

# ***APPENDIX M***

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*Air Quality*

Page: 1  
7/17/2007 9:44 AM

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Hollister\Hollister Sprayfield Grading.urb  
Project Name: Brook Ranch and Riverside Park Sprayfield Grading  
Project Location: DEFAULT  
1-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	10.75	80.12	84.93	0.04	102.93	2.84	100.09
TOTALS (lbs/day, mitigated)	10.75	64.14	84.93	0.04	30.65	2.84	27.81

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Hollister\Hollister Sprayfield Grading.urb  
Project Name: Brook Ranch and Riverside Park Sprayfield Grading  
Project Location: DEFAULT  
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (tpy, unmitigated)	0.35	2.65	2.79	0.00	3.39	0.09	3.30
TOTALS (tpy, mitigated)	0.35	2.12	2.79	0.00	1.00	0.09	0.91

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Hollister\Hollister Sprayfield Grading.urb  
 Project Name: Brook Ranch and Riverside Park Sprayfield Grading  
 Project Location: DEFAULT  
 1-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2008  
 Construction Duration: 3  
 Total Land Use Area to be Developed: 93 acres  
 Maximum Acreage Disturbed Per Day: 10 acres  
 Single Family Units: 0 Multi-Family Units: 0  
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Ignitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Ignitive Dust	-	-	-	-	100.00	-	100.00
Off-Road Diesel	9.68	63.91	78.27	-	2.44	2.44	0.00
On-Road Diesel	0.93	15.98	3.41	0.04	0.47	0.39	0.08
Worker Trips	0.14	0.23	3.25	0.00	0.02	0.01	0.01
Maximum lbs/day	10.75	80.12	84.93	0.04	102.93	2.84	100.09
Phase 3 - Building Construction							
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	10.75	80.12	84.93	0.04	102.93	2.84	100.09

Phase 3 - Building Construction Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
 Start Month/Year for Phase 2: Jun '08  
 Phase 2 Duration: 3 months  
 On-Road Truck Travel (VMT): 757.5

No.	Type	Horsepower	Load Factor	Hours/Day
2	Graders	174	0.575	8.0
2	Other Equipment	190	0.620	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Ignitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Ignitive Dust	-	-	-	-	27.72	-	27.72
Off-Road Diesel	9.68	51.13	78.27	-	2.44	2.44	0.00

n-Road Diesel	0.93	12.78	3.41	0.04	0.47	0.39	0.08
orker Trips	0.14	0.23	3.25	0.00	0.02	0.01	0.01
Maximum lbs/day	10.75	64.14	84.93	0.04	30.65	2.84	27.81
hase 3 - Building Construction							
ldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
ldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rch Coatings Off-Gas	0.00	-	-	-	-	-	-
rch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sphalt Off-Gas	0.00	-	-	-	-	-	-
sphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
sphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	10.75	64.14	84.93	0.04	30.65	2.84	27.81

onstruction-Related Mitigation Measures

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)  
 Phase 2: Off-Road Diesel Exhaust: Use diesel oxidation catalyst  
 Percent Reduction(ROG 0.0% NOx 20.0% CO 0.0% SO2 0.0% PM10 0.0%)  
 Phase 2: On-Road Diesel Exhaust: Use diesel oxidation catalyst  
 Percent Reduction(ROG 0.0% NOx 20.0% CO 0.0% SO2 0.0% PM10 0.0%)  
 Phase 2: Unpaved Roads: Water all haul roads 2x daily  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)  
 Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)  
 hase 3 - Building Construction Assumptions: Phase Turned OFF

hase 2 - Site Grading Assumptions  
 tart Month/Year for Phase 2: Jun '08  
 hase 2 Duration: 3 months  
 n-Road Truck Travel (VMT): 757.5  
 ff-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Graders	174	0.575	8.0
2	Other Equipment	190	0.620	8.0
1	Rubber Tired Loaders	165	0.465	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0

changes made to the default values for Land Use Trip Percentages

changes made to the default values for Construction

Site Grading Miles/Round Trip changed from 20 to 5

hase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily  
has been changed from off to on.

hase 2 mitigation measure Off-Road Diesel Exhaust: Use diesel oxidation catalyst  
has been changed from off to on.

hase 2 mitigation measure On-Road Diesel Exhaust: Use diesel oxidation catalyst  
has been changed from off to on.

hase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily  
has been changed from off to on.

hase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph  
has been changed from off to on.

