-COORD  |                                X-COORD (METERS)
   (METERS) |    591046.94    591096.94    591146.94    591196.94    591246.94    591296.94    591346.94
591396.94    591446.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 4208926.72 |      6.81107     7.65154     7.50264     7.46766     7.84586     7.49924     7.15957     7.06371
6.98544
 4208876.72 |      8.17857     9.26944     9.70615     9.90981    10.15155     9.83653     9.55464     9.32087
8.98379
 4208826.72 |      9.51187    10.53742    11.57745    12.53417    12.51209    12.08595    12.13592    12.34774
  12.49020
 4208776.72 |     10.67678    12.74594    13.62130    14.46135    15.52940    16.27233    16.85405
17.22612    17.22736
 4208726.72 |     12.10885    12.70892    12.44444    17.62093    25.45355    25.65157    27.59777
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27.85254     27.46154
  4208676.72 |      12.92503     12.22798     12.54873     19.16794     38.06689     46.96070     47.19097
48.91438     48.98484
  4208626.72 |      12.21797     10.56234     12.18494     18.23437     28.54827     56.40986     56.03329
64.20464     64.15805
  4208576.72 |      10.67164      9.04556     11.59887     17.73517     34.16815     59.75122     72.74646     74.51120
  68.20831
  4208526.72 |       9.18205      8.10240     10.18687     13.95816     26.19519     58.50491     59.91108     61.14654
  64.92926
  4208476.72 |       7.96215      7.27253      9.00518     14.01150     31.55538     43.76431     50.43095     56.62113
  61.89693
  4208426.72 |       6.94772      6.32426      7.91581     12.79456     26.85765     33.22127     42.02359     52.64807
  66.38471
  4208376.72 |       5.97519      5.92064      8.15388     12.41956     16.35013     19.62768     23.66305     24.15044
  24.45328
  4208326.72 |       5.00558      5.85778      8.16147     10.21745     11.40150     11.36667      9.38404      9.53444
10.21400
  4208276.72 |       4.33450      5.57512      6.40669      7.20407      6.76820      6.00689      5.68815      5.86444
6.39198
  4208226.72 |       3.69094      4.42445      4.17132      4.99884      4.70180      4.24813      4.12914      4.22684
4.52933
  4208176.72 |       3.16855      3.39536      3.12098      3.51551      3.35271      3.24979      3.23281      3.28212
3.49878
  4208126.72 |       2.58401      2.62185      2.39191      2.58537      2.58356      2.56163      2.62119      2.66945
2.81868
  4208076.72 |       2.10552      2.04068      1.94558      2.00811      2.07146      2.09203      2.15704      2.29091
2.46728
  4208026.72 |       1.73300      1.66928      1.63221      1.66832      1.72040      1.75980      1.85914      2.05082
2.39911
  4207976.72 |       1.47243      1.41714      1.41092      1.42234      1.46424      1.52330      1.67728      1.91125
2.39996
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***       12/13/18
 *** AERMET - VERSION  18081 ***   ***                                                    ***       01:30:14
                                                                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                     *** THE PERIOD ( 26280 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: AREAEXH  ***
                       INCLUDING SOURCE(S):     AREAEXH     ,

                        *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

   Y-COORD  |                                X-COORD (METERS)
   (METERS) |    591496.94    591546.94    591596.94    591646.94    591696.94    591746.94    591796.94
591846.94    591896.94
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4208926.72 |       6.93055      6.91492      6.94374      6.99088      7.04187      7.09242      7.12592      7.14730
7.15028
  4208876.72 |       8.89447      8.91927      8.95515      8.96929      8.98161      8.96663      8.94016      8.89195
8.81601
  4208826.72 |      12.24052     12.00355     11.95174     11.87501     11.75184     11.59264     11.42091     11.22871
  11.00585
```

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 4208776.72 |     17.36457    16.93824    16.64583    16.28283    15.85026    15.34460    14.88541
14.39620    13.87805
 4208726.72 |     27.00063    25.96475    24.72403    23.53978    22.42867    21.03064    19.86739
18.72323    17.64103
 4208676.72 |     45.53960    42.26877    39.44833    36.57669    33.42907    30.28725    27.62918
25.31522    23.32004
 4208626.72 |     62.86943    62.97588    61.69714    58.79239    52.73733    46.46031    41.36539
36.96571    33.12435
 4208576.72 |     68.97788    69.63654    70.19210    70.16339    69.12227    66.73674    62.88228
57.56030    48.82845
 4208526.72 |     68.13878    70.07860    72.56008    75.01521    74.98435    72.63196    71.33700
72.80288    81.70049
 4208476.72 |     66.36566    69.83130    78.38928    62.98964    83.54117    72.47478    72.36579
88.24016    91.97013
 4208426.72 |     74.78090    78.03924    82.96144    41.16756    84.53222    68.31623    70.10666
91.25145    67.74333
 4208376.72 |     25.70183    36.12262    41.92842    32.96281    73.45491    59.45920    63.14414
83.69434    50.25137
 4208326.72 |     11.71743    13.75733    16.75628    28.31093    39.52697    41.59676    48.84066
55.15685    35.44879
 4208276.72 |      7.31646     9.16024    12.32995    19.26431    19.46608    20.71729    26.50937    26.13672
  24.39555
 4208226.72 |      5.26224     7.20246    10.04550    12.49945    12.48221    13.28149    16.25861    12.78197
  11.67167
 4208176.72 |      3.97526     5.43238     7.48271     8.69747     8.86227     9.46765    10.53321     7.93234
6.62828
 4208126.72 |      3.09080     3.85111     5.63471     6.45994     6.53310     6.86480     7.06265     5.10041
4.53113
 4208076.72 |      2.76487     3.52814     4.54732     4.93813     5.02716     5.11248     4.23660     3.40675
3.72610
 4208026.72 |      2.92975     3.56866     3.84460     3.92876     3.95233     3.34670     2.66363     2.48991
2.79392
 4207976.72 |      2.86682     2.75141     2.88637     3.19385     2.91258     2.35856     1.94866     1.95127
2.30536
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***       12/13/18
 *** AERMET - VERSION  18081 ***   ***                                                  ***       01:30:14
                                                                                 PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                    *** THE PERIOD ( 26280 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: AREAEXH  ***
                      INCLUDING SOURCE(S):     AREAEXH     ,

                       *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

   Y-COORD  |                              X-COORD (METERS)
   (METERS) |    591946.94    591996.94    592046.94    592096.94    592146.94    592196.94    592246.94
592296.94    592346.94
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 4208926.72 |      7.12480     7.07976     7.01859     6.89807     6.80652     6.74358     6.65916     6.55513
6.42938
 4208876.72 |      8.72065     8.58756     8.41574     8.20747     8.02607     7.88646     7.73110     7.55108
```

7.34928
4208826.72 | 10.73876 10.46461 10.11258 9.80668 9.50913 9.22881 8.97731 8.70529
8.39941
4208776.72 | 13.31901 12.75896 12.17958 11.71450 11.27744 10.81628 10.43700
10.03980 9.57445
4208726.72 | 16.60684 15.75575 14.92813 14.14238 13.43054 12.72641 12.07747
11.52144 10.88896
4208676.72 | 21.46966 19.91168 18.53285 17.28218 16.16540 15.05930 13.98035
13.12348 12.28498
4208626.72 | 28.29113 25.43109 23.11931 21.07385 19.33253 17.71745 16.20599
14.85476 13.62759
4208576.72 | 39.87995 33.99041 29.90479 26.09279 23.53823 20.96088 18.46234
16.51582 14.84162
4208526.72 | 59.09001 46.82112 38.85667 32.43721 28.22349 24.39172 20.83672
17.96978 15.79436
4208476.72 | 74.27269 65.89518 65.35156 43.89104 33.25220 26.73323 22.43400
19.03234 16.44196
4208426.72 | 74.81341 81.21496 62.41181 57.44824 41.36022 28.03717 22.31465
18.60140 16.13603
4208376.72 | 73.54962 62.76774 43.85592 54.09549 33.89806 25.48538 20.58269
17.21240 15.34743
4208326.72 | 71.90142 37.06135 41.49762 37.67272 27.34457 21.62486 18.12928
15.52325 15.76313
4208276.72 | 37.04982 24.88076 38.65140 27.36814 21.09874 17.76754 15.08415
13.34814 13.84624
4208226.72 | 14.40192 16.66771 26.93203 18.51701 15.41266 13.77208 11.99287
10.92295 11.36705
4208176.72 | 7.33162 10.99397 12.54682 11.84154 10.55384 10.12925 9.12381 8.66011
9.02162
4208126.72 | 5.62163 7.86705 7.77235 7.61195 7.53896 7.50386 7.01521 6.81605
6.98158
4208076.72 | 4.80091 5.58535 5.36313 5.42870 5.61627 5.77468 5.56554 5.31831
5.50860
4208026.72 | 3.79171 4.05973 4.17320 4.18172 4.27397 4.31544 4.46415 4.32473
4.34759
4207976.72 | 3.30701 3.28707 3.27310 3.27550 3.30000 2.95279 3.17142 3.50132
3.54532
♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: AREAEXH ***
INCLUDING SOURCE(S): AREAEXH ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD | X-COORD (METERS)
(METERS) | 592396.94 592446.94 592496.94 592546.94 592596.94 592646.94 592696.94
592746.94 592796.94

4208926.72	6.28772	6.13102	5.96511	5.78860	5.60549	5.41779	5.23386	5.05966	4.88626
4208876.72	7.13242	6.90435	6.67484	6.43972	6.18237	5.90893	5.66810	5.45219	5.24454
4208826.72	8.08133	7.75238	7.43516	7.11842	6.77961	6.40045	6.08731	5.82726	5.59385
4208776.72	9.10900	8.65367	8.23479	7.80740	7.35208	6.86174	6.49512	6.16712	5.91720
4208726.72	10.23220	9.59626	9.03615	8.47364	7.88264	7.32589	6.87798	6.50858	6.22082
4208676.72	11.39411	10.55624	9.80764	9.04896	8.33108	7.73045	7.21257	6.76260	6.46557
4208626.72	12.47063	11.42458	10.49683	9.53642	8.71520	8.08827	7.45257	6.92320	6.61390
4208576.72	13.40385	12.12887	10.92679	9.82658	9.00884	8.42824	7.66822	7.08627	6.64274
4208526.72	14.05429	12.54613	11.07240	10.03850	9.24738	8.55549	7.85278	7.27722	6.75987
4208476.72	14.41604	12.88755	11.54969	10.28076	9.30731	8.51881	7.85540	7.26024	6.73745
4208426.72	14.29331	12.88339	11.22654	10.03865	9.12997	8.36218	7.67492	6.98429	6.48822
4208376.72	14.45194	13.13714	10.38607	9.33605	8.67335	8.05916	7.41033	6.74820	6.10323
4208326.72	14.31386	12.65189	9.92832	8.59659	7.94624	7.59275	7.06073	6.52009	5.86198
4208276.72	11.62797	11.10695	9.02769	7.87876	7.31624	7.12466	6.92041	6.34504	5.67281
4208226.72	9.51795	9.42341	7.91710	7.06120	6.68678	6.89205	6.42277	6.04454	5.39426
4208176.72	7.83549	7.73733	6.76750	6.28243	5.96031	5.84542	4.93765	5.22718	4.98914
4208126.72	6.80345	6.39701	5.74759	5.40815	5.16415	5.25486	4.35897	4.44828	4.52357
4208076.72	5.50773	5.32524	4.98090	4.66605	4.43105	4.51100	3.85537	3.74707	3.99245
4208026.72	4.40715	4.00607	4.25331	4.07423	3.88108	3.75308	3.44608	3.10819	3.48641
4207976.72	3.23185	2.76177	3.08438	3.48826	3.37680	3.26331	3.24022	2.71303	2.86227

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAEXH ***

INCLUDING SOURCE(S): AREAEXH ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)				
	592846.94	592896.94	592946.94	592996.94	593046.94

