Appendix D Air Quality Data





Parenthetical URBEMIS2002 Assumptions For: Existing Dana Point Harbor Date: 1/17/06

LAND USES

| Phase | Amount | Land Use Type | Trip Rate | Unit Type |
|-----------------|-------------|--|-----------|-------------------|
| Existing Commo | ercial Core | | | |
| | 183 | Car Trailer Parking | 2.96 | Spaces |
| | 2.5 | BSB – Number X | 11.01 | 1,000 tsf. |
| | 5 | Boat Yard Building | 1.91 | 1,000 tsf |
| | 1.8 | County Maintenance Yard – Office | 11.01 | 1,000 tsf |
| | 130 | Car Trailer Parking | 2.96 | Spaces |
| Operational | 2 | BSB – Number 1 Yacht | 11.01 | 1,000 tsf |
| | 52.5 | Retail/Restaurant | 44.32 | 1,000 tsf |
| | 22.5 | Retail/Restaurant – Restaurant | 15.86 | 1,000 tsf |
| | 10 | Beach House Restaurant | 22.9 | 1,000 tsf |
| Existing Harbor | wide | | | |
| Operational | 136 | Hotel | 8.92 | Occupied Rooms |
| | 1.8 | BSB – No. 2 Yacht Brokerage | 11.01 | 1,000 tsf |
| | 1.8 | BSB – Number 3 | 11.01 | 1,000 tsf |
| | 2.5 | BSB – Number 4 | 11.01 | 1,000 tsf |
| | 6 | Harbor Patrol Building – Harbormaster | 11.01 | 1,000 tsf |
| | 10 | Beach House Restaurant | 89.95 | 1,000 tsf |
| | 3.6 | BSB – No. D Dana West Yacht Club | 22.88 | 1,000 tsf |
| | 1.8 | BSB – Number E | 11.01 | 1,000 tsf |
| | 1.8 | BSB – Number F | 11.01 | 1,000 tsf |
| | 2 | BSB – Number 5 | 11.01 | 1,000 tsf |
| | 1.8 | BSB – Number 6 | 11.01 | 1,000 tsf |
| | 1.8 | BSB – Number 7 | 11.01 | 1,000 tsf |
| | 1.8 | BSB – Number 8 | 11.01 | 1,000 tsf |
| | 12.4 | Dana Point Yacht Club | 22.88 | 1,000 tsf |
| | 11 | Youth and Group Facility | 22.99 | 1,000 tsf |
| | 1.8 | BSB – Number A | 11.01 | 1,000 tsf |
| | 1.8 | BSB – Number B | 11.01 | 1,000 tsf |

| 1.8 | BSB – Number C | 11.01 | 1,000 tsf |
|-------|----------------|-------|-----------|
| 2,440 | Boat Slips | 2.96 | Slips |
| 47 | Boat Slips | 2.96 | Slips |

AREA SOURCES

Natural Gas Fuel Combustion:

(Default all phases)

Wood Stoves Fuel Combustion:

Off

Fireplaces:

Off

Consumer Products:

(Default all phases)

Area Source Mitigation:

Refer to file output.

OPERATIONAL SOURCES

Vehicle Fleet %:

(Default all phases)

Year:

Commercial Core – 2012 Existing Harborwide – 2030

Trip Characteristics:

(Default all phases)

Temperature Data: (Phases I-II)

40 to 85 degrees Fahrenheit

Variable Starts:

(Default all phases)

Road Dust: (Phases I-II)

Paved – 100% Unpaved – 0%

Pass By Trips:

On

Double-Counting:

Phase I

Off

Phase II

Off

Operational Mitigation Measures:

Refer to URBEMIS 2002 file output.

Parenthetical URBEMIS2002 Assumptions For: Dana Point Harbor Revitalization Plan and Commercial Core Date: 1/17/06

LAND USES

Revitalization Plan

| Revitaliza | tion Plan | ITE Land | | | |
|------------------|---|---------------|------------|-----------|-------|
| Planning Area | Description | Use (Code) | Size | Trip rate | ADT |
| | Dry Stack Boat Storage | 420 | 800 Slips | 2.96 | 2,368 |
| | Dry Stack Boat Storage – Office | 710 | 5.6 tsf | 11.01 | 62 |
| | Car Trailer Parking | 420 | -83 Spaces | 2.96 | -246 |
| | Boat Bard Building | 942 | -2.5 tsf | 15.86 | -39 |
| Dr | Removal of Maintenance Yard | 710 | -1.8 tsf | 11.01 | -20 |
| | Dry Stack Boat Storage – New Marine Retail Store | 814 | 9.1 tsf | 44.32 | 403 |
| | Lighthouse Facility – Museum | 590 | 2.5 tsf | 54.0 | 135 |
| | BSB | 710 | 4.1 tsf | 11.01 | 45 |
| 2 | Retail/Restaurant – Retail | 814 | 6.2 tsf | 44.32 | 275 |
| | Retail/Restaurant – Restaurant | 832 | 27.1 tsf | 127.15 | 3,446 |
| Commerc | ial Core Total | | | | 6,429 |
| | Hotel | 310 | 84 OR | 8.92 | 749 |
| | Hotel Restaurant | 832 | 2.75 tsf | 127.15 | 350 |
| 3 | BSB Relocation | 710 | -1.8 tsf | 11.01 | 20 |
| | BSB – Number 3 | 710 | 1.5 tsf | 11.01 | 16 |
| | BSB – Number 4 | 710 | 1.0 tsf | 11.01 | 11 |
| 4 | Harbor Patrol Building – Harbormaster | 710 | 1.5 tsf | 11.01 | 17 |
| | Beach House Restaurant | 931 | 5 tsf | 89.95 | 449 |
| | BSB – Number D Dana West Yacht Club | 495 | 5.0 tsf | 22.88 | 115 |
| | BSB – Number E | 710 | 1.0 tsf | 11.01 | 11 |
| | BSB – Number F | 710 | 1.0 tsf | 11.01 | 11 |
| | BSB – Number 5 | 710 | 1.3 tsf | 11.01 | 14 |
| | BSB – Number 6 | 710 | 1.5 tsf | 11.01 | 16 |
| | BSB – Number 7 | 710 | 1.5 tsf | 11.01 | 16 |

| | BSB – Number 8 | 710 | 1.5 tsf | 11.01 | 16 | |
|---------------|--------------------------|-----|------------|-------|--------|--|
| | Dana Point Yacht Club | 495 | 5.6 tsf | 22.88 | 128 | |
| | Youth and Group Facility | 495 | 6.0 tsf | 22.88 | 137 | |
| 5 | BSB – Number A | 710 | 1.0 tsf | 11.01 | 11 | |
| _ | BSB – Number B | 710 | 1.0 tsf | 11.01 | 11 | |
| | BSB – Number C | 710 | 1.0 tsf | 11.01 | 11 | |
| 9 & 10 | Boat Slips | 420 | -546 Slips | 2.96 | -1,616 | |
| 11 & 12 | Boat Slips | 420 | 41 Slips | 2.96 | 121 | |
| Total PA 3-12 | | | | | | |
| Total PA 1 | Total PA 1-12 | | | | | |

CONSTRUCTION SOURCES

Overall Construction Settings:

Construction Start Year

| Phase | Year | Month | Working Days/Month |
|---------------------|------|---------|-----------------------------|
| Revitalization Plan | 2012 | January | 22 (assumed normal average) |
| Commercial Core | 2005 | January | 22 (assumed normal average) |

Revitalization Plan

Length of Construction Periods (Months) – Default (12 months)

Length of Phase I (Demolition)- Default Length of Phase 2 (Site Grading) - Default

Length of Phase 3 (Building)- Default

Length of Subphase 3 - Default

Building - Default

Architectural Coatings - Default

Asphalt - Default

Mitigation (On/Off)

Phase 1 - On

Phase 2 - On

Phase 3 - On

Commercial Core

Length of Construction Periods (Months) – Default (12 months)

Length of Phase I (Demolition)- Default Length of Phase 2 (Site Grading) - Default Length of Phase 3 (Building)- Default Length of Subphase 3 - Default Building - Default Architectural Coatings - Default

Asphalt - Default

Mitigation (On/Off)

Phase 1 - On

Phase 2 - On

Phase 3 - On

Revitalization Plan

Phase 1 - Demolition:

Demolition and On Road Emissions Settings

Total Volume (Length, Width, Height) – 482.4 feet, 482.4 feet, 15 feet Maximum Daily Volume (Length, Width, Height) – 13.3 feet, 13.3 feet, 15 feet

Equipment Exhaust

1 concrete/industrial saw8 hour operation2 Off-Highway Trucks8 hour operation1 Off-Highway Tractor8 hour operation

Phase 2 - Site Grading:

Maximum Daily Acreage Disturbed

Total Acres - 1.4 acres

Total Disturbed – 1.4 acres

Fugitive Dust:

(Default all phases)

Soil Hauling

(Default all phases)

Equipment Exhaust:

2 Off-Highway Trucks

1 Scraper

1 Trenchers

8 hour operation

8 hour operation

8 hour operation

Commercial Core

Demolition and On Road Emissions Settings

Total Volume (Length, Width, Height) – 260.8 feet ,260.8 feet,10 feet Maximum Daily Volume (Length, Width, Height) – 22.7 feet, 22.7 feet, 10 feet

Equipment Exhaust

2 concrete/industrial saw

1 Crushing Equip.

1 Off-Highway Trucks

2 Off-Highway Tractor

8 hour operation

8 hour operation

8 hour operation

8 hour operation

Phase 2 - Site Grading:

Maximum Daily Acreage Disturbed

Total Acres – 8 acres

Total Disturbed – 8 acres

Fugitive Dust:

(Default all phases)

Soil Hauling

(Default all phases)

Equipment Exhaust:

2 Off-Highway Trucks

2 Scraper

8 hour operation

8 hour operation

Revitalization Plan

Phase 3 – Building Equipment:

Equipment Exhaust: (Phases I and II)

1 Cranes

8 hour operation

1 Off-Highway trucks

8 hour operation

Phase 3 – Architectural Coatings:

(Default all phases)

Phase 3 – Asphalt

Asphalt Paving Emissions

| Phase | Acres |
|---------------------|-------|
| Revitalization Plan | 1.4 |

Equipment Exhaust

Phase I

1 Off-Highway Trucks
1 Pavers
1 Paving Equipment
1 Rollers
8 hour operation
8 hour operation
8 hour operation
8 hour operation

Phase 3 - Worker Commute

(Default all phases)

Construction Mitigation:

Refer to file output.

Commercial Core

Phase 3 – Building Equipment:

Equipment Exhaust: (Phases I and II)

1 Cranes
1 Off-Highway trucks
1 Rough Terrain Forklifts
1 Trenchers
8 hour operation
8 hour operation
8 hour operation
8 hour operation

Phase 3 – Architectural Coatings:

(Default all phases)

Phase 3 – Asphalt

Asphalt Paving Emissions

| Phase | Acres |
|-----------------|-------|
| Commercial Core | 4 |

Equipment Exhaust

Phase I

1 Off-Highway Trucks

1 Pavers

1 Paving Equipment

1 Rollers

1 Surfacing Equipment

8 hour operation

Phase 3 - Worker Commute

(Default all phases)

Construction Mitigation:

Refer to file output.

Revitalization Plan

AREA SOURCES

Natural Gas Fuel Combustion:

(Default all phases)

Wood Stoves Fuel Combustion:

Off

Fireplaces:

Off

Consumer Products:

(Default all phases)

Area Source Mitigation:

Refer to file output. **Commercial Core AREA SOURCES Natural Gas Fuel Combustion:** (Default all phases) **Wood Stoves Fuel Combustion:** Off Fireplaces: Off **Consumer Products:** (Default all phases) **Area Source Mitigation:** Refer to file output. Revitalization Plan **OPERATIONAL SOURCES Vehicle Fleet %:** (Default all phases) Year: Harborwide - 2030 **Trip Characteristics:** (Default all phases) Temperature Data: (Phases I-II)

Variable Starts:

(Default all phases)

40 to 85 degrees Fahrenheit

```
Road Dust: (Phases I-II)
      Paved - 100%
      Unpaved - 0%
Pass By Trips:
   On
Double-Counting:
      Phase I
                    Off
                    Off
      Phase II
Operational Mitigation Measures:
      Refer to URBEMIS 2002 file output.
Commercial Core
OPERATIONAL SOURCES
Vehicle Fleet %:
      (URBEMIS2002 default all phases)
Year:
2012
Trip Characteristics:
      (Default all phases)
Temperature Data: (Phases I-II)
      40 to 85 degrees Fahrenheit
Variable Starts:
      (URBEMIS2002 default all phases)
Road Dust: (Phases I-II)
      Paved - 100%
      Unpaved – 0%
Pass By Trips:
   On
```

Double-Counting:

Phase I Off Phase II Off

Operational Mitigation Measures:

Refer to URBEMIS 2002 file output.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES | ROG | NOx | CO | SO2 | PM10 |
|--------------------------------|---------------|---------------|----------------|-------------|----------------|
| TOTALS (lbs/day,unmitigated) | 4.70 | 39.09 | 44.48 | 0.00 | 0.11 |
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES | | | | |
| OPERATIONAL (VEHICLE) ENISSION | ROG | NOx | СО | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 157.94 | 142.66 | 1,364.06 | 1.10 | 106.67 |
| SUM OF AREA AND OPERATIONAL EM | ISSION ESTI | MATES | | | |
| TOTALS (lbs/day,unmitigated) | ROG 162.65 | NOx 181.75 | CO 1,408.54 | SO2 1.10 | PM10 106.78 |