URBEMIS 2002 For Windows 8.7.0

file Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Hollister\Hollister Sprayfields.urb  
project Name: Hollister Sprayfields  
project Location: DEFAULT  
n-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (lbs/day, unmitigated)	9.01	58.55	74.63	0.00	58.18	2.17	56.01
TOTALS (lbs/day, mitigated)	9.01	58.55	74.63	0.00	28.05	2.17	25.88
*** 2009 ***							
TOTALS (lbs/day, unmitigated)	9.01	56.72	75.81	0.00	58.04	2.03	56.01
TOTALS (lbs/day, mitigated)	9.01	56.72	75.81	0.00	27.91	2.03	25.88

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	0.00	0.00	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	0.00	0.00	0.00	0.00	0.00

POINT SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day, unmitigated)	0.00	0.00	0.00	0.00	0.00

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Hollister\Hollister Sprayfields.urb  
 Project Name: Hollister Sprayfields  
 Project Location: DEFAULT  
 n-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT  
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (tpy, unmitigated)	0.70	4.50	5.74	0.00	4.48	0.17	4.31
TOTALS (tpy, mitigated)	0.70	4.50	5.74	0.00	2.16	0.17	1.99

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (tpy, unmitigated)	0.17	1.04	1.40	0.00	0.95	0.03	0.92
TOTALS (tpy, mitigated)	0.17	1.04	1.40	0.00	0.46	0.03	0.43

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.00	0.00	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.00	0.00	0.00	0.00	0.00

COMBINATION OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.00	0.00	0.00	0.00	0.00

URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version 8.7\Projects2k2\Hollister\Hollister Sprayfields.urb  
 Project Name: Hollister Sprayfields  
 Project Location: DEFAULT  
 n-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT  
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2008  
 Construction Duration: 9  
 Total Land Use Area to be Developed: 5.6 acres  
 Maximum Acreage Disturbed Per Day: 5.6 acres  
 Single Family Units: 0 Multi-Family Units: 0  
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Ignitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
n-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Ignitive Dust	-	-	-	-	56.00	-	56.00
Off-Road Diesel	8.91	58.38	72.19	-	2.16	2.16	0.00
n-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.10	0.17	2.44	0.00	0.02	0.01	0.01
Maximum lbs/day	9.01	58.55	74.63	0.00	58.18	2.17	56.01
Phase 3 - Building Construction							
ldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
ldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	9.01	58.55	74.63	0.00	58.18	2.17	56.01
*** 2009***							
Phase 1 - Demolition Emissions							
Ignitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
n-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Ignitive Dust	-	-	-	-	56.00	-	56.00
Off-Road Diesel	8.91	56.55	73.40	-	2.02	2.02	0.00
n-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.10	0.17	2.41	0.00	0.02	0.01	0.01
Maximum lbs/day	9.01	56.72	75.81	0.00	58.04	2.03	56.01
Phase 3 - Building Construction							
ldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
ldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	3.27	20.10	27.25	-	0.66	0.66	0.00
Asphalt On-Road Diesel	0.03	0.52	0.11	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.21	0.00	0.01	0.00	0.01
Maximum lbs/day	3.44	20.63	27.57	0.00	0.68	0.67	0.01
Max lbs/day all phases	9.01	56.72	75.81	0.00	58.04	2.03	56.01

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
Start Month/Year for Phase 2: Jun '08  
Phase 2 Duration: 8.5 months  
On-Road Truck Travel (VMT): 0  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions  
Start Month/Year for Phase 3: Feb '09  
Phase 3 Duration: 0.5 months  
SubPhase Building Turned OFF  
SubPhase Architectural Coatings Turned OFF  
Start Month/Year for SubPhase Asphalt: Feb '09  
SubPhase Asphalt Duration: 0.5 months  
Acres to be Paved: .5  
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Mitigative Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Mitigative Dust	-	-	-	-	25.87	-	25.87
Off-Road Diesel	8.91	58.38	72.19	-	2.16	2.16	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.10	0.17	2.44	0.00	0.02	0.01	0.01
Maximum lbs/day	9.01	58.55	74.63	0.00	28.05	2.17	25.88
Phase 3 - Building Construction							
ldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
ldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	9.01	58.55	74.63	0.00	28.05	2.17	25.88