4208926.72	4.72391	4.56294	4.39728	4.23223	4.06649
4208876.72	5.05410	4.85900	4.66180	4.46086	4.27172
4208826.72	5.36385	5.13858	4.90311	4.68064	4.46297
4208776.72	5.65925	5.39514	5.12341	4.86961	4.63546
4208726.72	5.92889	5.61199	5.31218	5.03488	4.77820
4208676.72	6.13111	5.78543	5.45796	5.15426	4.87542
4208626.72	6.27902	5.89842	5.54140	5.23484	4.94452
4208576.72	6.34587	5.98606	5.61976	5.28827	4.99084
4208526.72	6.35635	5.98855	5.61898	5.28162	4.97624
4208476.72	6.29970	5.89575	5.52525	5.20001	4.90203
4208426.72	6.14635	5.76423	5.40426	5.08448	4.80645
4208376.72	5.92983	5.56512	5.22045	4.91394	4.66167
4208326.72	5.62337	5.33118	5.01611	4.73840	4.47515
4208276.72	5.29436	5.05368	4.77726	4.51788	4.21042
4208226.72	4.93210	4.74205	4.49301	4.27323	3.81019
4208176.72	4.55720	4.37341	4.16665	3.88342	3.47774
4208126.72	4.17694	3.98171	3.82084	3.44849	3.31161
4208076.72	3.78999	3.61792	3.47238	3.08709	3.11930
4208026.72	3.38285	3.25006	3.11695	2.79383	2.86763
4207976.72	2.97974	2.89341	2.77414	2.53453	2.58866

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAEXH ***
INCLUDING SOURCE(S): AREAEXH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591236.21	4208653.71	29.54054	591234.46	4208640.57	26.81016
591232.71	4208626.11	24.02479	591233.58	4208612.54	24.98369
591233.58	4208599.83	25.73270	591234.90	4208583.63	27.30214
591234.90	4208568.74	28.24101	591234.90	4208554.72	25.39267
591235.34	4208541.14	22.42152	591235.34	4208527.56	21.61267
591234.90	4208514.42	21.78832	591235.77	4208501.28	22.79521
591235.77	4208485.95	24.65757	591237.96	4208472.38	27.01754
591239.45	4208452.86	29.68242	591233.99	4208435.28	25.27391
591218.23	4208438.31	18.85081	591204.28	4208439.52	15.32887
591200.04	4208477.11	14.55409	591200.65	4208489.84	14.03364
591198.83	4208504.39	13.31000	591200.65	4208517.12	13.97769
591200.04	4208530.45	14.46212	591199.43	4208541.97	15.18224
591198.54	4208557.75	16.82706	591197.91	4208571.67	17.88310
591197.91	4208583.70	17.97900	591196.96	4208598.26	17.89803
591198.23	4208611.55	18.28108	591197.28	4208626.42	18.27319
591196.65	4208639.40	18.75143	591196.96	4208654.59	19.39365
591235.57	4208669.78	30.42362	591223.86	4208684.65	26.07894
591204.24	4208686.87	20.47428	591190.32	4208691.30	17.39397

591177.97	4208692.25	15.32702	591180.19	4208655.54	16.27968
591178.61	4208640.98	15.97583	591178.29	4208628.00	15.82585
591178.29	4208615.35	15.58833	591180.19	4208600.47	15.47224
591178.61	4208585.60	15.01011	591178.61	4208573.89	14.81129
591180.19	4208558.70	14.29705	591179.24	4208544.14	13.18327
591178.92	4208531.17	12.42684	591179.87	4208518.83	11.92787
591179.24	4208504.59	11.29429	591179.87	4208489.08	11.42957
591179.56	4208477.37	11.51527	591192.53	4208439.08	12.70902
591178.92	4208442.56	10.74282	591164.68	4208446.04	9.55081
591269.43	4208360.68	15.36721	591311.76	4208351.13	14.78646
591327.77	4208343.68	12.80404	591342.29	4208343.68	12.33746
591357.56	4208340.33	11.33023	591372.45	4208335.86	10.62489
591387.34	4208333.63	10.38066	591414.90	4208326.55	9.76756
591432.77	4208325.06	9.79357	591454.36	4208322.09	9.85638
591470.00	4208319.85	9.98097	591485.26	4208315.38	9.96515
591499.78	4208312.03	10.07255	591515.05	4208308.68	10.21542
591529.20	4208304.96	10.27154	591544.83	4208302.35	10.52136
591559.73	4208298.26	10.71772	591573.50	4208296.02	11.27885
591589.51	4208291.93	12.20960	591605.89	4208288.20	13.70329
591620.42	4208285.23	15.29054	591635.31	4208283.36	17.52360
591651.69	4208281.13	20.55803	591673.28	4208274.80	19.52467
591671.05	4208249.11	15.01592	591666.21	4208232.36	12.94063

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAEXH ***
INCLUDING SOURCE(S): AREAEXH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591661.37	4208220.81	11.89792	591655.79	4208204.80	10.62797
591653.55	4208188.42	9.42536	591269.69	4208343.68	13.78280
591268.57	4208328.41	12.13464	591271.93	4208312.03	9.54814
591273.41	4208296.02	7.66373	591276.77	4208281.87	6.62251
591286.07	4208263.26	5.48269	591290.54	4208250.23	4.96992
591318.09	4208303.84	7.69107	591324.05	4208285.97	6.30926
591334.10	4208263.63	5.18297	591345.27	4208275.55	5.63887
591358.68	4208284.85	6.06168	591373.57	4208293.04	6.52985
591384.74	4208301.61	7.10147	591398.89	4208309.80	7.87552
591357.56	4208228.63	4.17262	591370.59	4208238.31	4.42921
591384.37	4208246.88	4.70434	591398.14	4208255.07	5.03604
591410.80	4208266.24	5.52744	591425.69	4208276.29	6.11319
591444.68	4208283.74	6.73177	591460.32	4208280.76	6.80720
591475.96	4208276.66	6.83780	591491.59	4208274.06	7.03974
591507.60	4208269.59	7.23039	591521.38	4208266.61	7.60795
591537.02	4208261.77	8.15432	591552.28	4208258.42	8.79723
591566.43	4208255.44	9.54354	591581.32	4208253.58	10.39361
591596.21	4208251.34	11.30451	591610.36	4208246.50	12.04679

591624.88	4208244.64	13.58595	591619.67	4208221.93	11.31567
591612.22	4208206.29	9.88842	591724.29	4208263.63	17.29046
591733.97	4208264.38	17.64674	591745.14	4208262.14	17.61725
591757.06	4208258.42	17.70550	591767.11	4208253.95	17.58664
591778.28	4208250.97	17.95671	591788.33	4208249.11	18.77463
591798.38	4208244.64	19.34649	591809.18	4208241.29	20.03798
591819.98	4208238.69	19.37508	591830.03	4208236.82	16.82392
591840.46	4208230.87	14.29219	591850.14	4208225.65	12.22783
591860.56	4208221.93	10.73670	591871.73	4208220.44	10.38193
591881.04	4208213.74	9.65551	591892.21	4208208.90	9.08784
591901.89	4208205.18	8.94028	591911.94	4208198.85	8.60738
591918.64	4208191.03	8.01390	591929.07	4208184.70	7.63225
591941.73	4208176.88	7.24445	591975.23	4208160.87	8.17274
592005.02	4208133.69	8.41117	592015.44	4208127.74	7.84619
592030.57	4208121.88	7.50324	592040.65	4208115.75	7.20875
592055.98	4208110.49	6.84522	592066.05	4208107.86	6.64133
592080.95	4208102.61	6.31962	592098.03	4208100.42	6.25723
592107.67	4208098.23	6.21428	592122.12	4208091.66	6.05390
592135.70	4208090.34	6.06144	592151.03	4208088.59	6.02146
592161.98	4208085.52	5.92120	592176.88	4208082.46	5.87295
592190.46	4208081.14	5.87954	592202.72	4208078.51	5.81778
592215.86	4208076.76	5.76813	592231.19	4208075.01	5.66459

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAEXH ***
INCLUDING SOURCE(S): AREAEXH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
592240.39	4208073.26	5.54815	592254.85	4208074.13	5.44171
592272.37	4208070.19	5.26758	592283.32	4208065.37	5.11157
592328.44	4208060.56	5.00535	592357.79	4208053.11	4.96281
592377.94	4208052.23	4.97490	592400.28	4208037.78	4.62460
591747.43	4208240.58	14.70796	591765.30	4208236.48	15.02005
591786.90	4208228.29	15.54551	591805.52	4208222.70	16.32458
591839.41	4208210.41	11.60437	591871.06	4208197.75	8.27826
591888.56	4208191.79	7.64104	591912.02	4208179.88	6.99813
591945.17	4208162.00	6.55061	591966.39	4208148.60	7.12030

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	590596.94	590646.94	590696.94	590746.94	590796.94	590846.94	590896.94	590946.94	590996.94
4208926.72	4.09396	4.40431	4.71710	5.09411	5.38112	5.62694	5.94174	6.33333	6.47576
4208876.72	4.00687	4.39065	4.83610	5.23346	5.61950	6.03123	6.50793	7.25897	7.82216
4208826.72	4.03227	4.41828	4.86829	5.26168	5.81490	6.40517	6.97186	7.70485	8.66843
4208776.72	4.15508	4.60079	5.09336	5.43602	6.05383	6.73821	7.17646	8.06838	9.15534
4208726.72	4.15370	4.46251	4.97427	5.64704	6.35285	7.00941	7.35465	8.44857	9.86969
4208676.72	3.93536	3.87134	4.51776	5.43619	6.28899	6.93287	7.43729	8.73772	10.41846
4208626.72	3.27659	3.28085	3.84306	4.60973	6.09719	6.44984	7.48441	8.90464	10.87019
4208576.72	2.76206	2.87766	3.36188	4.42393	5.96943	6.22846	7.46642	8.86998	10.93634
4208526.72	2.41886	2.79116	3.60472	4.78997	5.80715	6.13074	7.24729	8.52271	10.46281
4208476.72	2.29336	2.83767	3.82003	4.75622	5.47493	6.10614	6.84059	8.05994	9.55853
4208426.72	2.17613	2.67330	3.43942	4.38637	5.11990	5.67956	6.35242	7.39188	8.45960
4208376.72	2.00565	2.44073	3.32027	4.03091	4.68611	5.24149	5.83278	6.59672	7.25431
4208326.72	1.82031	2.16202	2.88277	3.59059	4.19900	4.68877	5.22877	5.76914	6.09124
4208276.72	1.65503	1.92739	2.43876	3.11991	3.67044	4.17149	4.62117	4.88006	4.96803
4208226.72	1.50841	1.69419	2.00706	2.40257	3.09916	3.72344	3.89267	3.98701	3.83847
4208176.72	1.38473	1.52012	1.69638	1.97229	2.76215	3.17418	3.17997	3.13615	2.93581
4208126.72	1.29337	1.41986	1.73339	2.18599	2.62534	2.62960	2.54544	2.33213	2.29504
4208076.72	1.25269	1.40394	1.80817	2.14736	2.33196	2.18065	1.90623	1.83651	1.93701
4208026.72	1.29565	1.52327	1.75403	2.03791	2.08291	1.79663	1.53147	1.54573	1.69139
4207976.72	1.33631	1.55356	1.74493	1.86451	1.83655	1.48316	1.31998	1.35097	1.46142