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES | | | | | |
|--------------------------------|-------------|--------|----------|------|--------|
| | ROG | NOx | CO | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 2.83 | 39.02 | 32.78 | 0.00 | 0.07 |
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES | | | | |
| | ROG | NOx | CO | SO2 | PM10 |
| | | | | | |
| TOTALS (lbs/day,unmitigated) | 153.99 | 213.39 | 1,705.27 | 1.08 | 106.67 |
| SUM OF AREA AND OPERATIONAL EM | ISSION ESTI | MATES | | | |
| | ROG | NOx | CO | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 156.82 | 252.41 | 1,738.05 | 1.08 | 106.74 |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMATES TOTALS (tpy, unmitigated) | ROG 0.69 | NOx 7.13 | CO 7.04 | SO2 0.00 | PM10 0.02 |
|--|------------------------|---------------------------|--------------|-------------|---------------|
| OPERATIONAL (VEHICLE) EMISSION TOTALS (tpy, unmitigated) | ESTIMA ROG 28.58 | NOX 30.34 | CO 269.70 | SO2 0.20 | PM10 19.47 |
| SUM OF AREA AND OPERATIONAL EM TOTALS (tpy, unmitigated) | ISSION ROG 29.27 | ESTIMATES NOx 37.47 | CO 276.73 | SO2 0.20 | PM10 19.48 |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES | (Winter | Pounds per | Day, Unmit | igated) | |
|--------------------------------|---------|------------|------------|---------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 2.83 | 39.02 | 32.78 | 0 | 0.07 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping - No winter emiss: | ions | | | | |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 0.00 | - | - | - | |
| TOTALS(lbs/day,unmitigated) | 2.83 | 39.02 | 32.78 | 0.00 | 0.07 |

UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|--------|--------|----------|------|--------|
| Car Trailer Parking | 8.31 | 13.80 | 103.00 | 0.07 | 7.28 |
| Youth and Group Facility | 2.14 | 3.25 | 25.08 | 0.02 | 1.67 |
| Yacht Clubs | 2.89 | 3.88 | 31.41 | 0.02 | 1.92 |
| Harbor Patrol Building | 0.52 | 0.70 | 5.67 | 0.00 | 0.35 |
| Beach House Restaurant | 7.22 | 9.75 | 78.61 | 0.05 | 4.84 |
| Hotel | 9.99 | 14.38 | 113.10 | 0.07 | 7.28 |
| Boat Slips | 60.69 | 87.38 | 687.44 | 0.45 | 44.25 |
| Retail/Restaurant | 8.94 | 11.41 | 94.44 | 0.06 | 5.53 |
| Retail/Restaurant | 49.47 | 63.13 | 522.52 | 0.31 | 30.61 |
| Other BSBs | 1.88 | 2.40 | 19.84 | 0.01 | 1.16 |
| Boat SErvice Building | 0.25 | 0.41 | 3.03 | 0.00 | 0.21 |
| County Maintenance Yard O | 0.22 | 0.38 | 2.75 | 0.00 | 0.20 |
| BSB - Yacht Brokerage | 0.30 | 0.54 | 3.85 | 0.00 | 0.30 |
| Boat Yard Building | 0.85 | 1.43 | 10.53 | 0.01 | 0.77 |
| BSB - NUMBER X | 0.31 | 0.55 | 3.98 | 0.00 | 0.30 |
| | | | | | |
| TOTAL EMISSIONS (lbs/dav) | 153.99 | 213.39 | 1,705.27 | 1.08 | 106.67 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | No. Units | Total Trips |
|--|---------|---|---|-------------------------------------|---|
| Car Trailer Parking Youth and Group Facility Yacht Clubs Harbor Patrol Building Beach House Restaurant Hotel Boat Slips Retail/Restaurant Retail/Restaurant Other BSBs Boat SErvice Building County Maintenance Yard O BSB - Yacht Brokerage Boat Yard Building BSB - NUMBER X | | 22.88 22.88 11.01 89.95 8.92 2.96 44.32 127.15 11.01 11.01 11.01 15.86 | trips/Spaces trips/1000 sq. ft. | 2,491.00 26.60 51.30 22.50 | 66.06 899.50 1,213.12 7,373.36 1,178.91 6,522.80 247.73 27.53 19.82 22.02 79.30 |
| | | | | | |

Sum of Total Trips 19,221.90 Total Vehicle Miles Traveled 70,184.43

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type Light Auto Light Truck < 3,750 lb: Light Truck 3,751- 5,750 Med Truck 5,751- 8,500 Lite-Heavy 8,501-10,000 Lite-Heavy 10,001-14,000 Med-Heavy 14,001-33,000 | 15.50 6.80 1.00 0.30 | Non-Catalyst 2.30 4.00 1.90 1.50 0.00 0.00 | Catalyst 97.10 93.40 96.80 95.60 80.00 66.70 20.00 | Diesel 0.60 2.60 1.30 2.90 20.00 33.30 70.00 |
|--|-------------------------------|--|---|---|
| Heavy-Heavy 33,001-60,00 | | 0.00 | 12.50 | 87.50 |
| Line Haul > 60,000 lb | | 0.00 | 0.00 | 100.00 |
| Urban Bus | | 0.00 | 0.00 | 100.00 |
| Motorcycle | | 87.50 | 12.50 | 0.00 |
| School Bus | | 0.00 | 0.00 | 100.00 |
| Motor Home | | 14.30 | 78.60 | 7.10 |

| | Residential | | Commercial | | | |
|---------------|---------------|----------------|------------|-------------------|--|--|
| Home- Work | Home- Shop | Home- Other | Commute | Non-Work Customer | | |

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| Urban Trip Length (mile | s) 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
|-------------------------|----------|------|------|------|------|------|
| Rural Trip Length (mile | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residentia | | 37.0 | 43.0 | | | |
| % of Trips - Commercial | (by land | use) | | | | |
| Car Trailer Parking | - | | | 2.0 | 1.0 | 97.0 |
| Youth and Group Facilit | y | | | 5.0 | 2.5 | 92.5 |
| Yacht Clubs | • | | | 5.0 | 2.5 | 92.5 |
| Harbor Patrol Building | | | | 5.0 | 2.5 | 92.5 |
| Beach House Restaurant | | | | 8.0 | 4.0 | 88.0 |
| Hotel | | | | 5.0 | 2.5 | 92.5 |
| Boat Slips | | | | 5.0 | 2.5 | 92.5 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Other BSBs | | | | 2.0 | 1.0 | 97.0 |
| Boat SErvice Building | | | | 2.0 | 1.0 | 97.0 |
| County Maintenance Yard | Office | | | 50.0 | 25.0 | 25.0 |
| BSB - Yacht Brokerage | 011100 | | | 90.0 | 5.0 | 5.0 |
| Boat Yard Building | | | | 41.5 | 20.8 | 37.8 |
| BSB - NUMBER X | | | | 48.0 | 24.0 | 28.0 |
| | | | | | | |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb
Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES | (Summer | Pounds per | Day, Unmi | tigated) | |
|--------------------------------|---------|------------|-----------|----------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 2.83 | 39.02 | 32.78 | 0 | 0.07 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 1.87 | 0.07 | 11.71 | 0.00 | 0.04 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 0.00 | - | - | - | - |
| TOTALS(lbs/day,unmitigated) | 4.70 | 39.09 | 44.48 | 0.00 | 0.11 |

UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|--------|--------|----------|------|--------|
| Car Trailer Parking | 10.68 | 9.17 | 86.36 | 0.07 | 7.28 |
| Youth and Group Facility | 1.77 | 2.17 | 20.61 | 0.02 | 1.67 |
| Yacht Clubs | 2.37 | 2.60 | 24.94 | 0.02 | 1.92 |
| Harbor Patrol Building | 0.47 | 0.47 | 4.50 | 0.00 | 0.35 |
| Beach House Restaurant | 5.53 | 6.52 | 62.88 | 0.05 | 4.84 |
| Hotel | 9.37 | 9.60 | 91.62 | 0.08 | 7.28 |
| Boat Slips | 80.27 | 58.33 | 556.88 | 0.46 | 44.25 |
| Retail/Restaurant | 6.95 | 7.66 | 73.38 | 0.06 | 5.53 |
| Retail/Restaurant | 37.11 | 42.36 | 406.03 | 0.32 | 30.61 |
| Other BSBs | 1.70 | 1.61 | 15.42 | 0.01 | 1.16 |
| Boat SErvice Building | 0.22 | 0.27 | 2.54 | 0.00 | 0.21 |
| County Maintenance Yard O | 0.20 | 0.25 | 2.46 | 0.00 | 0.20 |
| BSB - Yacht Brokerage | 0.27 | 0.36 | 3.56 | 0.00 | 0.30 |
| Boat Yard Building | 0.74 | 0.95 | 9.31 | 0.01 | 0.77 |
| BSB - NUMBER X | 0.28 | 0.36 | 3.57 | 0.00 | 0.30 |
| TOTAL EMISSIONS (lbs/day) | 157.94 | 142.66 | 1,364.06 | 1.10 | 106.67 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| | | | | No. | Total |
|---------------------------|---------|--------|--------------------|----------|----------|
| Unit Type | Acreage | Trip | Rate | Units | Trips |
| Car Trailer Parking | | 2.96 | trips/Spaces | 313.00 | 926.48 |
| Youth and Group Facility | | 22.88 | trips/acres | 11.00 | 251.68 |
| Yacht Clubs | | 22.88 | trips/1000 sq. ft. | 16.00 | |
| Harbor Patrol Building | | 11.01 | trips/1000 sq. ft. | 6.00 | 66.06 |
| Beach House Restaurant | | 89.95 | trips/1000 sq. ft. | 10.00 | 899.50 |
| Hotel | | 8.92 | trips/rooms | | 1,213.12 |
| Boat Slips | | 2.96 | trips/Boat Berths | 2,491.00 | |
| Retail/Restaurant | | 44.32 | trips/1000 sq. ft. | 26.60 | 1,178.91 |
| Retail/Restaurant | | 127.15 | trips/1000 sq. ft. | 51.30 | 6,522.80 |
| Other BSBs | | 11.01 | trips/1000 sq. ft. | 22.50 | 247.73 |
| Boat SErvice Building | | 11.01 | trips/1000 sq. ft. | 2.50 | 27.53 |
| County Maintenance Yard O | | 11.01 | trips/1000 sq. ft. | 1.80 | 19.82 |
| BSB - Yacht Brokerage | | | trips/1000 sq. ft. | 2.00 | 22.02 |
| Boat Yard Building | | 15.86 | trips/1000 sq. ft. | 5.00 | 79.30 |
| BSB - NUMBER X | | 11.01 | trips/1000 sq. ft. | 2.50 | 27.53 |
| | | | | | |

19,221.90 70,184.43 Sum of Total Trips Total Vehicle Miles Traveled

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type Light Auto Light Truck < 3,750 lb Light Truck 3,751- 5,75 Med Truck 5,751- 8,50 Lite-Heavy 8,501-10,00 Lite-Heavy 10,001-14,00 Med-Heavy 14,001-33,00 | 15.50 0 6.80 0 1.00 0 0.30 | Non-Catalyst 2.30 4.00 1.90 1.50 0.00 0.00 | Catalyst 97.10 93.40 96.80 95.60 80.00 66.70 20.00 | Diesel 0.60 2.60 1.30 2.90 20.00 33.30 70.00 |
|--|-------------------------------------|--|---|---|
| Heavy-Heavy 33,001-60,00 | 0.80 | 0.00 | 12.50 | 87.50 |
| Line Haul > 60,000 lb Urban Bus | 0.00 0.10 | 0.00 | 0.00 | 100.00 |
| Motorcycle School Bus Motor Home | 1.60 0.30 1.40 | 87.50 0.00 14.30 | 12.50 0.00 78.60 | 0.00 100.00 7.10 |

Travel Conditions

| Residential | | | Commercial | | | |
|-------------|-----------|---------------|----------------|---------|----------|----------|
| Ho: | me- rk | Home- Shop | Home- Other | Commute | Non-Work | Customer |

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| Rural Trip Length (miles) 11.5 Trip Speeds (mph) 35.0 | 4.9 6.0 4.9 6.0 0.0 40.0 7.0 43.0 | 10.3 10.3 40.0 | | 5.5 5.5 40.0 |
|--|---|----------------------|------|--------------------|
| % of Trips - Commercial (by land use) Car Trailer Parking | | 2.0 | 1.0 | 97.0 |
| Youth and Group Facility | | 5.0 | 2.5 | 92.5 |
| Yacht Clubs | | 5.0 | 2.5 | 92.5 |
| Harbor Patrol Building | | 5.0 | 2.5 | |
| Beach House Restaurant | | 8.0 | 4.0 | 88.0 |
| Hotel | | 5.0 | 2.5 | 92.5 |
| Boat Slips | | 5.0 | 2.5 | 92.5 |
| Retail/Restaurant | | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | 2.0 | 1.0 | 97.0 |
| Other BSBs | | 2.0 | 1.0 | 97.0 |
| Boat SErvice Building | | 2.0 | 1.0 | 97.0 |
| County Maintenance Yard Office | | 50.0 | 25.0 | 25.0 |
| BSB - Yacht Brokerage | | 90.0 | 5.0 | 5.0 |
| Boat Yard Building | | 41.5 | 20.8 | 37.8 |
| BSB - NUMBER X | | 48.0 | 24.0 | 28.0 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor.urb File Name:

Project Name: Dana Point Harbor - Existing Harbor
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMA | ATES /Tone no | . Vear | Unmitigated) | | |
|-----------------------------|---------------|--------|--------------|------|------|
| Source EMISSION ESTIMA | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.52 | 7.12 | 5.98 | 0.00 | 0.01 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.17 | 0.01 | 1.05 | 0.00 | 0.00 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 0.00 | _ | - | - | - |
| TOTALS (tpy, unmitigated) | 0.69 | 7.13 | 7.04 | 0.00 | 0.02 |