\*\*\* 2009\*\*\*

Phase 1 - Demolition Emissions							
Mitigative Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Mitigative Dust	-	-	-	-	25.87	-	25.87
Off-Road Diesel	8.91	56.55	73.40	-	2.02	2.02	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.10	0.17	2.41	0.00	0.02	0.01	0.01
Maximum lbs/day	9.01	56.72	75.81	0.00	27.91	2.03	25.88
Phase 3 - Building Construction							
ldg Const Off-Road Diesel	0.00	-0.00	0.00	-	0.00	0.00	0.00

ldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
rch Coatings Off-Gas	0.00	-	-	-	-	-	-
rch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
sphalt Off-Gas	0.12	-	-	-	-	-	-
sphalt Off-Road Diesel	3.27	20.10	27.25	-	0.66	0.66	0.00
sphalt On-Road Diesel	0.03	0.52	0.11	0.00	0.01	0.01	0.00
sphalt Worker Trips	0.02	0.01	0.21	0.00	0.01	0.00	0.01
Maximum lbs/day	3.44	20.63	27.57	0.00	0.68	0.67	0.01
Max lbs/day all phases	9.01	56.72	75.81	0.00	27.91	2.03	25.88

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily  
 Percent Reduction (ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)  
 Phase 2: Unpaved Roads: Water all haul roads 2x daily  
 Percent Reduction (ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)  
 Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions  
 Start Month/Year for Phase 2: Jun '08  
 Phase 2 Duration: 8.5 months  
 On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
1	Rubber Tired Dozers	352	0.590	8.0
1	Tractor/Loaders/Backhoes	79	0.465	8.0
1	Trenchers	82	0.695	8.0

Phase 3 - Building Construction Assumptions  
 Start Month/Year for Phase 3: Feb '09  
 Phase 3 Duration: 0.5 months  
 SubPhase Building Turned OFF  
 SubPhase Architectural Coatings Turned OFF  
 Start Month/Year for SubPhase Asphalt: Feb '09  
 SubPhase Asphalt Duration: 0.5 months  
 Acres to be Paved: .5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

age: 6  
7/19/2007 8:06 AM

REA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)					
Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.00	0.00	0.00	0	0.00
Hearth - No summer emissions					
Landscaping	0.00	0.00	0.00	0.00	0.00
Consumer Prdcts	0.00	-	-	-	-
Architectural Coatings	0.00	-	-	-	-
TOTALS(lbs/day,unmitigated)	0.00	0.00	0.00	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
TOTAL EMISSIONS (lbs/day)	0.00	0.00	0.00	0.00	0.00

Does not include correction for passby trips.  
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 75 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Land Use Type	Acres	Trip Rate	No. Units	Total Trips
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Vehicle Assumptions:

Vehicle Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	56.10	2.30	97.10	0.60
Light Truck < 3,750 lbs	15.10	4.00	93.40	2.60
Light Truck 3,751- 5,750	15.50	1.90	96.80	1.30
Med Truck 5,751- 8,500	6.80	1.50	95.60	2.90
Light-Heavy 8,501-10,000	1.00	0.00	80.00	20.00
Light-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	10.00	20.00	70.00
Heavy-Heavy 33,001-60,000	0.80	0.00	12.50	87.50
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.60	87.50	12.50	0.00
School Bus	0.30	0.00	0.00	100.00
Motor Home	1.40	14.30	78.60	7.10

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
Avg. Length of Trips - Residential	32.9	18.0	49.1			

age: 8  
7/19/2007 8:06 AM

changes made to the default values for Land Use Trip Percentages

changes made to the default values for Construction

the user has overridden the Default Phase Lengths

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily  
has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily  
has been changed from off to on.

changes made to the default values for Area

changes made to the default values for Operations