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAFUG ***

INCLUDING SOURCE(S): AREAFUG ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	591046.94	591096.94	591146.94	591196.94	591246.94	591296.94	591346.94	591396.94	591446.94
4208926.72	6.90457	7.70875	7.52797	7.46221	7.80210	7.45665	7.11318	7.00214	6.89642
4208876.72	8.34815	9.44112	9.83101	9.97702	10.16757	9.81936	9.51165	9.24958	8.88681
4208826.72	9.77677	10.81939	11.85393	12.77840	12.67103	12.22305	12.22209	12.36265	12.45005
4208776.72	11.01105	13.22095	14.13928	15.06367	16.13076	16.87014	17.42151	17.78465	17.78795
4208726.72	12.54435	14.89912	15.44814	22.03902	28.65895	30.04058	32.62992	32.20557	30.88798
4208676.72	13.76737	14.93250	15.94310	25.46343	65.17051	87.47832	92.66467	93.45900	86.14614
4208626.72	13.83564	13.08198	15.58060	24.73504	48.34634	98.30036	104.11990	112.89408	114.10182
4208576.72	12.67022	11.11886	14.81483	24.10314	54.99513	113.35536	132.04023	121.39118	118.86810
4208526.72	11.01750	9.86808	12.91085	19.06730	44.33307	114.63080	107.31368	111.53669	116.28981
4208476.72	9.54238	8.76663	11.26634	18.87217	51.64505	86.65357	98.64368	106.51395	112.53859
4208426.72	8.25327	7.51542	9.71233	16.50435	38.50981	70.87010	85.54352	97.71298	111.15532
4208376.72	6.99754	6.96720	9.77994	14.33152	17.33252	21.55491	29.69236	35.52120	42.05514
4208326.72	5.78719	6.81260	9.08812	10.48265	12.17390	13.44495	11.59503	11.88766	12.88861
4208276.72	4.95341	6.25971	7.11393	7.98503	7.89684	7.07340	6.66244	6.89009	7.56353
4208226.72	4.17609	4.97566	4.75266	5.70821	5.41932	4.83693	4.68255	4.81319	5.18592
4208176.72	3.55358	3.81694	3.48153	3.97197	3.75480	3.61684	3.59402	3.66283	3.92768
4208126.72	2.86715	2.90481	2.60392	2.83943	2.83170	2.80259	2.87400	2.93702	3.12111
4208076.72	2.30306	2.21152	2.08861	2.16117	2.23660	2.26062	2.33844	2.50138	2.72178
4208026.72	1.86723	1.78268	1.73503	1.77608	1.83804	1.88482	2.00399	2.23685	2.67588
4207976.72	1.57025	1.49968	1.49043	1.50297	1.55259	1.62196	1.80809	2.09413	2.67807

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	591496.94	591546.94	591596.94	591646.94	591696.94	591746.94	591796.94	591846.94	591896.94
4208926.72	6.80493	6.75064	6.74429	6.76816	6.81278	6.87224	6.92363	6.96471	6.98990
4208876.72	8.76451	8.76334	8.78330	8.78997	8.80376	8.80496	8.80499	8.78490	8.73577
4208826.72	12.19869	11.97491	11.93062	11.86166	11.74341	11.59301	11.43948	11.27156	11.07097
4208776.72	17.87697	17.42595	17.09228	16.69602	16.23229	15.69570	15.20877	14.71020	14.19340
4208726.72	29.68407	28.12327	26.49339	25.00992	23.66419	22.10269	20.79056	19.54141	18.39402
4208676.72	65.72074	53.38988	46.62003	41.53437	37.07169	33.08413	29.84918	27.13526	24.85390
4208626.72	113.34697	112.82517	109.54133	100.02525	73.89863	57.13851	47.98045	41.44606	36.37578
4208576.72	120.46770	121.54936	122.10838	121.88755	120.25625	116.52083	108.56465	86.44651	59.87153
4208526.72	120.01202	122.32941	124.79487	127.08692	127.06178	124.84357	123.18951	123.26300	126.25982
4208476.72	117.39862	121.15159	128.66859	114.69670	133.69830	124.88476	124.69149	136.66056	149.61966
4208426.72	144.02018	133.60365	148.78264	87.35144	131.66972	120.00109	121.78575	155.01091	120.32445
4208376.72	55.17205	72.56407	82.25673	74.05473	123.01421	109.08509	113.15226	143.53228	97.92115
4208326.72	15.07464	18.18076	23.08634	41.35441	60.70484	79.63999	92.72702	100.43296	77.91124
4208276.72	8.75146	11.15693	15.17612	20.90035	20.43928	22.73955	30.33097	41.49263	56.32660
4208226.72	6.09405	8.55052	11.51464	12.48103	12.52816	13.45457	16.44896	16.13855	15.75276
4208176.72	4.51004	6.33492	8.25719	8.60816	8.74887	9.33805	10.63903	9.43433	7.94364
4208126.72	3.45236	4.40638	6.16521	6.38543	6.41322	6.72033	7.21441	5.88736	5.20019
4208076.72	3.09392	4.02235	4.85179	4.95687	4.93501	5.15934	4.76851	3.84551	4.22456
4208026.72	3.30560	3.83392	3.92198	3.93773	3.96998	3.71393	2.97902	2.76275	3.13254
4207976.72	3.09896	3.03341	3.13790	3.23792	3.14813	2.63645	2.13681	2.14053	2.56890

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	591946.94	591996.94	592046.94	592096.94	592146.94	592196.94	592246.94	592296.94	592346.94
4208926.72	6.99018	6.97245	6.93229	6.83181	6.76584	6.72678	6.66158	6.57478	6.46730
4208876.72	8.66782	8.56344	8.41512	8.22635	8.07056	7.95214	7.81240	7.64751	7.46296
4208826.72	10.82743	10.57572	10.24471	9.94998	9.67196	9.40665	9.16302	8.90067	8.60973
4208776.72	13.63986	13.08637	12.51151	12.03895	11.60409	11.14312	10.75807	10.36155	9.90785
4208726.72	17.31350	16.41475	15.54536	14.71806	13.97813	13.24686	12.57569	12.00608	11.37466
4208676.72	22.80789	21.08777	19.57285	18.20684	17.00366	15.82861	14.70528	13.81608	12.95524
4208626.72	30.89637	27.51891	24.83354	22.51859	20.58029	18.82309	17.22090	15.80331	14.51389
4208576.72	45.86219	37.92261	32.76962	28.35212	25.36168	22.52121	19.85719	17.76213	15.95307
4208526.72	92.05948	57.73999	44.72413	36.33369	31.03511	26.59133	22.65398	19.49851	17.08684
4208476.72	123.45123	112.49805	94.27591	52.43874	37.66057	29.65408	24.57917	20.70769	17.79104
4208426.72	124.46056	130.59790	106.84450	76.90171	46.13961	31.08072	24.45902	20.21341	17.38455
4208376.72	121.31506	111.41026	84.49177	68.20558	38.24570	28.00553	22.29551	18.48507	16.30176
4208326.72	134.79150	78.84467	74.67784	44.67195	30.28207	23.29454	19.19267	16.27382	16.27618
4208276.72	74.98660	60.97137	63.49652	31.08166	22.59414	18.49390	15.51776	13.60752	14.22975
4208226.72	25.80991	42.10538	32.28627	19.63025	15.68972	13.74061	11.92012	10.81137	11.38310
4208176.72	8.96960	13.44778	12.65158	11.54244	10.19605	9.69432	8.76138	8.31614	8.65066
4208126.72	6.48772	7.82695	7.37222	7.16396	7.05379	6.97767	6.54300	6.37118	6.52779
4208076.72	5.32451	5.37546	5.06850	5.04735	5.18085	5.30973	5.11066	4.89673	5.06717
4208026.72	4.07115	3.88112	3.94918	3.89697	3.93396	4.05125	4.11573	3.95018	

3.97311
4207976.72 | 3.22036 3.19873 3.17572 3.14966 3.12695 3.04997 3.17537 3.18542
3.23116
♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	592396.94	592446.94	592496.94	592546.94	592596.94	592646.94	592696.94	592746.94	592796.94
4208926.72	6.34571	6.21213	6.07071	5.91663	5.75195	5.57887	5.40612	5.23978	5.07145
4208876.72	7.26672	7.06222	6.85476	6.63747	6.39415	6.13118	5.89622	5.68237	5.47399
4208826.72	8.31153	8.00326	7.70196	7.39596	7.06410	6.68894	6.37430	6.10867	5.86723
4208776.72	9.45782	9.01445	8.60064	8.17378	7.71556	7.21959	6.84119	6.49886	6.23236
4208726.72	10.72100	10.08228	9.51166	8.93489	8.32736	7.75105	7.27983	6.88552	6.57253
4208676.72	12.04329	11.17864	10.39776	9.60588	8.85352	8.21638	7.66210	7.17701	6.84560
4208626.72	13.29482	12.18561	11.19493	10.17759	9.30105	8.61979	7.93634	7.36262	7.01086
4208576.72	14.39215	13.00742	11.71043	10.52751	9.63238	8.98117	8.16510	7.53219	7.04299
4208526.72	15.15412	13.49114	11.89697	10.75499	9.87118	9.10274	8.33753	7.70842	7.14563
4208476.72	15.52498	13.81042	12.33128	10.95397	9.89040	9.02755	8.30291	7.65726	7.09223
4208426.72	15.28677	13.69288	11.91273	10.62402	9.63361	8.80069	8.06116	7.32848	6.79616
4208376.72	15.18718	13.76082	10.92890	9.80041	9.06881	8.40366	7.71597	7.02259	6.35276
4208326.72	14.90103	13.09749	10.25928	8.90668	8.21696	7.82755	7.27312	6.71385	6.04117
4208276.72	12.54906	11.33498	9.13828	8.00975	7.44104	7.23739	7.03909	6.45662	5.77646
4208226.72	10.21048	9.32071	7.83542	7.02259	6.66252	6.90152	6.53289	6.08943	5.42299
4208176.72	8.19145	7.46145	6.55097	6.10620	5.81368	5.98600	5.31296	5.35997	4.94432
4208126.72	6.51277	6.03875	5.44934	5.14960	4.93712	5.09128	4.60640	4.58526	4.41542

 4208076.72 | 5.10625 4.95797 4.63419 4.36120 4.16045 4.26156 3.98961 3.86785
3.85017
 4208026.72 | 4.10330 4.01059 3.94008 3.75534 3.58859 3.48359 3.47813 3.22155
3.32099
 4207976.72 | 3.28013 2.90263 3.14902 3.21115 3.09506 2.99654 3.01131 2.77629
2.85205

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

 Y-COORD | X-COORD (METERS)
 (METERS) | 592846.94 592896.94 592946.94 592996.94 593046.94
- -

 4208926.72 | 4.91147 4.75079 4.58380 4.41604 4.24652
 4208876.72 | 5.28042 5.08073 4.87775 4.67013 4.47357
 4208826.72 | 5.62794 5.39254 5.14646 4.91295 4.68406
 4208776.72 | 5.95814 5.67803 5.39055 5.12124 4.87201
 4208726.72 | 6.25722 5.91839 5.59771 5.30067 5.02543
 4208676.72 | 6.48095 6.10777 5.75501 5.42812 5.12810
 4208626.72 | 6.64005 6.22782 5.84246 5.51069 5.19780
 4208576.72 | 6.70637 6.31311 5.91743 5.56010 5.23999
 4208526.72 | 6.70327 6.30261 5.90448 5.54227 5.21518
 4208476.72 | 6.61893 6.18480 5.78835 5.44081 5.12338
 4208426.72 | 6.42403 6.01675 5.63514 5.29673 5.00270
 4208376.72 | 6.15438 5.77075 5.40971 5.08906 4.82497
 4208326.72 | 5.78689 5.48303 5.15760 4.87098 4.59967
 4208276.72 | 5.39345 5.14880 4.86846 4.60523 4.29276
 4208226.72 | 4.96592 4.78026 4.53389 4.31599 3.85227
 4208176.72 | 4.52598 4.35487 4.15798 3.88122 3.48425
 4208126.72 | 4.08456 3.90872 3.76412 3.40761 3.27997
 4208076.72 | 3.64794 3.49754 3.37175 3.01162 3.05118
 4208026.72 | 3.20770 3.09434 2.98053 2.68625 2.76687
 4207976.72 | 2.79598 2.71562 2.61282 2.40047 2.46178