UNMITIGATED OPERATIONAL EMISSIONS

| ROG | NOx | CO | SO2 | |
|-------|---|--------|------|-------|
| | | • | 502 | PM10 |
| 1.80 | 1.96 | 16.77 | 0.01 | 1.33 |
| 0.35 | 0.46 | 4.03 | 0.00 | 0.31 |
| 0.46 | 0.55 | 4.95 | 0.00 | 0.35 |
| 0.09 | 0.10 | 0.89 | 0.00 | 0.06 |
| 1.11 | 1.39 | 12.43 | 0.01 | 0.88 |
| 1.75 | 2.04 | 18.03 | 0.01 | 1.33 |
| 13.46 | 12.41 | 109.57 | 0.08 | 8.07 |
| 1.39 | 1.63 | 14.67 | 0.01 | 1.01 |
| 7.52 | 8.99 | 81.19 | 0.06 | 5.59 |
| 0.32 | 0.34 | 3.08 | 0.00 | 0.21 |
| 0.04 | 0.06 | 0.49 | 0.00 | 0.04 |
| 0.04 | 0.05 | 0.47 | 0.00 | 0.04 |
| 0.05 | 0.08 | 0.67 | 0.00 | 0.05 |
| 0.14 | 0.20 | 1.77 | 0.00 | 0.14 |
| 0.05 | 0.08 | 0.68 | 0.00 | 0.05 |
| 28.58 | 30.34 | 269.70 | 0.20 | 19.47 |
| | 0.35 0.46 0.09 1.11 1.75 13.46 1.39 7.52 0.32 0.04 0.04 0.05 | 0.35 | 0.35 | 0.35 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| | | | | No. | Total |
|---------------------------|---------|--------|--------------------|--------|----------|
| Unit Type | Acreage | Trip | Rate | Units | Trips |
| Car Trailer Parking | | 2.96 | trips/Spaces | 313.00 | 926.48 |
| Youth and Group Facility | | 22.88 | trips/acres | 11.00 | 251.68 |
| Yacht Clubs | | 22.88 | trips/1000 sq. ft. | 16.00 | 366.08 |
| Harbor Patrol Building | | 11.01 | trips/1000 sq. ft. | 6.00 | 66.06 |
| Beach House Restaurant | | 89.95 | trips/1000 sq. ft. | | 899.50 |
| Hotel | | 8.92 | trips/rooms | | 1,213.12 |
| Boat Slips | | 2.96 | trips/Boat Berths | | 7,373.36 |
| Retail/Restaurant | | 44.32 | trips/1000 sq. ft. | 26.60 | 1,178.91 |
| Retail/Restaurant | | 127.15 | trips/1000 sq. ft. | 51.30 | 6,522.80 |
| Other BSBs | | 11.01 | trips/1000 sq. ft. | 22.50 | 247.73 |
| Boat SErvice Building | | 11.01 | trips/1000 sq. ft. | 2.50 | 27.53 |
| County Maintenance Yard O | | 11.01 | trips/1000 sq. ft. | 1.80 | 19.82 |
| BSB - Yacht Brokerage | | 11.01 | trips/1000 sq. ft. | 2.00 | 22.02 |
| Boat Yard Building | | 15.86 | trips/1000 sq. ft. | 5.00 | 79.30 |
| BSB - NUMBER X | | 11.01 | trips/1000 sq. ft. | 2.50 | 27.53 |
| | | | | | |

Sum of Total Trips 19,221.90
Total Vehicle Miles Traveled 70,184.43

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type Light Auto Light Truck < 3,750 lb. Light Truck 3,751- 5,751 Med Truck 5,751- 8,501 Lite-Heavy 8,501-10,000 | 15.50 6.80 1.00 | Non-Catalyst 2.30 4.00 1.90 1.50 0.00 | Catalyst 97.10 93.40 96.80 95.60 80.00 | Diesel 0.60 2.60 1.30 2.90 20.00 |
|--|-----------------------|--|---|---|
| Lite-Heavy 10,001-14,00 | 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 10.00 | 20.00 | 70.00 |
| Heavy-Heavy 33,001-60,00 | | 0.00 | 12.50 | 87.50 |
| Line Haul > 60,000 lb. | s 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- | Home- | Home- | | |
| Work | Shop | Other | Commute | Non-Work Customer |

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| Urban Trip Length (miles) 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 5.5 |
|----------------------------------|------|------|------|------|------------|
| Rural Trip Length (miles) 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | |
| Trip Speeds (mph) 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (by land | use) | | | | |
| Car Trailer Parking | | | 2.0 | 1.0 | 97.0 |
| Youth and Group Facility | | | 5.0 | 2.5 | 92.5 |
| Yacht Clubs | | | 5.0 | 2.5 | 92.5 |
| Harbor Patrol Building | | | 5.0 | 2.5 | 92.5 |
| Beach House Restaurant | | | 8.0 | 4.0 | 88.0 |
| Hotel | | | 5.0 | 2.5 | 92.5 |
| Boat Slips | | | 5.0 | 2.5 | 92.5 |
| Retail/Restaurant | | | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | 2.0 | 1.0 | 97.0 |
| Other BSBs | | | 2.0 | 1.0 | 97.0 |
| Boat SErvice Building | | | 2.0 | 1.0 | 97.0 |
| County Maintenance Yard Office | | | 50.0 | 25.0 | 25.0 |
| BSB - Yacht Brokerage | | | 90.0 | 5.0 | 5.0 |
| Boat Yard Building | | | 41.5 | 20.8 | 37.8 |
| BSB - NUMBER X | | | 48.0 | 24.0 | 28.0 |
| DOD HOLDEN II | | | | | |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | |
|--|-----------|-------|--------|------|-------|--|--|--|--|
| | ROG | NOx | CO | SO2 | PM10 | | | | |
| TOTALS (lbs/day,unmitigated) | 1.16 | 4.01 | 8.80 | 0.00 | 0.03 | | | | |
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES | | | | | | | | |
| (, | ROG | NOx | CO | SO2 | PM10 | | | | |
| TOTALS (lbs/day,unmitigated) | 56.18 | 61.01 | 583.63 | 0.46 | 44.91 | | | | |
| SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES | | | | | | | | | |
| | ROG | NOx | CO | SO2 | PM10 | | | | |
| TOTALS (lbs/day,unmitigated) | 57.34 | 65.02 | 592.43 | 0.47 | 44.93 | | | | |

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES | | | | | |
|---------------------------------|-------------|-------|--------|------|-------|
| | ROG | NOx | CO | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 0.29 | 3.97 | 3.34 | 0.00 | 0.01 |
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES | | | | |
| | ROG | NOx | CO | SO2 | PM10 |
| | | | | | |
| TOTALS (lbs/day,unmitigated) | 68.34 | 91.11 | 740.13 | 0.45 | 44.91 |
| SUM OF AREA AND OPERATIONAL EMI | SSION ESTIM | IATES | | | |
| | ROG | NOx | CO | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 68.63 | 95.08 | 743.47 | 0.45 | 44.91 |

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMATES TOTALS (tpy, unmitigated) | ROG 0.13 | NOx 0.73 | CO 1.10 | SO2 0.00 | PM10 0.00 |
|--|------------------------|---------------------------|--------------|-------------|--------------|
| OPERATIONAL (VEHICLE) EMISSION TOTALS (tpy, unmitigated) | ESTIMA ROG 10.99 | NOX 12.97 | CO 116.03 | SO2 0.08 | PM10 8.20 |
| SUM OF AREA AND OPERATIONAL EM | ROG 11.12 | ESTIMATES NOx 13.69 | CO 117.13 | SO2 0.08 | PM10 8.20 |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES | (Winter | Pounds per | Day, Unmit | igated) | |
|--------------------------------|---------|------------|------------|---------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.29 | 3.97 | 3.34 | 0 | 0.01 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping - No winter emissi | ions | | | | |
| Consumer Prdcts | 0.00 | - | _ | - | - |
| Architectural Coatings | 0.00 | _ | - | - | _ |
| TOTALS (lbs/day, unmitigated) | 0.29 | 3.97 | 3.34 | 0.00 | 0.01 |

UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Car Trailer Parking | 8.31 | 13.80 | 103.00 | 0.07 | 7.28 |
| Retail/Restaurant | 49.47 | 63.13 | 522.52 | 0.31 | 30.61 |
| Retail/Restaurant | 8.94 | 11.41 | 94.44 | 0.06 | 5.53 |
| Boat SErvice Building | 0.25 | 0.41 | 3.03 | 0.00 | 0.21 |
| County Maintenance Yard O | 0.22 | 0.38 | 2.75 | 0.00 | 0.20 |
| BSB - Yacht Brokerage | 0.30 | 0.54 | 3.85 | 0.00 | 0.30 |
| Boat Yard Building | 0.85 | 1.43 | 10.53 | 0.01 | 0.77 |
| TOTAL EMISSIONS (lbs/day) | 68.34 | 91.11 | 740.13 | 0.45 | 44.91 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | | No. Units | Total Trips |
|--|---------|--|---|--------------------------|-------------------|--------------|--|
| Car Trailer Parking Retail/Restaurant Retail/Restaurant Boat SErvice Building County Maintenance Yard O BSB - Yacht Brokerage Boat Yard Building | | 127.15 44.32 11.01 11.01 11.01 | trips/Space trips/1000 trips/1000 trips/1000 trips/1000 trips/1000 trips/1000 | sq. sq. sq. sq. | ft. ft. ft. | | 926.48 6,522.80 1,178.91 27.53 19.82 22.02 79.30 |
| | | | | | | | |

Sum of Total Trips Total Vehicle Miles Traveled 8,776.85 29,540.83

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type Light Auto Light Truck < 3,750 lb Light Truck 3,751- 5,75 Med Truck 5,751- 8,50 Lite-Heavy 8,501-10,00 Lite-Heavy 10,001-14,00 Med-Heavy 14,001-33,00 Heavy-Heavy 33,001-60,00 | 0 15.50 0 6.80 0 1.00 0 0.30 0 1.00 0 0.80 | Non-Catalyst 2.30 4.00 1.90 1.50 0.00 0.00 | Catalyst 97.10 93.40 96.80 95.60 80.00 66.70 20.00 | Diesel 0.60 2.60 1.30 2.90 20.00 33.30 70.00 87.50 |
|---|---|--|---|--|
| | • | * | | |
| Lite-Heavy 10,001-14,00 | 0 0.30 | 0.00 | | |
| Med-Heavy 14,001-33,00 | 0 1.00 | 10.00 | 20.00 | |
| Heavy-Heavy 33,001-60,00 | 0 0.80 | 0.00 | 12.50 | 87.50 |
| Line Haul > 60,000 lb | s 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 |
|--------|------------|
| | |

| Travel Conditions | Residential | | Commercial | | |
|---|---|--|--|---|---|
| Urban Trip Length (miles) Rural Trip Length (miles) Trip Speeds (mph) % of Trips - Residential | Home- Shop 4.9 4.9 40.0 37.0 | Home- Other 6.0 6.0 40.0 43.0 | Commute 10.3 10.3 40.0 | Non-Work 5.5 5.5 40.0 | Customer 5.5 5.5 40.0 |
| % of Trips - Commercial (Car Trailer Parking Retail/Restaurant Retail/Restaurant Boat SErvice Building County Maintenance Yard C BSB - Yacht Brokerage Boat Yard Building | use) | | 2.0 2.0 2.0 2.0 50.0 90.0 41.5 | 1.0 1.0 1.0 1.0 25.0 5.0 | 97.0 97.0 97.0 97.0 25.0 5.0 37.8 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core.urb
Project Name: Dana Point Harbor - Existing Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMATES | (Tons per | Year, | Unmitigated) | | |
|--------------------------------|-----------|-------|--------------|------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.05 | 0.73 | 0.61 | 0.00 | 0.00 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.08 | 0.00 | 0.49 | 0.00 | 0.00 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 0.00 | - | - | - | - |
| TOTALS (tpy, unmitigated) | 0.13 | 0.73 | 1.10 | 0.00 | 0.00 |

UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|------|
| Car Trailer Parking | 1.80 | 1.96 | 16.77 | 0.01 | 1.33 |
| Retail/Restaurant | 7.52 | 8.99 | 81.19 | 0.06 | 5.59 |
| Retail/Restaurant | 1.39 | 1.63 | 14.67 | 0.01 | 1.01 |
| Boat SErvice Building | 0.04 | 0.06 | 0.49 | 0.00 | 0.04 |
| County Maintenance Yard O | 0.04 | 0.05 | 0.47 | 0.00 | 0.04 |
| BSB - Yacht Brokerage | 0.05 | 0.08 | 0.67 | 0.00 | 0.05 |
| Boat Yard Building | 0.14 | 0.20 | 1.77 | 0.00 | 0.14 |
| TOTAL EMISSIONS (tons/yr) | 10.99 | 12.97 | 116.03 | 0.08 | 8.20 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2005

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | | No. Units | Total Trips |
|-------------------------|---------|--------|-------------|-----|-----|--------------|----------------|
| Car Trailer Parking | | | trips/Space | | | 313.00 | 926.48 |
| Retail/Restaurant | | 127.15 | trips/1000 | sq. | ft. | | 6,522.80 |
| Retail/Restaurant | | 44.32 | trips/1000 | sq. | ft. | 26.60 | 1,178.91 |
| Boat SErvice Building | | 11.01 | trips/1000 | sq. | ft. | 2.50 | 27.53 |
| County Maintenance Yard | 0 | | trips/1000 | | | 1.80 | 19.82 |
| BSB - Yacht Brokerage | • | | trips/1000 | | | 2.00 | 22.02 |
| Boat Yard Building | | | trips/1000 | | | 5.00 | 79.30 |

Sum of Total Trips 8,776.85
Total Vehicle Miles Traveled 29,540.83

Vehicle Assumptions:

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 | s 15.10 | 4.00 | 93.40 | 2.60 |
| Light Truck 3,751- 5,75 | 15.50 | 1.90 | 96.80 | 1.30 |
| Med Truck 5,751-8,50 | | 1.50 | 95.60 | 2.90 |
| Lite-Heavy 8,501-10,000 | | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,000 | | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 10.00 | 20.00 | 70.00 |
| Heavy-Heavy 33,001-60,00 | | 0.00 | 12.50 | 87.50 |
| Line Haul > 60,000 lb | | 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 | |
| Urban Trip Length (miles) Rural Trip Length (miles) Trip Speeds (mph) % of Trips - Residential | Home- Shop 4.9 4.9 40.0 37.0 | Home- Other 6.0 6.0 40.0 43.0 | Commute 10.3 10.3 40.0 | Non-Work 5.5 5.5 40.0 | Customer 5.5 5.5 40.0 |
| % of Trips - Commercial (Car Trailer Parking Retail/Restaurant Retail/Restaurant Boat SErvice Building County Maintenance Yard CBSB - Yacht Brokerage Boat Yard Building | use) | | 2.0 2.0 2.0 2.0 50.0 90.0 41.5 | 1.0 1.0 1.0 1.0 25.0 5.0 | 97.0 97.0 97.0 97.0 25.0 5.0 37.8 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES | | | | | | | | | |
|--|-----------|-------|--------|-------|-------|--|--|--|--|
| | ROG | NOx | CO | SO2 | PM10 | | | | |
| TOTALS (lbs/day,unmitigated) | 0.92 | 4.04 | 7.76 | 0.00 | 0.02 | | | | |
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES | | | | | | | | |
| | ROG | NOx | CO | SO2 | PM10 | | | | |
| | | | | 2 2 2 | | | | | |
| TOTALS (lbs/day,unmitigated) | 39.15 | 42.05 | 394.00 | 0.26 | 44.82 | | | | |
| SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES | | | | | | | | | |
| | ROG | NOx | CO | SO2 | PM10 | | | | |
| TOTALS (lbs/day,unmitigated) | 40.06 | 46.09 | 401.76 | 0.26 | 44.84 | | | | |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES TOTALS (lbs/day,unmitigated) | ROG 0.29 | NOx 3.97 | CO 3.34 | SO2 0.00 | PM10 0.01 |
|--|------------------|-----------------------|--------------|-------------|---------------|
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES ROG | NOx | CO | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 46.21 | 62.26 | 499.94 | 0.24 | 44.82 |
| SUM OF AREA AND OPERATIONAL EMPTOTALS (lbs/day,unmitigated) | ROG 46.50 | MATES NOx 66.24 | CO 503.28 | SO2 0.24 | PM10 44.83 |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMATES TOTALS (tpy, unmitigated) | ROG 0.11 | NOx 0.73 | CO 1.01 | SO2 0.00 | PM10 0.00 |
|---|-----------------------|--------------------------|-------------|-------------|--------------|
| OPERATIONAL (VEHICLE) EMISSION TOTALS (tpy, unmitigated) | ESTIMA ROG 7.57 | NOX 8.90 | CO 78.35 | SO2 0.05 | PM10 8.18 |
| SUM OF AREA AND OPERATIONAL EM TOTALS (tpy, unmitigated) | ISSION ROG 7.68 | ESTIMATES NOX 9.64 | CO 79.36 | SO2 0.05 | PM10 8.18 |