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591236.21	4208653.71	44.93764	591234.46	4208640.57	40.42225
591232.71	4208626.11	36.44367	591233.58	4208612.54	37.83457
591233.58	4208599.83	38.71366	591234.90	4208583.63	40.97945
591234.90	4208568.74	42.12677	591234.90	4208554.72	38.36545
591235.34	4208541.14	34.66087	591235.34	4208527.56	33.50520
591234.90	4208514.42	33.43661	591235.77	4208501.28	34.74490
591235.77	4208485.95	36.97006	591237.96	4208472.38	40.84009
591239.45	4208452.86	42.39109	591233.99	4208435.28	34.03944
591218.23	4208438.31	25.54186	591204.28	4208439.52	20.16624
591200.04	4208477.11	19.71735	591200.65	4208489.84	19.18700
591198.83	4208504.39	18.22829	591200.65	4208517.12	19.24649
591200.04	4208530.45	19.89210	591199.43	4208541.97	20.83817
591198.54	4208557.75	22.98695	591197.91	4208571.67	24.33388
591197.91	4208583.70	24.47345	591196.96	4208598.26	24.33246
591198.23	4208611.55	24.88484	591197.28	4208626.42	24.80309
591196.65	4208639.40	25.31465	591196.96	4208654.59	26.01869
591235.57	4208669.78	45.75602	591223.86	4208684.65	36.32162
591204.24	4208686.87	27.24714	591190.32	4208691.30	22.74493
591177.97	4208692.25	19.85428	591180.19	4208655.54	21.44825
591178.61	4208640.98	21.08607	591178.29	4208628.00	20.91886
591178.29	4208615.35	20.63031	591180.19	4208600.47	20.54081
591178.61	4208585.60	19.88556	591178.61	4208573.89	19.61615
591180.19	4208558.70	18.96789	591179.24	4208544.14	17.45522
591178.92	4208531.17	16.42301	591179.87	4208518.83	15.75975
591179.24	4208504.59	14.86793	591179.87	4208489.08	15.01786
591179.56	4208477.37	15.06558	591192.53	4208439.08	16.51873
591178.92	4208442.56	13.77725	591164.68	4208446.04	12.06099
591269.43	4208360.68	16.14606	591311.76	4208351.13	17.78261
591327.77	4208343.68	15.85952	591342.29	4208343.68	15.45617
591357.56	4208340.33	14.26778	591372.45	4208335.86	13.36342
591387.34	4208333.63	13.06016	591414.90	4208326.55	12.22519
591432.77	4208325.06	12.27331	591454.36	4208322.09	12.35643
591470.00	4208319.85	12.52126	591485.26	4208315.38	12.46667
591499.78	4208312.03	12.59127	591515.05	4208308.68	12.76500
591529.20	4208304.96	12.81768	591544.83	4208302.35	13.14473
591559.73	4208298.26	13.37936	591573.50	4208296.02	14.11250
591589.51	4208291.93	15.29643	591605.89	4208288.20	17.12680
591620.42	4208285.23	18.99306	591635.31	4208283.36	21.17925
591651.69	4208281.13	22.15031	591673.28	4208274.80	20.04639
591671.05	4208249.11	15.13379	591666.21	4208232.36	12.94200

♀ *** AERMOD - VERSION 18081 *** ***
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*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591661.37	4208220.81	11.84831	591655.79	4208204.80	10.55067
591653.55	4208188.42	9.33253	591269.69	4208343.68	14.59570
591268.57	4208328.41	13.07726	591271.93	4208312.03	11.16303
591273.41	4208296.02	9.08516	591276.77	4208281.87	7.82869
591286.07	4208263.26	6.40190	591290.54	4208250.23	5.74791
591318.09	4208303.84	9.26772	591324.05	4208285.97	7.47366
591334.10	4208263.63	6.00872	591345.27	4208275.55	6.59824
591358.68	4208284.85	7.15109	591373.57	4208293.04	7.76851
591384.74	4208301.61	8.53197	591398.89	4208309.80	9.57846
591357.56	4208228.63	4.73885	591370.59	4208238.31	5.06089
591384.37	4208246.88	5.40769	591398.14	4208255.07	5.82614
591410.80	4208266.24	6.45156	591425.69	4208276.29	7.20675
591444.68	4208283.74	8.01317	591460.32	4208280.76	8.10403
591475.96	4208276.66	8.13477	591491.59	4208274.06	8.38850
591507.60	4208269.59	8.62574	591521.38	4208266.61	9.11267
591537.02	4208261.77	9.81109	591552.28	4208258.42	10.62103
591566.43	4208255.44	11.51561	591581.32	4208253.58	12.48877
591596.21	4208251.34	13.43842	591610.36	4208246.50	13.91177
591624.88	4208244.64	14.41203	591619.67	4208221.93	11.85802
591612.22	4208206.29	10.33719	591724.29	4208263.63	18.15570
591733.97	4208264.38	18.66383	591745.14	4208262.14	18.68168
591757.06	4208258.42	18.71223	591767.11	4208253.95	18.48746
591778.28	4208250.97	18.80012	591788.33	4208249.11	19.55402
591798.38	4208244.64	19.96480	591809.18	4208241.29	20.99529
591819.98	4208238.69	21.68340	591830.03	4208236.82	20.97354
591840.46	4208230.87	18.08670	591850.14	4208225.65	15.44908
591860.56	4208221.93	13.59871	591871.73	4208220.44	13.24211
591881.04	4208213.74	12.23808	591892.21	4208208.90	11.51762
591901.89	4208205.18	11.33430	591911.94	4208198.85	10.84166
591918.64	4208191.03	9.96111	591929.07	4208184.70	9.41826
591941.73	4208176.88	8.84533	591975.23	4208160.87	9.69264
592005.02	4208133.69	8.16410	592015.44	4208127.74	7.54464
592030.57	4208121.88	7.15715	592040.65	4208115.75	6.83941
592055.98	4208110.49	6.45233	592066.05	4208107.86	6.24166
592080.95	4208102.61	5.91826	592098.03	4208100.42	5.83812
592107.67	4208098.23	5.78537	592122.12	4208091.66	5.61430
592135.70	4208090.34	5.61186	592151.03	4208088.59	5.56700
592161.98	4208085.52	5.46712	592176.88	4208082.46	5.41233
592190.46	4208081.14	5.41127	592202.72	4208078.51	5.34827
592215.86	4208076.76	5.29766	592231.19	4208075.01	5.19775

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: AREAFUG ***
INCLUDING SOURCE(S): AREAFUG ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
592240.39	4208073.26	5.08960	592254.85	4208074.13	4.99700
592272.37	4208070.19	4.83711	592283.32	4208065.37	4.69237
592328.44	4208060.56	4.59167	592357.79	4208053.11	4.54948
592377.94	4208052.23	4.57081	592400.28	4208037.78	4.29984
591747.43	4208240.58	15.12156	591765.30	4208236.48	15.39540
591786.90	4208228.29	15.75009	591805.52	4208222.70	16.65224
591839.41	4208210.41	14.22118	591871.06	4208197.75	10.12183
591888.56	4208191.79	9.33309	591912.02	4208179.88	8.47730
591945.17	4208162.00	7.79856	591966.39	4208148.60	8.32720

♀ *** AERMOD - VERSION 18081 *** ***
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*** AERMET - VERSION 18081 *** *** *** 01:30:14
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS) |	X-COORD (METERS) 590596.94	590646.94	590696.94	590746.94	590796.94	590846.94	590896.94	590946.94	590996.94
4208926.72 |	1.84688	2.01111	2.20251	2.40301	2.48987	2.40184	2.35128	2.29725	2.13612
4208876.72 |	2.20183	2.64280	3.25763	4.00445	4.35092	3.98757	3.46275	3.21132	2.88783
4208826.72 |	2.65812	3.44367	5.08627	9.77283	12.39831	7.16051	4.89222	3.95995	3.49063
4208776.72 |	3.09533	3.99622	5.54313	13.56321	14.78148	8.69688	5.69366	4.56844	3.92728
4208726.72 |	3.38245	4.21432	6.00930	11.92009	14.22744	8.98638	6.19669	5.08217	4.44422
4208676.72 |	3.57148	4.37262	6.66528	10.73347	13.62663	9.01690	6.61087	5.59081	4.98835
4208626.72 |	3.40245	4.05562	6.70244	13.05618	13.86404	9.14062	7.21721	6.30681	5.83553
4208576.72 |	2.81401	3.54385	5.46664	10.73222	14.60312	9.93783	8.44954	7.73935	7.38464
4208526.72 |	2.37218	3.37262	6.30238	15.04825	16.51683	12.68746	12.03551	11.43239	

10.78749
4208476.72 | 2.09947 3.12970 6.16533 12.22906 18.39869 19.85071 20.19667 24.07678
20.65699
4208426.72 | 1.78019 2.50049 3.91663 7.08084 9.41593 11.48481 13.14399 15.15943
16.75235
4208376.72 | 1.44655 1.94643 3.02606 4.22081 5.22503 5.99346 6.80029 7.41505
7.74696
4208326.72 | 1.16840 1.51288 2.22459 2.96968 3.60725 3.97681 4.47668 4.77640
4.90815
4208276.72 | 0.96892 1.21151 1.67081 2.24129 2.68219 3.05233 3.35375 3.41870
3.46861
4208226.72 | 0.82492 0.96483 1.22921 1.54982 2.04947 2.48912 2.54308 2.57629
2.52089
4208176.72 | 0.71983 0.80895 0.93157 1.15152 1.72303 1.99332 1.97814 1.96353
1.84066
4208126.72 | 0.64823 0.72738 0.96792 1.29719 1.58865 1.59000 1.54368 1.38376
1.31645
4208076.72 | 0.61719 0.72204 1.02327 1.25693 1.38130 1.28616 1.07263 0.98746
1.05881
4208026.72 | 0.66044 0.82610 0.98515 1.18573 1.22064 1.02748 0.79492 0.79685
0.91024
4207976.72 | 0.70133 0.85074 0.99179 1.08196 1.06866 0.80728 0.67175 0.69205
0.77278

♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD | X-COORD (METERS)
(METERS) | 591046.94 591096.94 591146.94 591196.94 591246.94 591296.94 591346.94 591396.94 591446.94

4208926.72 | 2.09382 2.16213 2.00535 1.90834 1.91297 1.79656 1.69877 1.65129 1.60975
4208876.72 | 2.65135 2.61790 2.47840 2.33702 2.25582 2.12216 2.01595 1.92757 1.82781
4208826.72 | 3.18637 2.95365 2.79660 2.70922 2.52049 2.34818 2.25562 2.19105 2.12535
4208776.72 | 3.66228 3.46405 3.13261 2.90363 2.77795 2.67039 2.57036 2.46388

2.34814
4208726.72 | 4.20700 3.90811 3.56951 3.54421 3.40316 3.10795 2.96449 2.80990
2.69477
4208676.72 | 4.80454 4.37610 4.01401 4.05367 3.97024 3.73253 3.40472 3.19992
3.11518
4208626.72 | 5.57823 4.90644 4.61353 4.70485 4.66098 4.43713 4.09031 4.00295
3.76965
4208576.72 | 6.72173 5.64404 5.60130 5.77253 5.73576 5.43460 5.24319 4.90912
4.51594
4208526.72 | 8.82291 7.33717 7.23424 7.12475 7.21242 6.91027 6.35594 5.75368
5.41228
4208476.72 | 14.57029 12.19234 11.53322 10.78152 10.38786 9.27516 8.21656 7.63378
7.20722
4208426.72 | 16.80808 17.51805 18.35806 20.63382 19.22085 15.45565 13.65981
12.52166 11.35412
4208376.72 | 8.07065 9.25791 11.70508 14.99760 19.02783 21.39629 20.78145 23.06610
21.95444
4208326.72 | 4.93145 5.64329 6.87743 7.85753 8.70425 9.34438 9.03520 10.26841
12.73878
4208276.72 | 3.56687 4.24971 4.68735 5.11382 5.08566 4.85300 4.44942 4.38290
4.91153
4208226.72 | 2.74902 3.18179 3.11977 3.55796 3.46961 3.04970 2.66714 2.62120
2.88976
4208176.72 | 2.23625 2.40164 2.21042 2.50058 2.30541 2.05258 1.91358 1.89479
2.09589
4208126.72 | 1.76966 1.79498 1.46853 1.64748 1.56724 1.47191 1.49586 1.51578
1.66171
4208076.72 | 1.37939 1.26209 1.08819 1.11699 1.15576 1.15607 1.20920 1.34503
1.56007
4208026.72 | 1.05760 0.94799 0.88137 0.89744 0.93468 0.96616 1.06357 1.29385
1.73657
4207976.72 | 0.85760 0.77940 0.76014 0.76197 0.79461 0.84838 1.01633 1.32027
1.79791

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)						
	591496.94	591546.94	591596.94	591646.94	591696.94	591746.94	591796.94

591846.94 591896.94

4208926.72 | 1.57222 1.54074 1.51697 1.49669 1.47748 1.45906 1.43914 1.41970 1.39996
4208876.72 | 1.76517 1.72456 1.69195 1.66227 1.63806 1.61342 1.59041 1.56729 1.54321
4208826.72 | 2.02620 1.93753 1.88955 1.85281 1.82073 1.79101 1.76418 1.73739 1.70876
4208776.72 | 2.28240 2.18263 2.12507 2.07941 2.03926 1.99802 1.96819 1.93462 1.89620
4208726.72 | 2.62682 2.54052 2.45535 2.38987 2.34123 2.26304 2.21157 2.15629 2.09901
4208676.72 | 3.00200 2.92532 2.87426 2.81050 2.72085 2.61492 2.53082 2.45934 2.39639
4208626.72 | 3.49411 3.38261 3.28781 3.20850 3.11318 3.03201 2.97603 2.91488 2.84624
4208576.72 | 4.25170 4.02674 3.86460 3.73963 3.62378 3.50914 3.42509 3.41575 3.31350
4208526.72 | 5.15436 4.88604 4.74627 4.63201 4.43821 4.15053 3.99570 4.02528 3.96098
4208476.72 | 6.83475 6.47632 6.30683 6.23386 5.64380 5.07304 4.84000 4.89646 4.69463
4208426.72 | 10.50049 9.48397 8.76513 8.21127 7.37005 6.55363 6.28180 6.03587 5.63936
4208376.72 | 18.90166 15.83760 13.79377 12.18397 10.62833 9.41706 8.85786 7.78322 7.00930
4208326.72 | 20.40023 21.07216 21.08282 18.06845 20.48293 17.07370 15.12006 10.90395 9.47017
4208276.72 | 6.41741 10.11658 11.28073 13.16645 16.82915 20.23265 19.40921 20.48008 15.69402
4208226.72 | 3.93743 6.05420 6.66996 7.42967 8.44978 9.84852 11.28576 13.91202 17.59932
4208176.72 | 2.73967 4.29221 4.82541 5.25882 5.72557 6.30460 7.03996 7.99444 9.33720
4208126.72 | 2.01134 3.06734 3.77653 4.09112 4.38508 4.75525 5.11547 5.36835 5.43794
4208076.72 | 1.98329 2.72165 3.11745 3.33312 3.56152 3.74723 3.77203 3.58818 4.26438
4208026.72 | 2.20916 2.50158 2.64771 2.80775 2.94204 2.87819 2.60398 2.46559 3.08845
4207976.72 | 2.05361 2.07387 2.19964 2.38846 2.39355 2.19620 1.78892 1.86519 2.48716

♀ *** AERMOD - VERSION 18081 *** ***
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*** AERMET - VERSION 18081 *** *** *** 01:30:14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 ,

L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . .
,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	591946.94	591996.94	592046.94	592096.94	592146.94	592196.94	592246.94	592296.94	592346.94
4208926.72	1.37793	1.35570	1.33452	1.30417	1.28409	1.27442	1.26296	1.24995	1.23460
4208876.72	1.51964	1.49291	1.46275	1.42868	1.40379	1.39185	1.37938	1.36408	1.34628
4208826.72	1.67581	1.64464	1.60157	1.57054	1.54383	1.52318	1.51100	1.49606	1.47544
4208776.72	1.85057	1.80354	1.75145	1.72321	1.70135	1.67441	1.66471	1.65091	1.62345
4208726.72	2.03686	1.99708	1.95541	1.91732	1.88904	1.85778	1.83367	1.82462	1.79831
4208676.72	2.32197	2.26273	2.21247	2.16846	2.13310	2.08786	2.03668	2.01882	1.99754
4208626.72	2.64690	2.56275	2.50396	2.44450	2.39770	2.34557	2.29123	2.24810	2.21170
4208576.72	3.12625	3.00319	2.92992	2.80646	2.76134	2.67745	2.56608	2.50214	2.45180
4208526.72	3.70494	3.51084	3.39495	3.22634	3.15395	3.05579	2.92254	2.80335	2.73154
4208476.72	4.47117	4.26790	4.12358	3.91254	3.63975	3.43323	3.31172	3.18825	3.09537
4208426.72	5.41794	5.12897	4.78832	4.57800	4.37589	3.97892	3.70163	3.52666	3.46253
4208376.72	6.82656	6.14286	5.59623	5.36306	4.91208	4.43850	4.14816	3.94259	3.97557
4208326.72	8.86355	7.56022	6.81233	6.36302	5.58579	5.08318	4.85067	4.65299	4.95978
4208276.72	12.34414	10.15975	8.65878	7.74152	6.76073	6.29439	5.83347	5.63568	5.67338
4208226.72	21.03237	14.89500	12.22832	10.23542	8.84324	8.24104	7.42133	7.10638	6.93128
4208176.72	15.11412	15.58957	20.03609	16.03532	12.80451	12.08181	10.35086	9.88403	9.66598
4208126.72	7.52460	11.51353	18.93049	19.32708	23.14348	23.99463	19.34383	17.81381	15.93282
4208076.72	5.26581	6.94154	8.92766	11.23713	13.93403	15.97960	21.10576	21.02154	20.61350
4208026.72	4.00020	5.07113	5.54327	6.26156	6.88222	6.04072	7.39847	10.32377	11.31792
4207976.72	3.44895	3.63063	3.79374	3.93433	4.09936	3.90212	4.53284	6.08890	6.63387

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	592396.94	592446.94	592496.94	592546.94	592596.94	592646.94	592696.94	592746.94	592796.94
4208926.72	1.21802	1.20030	1.18292	1.16562	1.14904	1.13284	1.11816	1.10574	1.09290
4208876.72	1.32717	1.30740	1.28910	1.27135	1.25004	1.22550	1.20855	1.19659	1.18481
4208826.72	1.45346	1.43008	1.40985	1.38999	1.36511	1.32947	1.30815	1.29775	1.29061
4208776.72	1.59558	1.56900	1.54888	1.52468	1.49096	1.44390	1.42463	1.41095	1.41272
4208726.72	1.76430	1.73017	1.70715	1.67749	1.63295	1.58746	1.56391	1.55552	1.56236
4208676.72	1.95903	1.92098	1.89065	1.84475	1.79266	1.75705	1.73276	1.71858	1.74201
4208626.72	2.17157	2.13491	2.10428	2.04223	1.99070	1.97472	1.93517	1.91364	1.95787
4208576.72	2.41341	2.37674	2.32277	2.25606	2.24048	2.27731	2.22252	2.20587	2.22742
4208526.72	2.68697	2.64223	2.54947	2.53912	2.57730	2.62678	2.64351	2.68631	2.72707
4208476.72	3.02990	3.01217	2.99607	2.95625	2.97506	3.04699	3.17533	3.35056	3.57557
4208426.72	3.43791	3.44840	3.35454	3.34416	3.41481	3.55586	3.78716	4.09580	4.90729
4208376.72	4.10892	4.09899	3.69113	3.68947	3.87094	4.12772	4.48748	5.06099	6.17957
4208326.72	4.74745	4.69704	4.40106	4.18251	4.32362	4.73953	5.20772	6.06917	7.39169
4208276.72	5.15348	5.45024	5.22246	4.93301	5.04243	5.51014	5.94648	6.75820	8.81759
4208226.72	6.06348	6.78256	6.34057	5.97162	6.09220	6.50334	6.20157	7.05927	9.59193
4208176.72	7.86010	8.92246	8.07332	7.68997	7.62233	7.20272	6.19293	7.55411	10.30562
4208126.72	13.01066	13.27832	11.46901	10.62565	10.27142	10.11510	8.26818	9.39142	

11.91225
4208076.72 | 23.06345 23.44942 21.56212 18.57507 16.94086 17.42986 14.19701
15.76184 18.16196
4208026.72 | 11.97984 12.55724 17.28779 22.68906 24.20021 23.23849 19.25248
19.85542 21.52362
4207976.72 | 5.68963 4.60025 5.84109 8.38475 9.90707 10.09804 9.24337 7.67662
8.49069
♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14
PAGE 63
*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 ,
L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 ,
L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 ,
L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . .
,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)				
	592846.94	592896.94	592946.94	592996.94	593046.94
4208926.72	1.08179	1.06951	1.05418	1.03691	1.01714
4208876.72	1.17510	1.16145	1.14408	1.12232	1.10012
4208826.72	1.28035	1.26687	1.24569	1.22286	1.19629
4208776.72	1.40597	1.39075	1.36583	1.33842	1.31001
4208726.72	1.55889	1.53778	1.51049	1.47934	1.44613
4208676.72	1.74086	1.72061	1.68935	1.65100	1.61141
4208626.72	1.97767	1.95596	1.91614	1.87715	1.83429
4208576.72	2.29952	2.30604	2.26221	2.21138	2.16526
4208526.72	2.81399	2.85677	2.80933	2.75200	2.66730
4208476.72	3.84887	3.96948	3.92282	3.72041	3.42774
4208426.72	7.17526	8.77592	6.79611	5.32915	4.46827
4208376.72	12.22190	16.15045	9.95656	6.92156	5.47472
4208326.72	13.39189	18.18928	11.50225	8.02509	6.20400
4208276.72	14.15979	19.24844	12.31082	8.67939	6.57917
4208226.72	14.82449	20.06120	12.87163	9.13271	6.40092
4208176.72	16.01122	20.68110	13.43818	9.16500	6.43268
4208126.72	17.89267	21.29891	13.98174	8.73150	6.69378
4208076.72	22.24817	22.91322	13.81694	8.12616	6.52993
4208026.72	21.77748	16.73186	10.44728	6.69002	5.66517
4207976.72	8.80321	7.85961	6.54524	5.01089	4.50905

♀ *** AERMOD - VERSION 18081 *** ***
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*** AERMET - VERSION 18081 *** *** *** 01:30:14
PAGE 64

Const_Unit_NoFactors
*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591236.21	4208653.71	4.30882	591234.46	4208640.57	4.48305
591232.71	4208626.11	4.67025	591233.58	4208612.54	4.93147
591233.58	4208599.83	5.19894	591234.90	4208583.63	5.58097
591234.90	4208568.74	5.96973	591234.90	4208554.72	6.33489
591235.34	4208541.14	6.67632	591235.34	4208527.56	7.16541
591234.90	4208514.42	7.78010	591235.77	4208501.28	8.54426
591235.77	4208485.95	9.65262	591237.96	4208472.38	10.92132
591239.45	4208452.86	13.45274	591233.99	4208435.28	17.27939
591218.23	4208438.31	16.96357	591204.28	4208439.52	17.05940
591200.04	4208477.11	10.70654	591200.65	4208489.84	9.42163
591198.83	4208504.39	8.21966	591200.65	4208517.12	7.53899
591200.04	4208530.45	6.96913	591199.43	4208541.97	6.61989
591198.54	4208557.75	6.25113	591197.91	4208571.67	5.91541
591197.91	4208583.70	5.58940	591196.96	4208598.26	5.24297
591198.23	4208611.55	4.97484	591197.28	4208626.42	4.70936
591196.65	4208639.40	4.52470	591196.96	4208654.59	4.32841
591235.57	4208669.78	4.09674	591223.86	4208684.65	3.94466
591204.24	4208686.87	3.93830	591190.32	4208691.30	3.87505
591177.97	4208692.25	3.84292	591180.19	4208655.54	4.28916
591178.61	4208640.98	4.49181	591178.29	4208628.00	4.68372
591178.29	4208615.35	4.88853	591180.19	4208600.47	5.16880
591178.61	4208585.60	5.49395	591178.61	4208573.89	5.79448
591180.19	4208558.70	6.19549	591179.24	4208544.14	6.55362
591178.92	4208531.17	6.98163	591179.87	4208518.83	7.49663
591179.24	4208504.59	8.23080	591179.87	4208489.08	9.60875
591179.56	4208477.37	10.85684	591192.53	4208439.08	17.44180
591178.92	4208442.56	16.89368	591164.68	4208446.04	16.72773
591269.43	4208360.68	15.52883	591311.76	4208351.13	14.41811
591327.77	4208343.68	12.51837	591342.29	4208343.68	12.77258
591357.56	4208340.33	12.04801	591372.45	4208335.86	11.45723
591387.34	4208333.63	11.56321	591414.90	4208326.55	11.02900
591432.77	4208325.06	11.34780	591454.36	4208322.09	11.71542
591470.00	4208319.85	12.14701	591485.26	4208315.38	12.37707
591499.78	4208312.03	13.03654	591515.05	4208308.68	13.84809
591529.20	4208304.96	13.89761	591544.83	4208302.35	14.67858
591559.73	4208298.26	14.61038	591573.50	4208296.02	15.14671
591589.51	4208291.93	14.38775	591605.89	4208288.20	13.84809