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES | (Winter | Pounds per | Day, Unmit | igated) | |
|--------------------------------|---------|------------|------------|---------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.29 | 3.97 | 3.34 | 0 | 0.01 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping - No winter emissi | ons | | | | |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 0.00 | - | - | - | _ |
| TOTALS (lbs/day, unmitigated) | 0.29 | 3.97 | 3.34 | 0.00 | 0.01 |

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Car Trailer Parking | 5.57 | 9.34 | 68.82 | 0.04 | 7.27 |
| Retail/Restaurant | 33.50 | 43.25 | 353.74 | 0.16 | 30.55 |
| Retail/Restaurant | 6.06 | 7.82 | 63.93 | 0.03 | 5.52 |
| Boat SErvice Building | 0.16 | 0.27 | 2.03 | 0.00 | 0.21 |
| County Maintenance Yard O | 0.15 | 0.25 | 1.83 | 0.00 | 0.20 |
| BSB - Yacht Brokerage | 0.20 | 0.37 | 2.56 | 0.00 | 0.30 |
| Boat Yard Building | 0.57 | 0.97 | 7.03 | 0.00 | 0.77 |
| TOTAL EMISSIONS (lbs/day) | 46.21 | 62.26 | 499.94 | 0.24 | 44.82 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | No. Units | Total Trips |
|---------------------------|---------|--------|----------------|-----|--------------|----------------|
| Car Trailer Parking | | 2.96 | trips/Spaces | | 313.00 | 926.48 |
| Retail/Restaurant | | 127.15 | trips/1000 sq. | ft. | 51.30 | 6,522.80 |
| Retail/Restaurant | | 44.32 | trips/1000 sq. | ft. | 26.60 | 1,178.91 |
| Boat SErvice Building | | 11.01 | trips/1000 sq. | ft. | 2.50 | 27.53 |
| County Maintenance Yard C |) | 11.01 | trips/1000 sq. | ft. | 1.80 | 19.82 |
| BSB - Yacht Brokerage | | 11.01 | trips/1000 sq. | ft. | 2.00 | 22.02 |
| Boat Yard Building | | | trips/1000 sq. | | 5.00 | 79.30 |

Sum of Total Trips 8,776.85
Total Vehicle Miles Traveled 29,540.83

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 54.70 | 1.10 | 98.70 | 0.20 |
| Light Truck < 3,750 lb | s 15.20 | 2.00 | 96.00 | 2.00 |
| Light Truck 3,751- 5,75 | 0 16.20 | 1.20 | 98.10 | 0.70 |
| Med Truck 5,751-8,50 | 0 7.30 | 1.40 | 95.90 | 2.70 |
| Lite-Heavy 8,501-10,00 | 0 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,00 | 0 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,00 | 0 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lb | s 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.60 | 68.80 | 31.20 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.40 | 7.10 | 85.70 | 7.20 |

| | Residential | | | Commercial | | |
|--|-------------|-------|-------|--|--|---|
| | Home- | Home- | Home- | 0 | Non Monle | Customer |
| | Work | Shop | Other | Commute | | |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (Car Trailer Parking Retail/Restaurant Retail/Restaurant Boat SErvice Building County Maintenance Yard CBSB - Yacht Brokerage Boat Yard Building | - | use) | | 2.0 2.0 2.0 2.0 50.0 90.0 41.5 | 1.0 1.0 1.0 25.0 5.0 20.8 | 97.0 97.0 97.0 97.0 25.0 5.0 37.8 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off. The landscape year changed from 2005 to 2010.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES | (Summer | Pounds per | Day, Unmi | tigated) | |
|--------------------------------|---------|------------|-----------|----------|------|
| Source | ROG | NOx | CO | S02 | PM10 |
| Natural Gas | 0.29 | 3.97 | 3.34 | 0 | 0.01 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 0.63 | 0.07 | 4.42 | 0.00 | 0.01 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 0.00 | _ | - | _ | - |
| TOTALS(lbs/day,unmitigated) | 0.92 | 4.04 | 7.76 | 0.00 | 0.02 |

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Car Trailer Parking | 7.75 | 6.25 | 57.96 | 0.04 | 7.27 |
| Retail/Restaurant | 25.60 | 29.27 | 274.42 | 0.18 | 30.55 |
| Retail/Restaurant | 4.82 | 5.29 | 49.60 | 0.03 | 5.52 |
| Boat SErvice Building | 0.15 | 0.18 | 1.70 | 0.00 | 0.21 |
| County Maintenance Yard O | 0.14 | 0.17 | 1.65 | 0.00 | 0.20 |
| BSB - Yacht Brokerage | 0.18 | 0.24 | 2.39 | 0.00 | 0.30 |
| Boat Yard Building | 0.51 | 0.64 | 6.27 | 0.00 | 0.77 |
| TOTAL EMISSIONS (lbs/day) | 39.15 | 42.05 | 394.00 | 0.26 | 44.82 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | No. Units | Total Trips |
|--|---------|--|--|--------------------------|--------------|--|
| Car Trailer Parking Retail/Restaurant Retail/Restaurant Boat SErvice Building County Maintenance Yard C BSB - Yacht Brokerage Boat Yard Building |) | 127.15 44.32 11.01 11.01 11.01 | trips/Spaces trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. | ft. ft. ft. ft. | | 926.48 6,522.80 1,178.91 27.53 19.82 22.02 79.30 |

Sum of Total Trips 8,776.85
Total Vehicle Miles Traveled 29,540.83

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 54.70 | 1.10 | 98.70 | 0.20 |
| Light Truck < 3,750 lb | s 15.20 | 2.00 | 96.00 | 2.00 |
| Light Truck 3,751- 5,75 | 0 16.20 | 1.20 | 98.10 | 0.70 |
| Med Truck 5,751- 8,50 | 0 7.30 | 1.40 | 95.90 | 2.70 |
| Lite-Heavy 8,501-10,00 | 0 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,00 | 0 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | 0 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,00 | 0 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lb | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.60 | 68.80 | 31.20 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.40 | 7.10 | 85.70 | 7.20 |

| | Residential | | | Commercial | | |
|---|-------------|-------|-------|--|----------------------------------|---|
| | Home- | Home- | Home- | | | |
| | Work | Shop | Other | Commute | | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (Car Trailer Parking Retail/Restaurant Retail/Restaurant Boat SErvice Building County Maintenance Yard O BSB - Yacht Brokerage | | use) | | 2.0 2.0 2.0 2.0 50.0 90.0 | 1.0 1.0 1.0 1.0 25.0 | 97.0 97.0 97.0 97.0 25.0 5.0 |
| Boat Yard Building | | | | 41.5 | 20.8 | 37.8 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off. The landscape year changed from 2005 to 2010.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
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The operational winter temperature changed from 50 to 40.
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The operational summer temperature changed from 90 to 85.
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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Commercial Core 2012.urb
Project Name: Dana Point Harbor - Existing Commercial Core 2012
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

| (Tons per | Year, | Unmitigated) | | |
|-----------|-------------------------------------|--|--|--|
| ROG | NOx | CO | SO2 | PM10 |
| 0.05 | 0.73 | 0.61 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.06 | 0.01 | 0.40 | 0.00 | 0.00 |
| 0.00 | - | _ | - | |
| 0.00 | - | ~ | - | - |
| 0.11 | 0.73 | 1.01 | 0.00 | 0.00 |
| | ROG 0.05 0.00 0.06 0.00 | ROG NOX 0.05 0.73 0.00 0.00 0.06 0.01 0.00 - 0.00 - | 0.05 0.73 0.61 0.00 0.00 0.00 0.06 0.01 0.40 0.00 | ROG NOx CO SO2 0.05 0.73 0.61 0.00 0.00 0.00 0.00 0.00 0.06 0.01 0.40 0.00 0.00 - - - 0.00 - - - |

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|------|------|-------|------|------|
| Car Trailer Parking | 1.28 | 1.33 | 11.24 | 0.01 | 1.33 |
| Retail/Restaurant | 5.15 | 6.19 | 54.91 | 0.03 | 5.58 |
| Retail/Restaurant | 0.95 | 1.12 | 9.92 | 0.01 | 1.01 |
| Boat SErvice Building | 0.03 | 0.04 | 0.33 | 0.00 | 0.04 |
| County Maintenance Yard O | 0.03 | 0.04 | 0.31 | 0.00 | 0.04 |
| BSB - Yacht Brokerage | 0.03 | 0.05 | 0.45 | 0.00 | 0.05 |
| Boat Yard Building | 0.10 | 0.14 | 1.19 | 0.00 | 0.14 |
| TOTAL EMISSIONS (tons/yr) | 7.57 | 8.90 | 78.35 | 0.05 | 8.18 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | | No. Units | Total Trips |
|-------------------------|---------|--------|-------------|-----|-----|--------------|----------------|
| Car Trailer Parking | | 2.96 | trips/Space | es | | 313.00 | 926.48 |
| Retail/Restaurant | | 127.15 | trips/1000 | sq. | ft. | 51.30 | 6,522.80 |
| Retail/Restaurant | | 44.32 | trips/1000 | sq. | ft. | 26.60 | 1,178.91 |
| Boat SErvice Building | | 11.01 | trips/1000 | sq. | ft. | 2.50 | 27.53 |
| County Maintenance Yard | 0 | 11.01 | trips/1000 | sq. | ft. | 1.80 | 19.82 |
| BSB - Yacht Brokerage | | 11.01 | trips/1000 | sq. | ft. | 2.00 | 22.02 |
| Boat Yard Building | | | trips/1000 | | | 5.00 | 79.30 |

Sum of Total Trips Total Vehicle Miles Traveled 8,776.85 29,540.83

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 54.70 | 1.10 | 98.70 | 0.20 |
| Light Truck < 3,750 lbs | 15.20 | 2.00 | 96.00 | 2.00 |
| Light Truck 3,751- 5,750 | 16.20 | 1.20 | 98.10 | 0.70 |
| Med Truck 5,751-8,500 | 7.30 | 1.40 | 95.90 | 2.70 |
| Lite-Heavy 8,501-10,000 | 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,00 | 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,00 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lb: | s 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.60 | 68.80 | 31.20 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.40 | 7.10 | 85.70 | 7.20 |

| | Residential | | | Commercial | | |
|---------------------------|-------------|-------|-------|------------|----------|----------|
| | Home- | Home- | Home- | | | |
| | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (| by land | use) | | | | |
| Car Trailer Parking | | | | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Boat SErvice Building | | | | 2.0 | 1.0 | 97.0 |
| County Maintenance Yard O | ffice | | | 50.0 | 25.0 | 25.0 |
| BSB - Yacht Brokerage | | | | 90.0 | 5.0 | 5.0 |
| Boat Yard Building | | | | 41.5 | 20.8 | 37.8 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off. The landscape year changed from 2005 to 2010.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational emission year changed from 2005 to 2010. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 2030
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES TOTALS (lbs/day,unmitigated) | ROG 24.53 | NOx 38.93 | CO 41.43 | SO2 0.00 | PM10 0.09 |
|--|-----------------------------|-----------------------|--------------|-------------|----------------|
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES ROG | NOx | СО | S02 | PM10 |
| TOTALS (lbs/day,unmitigated) | 34.44 | 21.59 | 232.64 | 0.62 | 107.56 |
| SUM OF AREA AND OPERATIONAL EMITOTALS (lbs/day,unmitigated) | SSION ESTIN ROG 58.98 | MATES NOX 60.52 | CO 274.06 | SO2 0.62 | PM10 107.65 |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 2030
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES TOTALS (lbs/day,unmitigated) | ROG 23.27 | NOx 38.80 | CO 32.59 | SO2 0.00 | PM10 0.07 |
|--|------------------------------|-----------------------|--------------|-------------|----------------|
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES ROG | NOx | СО | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 27.20 | 31.65 | 274.54 | 0.56 | 107.56 |
| SUM OF AREA AND OPERATIONAL EMITOTALS (lbs/day,unmitigated) | ISSION ESTIN ROG 50.48 | MATES NOX 70.45 | CO 307.13 | SO2 0.56 | PM10 107.63 |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 2030
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMATES TOTALS (tpy, unmitigated) | ROG 3.33 | NOx 7.09 | CO 6.74 | SO2 0.00 | PM10 0.01 |
|---|-----------------------|---------------------------|-------------|-------------|---------------|
| OPERATIONAL (VEHICLE) EMISSION TOTALS (tpy, unmitigated) | ESTIMA ROG 5.85 | ATES NOx 4.55 | CO 45.01 | SO2 0.11 | PM10 19.63 |
| SUM OF AREA AND OPERATIONAL EM. TOTALS (tpy, unmitigated) | ISSION ROG 9.17 | ESTIMATES NOx 11.65 | CO 51.75 | SO2 0.11 | PM10 19.64 |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 2030
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES | (Winter | Pounds per | Day, Unmiti | .gated) | |
|--------------------------------|---------|------------|-------------|---------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 2.82 | 38.80 | 32.59 | 0 | 0.07 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping - No winter emissi | ons. | | | | |
| Consumer Prdcts | 0.00 | _ | - | _ | - |
| Architectural Coatings | 20.46 | _ | - | - | - |
| TOTALS (lbs/day, unmitigated) | 23.27 | 38.80 | 32.59 | 0.00 | 0.07 |