591620.42	4208285.23	13.71459	591635.31	4208283.36	14.03923
591651.69	4208281.13	14.45846	591673.28	4208274.80	14.17995
591671.05	4208249.11	9.90120	591666.21	4208232.36	8.20820

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591661.37	4208220.81	7.29455	591655.79	4208204.80	6.38333
591653.55	4208188.42	5.70528	591269.69	4208343.68	11.85121
591268.57	4208328.41	9.30758	591271.93	4208312.03	7.38848
591273.41	4208296.02	6.03604	591276.77	4208281.87	5.23320
591286.07	4208263.26	4.31854	591290.54	4208250.23	3.80794
591318.09	4208303.84	6.62234	591324.05	4208285.97	5.26434
591334.10	4208263.63	3.90778	591345.27	4208275.55	4.39743
591358.68	4208284.85	4.85724	591373.57	4208293.04	5.39896
591384.74	4208301.61	6.15444	591398.89	4208309.80	7.31154
591357.56	4208228.63	2.66298	591370.59	4208238.31	2.86246
591384.37	4208246.88	3.09115	591398.14	4208255.07	3.40425
591410.80	4208266.24	3.91609	591425.69	4208276.29	4.59628
591444.68	4208283.74	5.37036	591460.32	4208280.76	5.46680
591475.96	4208276.66	5.52862	591491.59	4208274.06	5.94334
591507.60	4208269.59	6.45629	591521.38	4208266.61	7.53740
591537.02	4208261.77	8.16089	591552.28	4208258.42	8.26220
591566.43	4208255.44	8.16616	591581.32	4208253.58	8.23434
591596.21	4208251.34	8.28951	591610.36	4208246.50	8.15258
591624.88	4208244.64	8.25548	591619.67	4208221.93	6.71122
591612.22	4208206.29	5.91010	591724.29	4208263.63	15.10607
591733.97	4208264.38	15.79590	591745.14	4208262.14	15.78767
591757.06	4208258.42	15.94196	591767.11	4208253.95	15.49261
591778.28	4208250.97	15.46978	591788.33	4208249.11	15.21591
591798.38	4208244.64	14.56441	591809.18	4208241.29	14.38979
591819.98	4208238.69	14.37920	591830.03	4208236.82	14.59411
591840.46	4208230.87	14.10306	591850.14	4208225.65	14.16318
591860.56	4208221.93	15.18862	591871.73	4208220.44	16.56852
591881.04	4208213.74	16.04690	591892.21	4208208.90	16.18537
591901.89	4208205.18	16.88558	591911.94	4208198.85	16.73453
591918.64	4208191.03	15.22441	591929.07	4208184.70	14.83124

591941.73	4208176.88	14.25553	591975.23	4208160.87	14.23235
592005.02	4208133.69	14.25093	592015.44	4208127.74	14.46064
592030.57	4208121.88	14.95797	592040.65	4208115.75	14.53158
592055.98	4208110.49	15.17004	592066.05	4208107.86	15.47144
592080.95	4208102.61	15.38021	592098.03	4208100.42	16.69938
592107.67	4208098.23	17.24739	592122.12	4208091.66	16.69547
592135.70	4208090.34	17.44189	592151.03	4208088.59	18.06249
592161.98	4208085.52	17.75460	592176.88	4208082.46	17.56125
592190.46	4208081.14	17.79477	592202.72	4208078.51	17.14579
592215.86	4208076.76	16.99981	592231.19	4208075.01	17.71898

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFEXH ***
INCLUDING SOURCE(S): L0006515 , L0006516 , L0006517 , L0006518 , L0006519 ,
L0006520 , L0006521 , L0006522 , L0006523 , L0006524 , L0006525 , L0006526 , L0006527 ,
L0006528 , L0006529 , L0006530 , L0006531 , L0006532 , L0006533 , L0006534 , L0006535 ,
L0006536 , L0006537 , L0006538 , L0006539 , L0006540 , L0006541 , L0006542 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
592240.39	4208073.26	18.25140	592254.85	4208074.13	20.45161
592272.37	4208070.19	19.96553	592283.32	4208065.37	18.62348
592328.44	4208060.56	19.09629	592357.79	4208053.11	17.66066
592377.94	4208052.23	18.82756	592400.28	4208037.78	15.09054
591747.43	4208240.58	11.65193	591765.30	4208236.48	11.79474
591786.90	4208228.29	11.13912	591805.52	4208222.70	11.03127
591839.41	4208210.41	10.72519	591871.06	4208197.75	11.40140
591888.56	4208191.79	11.44696	591912.02	4208179.88	11.36794
591945.17	4208162.00	11.50606	591966.39	4208148.60	10.87328

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFFUG ***
INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 , L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,

Const_Unit_NoFactors
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . .
,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	590596.94	590646.94	590696.94	590746.94	590796.94	590846.94	590896.94	590946.94	590996.94
4208926.72	1.84932	2.02152	2.21649	2.43018	2.52754	2.41920	2.35427	2.30877	2.15023
4208876.72	2.25791	2.72322	3.36478	4.21225	4.63137	4.16729	3.58750	3.29791	2.96151
4208826.72	2.74878	3.62191	5.60337	17.01924	20.80712	8.06167	5.25174	4.16149	3.62434
4208776.72	3.22522	4.24587	6.25390	26.39934	22.29312	9.89656	6.13947	4.82334	4.10113
4208726.72	3.54094	4.54261	6.91048	28.43827	20.53955	10.13826	6.64691	5.34893	4.63360
4208676.72	3.76818	4.71351	7.68756	17.38206	19.58465	10.08433	7.07231	5.87890	5.19869
4208626.72	3.57887	4.39319	7.53515	14.28289	19.27708	10.20386	7.72981	6.65519	6.10607
4208576.72	3.04455	4.01623	6.63950	21.58675	19.80685	11.12032	9.15897	8.30024	7.87461
4208526.72	2.61407	3.85957	7.60757	16.56731	22.06841	14.82465	14.02308	13.19196	12.10355
4208476.72	2.30212	3.51556	7.09312	25.10490	32.88502	25.24429	35.31501	41.44684	29.84290
4208426.72	1.92165	2.73797	4.35553	8.15948	11.18553	13.16177	15.02637	17.70832	21.99164
4208376.72	1.53647	2.08715	3.25235	4.58773	5.68245	6.42572	7.17411	7.87334	8.36136
4208326.72	1.22667	1.60443	2.36834	3.17194	3.82503	4.20736	4.67165	5.00815	5.16966
4208276.72	1.00759	1.27343	1.76989	2.37204	2.82662	3.19562	3.49728	3.56111	3.62995
4208226.72	0.85183	1.00522	1.29450	1.63805	2.15149	2.59260	2.65497	2.69153	2.64366
4208176.72	0.73974	0.83742	0.97192	1.21402	1.80489	2.07614	2.06884	2.05483	1.94108
4208126.72	0.66507	0.75132	1.01452	1.36143	1.65608	1.66151	1.61768	1.45985	1.39367
4208076.72	0.63488	0.74868	1.07064	1.31008	1.43694	1.34670	1.13062	1.03611	1.11395
4208026.72	0.68548	0.86078	1.02953	1.23093	1.26754	1.07729	0.82848	0.82913	0.95398
4207976.72	0.73083	0.88639	1.02830	1.12191	1.11125	0.84761	0.69553	0.71712	0.80578

♀ *** AERMOD - VERSION 18081 *** ***
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*** AERMET - VERSION 18081 *** *** *** 01:30:14
PAGE 68

Const_Unit_NoFactors
*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFFUG ***
INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 , L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	591046.94	591096.94	591146.94	591196.94	591246.94	591296.94	591346.94	591396.94	591446.94
4208926.72	2.11790	2.18352	2.03249	1.93490	1.93677	1.82030	1.71864	1.66933	1.62625
4208876.72	2.71423	2.64800	2.50444	2.37104	2.28579	2.15368	2.04648	1.95614	1.85227
4208826.72	3.28349	3.02883	2.85553	2.74608	2.56463	2.39173	2.29593	2.22885	2.16109
4208776.72	3.78842	3.55160	3.21262	2.97411	2.84020	2.72710	2.62320	2.51335	2.39274
4208726.72	4.35206	4.05551	3.69071	3.64690	3.47065	3.18245	3.03544	2.87521	2.75475
4208676.72	4.99466	4.56673	4.17217	4.19390	4.08049	3.82694	3.50237	3.28570	3.19548
4208626.72	5.86386	5.15298	4.83769	4.89737	4.83679	4.58284	4.22866	4.12474	3.88335
4208576.72	7.17687	6.05715	5.95071	6.06533	6.00136	5.67551	5.45399	5.08546	4.67946
4208526.72	9.84066	8.23375	7.96083	7.69932	7.69962	7.33647	6.70851	6.04984	5.66150
4208476.72	19.32074	15.49820	13.92984	12.34144	11.55243	10.21228	8.91712	8.20239	7.68871
4208426.72	31.33144	30.86345	29.91957	37.21964	27.00881	19.80321	16.43527	14.40293	12.70218
4208376.72	8.86853	10.42816	13.23899	17.82800	26.15924	33.82022	31.48513	47.82575	35.69175
4208326.72	5.22693	5.98067	7.20054	8.22630	9.29159	10.16201	10.19995	12.01484	15.58833
4208276.72	3.74430	4.41962	4.86367	5.31096	5.34093	5.15273	4.81604	4.83324	5.49319
4208226.72	2.88209	3.30687	3.27185	3.70263	3.63497	3.23520	2.85975	2.82197	3.13174
4208176.72	2.33840	2.50459	2.32290	2.61577	2.43277	2.18012	2.02664	2.00408	2.22901
4208126.72	1.85740	1.88461	1.55413	1.74485	1.65670	1.54857	1.57179	1.59009	1.75104

4208076.72 | 1.45243 1.33556 1.13913 1.16826 1.20824 1.20495 1.26169 1.41160
1.64670
4208026.72 | 1.11680 0.99256 0.91481 0.92973 0.96886 1.00108 1.10902 1.36375
1.83588
4207976.72 | 0.89897 0.81013 0.78556 0.78417 0.81884 0.87787 1.06477 1.39225
1.85935

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE
GROUP: OFFFUG ***
INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 ,
L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 ,
L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 ,
L0006326 ,
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . .
,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD | X-COORD (METERS)
(METERS) | 591496.94 591546.94 591596.94 591646.94 591696.94 591746.94 591796.94
591846.94 591896.94

4208926.72 | 1.58747 1.55518 1.53114 1.51079 1.49148 1.47295 1.45281 1.43313
1.41311
4208876.72 | 1.78679 1.74479 1.71143 1.68124 1.65684 1.63192 1.60867 1.58528
1.56082
4208826.72 | 2.05800 1.96504 1.91533 1.87778 1.84523 1.81511 1.78799 1.76086
1.73174
4208776.72 | 2.32409 2.21912 2.15918 2.11217 2.07115 2.02891 1.99879 1.96459
1.92515
4208726.72 | 2.68342 2.59288 2.50357 2.43527 2.38506 2.30358 2.25047 2.19320
2.13367
4208676.72 | 3.07566 2.99470 2.94057 2.87310 2.77986 2.66944 2.58178 2.50734
2.44181
4208626.72 | 3.59275 3.47387 3.37348 3.28960 3.18897 3.10353 3.04417 2.97876
2.90590
4208576.72 | 4.39623 4.15435 3.98051 3.84743 3.72411 3.60226 3.51245 3.49611
3.38656
4208526.72 | 5.37109 5.07386 4.91839 4.79149 4.58177 4.27766 4.11213 4.13524
4.07102
4208476.72 | 7.24264 6.81896 6.59900 6.50451 5.87980 5.26149 5.00868 5.06361
4.84848
4208426.72 | 11.50680 10.24506 9.35966 8.78111 7.77278 6.87879 6.55957 6.30489
5.88588
4208376.72 | 25.39300 19.24746 15.97808 13.92501 11.66583 10.19579 9.46169 8.28100
7.44176