| | ROG | NOx | co | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|--------|
| Car Trailer Parking | 1.44 | 1.99 | 16.19 | 0.04 | 7.24 |
| Youth and Group Facility | 0.37 | 0.47 | 3.97 | 0.01 | 1.66 |
| Yacht Clubs | 0.51 | 0.57 | 5.03 | 0.01 | 1.91 |
| Harbor Patrol Building | 0.09 | 0.10 | 0.91 | 0.00 | 0.34 |
| Beach House Restaurant | 1.27 | 1.43 | 12.58 | 0.03 | 4.81 |
| Hotel | 1.75 | 2.10 | 17.99 | 0.04 | 7.24 |
| Boat Slips | 10.63 | 12.75 | 109.35 | 0.23 | 43.99 |
| Retail/Restaurant | 1.57 | 1.69 | 15.17 | 0.03 | 5.50 |
| Retail/Restaurant | 8.71 | 9.36 | 83.93 | 0.16 | 30.43 |
| Boat SErvice Building | 0.04 | 0.06 | 0.48 | 0.00 | 0.21 |
| County Maintenance Yard O | 0.04 | 0.05 | 0.43 | 0.00 | 0.20 |
| BSB - Yacht Brokerage | 0.05 | 0.08 | 0.60 | 0.00 | 0.30 |
| Boat Yard Building | 0.15 | 0.20 | 1.66 | 0.00 | 0.76 |
| BSB - NUMBER X | 0.56 | 0.78 | 6.26 | 0.02 | 2.96 |
| TOTAL EMISSIONS (lbs/day) | 27.20 | 31.65 | 274.54 | 0.56 | 107.56 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| | | | | No. | Total |
|---------------------------|---------|--------|--------------------|----------|----------|
| Unit Type | Acreage | Trip | Rate | Units | Trips |
| Car Trailer Parking | | 2.96 | trips/Spaces | 313.00 | 926.48 |
| Youth and Group Facility | | 22.88 | trips/1000 sq. ft | 11.00 | 251.68 |
| Yacht Clubs | | 22.88 | trips/1000 sq. ft. | 16.00 | 366.08 |
| Harbor Patrol Building | | 11.01 | trips/1000 sq. ft. | 6.00 | 66.06 |
| Beach House Restaurant | | 89.95 | trips/1000 sq. ft. | 10.00 | 899.50 |
| Hotel | | 8.92 | trips/rooms | 136.00 | 1,213.12 |
| Boat Slips | | 2.96 | trips/Boat Berths | 2,491.00 | 7,373.36 |
| Retail/Restaurant | | 44.32 | trips/1000 sq. ft. | 26.60 | 1,178.91 |
| Retail/Restaurant | | 127.15 | trips/1000 sq. ft. | 51.30 | 6,522.80 |
| Boat SErvice Building | | 11.01 | trips/1000 sq. ft. | 2.50 | 27.53 |
| County Maintenance Yard O | | 11.01 | trips/1000 sq. ft. | 1.80 | 19.82 |
| BSB - Yacht Brokerage | | 11.01 | trips/1000 sq. ft. | 2.00 | 22.02 |
| Boat Yard Building | | | trips/1000 sq. ft. | 5.00 | 79.30 |
| BSB - NUMBER X | | 11.01 | trips/1000 sq. ft. | 25.00 | 275.25 |
| | | | | | |

Sum of Total Trips Total Vehicle Miles Traveled 19,221.90 71,184.96

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lk | | 0.00 | 100.00 | 0.00 |
| Elgito li don co, co | | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,75 | | | | 0.00 |
| Med Truck 5,751-8,50 | 0 7.60 | 0.00 | 100.00 | |
| Lite-Heavy 8,501-10,00 | 0 1.00 | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,00 | 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | 0.90 | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,00 | | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lk | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |

| | | | | | Residential | | | Commercial | L |
|-------|---------|-------|---------|-------|-------------|-------|---------|------------|----------|
| | | | | Home- | Home- | Home- | | | |
| | | | | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban | Trip Le | enath | (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| | Trip Le | | | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |

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| Trip Speeds (mph) % of Trips - Residential | 35.0 20.0 | 40.0 37.0 | 40.0 43.0 | 40.0 | 40.0 | 40.0 |
|--|--------------|--------------|--------------|---|---|--|
| % of Trips - Commercial (Car Trailer Parking Youth and Group Facility Yacht Clubs Harbor Patrol Building Beach House Restaurant Hotel Boat Slips Retail/Restaurant Retail/Restaurant Boat SErvice Building | by land | use) | | 2.0 5.0 5.0 5.0 8.0 5.0 2.0 2.0 2.0 | 1.0 2.5 2.5 2.5 4.0 2.5 2.5 1.0 1.0 2.50 | 97.0 92.5 92.5 92.5 88.0 92.5 97.0 97.0 97.0 |
| County Maintenance Yard O BSB - Yacht Brokerage | ffice | | | 90.0 | 5.0 | 5.0 |
| Boat Yard Building BSB - NUMBER X | | | | 41.5 48.0 | 20.8 | 37.8 28.0 |
| DOD - NORDEK A | | | | | | |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 2030
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES Source | (Summer ROG | Pounds per NOx | Day, Unmit | tigated) SO2 | PM10 |
|---|----------------|-------------------|------------|-----------------|------|
| Natural Gas | 2.82 | 38.80 | 32.59 | 0 | 0.07 |
| Hearth - No summer emissions Landscaping | 1.26 | 0.13 | 8.83 | 0.00 | 0.02 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 20.46 | - | - | _ | - |
| TOTALS (lbs/day, unmitigated) | 24.53 | 38.93 | 41.43 | 0.00 | 0.09 |

| | ROG | NOx | co | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|--------|
| Car Trailer Parking | 2.41 | 1.34 | 14.44 | 0.04 | 7.24 |
| Youth and Group Facility | 0.36 | 0.32 | 3.46 | 0.01 | 1.66 |
| Yacht Clubs | 0.48 | 0.39 | 4.21 | 0.01 | 1.91 |
| Harbor Patrol Building | 0.10 | 0.07 | 0.76 | 0.00 | 0.34 |
| Beach House Restaurant | 1.10 | 0.98 | 10.62 | 0.03 | 4.81 |
| Hotel | 1.98 | 1.43 | 15.42 | 0.04 | 7.24 |
| Boat Slips | 18.37 | 8.69 | 93.71 | 0.25 | 43.99 |
| Retail/Restaurant | 1.40 | 1.16 | 12.40 | 0.03 | 5.50 |
| Retail/Restaurant | 7.40 | 6.42 | 68.61 | 0.18 | 30.43 |
| Boat SErvice Building | 0.05 | 0.04 | 0.42 | 0.00 | 0.21 |
| County Maintenance Yard O | 0.04 | 0.04 | 0.41 | 0.00 | 0.20 |
| BSB - Yacht Brokerage | 0.05 | 0.05 | 0.60 | 0.00 | 0.30 |
| Boat Yard Building | 0.15 | 0.14 | 1.57 | 0.00 | 0.76 |
| BSB - NUMBER X | 0.57 | 0.52 | 6.00 | 0.02 | 2.96 |
| TOTAL EMISSIONS (lbs/day) | 34.44 | 21.59 | 232.64 | 0.62 | 107.56 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| | | | | No. | Total |
|---------------------------|---------|--------|--------------------|----------|----------|
| Unit Type | Acreage | Trip | Rate | Units | Trips |
| Car Trailer Parking | | 2.96 | trips/Spaces | 313.00 | 926.48 |
| Youth and Group Facility | | 22.88 | trips/1000 sq. ft | 11.00 | 251.68 |
| Yacht Clubs | | 22.88 | trips/1000 sq. ft. | 16.00 | 366.08 |
| Harbor Patrol Building | | 11.01 | trips/1000 sq. ft. | 6.00 | |
| Beach House Restaurant | | 89.95 | trips/1000 sq. ft. | | 899.50 |
| Hotel | | 8.92 | trips/rooms | | 1,213.12 |
| Boat Slips | | 2.96 | trips/Boat Berths | 2,491.00 | |
| Retail/Restaurant | | 44.32 | trips/1000 sq. ft. | | 1,178.91 |
| Retail/Restaurant | | 127.15 | trips/1000 sq. ft. | 51.30 | 6,522.80 |
| Boat SErvice Building | | 11.01 | trips/1000 sq. ft. | 2.50 | |
| County Maintenance Yard O | | 11.01 | trips/1000 sq. ft. | 1.80 | 19.82 |
| BSB - Yacht Brokerage | | 11.01 | trips/1000 sq. ft. | 2.00 | 22.02 |
| Boat Yard Building | | 15.86 | trips/1000 sq. ft. | 5.00 | |
| BSB - NUMBER X | | 11.01 | trips/1000 sq. ft. | 25.00 | 275.25 |

19,221.90 71,184.96 Sum of Total Trips Total Vehicle Miles Traveled

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lbs | s 15.90 | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,75 | 16.70 | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751- 8,50 | | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10,00 | | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,00 | | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,00 | | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lb | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |

| | | Residential | | | Commercial | | |
|-------------------|---------|-------------|-------|-------|------------|----------|----------|
| | | Home- | Home- | Home- | | | |
| | | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban Trip Length | (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length | (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |

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| Trip Speeds (mph) % of Trips - Residential | 35.0 20.0 | 40.0 37.0 | 40.0 43.0 | 40.0 | 40.0 | 40.0 |
|--|--------------|--------------|--------------|------|------|------|
| % of Trips - Commercial (| by land | use) | | 2.0 | 1.0 | 97.0 |
| Car Trailer Parking Youth and Group Facility | | | | 5.0 | 2.5 | 92.5 |
| Yacht Clubs | | | | 5.0 | 2.5 | 92.5 |
| Harbor Patrol Building | | | | 5.0 | 2.5 | 92.5 |
| Beach House Restaurant | | | | 8.0 | 4.0 | 88.0 |
| Hotel | | | | 5.0 | 2.5 | 92.5 |
| Boat Slips | | | | 5.0 | 2.5 | 92.5 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Boat SErvice Building | | | | 2.0 | 1.0 | 97.0 |
| County Maintenance Yard C | ffice | | | 50.0 | 25.0 | 25.0 |
| BSB - Yacht Brokerage | | | | 90.0 | 5.0 | 5.0 |
| Boat Yard Building | | | | 41.5 | 20.8 | 37.8 |
| BSB - NUMBER X | | | | 48.0 | 24.0 | 28.0 |
| | | | | | | |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational emission year changed from 2005 to 2030. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH -Existing Harbor2030.urb
Project Name: Dana Point Harbor - Existing Harbor 2030
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMATES | (Tons per | Year, | Unmitigated) | | |
|--------------------------------|-----------|-------|--------------|------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.51 | 7.08 | 5.95 | 0.00 | 0.01 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.11 | 0.01 | 0.80 | 0.00 | 0.00 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 2.70 | - | - | - | - |
| TOTALS (tpy, unmitigated) | 3.33 | 7.09 | 6.74 | 0.00 | 0.01 |

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|------|------|-------|------|-------|
| Car Trailer Parking | 0.38 | 0.28 | 2.74 | 0.01 | 1.32 |
| Youth and Group Facility | 0.07 | 0.07 | 0.66 | 0.00 | 0.30 |
| Yacht Clubs | 0.09 | 0.08 | 0.82 | 0.00 | 0.35 |
| Harbor Patrol Building | 0.02 | 0.01 | 0.15 | 0.00 | 0.06 |
| Beach House Restaurant | 0.21 | 0.21 | 2.06 | 0.00 | 0.88 |
| Hotel | 0.35 | 0.30 | 2.97 | 0.01 | 1.32 |
| Boat Slips | 2.88 | 1.83 | 18.05 | 0.04 | 8.03 |
| Retail/Restaurant | 0.27 | 0.24 | 2.43 | 0.01 | 1.00 |
| Retail/Restaurant | 1.43 | 1.35 | 13.45 | 0.03 | 5.55 |
| Boat SErvice Building | 0.01 | 0.01 | 0.08 | 0.00 | 0.04 |
| County Maintenance Yard O | 0.01 | 0.01 | 0.08 | 0.00 | 0.04 |
| BSB - Yacht Brokerage | 0.01 | 0.01 | 0.11 | 0.00 | 0.05 |
| Boat Yard Building | 0.03 | 0.03 | 0.29 | 0.00 | 0.14 |
| BSB - NUMBER X | 0.10 | 0.11 | 1.11 | 0.00 | 0.54 |
| TOTAL EMISSIONS (tons/yr) | 5.85 | 4.55 | 45.01 | 0.11 | 19.63 |
| | | | | | |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| | | | | No. | Total |
|---------------------------|---------|--------|--------------------|----------|----------|
| Unit Type | Acreage | Trip | Rate | Units | Trips |
| Car Trailer Parking | | 2.96 | trips/Spaces | 313.00 | 926.48 |
| Youth and Group Facility | | 22.88 | trips/1000 sq. ft | 11.00 | 251.68 |
| Yacht Clubs | | 22.88 | trips/1000 sq. ft. | 16.00 | 366.08 |
| Harbor Patrol Building | | 11.01 | trips/1000 sq. ft. | 6.00 | |
| Beach House Restaurant | | 89.95 | trips/1000 sq. ft. | | 899.50 |
| Hotel | | 8.92 | trips/rooms | | 1,213.12 |
| Boat Slips | | 2.96 | trips/Boat Berths | 2,491.00 | |
| Retail/Restaurant | | 44.32 | trips/1000 sq. ft. | 26.60 | 1,178.91 |
| Retail/Restaurant | | 127.15 | trips/1000 sq. ft. | 51.30 | 6,522.80 |
| Boat SErvice Building | | 11.01 | trips/1000 sq. ft. | 2.50 | 27.53 |
| County Maintenance Yard C |) | 11.01 | trips/1000 sq. ft. | 1.80 | 19.82 |
| BSB - Yacht Brokerage | | 11.01 | trips/1000 sq. ft. | 2.00 | |
| Boat Yard Building | | 15.86 | trips/1000 sq. ft. | 5.00 | |
| BSB - NUMBER X | | 11.01 | trips/1000 sq. ft. | 25.00 | 275.25 |

19,221.90 71,184.96 Sum of Total Trips Total Vehicle Miles Traveled

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lb | s 15.90 | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,75 | 0 16.70 | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751-8,50 | 0 7.60 | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10,00 | 0 1.00 | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,00 | 0 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | 0 0.90 | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,00 | 0 0.70 | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lb | s 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |

| | | | | | Residential | | | Commercia | l |
|-------|------|--------|---------|-------|-------------|-------|---------|-----------|----------|
| | | | | Home- | Home- | Home- | | | |
| | | | | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban | Trip | Length | (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural | Trip | Length | (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |

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| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|--------------------------|----------|------|------|------|------|------|
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial | (by land | use) | | | | |
| Car Trailer Parking | | | | 2.0 | 1.0 | 97.0 |
| Youth and Group Facility | | | | 5.0 | 2.5 | 92.5 |
| Yacht Clubs | | | | 5.0 | 2.5 | 92.5 |
| Harbor Patrol Building | | | | 5.0 | 2.5 | 92.5 |
| Beach House Restaurant | | | | 8.0 | 4.0 | 88.0 |
| Hotel | | | | 5.0 | 2.5 | 92.5 |
| Boat Slips | | | | 5.0 | 2.5 | 92.5 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Boat SErvice Building | | | | 2.0 | 1.0 | 97.0 |
| County Maintenance Yard | Office | | | 50.0 | 25.0 | 25.0 |
| BSB - Yacht Brokerage | | | | 90.0 | 5.0 | 5.0 |
| Boat Yard Building | | | | 41.5 | 20.8 | 37.8 |
| BSB - NUMBER X | | | | 48.0 | 24.0 | 28.0 |
| DOD HOLDDIN II | | | | | | |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational emission year changed from 2005 to 2030. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6.