4208326.72 | 26.72349 31.14045 32.92414 34.61980 29.40810 22.03334 17.45109 12.31197 10.36073
4208276.72 | 7.22648 11.28803 13.01389 15.85643 22.06831 36.91329 27.88992 30.69406 19.30486
4208226.72 | 4.27323 6.42001 7.07301 7.92159 9.16815 10.82636 13.22348 19.34489 29.01065
4208176.72 | 2.93037 4.48195 5.01346 5.46898 6.00680 6.66833 7.54677 8.91970 10.92414
4208126.72 | 2.13498 3.20016 3.89262 4.20306 4.53150 4.93087 5.36695 5.73943 6.06697
4208076.72 | 2.09921 2.81808 3.20267 3.41486 3.64986 3.86801 3.93892 3.81111 4.53163
4208026.72 | 2.28290 2.56950 2.71497 2.87181 3.01962 2.98137 2.73873 2.64007 3.25259
4207976.72 | 2.11176 2.13722 2.26385 2.44660 2.46514 2.27928 1.89554 1.97975 2.60097

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFFUG ***
INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 , L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)							
	591946.94	591996.94	592046.94	592096.94	592146.94	592196.94	592246.94	592296.94	592346.94
4208926.72	1.39063	1.36788	1.34622	1.31485	1.29446	1.28527	1.27426	1.26173	1.24675
4208876.72	1.53684	1.50940	1.47823	1.44288	1.41736	1.40578	1.39369	1.37872	1.36124
4208826.72	1.69792	1.66590	1.62108	1.58909	1.56172	1.54090	1.52915	1.51454	1.49401
4208776.72	1.87792	1.82910	1.77477	1.74612	1.72430	1.69698	1.68802	1.67460	1.64681
4208726.72	2.06879	2.02805	1.98534	1.94657	1.91835	1.88687	1.86296	1.85481	1.82825
4208676.72	2.36411	2.30281	2.25137	2.20677	2.17144	2.12573	2.07369	2.05676	2.03578
4208626.72	2.70014	2.61277	2.55274	2.49233	2.44544	2.39310	2.33844	2.29535	2.25900

```
 4208576.72 |     3.19589     3.06898     2.99347     2.86792     2.82253     2.73779     2.62437     2.55961
2.50887
 4208526.72 |     3.79158     3.59442     3.47526     3.30584     3.23170     3.13175     2.99585     2.87332
2.79973
 4208476.72 |     4.59833     4.37925     4.24120     4.00707     3.73818     3.52869     3.40259     3.27447
3.17802
 4208426.72 |     5.60247     5.29655     4.93710     4.71968     4.50119     4.09826     3.81208     3.62804
3.56051
 4208376.72 |     7.10512     6.38511     5.81110     5.56456     5.07833     4.58975     4.28079     4.06164
4.09638
 4208326.72 |     9.38269     8.00552     7.15731     6.61849     5.81493     5.27421     5.02508     4.81328
5.09820
 4208276.72 |    13.91149    11.19065     9.24179     8.16001     7.09712     6.58428     6.08271     5.86867
5.89417
 4208226.72 |    37.57835    18.23902    13.45643    11.06261     9.46315     8.76158     7.84851     7.49679
 7.25303
 4208176.72 |    21.58953    25.92905    28.58157    19.23778    14.56112    13.48830    11.35373
10.77038    10.31308
 4208126.72 |     8.53315    13.64206    29.57843    32.46223    47.34972    39.46803    26.50406
22.48974    18.21435
 4208076.72 |     5.64448     7.46296     9.83059    12.76684    16.27091    19.10189    28.00795    36.40374
 30.31920
 4208026.72 |     4.21482     5.27553     5.86448     6.68159     7.38232     6.65403     8.19795    11.23184
12.81974
 4207976.72 |     3.56825     3.80707     4.00738     4.17868     4.36870     4.17799     4.86289     6.45169
7.06499
♀ *** AERMOD - VERSION  18081 ***   ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc    ***       12/13/18
 *** AERMET - VERSION  18081 ***   ***                                                    ***       01:30:14
                                                                                  PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                    *** THE PERIOD ( 26280 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: OFFFUG   ***
                     INCLUDING SOURCE(S):    L0006306    , L0006307    , L0006308    , L0006309    ,
L0006310   ,
           L0006311    , L0006312    , L0006313    , L0006314    , L0006315    , L0006316    , L0006317    ,
L0006318   ,
           L0006319    , L0006320    , L0006321    , L0006322    , L0006323    , L0006324    , L0006325    ,
L0006326   ,
           L0006327    , L0006328    , L0006329    , L0006330    , L0006331    , L0006332    , L0006333    , . . .
,

                      *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

   Y-COORD  |                              X-COORD (METERS)
   (METERS) |    592396.94    592446.94    592496.94    592546.94    592596.94    592646.94    592696.94
592746.94    592796.94
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 4208926.72 |     1.23029     1.21232     1.19467     1.17754     1.16151     1.14573     1.13125     1.11900
1.10628
 4208876.72 |     1.34242     1.32269     1.30416     1.28624     1.26513     1.24079     1.22413     1.21248
1.20091
```

4208826.72	1.47222	1.44902	1.42889	1.40869	1.38340	1.34732	1.32636	1.31658	1.31001
4208776.72	1.61868	1.59205	1.57236	1.54803	1.51310	1.46432	1.44592	1.43304	1.43614
4208726.72	1.79353	1.75866	1.73565	1.70586	1.65988	1.61212	1.58895	1.58247	1.59133
4208676.72	1.99642	1.95720	1.92593	1.87848	1.82456	1.78773	1.76291	1.75071	1.77840
4208626.72	2.21840	2.18094	2.14921	2.08388	2.02947	2.01424	1.97296	1.95189	2.00446
4208576.72	2.47042	2.43360	2.37820	2.30762	2.29151	2.33222	2.27526	2.25938	2.28867
4208526.72	2.75462	2.70953	2.61299	2.60460	2.64896	2.70504	2.72662	2.77863	2.83126
4208476.72	3.11042	3.09224	3.07708	3.04102	3.06724	3.15280	3.30521	3.52123	3.81188
4208426.72	3.53352	3.54202	3.44956	3.44442	3.52630	3.68817	3.96167	4.35993	5.46358
4208376.72	4.21426	4.19608	3.80187	3.80575	4.00466	4.28603	4.69926	5.41745	6.89810
4208326.72	4.90560	4.84132	4.54507	4.32428	4.48483	4.93082	5.45143	6.45409	8.25360
4208276.72	5.38842	5.64197	5.41757	5.12294	5.24776	5.74680	6.21826	7.17464	9.76870
4208226.72	6.39454	7.03981	6.63250	6.24850	6.38073	6.77077	6.54122	7.47835	10.56262
4208176.72	8.45228	9.41766	8.57669	8.16409	8.09811	7.64656	6.70654	8.16789	11.34787
4208126.72	14.54641	14.65126	12.60996	11.66284	11.32560	11.09136	9.32203	10.52824	13.28118
4208076.72	38.78489	46.01774	30.29508	24.44371	22.84362	22.21291	19.75846	21.24804	23.44142
4208026.72	14.17216	15.45090	22.33322	32.58249	35.94030	34.60198	30.02559	31.56341	33.50437
4207976.72	6.24464	5.13660	6.53820	9.11674	10.37284	10.56699	9.85491	8.44566	9.20291

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFFUG ***

INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 , L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)				
	592846.94	592896.94	592946.94	592996.94	593046.94
4208926.72	1.09549	1.08316	1.06746	1.05028	1.03063
4208876.72	1.19165	1.17787	1.16006	1.13831	1.11592
4208826.72	1.30020	1.28662	1.26487	1.24213	1.21464
4208776.72	1.43010	1.41472	1.38917	1.36157	1.33107
4208726.72	1.58878	1.56731	1.53946	1.50734	1.46987
4208676.72	1.77857	1.75827	1.72641	1.68482	1.63784
4208626.72	2.02796	2.00681	1.96540	1.91860	1.86513
4208576.72	2.37292	2.38335	2.33371	2.26599	2.20781
4208526.72	2.94327	2.99900	2.92809	2.84454	2.74940
4208476.72	4.19079	4.38277	4.24687	3.96497	3.61656
4208426.72	10.26500	15.58333	8.09945	5.88812	4.79553
4208376.72	18.75890	31.79951	11.89306	7.66341	5.88813
4208326.72	19.78362	34.32398	13.44709	8.76782	6.63581
4208276.72	20.48438	35.44536	14.22962	9.41824	7.03698
4208226.72	21.06970	36.06795	14.84445	9.92281	6.83545
4208176.72	22.65354	37.31941	15.48717	10.01493	6.87040
4208126.72	24.72415	38.63954	16.16756	9.53890	7.18868
4208076.72	31.40766	40.91750	16.12875	8.83996	6.97959
4208026.72	35.26206	22.06536	11.61239	7.10166	5.96445
4207976.72	9.56455	8.39200	6.85474	5.16334	4.64025

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFFUG ***
INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 , L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591236.21	4208653.71	4.45223	591234.46	4208640.57	4.64600
591232.71	4208626.11	4.85364	591233.58	4208612.54	5.13395
591233.58	4208599.83	5.42542	591234.90	4208583.63	5.84480
591234.90	4208568.74	6.28284	591234.90	4208554.72	6.69017
591235.34	4208541.14	7.09197	591235.34	4208527.56	7.66102
591234.90	4208514.42	8.38369	591235.77	4208501.28	9.28275
591235.77	4208485.95	10.66128	591237.96	4208472.38	12.27014
591239.45	4208452.86	15.84932	591233.99	4208435.28	22.65436

591218.23	4208438.31	22.36111	591204.28	4208439.52	23.06948
591200.04	4208477.11	12.22571	591200.65	4208489.84	10.54180
591198.83	4208504.39	9.08334	591200.65	4208517.12	8.20766
591200.04	4208530.45	7.50469	591199.43	4208541.97	7.06386
591198.54	4208557.75	6.61319	591197.91	4208571.67	6.22367
591197.91	4208583.70	5.86267	591196.96	4208598.26	5.48303
591198.23	4208611.55	5.18971	591197.28	4208626.42	4.90214
591196.65	4208639.40	4.70375	591196.96	4208654.59	4.49250
591235.57	4208669.78	4.22068	591223.86	4208684.65	4.06215
591204.24	4208686.87	4.06630	591190.32	4208691.30	4.00730
591177.97	4208692.25	3.98083	591180.19	4208655.54	4.45631
591178.61	4208640.98	4.66798	591178.29	4208628.00	4.88247
591178.29	4208615.35	5.11152	591180.19	4208600.47	5.41370
591178.61	4208585.60	5.77726	591178.61	4208573.89	6.11373
591180.19	4208558.70	6.56863	591179.24	4208544.14	7.02209
591178.92	4208531.17	7.54898	591179.87	4208518.83	8.19862
591179.24	4208504.59	9.18969	591179.87	4208489.08	10.94350
591179.56	4208477.37	12.65950	591192.53	4208439.08	24.79677
591178.92	4208442.56	24.13802	591164.68	4208446.04	24.09837
591269.43	4208360.68	18.71034	591311.76	4208351.13	16.89622
591327.77	4208343.68	14.42411	591342.29	4208343.68	14.91832
591357.56	4208340.33	14.23027	591372.45	4208335.86	13.58374
591387.34	4208333.63	13.78040	591414.90	4208326.55	13.10186
591432.77	4208325.06	13.63693	591454.36	4208322.09	14.18058
591470.00	4208319.85	14.80969	591485.26	4208315.38	14.97456
591499.78	4208312.03	15.53532	591515.05	4208308.68	16.28538
591529.20	4208304.96	16.41277	591544.83	4208302.35	17.41985
591559.73	4208298.26	17.74400	591573.50	4208296.02	18.81440
591589.51	4208291.93	17.94447	591605.89	4208288.20	17.12500
591620.42	4208285.23	16.83374	591635.31	4208283.36	17.40992
591651.69	4208281.13	18.11982	591673.28	4208274.80	17.56943
591671.05	4208249.11	10.98326	591666.21	4208232.36	8.85842

♀ *** AERMOD - VERSION 18081 *** ***
C:\MBA\Alves\AERMOD\Const_Unit_NoFactors\Const_Unit_NoFactors.isc *** 12/13/18
*** AERMET - VERSION 18081 *** *** *** 01:30:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFFUG ***
INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 , L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
591661.37	4208220.81	7.78692	591655.79	4208204.80	6.72056

591653.55	4208188.42	5.95938	591269.69	4208343.68	12.96568
591268.57	4208328.41	10.00867	591271.93	4208312.03	7.89025
591273.41	4208296.02	6.40746	591276.77	4208281.87	5.53804
591286.07	4208263.26	4.55822	591290.54	4208250.23	4.03464
591318.09	4208303.84	7.13953	591324.05	4208285.97	5.64275
591334.10	4208263.63	4.19371	591345.27	4208275.55	4.75503
591358.68	4208284.85	5.30010	591373.57	4208293.04	5.95990
591384.74	4208301.61	6.88184	591398.89	4208309.80	8.32382
591357.56	4208228.63	2.85926	591370.59	4208238.31	3.08822
591384.37	4208246.88	3.35379	591398.14	4208255.07	3.71752
591410.80	4208266.24	4.31592	591425.69	4208276.29	5.11180
591444.68	4208283.74	6.03975	591460.32	4208280.76	6.15226
591475.96	4208276.66	6.21309	591491.59	4208274.06	6.66861
591507.60	4208269.59	7.23762	591521.38	4208266.61	8.23861
591537.02	4208261.77	8.86241	591552.28	4208258.42	9.00164
591566.43	4208255.44	8.90430	591581.32	4208253.58	8.95639
591596.21	4208251.34	8.99977	591610.36	4208246.50	8.79831
591624.88	4208244.64	8.93886	591619.67	4208221.93	7.10976
591612.22	4208206.29	6.20338	591724.29	4208263.63	18.91083
591733.97	4208264.38	20.49843	591745.14	4208262.14	20.61720
591757.06	4208258.42	20.37072	591767.11	4208253.95	19.37707
591778.28	4208250.97	19.38804	591788.33	4208249.11	19.73829
591798.38	4208244.64	19.07589	591809.18	4208241.29	19.24530
591819.98	4208238.69	19.85489	591830.03	4208236.82	21.07501
591840.46	4208230.87	20.23645	591850.14	4208225.65	19.83833
591860.56	4208221.93	21.77632	591871.73	4208220.44	24.87355
591881.04	4208213.74	22.33371	591892.21	4208208.90	20.94159
591901.89	4208205.18	22.23896	591911.94	4208198.85	22.68292
591918.64	4208191.03	20.22655	591929.07	4208184.70	20.06756
591941.73	4208176.88	19.70541	591975.23	4208160.87	21.14726
592005.02	4208133.69	17.94664	592015.44	4208127.74	18.30491
592030.57	4208121.88	19.07811	592040.65	4208115.75	18.03097
592055.98	4208110.49	19.37320	592066.05	4208107.86	20.18910
592080.95	4208102.61	20.10841	592098.03	4208100.42	22.70178
592107.67	4208098.23	23.35191	592122.12	4208091.66	21.01119
592135.70	4208090.34	22.09803	592151.03	4208088.59	23.52299
592161.98	4208085.52	23.05363	592176.88	4208082.46	22.31146
592190.46	4208081.14	22.18047	592202.72	4208078.51	21.04463
592215.86	4208076.76	20.77258	592231.19	4208075.01	21.83361

♀ *** AERMOD - VERSION 18081 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE PERIOD (26280 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFFUG ***

INCLUDING SOURCE(S): L0006306 , L0006307 , L0006308 , L0006309 , L0006310 ,
L0006311 , L0006312 , L0006313 , L0006314 , L0006315 , L0006316 , L0006317 , L0006318 ,
L0006319 , L0006320 , L0006321 , L0006322 , L0006323 , L0006324 , L0006325 , L0006326 ,
L0006327 , L0006328 , L0006329 , L0006330 , L0006331 , L0006332 , L0006333 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
592240.39	4208073.26	22.65032	592254.85	4208074.13	27.10943
592272.37	4208070.19	26.59544	592283.32	4208065.37	24.33592
592328.44	4208060.56	26.54944	592357.79	4208053.11	24.55726
592377.94	4208052.23	27.53688	592400.28	4208037.78	19.27471
591747.43	4208240.58	13.28798	591765.30	4208236.48	13.46912
591786.90	4208228.29	12.93773	591805.52	4208222.70	12.96084
591839.41	4208210.41	12.88206	591871.06	4208197.75	13.77974
591888.56	4208191.79	13.56142	591912.02	4208179.88	13.62993
591945.17	4208162.00	14.52105	591966.39	4208148.60	13.70515

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (26280 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID
AREAEXH	1ST HIGHEST VALUE IS	91.97013 AT (591896.94, 4208476.72, 61.50, 296.60, 0.00)	GC UCART1
	2ND HIGHEST VALUE IS	91.25145 AT (591846.94, 4208426.72, 59.50, 296.60, 0.00)	GC UCART1
	3RD HIGHEST VALUE IS	88.24016 AT (591846.94, 4208476.72, 55.90, 296.60, 0.00)	GC UCART1
	4TH HIGHEST VALUE IS	84.53222 AT (591696.94, 4208426.72, 56.30, 296.60, 0.00)	GC UCART1
	5TH HIGHEST VALUE IS	83.69434 AT (591846.94, 4208376.72, 61.30, 296.60, 0.00)	GC UCART1
	6TH HIGHEST VALUE IS	83.54117 AT (591696.94, 4208476.72, 54.30, 296.60, 0.00)	GC UCART1
	7TH HIGHEST VALUE IS	82.96144 AT (591596.94, 4208426.72, 59.80, 296.60, 0.00)	GC UCART1
	8TH HIGHEST VALUE IS	81.70049 AT (591896.94, 4208526.72, 56.40, 296.60, 0.00)	GC UCART1
	9TH HIGHEST VALUE IS	81.21496 AT (591996.94, 4208426.72, 57.80, 296.60, 0.00)	GC UCART1
	10TH HIGHEST VALUE IS	78.38928 AT (591596.94, 4208476.72, 53.60, 296.60, 0.00)	GC UCART1
AREAFUG	1ST HIGHEST VALUE IS	155.01091 AT (591846.94, 4208426.72, 59.50, 296.60, 0.00)	GC UCART1
	2ND HIGHEST VALUE IS	149.61966 AT (591896.94, 4208476.72, 61.50, 296.60, 0.00)	GC UCART1

3RD HIGHEST VALUE IS 148.78264 AT (591596.94, 4208426.72, 59.80, 296.60, 0.00) GC UCART1
4TH HIGHEST VALUE IS 144.02018 AT (591496.94, 4208426.72, 60.50, 296.60, 0.00) GC UCART1
5TH HIGHEST VALUE IS 143.53228 AT (591846.94, 4208376.72, 61.30, 296.60, 0.00) GC UCART1
6TH HIGHEST VALUE IS 136.66056 AT (591846.94, 4208476.72, 55.90, 296.60, 0.00) GC UCART1
7TH HIGHEST VALUE IS 134.79150 AT (591946.94, 4208326.72, 59.90, 296.60, 0.00) GC UCART1
8TH HIGHEST VALUE IS 133.69830 AT (591696.94, 4208476.72, 54.30, 296.60, 0.00) GC UCART1
9TH HIGHEST VALUE IS 133.60365 AT (591546.94, 4208426.72, 58.90, 296.60, 0.00) GC UCART1
10TH HIGHEST VALUE IS 132.04023 AT (591346.94, 4208576.72, 61.20, 296.60, 0.00) GC UCART1

OFFEXH 1ST HIGHEST VALUE IS 24.20021 AT (592596.94, 4208026.72, 50.10, 296.60, 0.00) GC UCART1
2ND HIGHEST VALUE IS 24.07678 AT (590946.94, 4208476.72, 56.40, 296.60, 0.00) GC UCART1
3RD HIGHEST VALUE IS 23.99463 AT (592196.94, 4208126.72, 49.60, 296.60, 0.00) GC UCART1
4TH HIGHEST VALUE IS 23.44942 AT (592446.94, 4208076.72, 57.20, 296.60, 0.00) GC UCART1
5TH HIGHEST VALUE IS 23.23849 AT (592646.94, 4208026.72, 49.80, 296.60, 0.00) GC UCART1
6TH HIGHEST VALUE IS 23.14348 AT (592146.94, 4208126.72, 48.70, 296.60, 0.00) GC UCART1
7TH HIGHEST VALUE IS 23.06610 AT (591396.94, 4208376.72, 64.50, 296.60, 0.00) GC UCART1
8TH HIGHEST VALUE IS 23.06345 AT (592396.94, 4208076.72, 57.10, 296.60, 0.00) GC UCART1
9TH HIGHEST VALUE IS 22.91322 AT (592896.94, 4208076.72, 51.30, 296.60, 0.00) GC UCART1
10TH HIGHEST VALUE IS 22.68906 AT (592546.94, 4208026.72, 52.90, 296.60, 0.00) GC UCART1

OFFFUG 1ST HIGHEST VALUE IS 47.82575 AT (591396.94, 4208376.72, 64.50, 296.60, 0.00) GC UCART1
2ND HIGHEST VALUE IS 47.34972 AT (592146.94, 4208126.72, 48.70, 296.60, 0.00) GC UCART1
3RD HIGHEST VALUE IS 46.01774 AT (592446.94, 4208076.72, 57.20, 296.60, 0.00) GC UCART1
4TH HIGHEST VALUE IS 41.44684 AT (590946.94, 4208476.72, 56.40, 296.60, 0.00) GC UCART1
5TH HIGHEST VALUE IS 40.91750 AT (592896.94, 4208076.72, 51.30, 296.60, 0.00) GC UCART1
6TH HIGHEST VALUE IS 39.46803 AT (592196.94, 4208126.72, 49.60, 296.60, 0.00) GC UCART1
7TH HIGHEST VALUE IS 38.78489 AT (592396.94, 4208076.72, 57.10, 296.60, 0.00) GC UCART1
8TH HIGHEST VALUE IS 38.63954 AT (592896.94, 4208126.72, 48.50, 296.60, 0.00) GC UCART1
9TH HIGHEST VALUE IS 37.57835 AT (591946.94, 4208226.72, 71.30, 296.60, 0.00) GC UCART1

10TH HIGHEST VALUE IS 37.31941 AT (592896.94, 4208176.72, 47.10, 296.60, 0.00) GC UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
♀ *** AERMOD - VERSION 18081 *** ***
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*** AERMET - VERSION 18081 *** *** *** 01:30:14

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 31 Warning Message(s)
A Total of 517 Informational Message(s)

A Total of 26280 Hours Were Processed

A Total of 30 Calm Hours Identified

A Total of 487 Missing Hours Identified (1.85 Percent)

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

******** WARNING MESSAGES ********
MX W403 1053 PFLCNV: Turbulence data is being used w/o ADJ_U* option SigA Data
MX W402 1053 PFLCNV: Turbulence data being used with ADJ_U* w/o DFAULT Option
MX W441 945 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020909
MX W441 946 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020910
MX W441 947 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020911
MX W441 948 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020912
MX W441 949 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020913
MX W441 950 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020914
MX W441 951 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020915
MX W441 952 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020916
MX W441 953 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09020917
MX W441 969 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021009
MX W441 970 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021010
MX W441 971 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021011
MX W441 972 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021012
MX W441 973 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021013
MX W441 974 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021014
MX W441 975 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021015
MX W441 976 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 09021016
MX W441 22927 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081407
MX W441 22928 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081408
MX W441 22929 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT= 11081409

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MX W441	22930	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081410
MX W441	22931	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081411
MX W441	22932	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081412
MX W441	22933	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081413
MX W441	22934	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081414
MX W441	22935	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081415
MX W441	22936	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081416
MX W441	22937	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081417
MX W441	22938	METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=	11081418

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*** AERMOD Finishes Successfully ***

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