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

| CONSTRUCTION EMISSION ESTIMATES | | | | | | | 7141.0 |
|---|----------------|---------------|--------------|-------------|---------------|-----------------|--------------|
| | | | | 200 | PM10 TOTAL | PM10 EXHAUST | PM10 DUST |
| *** 2006 *** | ROG | NOx 167.53 | CO 208.88 | SO2 0.12 | 87.05 | 7.04 | 80.01 |
| TOTALS (lbs/day, unmitigated) | 25.45 25.45 | 167.53 | 208.88 | 0.12 | 18.99 | 7.04 | 11.95 |
| TOTALS (lbs/day, mitigated) | 25.45 | 167.55 | 200.00 | 0.12 | 10.55 | 7.01 | 11.75 |
| | | | | | PM10 | PM10 | PM10 |
| *** 2007 *** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 35.40 | 227.17 | 291.08 | 0.00 | 8.73 | 8.67 | 0.06 |
| TOTALS (lbs/day, mitigated) | 35.40 | 227.17 | 291.08 | 0.00 | 8.73 | 8.67 | 0.06 |
| 1011120 (220) 001/ | | | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2008 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| TOTALS (lbs/day, mitigated) | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| | | | | | | | D. 44 0 |
| | | | | | PM10 | PM10 | PM10 |
| *** 2009 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| TOTALS (lbs/day, mitigated) | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| | | | | | PM10 | PM10 | PM10 |
| 0010 ++++ | 200 | NO., | со | SO2 | TOTAL | EXHAUST | DUST |
| *** 2010 *** | ROG 17.48 | NOx 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| TOTALS (lbs/day,unmitigated) | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| TOTALS (lbs/day, mitigated) | 17.48 | 100.26 | 149.60 | 0.00 | 2.02 | 2.77 | 0.03 |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | |
| | ROG | NOx | CO | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 3.08 | 4.49 | 9.38 | 0.00 | 0.02 | | |
| TOTALS (lbs/day, mitigated) | 3.08 | 4.49 | 9.38 | 0.00 | 0.02 | | |
| | | | | | | | |
| OPERATIONAL (VEHICLE) EMISSION E | | | | | D. 41.0 | | |
| | ROG | NOx | CO | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 76.28 | 82.32 | 768.31 | 0.53 | 90.89 | | |
| TOTALS (lbs/day, mitigated) TOTALS (lbs/day, mitigated) | 59.22 | 60.13 | 561.22 | 0.38 | 66.39 | | |
| TOTALS (IDS/day, micigated) | 33.22 | 00.13 | 301.22 | 0.50 | 00.00 | | |
| SUM OF AREA AND OPERATIONAL EMIS | SSION ESTI | MATES | | | | | |
| | ROG | NOx | CO | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 79.37 | 86.82 | 777.69 | 0.53 | 90.91 | | |
| TOTALS (lbs/day, mitigated) | 62.31 | 64.63 | 570.60 | 0.39 | 66.41 | | |
| | | | | | | | |

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Winter)

| CONSTRUCTION EMISSION ESTIMATES | | | | | | | |
|------------------------------------|--------------|--------|--------|------|--------------|-----------------|--------------|
| CONSTRUCTION EMISSION ESTIMATES | | | | | PM10 | PM10 | PM10 |
| *** 2006 *** | ROG | NOx | co , | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 25.45 | 167.53 | 208.88 | 0.12 | 87.05 | 7.04 | 80.01 |
| TOTALS (lbs/day, mitigated) | 25.45 | 167.53 | 208.88 | 0.12 | 18.99 | 7.04 | 11.95 |
| | | | | | D141.0 | D141 0 | DM1.0 |
| | | | | | PM10 | PM10 EXHAUST | PM10 DUST |
| *** 2007 *** | ROG | NOx | CO | SO2 | TOTAL | 8.67 | 0.06 |
| TOTALS (lbs/day,unmitigated) | 35.40 | 227.17 | 291.08 | 0.00 | 8.73 8.73 | 8.67 | 0.06 |
| TOTALS (lbs/day, mitigated) | 35.40 | 227.17 | 291.08 | 0.00 | 0.73 | 0.07 | 0.00 |
| | | | | | PM10 | PM10 | PM10 |
| *** 2008 *** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| TOTALS (lbs/day, mitigated) | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| 1011120 (220, 44], | | | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2009 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| TOTALS (lbs/day, mitigated) | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| | | | | | PM10 | PM10 | PM10 |
| | DOG | NOx | со | SO2 | TOTAL | EXHAUST | DUST |
| *** 2010 *** | ROG 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| TOTALS (lbs/day, unmitigated) | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| TOTALS (lbs/day, mitigated) | 17.40 | 100.20 | 145.00 | 0.00 | 2.02 | 2.,,, | **** |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | ROG | NOx | co | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 2.28 | 4.41 | 3.70 | 0.00 | 0.01 | | |
| TOTALS (lbs/day, mitigated) | 2.28 | 4.41 | 3.70 | 0.00 | 0.01 | | |
| 1011120 (100, 001, | | | | | | | |
| OPERATIONAL (VEHICLE) EMISSION E | STIMATES | | | | | | |
| | ROG | NOx | СО | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 83.71 | 122.31 | 950.03 | 0.48 | 90.89 | | |
| TOTALS (lbs/day, mitigated) | 61.15 | 89.34 | 693.96 | 0.35 | 66.39 | | |
| | | | | | | | |
| SUM OF AREA AND OPERATIONAL EMIS | SSION EST | IMATES | | | | | |
| COLL OF IMMEN THIS OF BRIDE STREET | ROG | NOx | co | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 85.99 | 126.72 | 953.73 | 0.48 | 90.90 | | |
| TOTALS (lbs/day, mitigated) | 63.42 | 93.75 | 697.66 | 0.35 | 66.40 | | |

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

| CONSTRUCTION EMISSION ESTIMATE | ES | | | | PM10 | PM10 | PM10 |
|------------------------------------|-----------|----------|--------|------|-------|---------|------|
| +++ 2000 +++ | ROG | NOx | со | SO2 | TOTAL | EXHAUST | DUST |
| *** 2006 *** | 2.84 | 19.86 | 22.90 | 0.01 | 6.26 | 0.84 | 5.42 |
| TOTALS (tpy, unmitigated) | 2.84 | 19.86 | 22.90 | 0.01 | 1.77 | 0.84 | 0.93 |
| TOTALS (tpy, mitigated) | 2.04 | 19.00 | 22.50 | 0.01 | 1.,, | 0,01 | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2007 *** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 3.50 | 21.90 | 29.09 | 0.00 | 0.83 | 0.82 | 0.01 |
| TOTALS (tpy, mitigated) | 3.50 | 21.90 | 29.09 | 0.00 | 0.83 | 0.82 | 0.01 |
| TOTALD (cpy, micigated, | 0.00 | | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2008 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 2.31 | 13.60 | 19.82 | 0.00 | 0.46 | 0.45 | 0.01 |
| TOTALS (tpy, mitigated) | 2.31 | 13.60 | 19.82 | 0.00 | 0.46 | 0.45 | 0.01 |
| | | | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2009 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 2.31 | 13.39 | 19.74 | 0.00 | 0.40 | 0.39 | 0.01 |
| TOTALS (tpy, mitigated) | 2.31 | 13.39 | 19.74 | 0.00 | 0.40 | 0.39 | 0.01 |
| | | | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2010 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 0.96 | 5.52 | 8.22 | 0.00 | 0.15 | 0.15 | 0.00 |
| TOTALS (tpy, mitigated) | 0.96 | 5.52 | 8.22 | 0.00 | 0.15 | 0.15 | 0.00 |
| | | | | | | | |
| AREA SOURCE EMISSION ESTIMATE | S | | | | | | |
| | ROG | NOx | CO | SO2 | PM10 | | |
| TOTALS (tpy, unmitigated) | 0.39 | 0.81 | 1.19 | 0.00 | 0.00 | | |
| TOTALS (tpy, mitigated) | 0.39 | 0.81 | 1.19 | 0.00 | 0.00 | | |
| | | | | | | | |
| OPERATIONAL (VEHICLE) EMISSIO | N ESTIMAT | ES | | | | | |
| | ROG | NOx | CO | SO2 | PM10 | | |
| TOTALS (tpy, unmitigated) | 14.37 | 17.46 | 151.27 | 0.09 | 16.59 | | |
| TOTALS (tpy, mitigated) | 10.93 | 12.75 | 110.50 | 0.07 | 12.12 | | |
| | | | | | | | |
| SUM OF AREA AND OPERATIONAL E | MISSION E | STIMATES | | | | | |
| Dott of finds find of bidifforms a | ROG | NOx | co | SO2 | PM10 | | |
| TOTALS (tpy, unmitigated) | 14.76 | 18.27 | 152.46 | 0.09 | 16.59 | | |
| TOTALS (tpy, mitigated) | 11.31 | 13.56 | 111.68 | 0.07 | 12.12 | | |
| TOTTLE (CPJ, MICIGACOA) | , | | | | | | |

File Name: Project Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb Dana Point Harbor - Proposed Commercial Core

Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: January, 2006

Construction Duration: 60

Total Land Use Area to be Developed: 8 acres
Maximum Acreage Disturbed Per Day: 8 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 139500

| CONSTRUCTION EMISSION ESTIMAT | res unmiti | GATED (lbs. | /day) | | PM10 | PM10 | PM10 |
|---|-------------------------------|----------------|----------------|------|--------------|--------------|----------------------|
| Source *** 2006*** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| Phase 1 - Demolition Emission | ns | | | | | | |
| Fugitive Dust | - | _ | - | - | 2.16 | - | 2.16 |
| Off-Road Diesel | 17.28 | 125.57 | 132.97 | - | 5.60 | 5.60 | 0.00 |
| On-Road Diesel | 0.37 | 8.35 | 1.36 | 0.12 | 0.19 | 0.16 | 0.03 |
| Worker Trips | 0.19 | 0.38 | 3.94 | 0.00 | 0.02 | 0.01 | 0.01 |
| Maximum lbs/day | 17.84 | 134.30 | 138.27 | 0.12 | 7.97 | 5.77 | 2.20 |
| Phase 2 - Site Grading Emissi | ions | | | | | | |
| Fugitive Dust | - | - | - | - | 80.00 | _ | 80.00 |
| Off-Road Diesel | 25.37 | 167.48 | 207.88 | - | 7.04 | 7.04 | 0.00 |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips | 0.08 | 0.05 | 1.00 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 25.45 | 167.53 | 208.88 | 0.00 | 87.05 | 7.04 | 80.01 |
| Phase 3 - Building Construct: | ion | | | | | | |
| Bldg Const Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Bldg 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 | 25.45 | 167.53 | 208.88 | 0.12 | 87.05 | 7.04 | 80.01 |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emission | ns | | | | | | 0.00 |
| Fugitive 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 Emiss | ions | | | | | | |
| Fugitive 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 3 - Building Construct | ion | | | | | | |
| Bldg Const Off-Road Diesel | 17.26 | 104.60 | 146.73 | - | 3.71 | 3.71 | 0.00 |
| Bldg Const Worker Trips | 0.28 | 0.17 | 3.62 | 0.00 | 0.05 | 0.00 | 0.05 |
| | 0.00 | - | - | - | - | - | - |
| Arch Coatings Off-Gas | | | 0 00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | | | | |
| Arch Coatings Off-Gas | | 0.00 | 0.00 | - | - | - | |
| Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas | 0.00 | | | | 4.95 | 4.95 | 0.00 |
| Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel | 0.00 | - | - | - | | | 0.00 |
| Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel | 0.00 0.08 17.69 | 122.03 | 139.80 | | 4.95 | 4.95 | 0.00 0.00 0.01 |
| Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel | 0.00 0.08 17.69 0.02 | 122.03 0.33 | 139.80 0.06 | 0.00 | 4.95 0.01 | 4.95 0.01 | 0.00 |

| Phase 1 - Demolition Emission | ıs | _ | _ | _ | 0.00 | - | 0.00 |
|---|---------------|----------------|----------------|------|--------------|--------------|------|
| Fugitive Dust 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 Emissi | ions | | | | | | |
| Fugitive 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| Phase 3 - Building Construct: Bldg Const Off-Road Diesel | 17.26 | 102.85 | 146.73 | _ | 3.39 | 3.39 | 0.00 |
| Bldg Const Worker Trips | 0.26 | 0.16 | 3.37 | 0.00 | 0.05 | 0.00 | 0.05 |
| Arch Coatings Off-Gas | 0.00 | - | _ | _ | - | - | 0 00 |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Gas 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 | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| Max lbs/day all phases | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| | | | | | | | |
| *** 2009*** Phase 1 - Demolition Emissio | ns | | | | | | |
| Fugitive 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| - | , | | | | | | |
| Phase 2 - Site Grading Emiss Fugitive Dust | ions - | _ | _ | _ | 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 | | |
| Phase 3 - Building Construct | | | 446 70 | | 2 00 | 2.98 | 0.00 |
| Bldg Const Off-Road Diesel | 17.26 | 101.31 0.15 | 146.73 3.11 | 0.00 | 2.98 0.05 | 0.00 | 0.05 |
| Bldg Const Worker Trips Arch Coatings Off-Gas | 0.24 | 0.13 | 3.11 | - | - | - | - |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Gas | 0.00 | - | | · - | - | - | 0.00 |
| Asphalt Off-Road Diesel | 0.00 | 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 Maximum lbs/day | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| | | | 140.05 | 0.00 | 2 02 | 2.98 | 0.05 |
| Max lbs/day all phases | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.90 | 0.03 |
| *** 2010*** | | | | | | | |
| Phase 1 - Demolition Emission | | | | | 0.00 | | 0.00 |
| Fugitive Dust | - | - | - | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 Emiss | sions | | | | | | |
| Fugitive 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| - | | | | | | | |
| Phase 3 - Building Construct | tion 17.26 | 100.12 | 146.73 | _ | 2.76 | 2.76 | 0.00 |
| Bldg Const Off-Road Diesel Bldg Const Worker Trips | 0.21 | 0.13 | 2.86 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 | - | | - | _ | - | _ |

| | | | | | | 2 22 | 0.00 |
|--|---|--------------|------------------------------------|---|--------------|--|--------------|
| Asphalt Off-Road Diesel Asphalt On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 0.00 | 0.00 |
| Asphalt Worker Trips | 0.00 | 0.00 | 0.00 149.60 | 0.00 | 0.00 | 0.00 2.77 | 0.00 0.05 |
| Maximum lbs/day | 17.48 | 100.26 | 149.00 | 0.00 | | | |
| Max lbs/day all phases | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| Phase 1 - Demolition Assumption Start Month/Year for Phase 1: Phase 1 Duration: 6 months Building Volume Total (cubic to Building Volume Daily (cubic to On-Road Truck Travel (VMT): 28 Off-Road Equipment | Jan '06 feet): 68 feet): 51 | 52.9 | | | | | |
| No. Type 2 Concrete/Industrial | Saws | Hor | sepower 84 | Load Factor 0.730 | | rs/Day 3.0 | |
| 2 Crushing/Processing | Equip | | 154 | 0.780 | | 3.0 | |
| 2 Off Highway Tractors2 Off Highway Trucks | 5 | | 255 417 | 0.410 | | 3.0 3.0 | |
| Phase 2 - Site Grading Assump Start Month/Year for Phase 2: Phase 2 Duration: 6 months On-Road Truck Travel (VMT): 0 Off-Road Equipment | | | | | | | |
| No. Type | | Hor | sepower 180 | Load Factor 0.580 | | rs/Day 8.0 | |
| 2 Excavators 2 Graders | | | 174 | 0.575 | : | 8.0 | |
| 2 Off Highway Tractor | S | | 255 417 | 0.410 0.490 | | 8.0 8.0 | |
| 2 Off Highway Trucks2 Scrapers | | | 313 | 0.660 | | 8.0 | |
| Start Month/Year for Phase 3: Phase 3 Duration: 48 months Start Month/Year for SubPha SubPhase Building Duration: Off-Road Equipment No. Type 2 Cranes 3 Off Highway Trucks 2 Rough Terrain Forkl 2 Trenchers SubPhase Architectural Coat Start Month/Year for SubPha SubPhase Asphalt Duration: Acres to be Paved: 4 Off-Road Equipment No. Type 1 Off Highway Trucks 2 Pavers 2 Paving Equipment 2 Rollers 2 Surfacing Equipment | se Buildi 41 month ifts ings Turr se Asphal 6 months | Honed OFF | rsepower 190 417 94 82 | Load Factor 0.430 0.490 0.475 0.695 Load Factor 0.490 0.590 0.530 0.430 0.490 | Hou | rs/Day 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 | |
| CONSTRUCTION EMISSION ESTIMAT | | | | 200 | PM10 | PM10 | PM10 |
| Source *** 2006*** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| Phase 1 - Demolition Emission | ıs | _ | _ | _ | 2.16 | _ | 2.16 |
| Fugitive Dust Off-Road Diesel | 17.28 | 125.57 | 132.97 | - | 5.60 | 5.60 | 0.00 |
| On-Road Diesel | 0.37 | 8.35 0.38 | 1.36 3.94 | 0.12 0.00 | 0.19 0.02 | 0.16 0.01 | 0.03 |
| Worker Trips Maximum lbs/day | 0.19 17.84 | 134.30 | 138.27 | 0.12 | 7.97 | 5.77 | 2.20 |
| Phase 2 - Site Grading Emiss: Fugitive Dust | ions | _ | _ | - | 11.94 | - | 11.94 |
| Off-Road Diesel | 25.37 | 167.48 | 207.88 | - | 7.04 | 7.04 | 0.00 |
| On-Road Diesel | 0.00 | 0.00 | 0.00 1.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips Maximum lbs/day | 25.45 | 167.53 | 208.88 | 0.00 | 18.99 | 7.04 | 11.95 |
| Phase 3 - Building Construct Bldg Const Off-Road Diesel | ion 0.00 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 |

| Bldg Const Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---|---------------|----------------|--------------|--------------|--------------|------|--------------|
| Arch Coatings Off-Gas | 0.00 | - 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arch Coatings Worker Trips Asphalt Off-Gas | 0.00 | 0.00 | 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | 0.12 | 18.99 | 7.04 | 11.95 |
| Max lbs/day all phases | 25.45 | 167.53 | 208.88 | 0.12 | 10.99 | 7.04 | 11.95 |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emissio | ns | | | | | | |
| Fugitive Dust | - 0.00 | - 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 Emiss | | | | | | | 0.00 |
| Fugitive Dust | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 3 - Building Construct | ion | | | | | | |
| Bldg Const Off-Road Diesel | 17.26 | 104.60 | 146.73 | _ | 3.71 | 3.71 | 0.00 |
| Bldg Const Worker Trips | 0.28 | 0.17 | 3.62 | 0.00 | 0.05 | 0.00 | 0.05 |
| Arch Coatings Off-Gas Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Gas | 0.08 | - | - | _ | _ | _ | - |
| Asphalt Off-Road Diesel | 17.69 | 122.03 | 139.80 | _ | 4.95 | 4.95 | 0.00 |
| Asphalt On-Road Diesel | 0.02 | 0.33 | 0.06 0.86 | 0.00 | 0.01 0.01 | 0.01 | 0.00 0.01 |
| Asphalt Worker Trips Maximum lbs/day | 0.07 35.40 | 0.04 227.17 | 291.08 | 0.00 | 8.73 | 8.67 | 0.06 |
| - | | | | | 0.70 | 0 67 | 0.06 |
| Max lbs/day all phases | 35.40 | 227.17 | 291.08 | 0.00 | 8.73 | 8.67 | 0.06 |
| *** 2008*** | | | | | | | |
| Phase 1 - Demolition Emissic | ons | | | | | | |
| Fugitive Dust | - | - | - | - | 0.00 | - | 0.00 |
| Off-Road Diesel | 0.00 | 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emiss | ione | | | | | | |
| Fugitive 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| Phase 3 - Building Construct | | 102.85 | 146.73 | _ | 3.39 | 3.39 | 0.00 |
| Bldg Const Off-Road Diesel Bldg Const Worker Trips | 17.26 0.26 | 0.16 | 3.37 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 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 | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| Max lbs/day all phases | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| *** 2009*** | | | | | | | |
| Phase 1 - Demolition Emission | | | | | | | |
| Fugitive Dust | - 0.00 | - 0.00 | - 0.00 | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 Emiss: | ions | | | | 0.00 | | 0.00 |
|-------------------------------|-------|--------|--------|--------------|------|------|------|
| Fugitive Dust | _ | | | - | | 0 00 | 0.00 |
| Off-Road Diesel | 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 3 - Building Construct | | | | | | 0.00 | 0 00 |
| Bldg Const Off-Road Diesel | 17.26 | 101.31 | 146.73 | . | 2.98 | 2.98 | 0.00 |
| Bldg Const Worker Trips | 0.24 | 0.15 | 3.11 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| | | | | | 2 02 | 2.00 | 0.05 |
| Max lbs/day all phases | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| | | | | | | | |
| *** 2010*** | | | | | | | |
| Phase 1 - Demolition Emissio | ns | | | | | | |
| Fugitive 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 |
| ridarindin 1557 day | **** | | | | | | |
| Phase 2 - Site Grading Emiss | ions | | | | | | |
| Fugitive 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 |
| Hazzamani abb/ aag | | | | | | | |
| Phase 3 - Building Construct | ion | | | | | | |
| Bldg Const Off-Road Diesel | 17.26 | 100.12 | 146.73 | - | 2.76 | 2.76 | 0.00 |
| Bldg Const Worker Trips | 0.21 | 0.13 | 2.86 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| ranzmam zbo, aaj | | | | | | | |
| Max lbs/day all phases | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| • | | | | | | | |

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
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: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOX 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
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 9.5%)
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 30.0%)
Phase 1: Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 6 months
Building Volume Total (cubic feet): 680166.4
Building Volume Daily (cubic feet): 5152.9
On-Road Truck Travel (VMT): 285
Off-Road Equipment
No. Type
Horsepower Load Factor

| r moud | Edathweite | | | /5 |
|--------|---------------------------|------------|-------------|-----------|
| No. | Type | Horsepower | Load Factor | Hours/Day |
| 2 | Concrete/Industrial saws | 84 | 0.730 | 8.0 |
| 2 | Crushing/Processing Equip | 154 | 0.780 | 8.0 |
| 2 | Off Highway Tractors | 255 | 0.410 | 8.0 |
| 2 | Off Highway Trucks | 417 | 0.490 | 8.0 |

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jul '06 Phase 2 Duration: 6 months On-Road Truck Travel (VMT): 0 Off-Road Equipment

| | 2-quipment | | | |
|-----|----------------------|------------|-------------|-----------|
| No. | Type | Horsepower | Load Factor | Hours/Day |
| 2 | Excavators | 180 | 0.580 | 8.0 |
| 2 | Graders | 174 | 0.575 | 8.0 |
| 2 | Off Highway Tractors | 255 | 0.410 | 8.0 |
| 2 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 2 | Scrapers | 313 | 0.660 | 8.0 |
| | | | | |

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '07
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '07
SubPhase Building Duration: 41 months
Off-Road Equipment
No. Type Horse

Surfacing Equipment

| Off-Roa | d Equipment | | | / |
|---------|-------------------------------------|------------|-------------|-----------|
| No. | Type | Horsepower | Load Factor | Hours/Day |
| 2 | Cranes | 190 | 0.430 | 8.0 |
| 3 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 2 | Rough Terrain Forklifts | 94 | 0.475 | 8.0 |
| 2 | Trenchers | 82 | 0.695 | 8.0 |
| SubPhas | e Architectural Coatings Turned OFF | | | |
| Start M | onth/Year for SubPhase Asphalt: Jun | '07 | | |
| SubPhas | e Asphalt Duration: 6 months | | | |
| Acres t | o be Paved: 4 | | | |
| Off-Roa | d Equipment | | | |
| No. | Type | Horsepower | Load Factor | Hours/Day |
| 1 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 2 | Pavers | 132 | 0.590 | 8.0 |
| 2 | Paving Equipment | 111 | 0.530 | 8.0 |
| 2 | Rollers | 114 | 0.430 | 8.0 |
| 2 | Surfacing Equipment | 437 | 0.490 | 8.0 |

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| AREA SOURCE EMISSION ESTIMATES | (Winter | Pounds per | Day, Unmiti | gated) | |
|--------------------------------|---------|------------|-------------|--------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.32 | 4.41 | 3.70 | 0 | 0.01 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping - No winter emiss: | ions | | | | |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 1.96 | _ | - | - | - |
| TOTALS(lbs/day,unmitigated) | 2.28 | 4.41 | 3.70 | 0.00 | 0.01 |
| AREA SOURCE EMISSION ESTIMATES | (Winter | Pounds per | Day, Mitiga | ited) | |
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.32 | 4.41 | 3.70 | 0 | 0.01 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping - No winter emiss | ions | | | | |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 1.96 | - | - | - | - |
| TOTALS (lbs/day, mitigated) | | | 3.70 | 0.00 | 0.01 |

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|--------|--------|------|-------|
| Light House Museum | 0.71 | 0.93 | 7.54 | 0.00 | 0.66 |
| Dry Stack Boat Storage an | 18.33 | 30.73 | 226.46 | 0.13 | 23.91 |
| Retail/Restaurant | 7.51 | 9.80 | 79.77 | 0.04 | 6.96 |
| Retail-Restaurant-Restaur | 53.51 | 75.20 | 593.58 | 0.29 | 55.04 |
| Dry Stack Boat Storage - | 2.17 | 3.04 | 24.02 | 0.01 | 2.23 |
| Dry Stack Boat Storage Of | 0.37 | 0.61 | 4.54 | 0.00 | 0.48 |
| Boat Yard Building | 0.30 | 0.51 | 3.67 | 0.00 | 0.40 |
| BSB- Yacht Brokerage | 0.68 | 1.24 | 8.69 | 0.01 | 1.02 |
| BSB - 2 | 0.14 | 0.24 | 1.76 | 0.00 | 0.19 |
| TOTAL EMISSIONS (lbs/day) | 83.71 | 122.31 | 950.03 | 0.48 | 90.89 |

Includes correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | No. Units | Total Trips |
|---|---------|---|---|---------------------------------|--------------|----------------|
| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB- Yacht Brokerage BSB - 2 | | 2.96 44.32 127.15 44.32 11.01 15.86 11.01 | trips/1000 sq. trips/5lips trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. | ft. ft. ft. ft. ft. | 32.80 | 39.65 |

Sum of Total Trips 15,205.36
Total Vehicle Miles Traveled 59,936.54

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 54.70 | 1.10 | 98.70 | 0.20 |
| Light Truck < 3,750 lbs | 15.20 | 2.00 | 96.00 | 2.00 |
| Light Truck 3,751- 5,750 | | 1.20 | 98.10 | 0.70 |
| Med Truck 5,751-8,500 | | 1.40 | 95.90 | 2.70 |
| Lite-Heavy 8,501-10,000 | | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,000 | | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,000 | | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lb. | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.60 | 68.80 | 31.20 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.40 | 7.10 | 85.70 | 7.20 |

Travel Conditions

| Travel Conditions | | | | | C | |
|---------------------------|----------|-------------|-------|---------|------------|------|
| |] | Residential | | | Commercial | • |
| | Home- | Home- | Home- | | | |
| | Work | Shop | Other | Commute | Non-Work | |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (| by land | use) | | | | |
| Light House Museum | - | | | 5.0 | 2.5 | 92.5 |
| Dry Stack Boat Storage ar | d Car Tr | ailer Park: | ing | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | - | 2.0 | 1.0 | 97.0 |
| Retail-Restaurant-Restaur | ant. | | | 2.0 | 1.0 | 97.0 |
| Dry Stack Boat Storage - | | Tore | | 2.0 | 1.0 | 97.0 |
| Dry Stack Boat Storage Of | | | | 2.0 | 1.0 | 97.0 |

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| Boat Yard Building | 50.0 | 25.0 | 25.0 |
|----------------------|------|------|------|
| BSB- Yacht Brokerage | 90.0 | 5.0 | 5.0 |
| BSB - 2 | 41.5 | 20.8 | 37.8 |

MITIGATED OPERATIONAL EMISSIONS

| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB- Yacht Brokerage BSB - 2 | ROG 0.52 13.39 5.48 39.09 1.58 0.27 0.22 0.50 0.10 | NOx 0.68 22.44 7.16 54.93 2.22 0.45 0.37 0.91 0.18 | 5.51 165.42 58.27 433.59 17.54 3.32 2.68 6.35 1.28 | SO2 0.00 0.09 0.03 0.21 0.01 0.00 0.00 0.00 | PM10 0.48 17.47 5.08 40.20 1.63 0.35 0.29 0.74 0.14 |
|---|---|---|--|---|--|
| TOTAL EMISSIONS (lbs/day) PERCENTAGE REDUCTION % | 61.15 | 89.34 | 693.96 | 0.35 | 66.39 |
| | 27 | 27 | 27 | 27 | 27 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | No. Units | Total Trips |
|---|---------|--|---|---------------------------------|--------------|----------------|
| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB- Yacht Brokerage BSB - 2 | | 2.16 32.37 92.88 32.37 8.04 11.59 8.04 | trips/1000 sq. trips/Slips trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. | ft. ft. ft. ft. ft. | 32.80 | |

Sum of Total Trips 11,106.86
Total Vehicle Miles Traveled 43,781.07

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type Light Auto Light Truck < 3,750 lb. Light Truck 3,751 - 5,75 Med Truck 5,751 - 8,50 Lite-Heavy 8,501-10,00 Lite-Heavy 10,001-14,00 Med-Heavy 14,001-33,00 Heavy-Heavy 33,001-60,00 | 0 16.20 0 7.30 0 1.10 0 0.30 0 1.00 0 0.90 | Non-Catalyst 1.10 2.00 1.20 1.40 0.00 0.00 0.00 0.00 | Catalyst 98.70 96.00 98.10 95.90 81.80 66.70 20.00 11.10 | Diesel 0.20 2.00 0.70 2.70 18.20 33.30 80.00 88.90 |
|--|---|--|--|--|
| , , | 0.90 | 0.00 | 11.10 | |
| Urban Bus | 0.20 | 0.00 68.80 | 50.00 | 50.00 |
| Motorcycle School Bus Motor Home | 1.60 0.10 1.40 | 0.00 7.10 | 0.00 85.70 | 100.00 |

| Travel | Conditions |
|--------|------------|

| ilavel conditions | | Residentia | L | | Commercial | |
|--|----------|---|--|---------------------------------|--------------------------------|--------------------------------------|
| Urban Trip Length (miles) Rural Trip Length (miles) Trip Speeds (mph) % of Trips - Residential | | Home- Shop 4.9 4.9 40.0 37.0 | Home- Other 6.0 6.0 40.0 43.0 | Commute 10.3 10.3 40.0 | Non-Work 5.5 5.5 40.0 | Customer 5.5 5.5 40.0 |
| % of Trips - Commercial (Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - | d Car Tr | ailer Park | ing | 5.0 2.0 2.0 2.0 2.0 | 2.5 1.0 1.0 1.0 | 92.5 97.0 97.0 97.0 97.0 |

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| Dry Stack Boat Storage Office | 2.0 | 1.0 | 97.0 |
|-------------------------------|------|------|------|
| Boat Yard Building | 50.0 | 25.0 | 25.0 |
| BSB- Yacht Brokerage | 90.0 | 5.0 | 5.0 |
| BSB - 2 | 41.5 | 20.8 | 37.8 |

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MITIGATION OPTIONS SELECTED

Non-Residential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.04%

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 3

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 0

The Number of Dedicated Daily Shuttle Trips is 0

Non-Residential Pedestrian/Bicycle Friendliness Mitigation

Percent Reduction in Trips is 4.08%

Inputs Selected:

The Number of Intersections per Square Mile is 15

The Percent of Streets with Sidewalks on One Side is %

The Percent of Streets with Sidewalks on Both Sides is 75%

The Percent of Arterials/Collectors with Bike Lanes or where Suitable,

Direct Parallel Routes Exist is 60%

Non-Residential Parking Pricing/Cash Out Mitigation

Percent Reduction in Trips is 20.83%

Inputs Selected:

The Daily Parking Change was set to 5 dollars

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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: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
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.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph

has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off. The area souce mitigation measure option switch changed from off to on. The landscape year changed from 2005 to 2012.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Transit Service Mitigation changed from off to on.
The Res and Non-Res Trans Demand Mgmt Measures Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb
Project Name: Dana Point Harbor - Proposed Commercial Core
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: January, 2006 Construction Duration: 60 Construction Duration: 60
Total Land Use Area to be Developed: 8 acres
Maximum Acreage Disturbed Per Day: 8 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 139500

| CONSTRUCTION EMISSION ESTIMA | TES UNMITI | GATED (lbs. | /day) | | PM10 | PM10 | PM10 |
|-------------------------------|------------|-------------|--------|------|-------|---------|-------|
| Source *** 2006*** | ROG | NOx | СО | SO2 | TOTAL | EXHAUST | DUST |
| Phase 1 - Demolition Emission | ns | | | | | | |
| Fugitive Dust | - | _ | _ | _ | 2.16 | _ | 2.16 |
| Off-Road Diesel | 17.28 | 125.57 | 132.97 | - | 5.60 | 5.60 | 0.00 |
| | 0.37 | 8.35 | 1.36 | 0.12 | 0.19 | 0.16 | 0.03 |
| On-Road Diesel | 0.19 | 0.38 | 3.94 | 0.00 | 0.02 | 0.01 | 0.01 |
| Worker Trips | 17.84 | 134.30 | 138.27 | 0.12 | 7.97 | 5.77 | 2.20 |
| Maximum lbs/day | 17.04 | 134.30 | 130.27 | 0.12 | 1.57 | 3.77 | 2.20 |
| Phase 2 - Site Grading Emiss | ions | | | | | | |
| Fugitive Dust | _ | _ | _ | - | 80.00 | _ | 80.00 |
| Off-Road Diesel | 25.37 | 167.48 | 207.88 | _ | 7.04 | 7.04 | 0.00 |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips | 0.08 | 0.05 | 1.00 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 25.45 | 167.53 | 208.88 | 0.00 | 87.05 | 7.04 | 80.01 |
| Maximum ibs/day | 23.43 | 107.33 | 200.00 | 0.00 | 00 | | |
| Phase 3 - Building Construct | ion | | | | | | |
| Bldg Const Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Bldg 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 |
| | 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 |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Max lbs/day all phases | 25.45 | 167.53 | 208.88 | 0.12 | 87.05 | 7.04 | 80.01 |
| | | | | | | | |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emissic | ons | | | _ | 0.00 | _ | 0.00 |
| Fugitive Dust | - | - | - | _ | | 0.00 | 0.00 |
| Off-Road Diesel | 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 | |
| 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 Emiss | sione | | | | | | |
| | - | _ | _ | _ | 0.00 | _ | 0.00 |
| Fugitive Dust | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 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 |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 3 - Building Construct | tion | | | | | | |
| Bldg Const Off-Road Diesel | 17.26 | 104.60 | 146.73 | - | 3.71 | 3.71 | 0.00 |
| Bldg Const Worker Trips | 0.28 | 0.17 | 3.62 | 0.00 | 0.05 | 0.00 | 0.05 |
| Arch Coatings Off-Gas | 0.00 | - | - | _ | _ | _ | - |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.08 | 0.00 | - | - | - | _ | - |
| Asphalt Off-Boad Diosol | 17.69 | 122.03 | 139.80 | _ | 4.95 | 4.95 | 0.00 |
| Asphalt Off-Road Diesel | 0.02 | 0.33 | 0.06 | 0.00 | 0.01 | 0.01 | 0.00 |
| Asphalt On-Road Diesel | | | | | 0.01 | 0.00 | 0.01 |
| Asphalt Worker Trips | 0.07 | 0.04 | 0.86 | 0.00 | 8.73 | 8.67 | 0.01 |
| Maximum lbs/day | 35.40 | 227.17 | 291.08 | 0.00 | 0.73 | 0.07 | 0.00 |
| Max lbs/day all phases | 35.40 | 227.17 | 291.08 | 0.00 | 8.73 | 8.67 | 0.06 |

| Phase 1 - Demolition Emissions | : | | | | | | |
|--|------------|--------|--------|------|--------------|--------------|------|
| Fugitive 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 |
| Dhara 2 Gita Guadina Emissis | | | | | | | |
| Phase 2 - Site Grading Emissic | ons _ | _ | _ | - | 0.00 | _ | 0.00 |
| Fugitive Dust 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 3 - Building Construction | on | | | | | | |
| Bldg Const Off-Road Diesel | 17.26 | 102.85 | 146.73 | - | 3.39 | 3.39 | 0.00 |
| Bldg Const Worker Trips | 0.26 | 0.16 | 3.37 | 0.00 | 0.05 | 0.00 | 0.05 |
| Arch Coatings Off-Gas | 0.00 | - | - | - | - | | 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 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt On-Road Diesel Asphalt Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum lbs/day | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| Haximum 1557 day | 1,,00 | | | | | | |
| Max lbs/day all phases | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| | | | | | | | |
| | | | | | | | |
| *** 2009*** | | | | | | | |
| Phase 1 - Demolition Emissions | 3 | | | | 0.00 | | 0.00 |
| Fugitive Dust | | - 0.00 | 0 00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Haziman 1557 day | 0.00 | | | | | | |
| Phase 2 - Site Grading Emissic | ons | | | | | | |
| Fugitive 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 Puilding Construction | ~ ~ | | | | | | |
| Phase 3 - Building Construction Bldg Const Off-Road Diesel | 17.26 | 101.31 | 146.73 | _ | 2.98 | 2.98 | 0.00 |
| Bldg Const Worker Trips | 0.24 | 0.15 | 3.11 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| M | 17 50 | 101 46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| Max lbs/day all phases | 17.50 | 101.46 | 149.00 | 0.00 | 5.05 | 2.50 | 0.03 |
| | | | | | | | |
| *** 2010*** | | | | | | | |
| Phase 1 - Demolition Emission | s | | | | | | |
| Fugitive 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 |
| Dhara 2 Site Canding Emissi | 000 | | | | | | |
| Phase 2 - Site Grading Emissi Fugitive Dust | ons - | _ | | - | 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 3 - Building Constructi | | 100 10 | 146 33 | | 2 76 | 2 76 | 0 00 |
| Bldg Const Off-Road Diesel | 17.26 | 100.12 | 146.73 | 0 00 | 2.76 0.05 | 2.76 0.00 | 0.00 |
| Bldg Const Worker Trips | 0.21 | 0.13 | 2.86 | 0.00 | 0.05 | 0.00 | 0.05 |
| Arch Coatings Off-Gas Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arch Coatings Worker Trips Asphalt Off-Gas | 0.00 | 5.00 | - | - | - | - | - |
| Inchiant off odd | | | | | | | |

| 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 | 0.00 100.26 | 0.00 149.60 | 0.00 | 0.00 2.82 | 0.00 2.77 | 0.00 0.05 |
| Maximum lbs/day | 17.48 | 100.26 | 149.00 | 0.00 | 2.02 | | |
| Max lbs/day all phases | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| Phase 1 - Demolition Assumpt | ions | | | | | | |
| Start Month/Year for Phase 1 | | | | | | | |
| Phase 1 Duration: 6 months | foot) . 60 | 0166 4 | | | | | |
| Building Volume Total (cubic Building Volume Daily (cubic | | | | | | | |
| On-Road Truck Travel (VMT): | | | | | | | |
| Off-Road Equipment No. Type | | Hor | sepower | Load Factor | Hou | rs/Day | |
| 2 Concrete/Industria | l saws | | 84 | 0.730 | 1 | 8.0 | |
| 2 Crushing/Processin | | | 154 255 | 0.780 0.410 | | 8.0 8.0 | |
| 2 Off Highway Tracto2 Off Highway Trucks | | | 417 | 0.490 | | 8.0 | |
| Phase 2 - Site Grading Assum | ntions | | | | | | |
| Start Month/Year for Phase 2 | | | | | | | |
| Phase 2 Duration: 6 months On-Road Truck Travel (VMT): | Λ | | | | | | |
| Off-Road Equipment | o . | | | | | | |
| No. Type | | Hor | sepower | Load Factor 0.580 | | rs/Day 8.0 | |
| 2 Excavators 2 Graders | | | 180 174 | 0.575 | | 8.0 | |
| 2 Off Highway Tracto | | | 255 | 0.410 | | 8.0 | |
| 2 Off Highway Trucks2 Scrapers | | | 417 313 | 0.490 0.660 | | 8.0 8.0 | |
| • | | | | | | | |
| Phase 3 - Building Construct Start Month/Year for Phase 3 | | tions | | | | | |
| Phase 3 Duration: 48 months | | | | | | | |
| Start Month/Year for SubPh | | |)7 | | | | |
| SubPhase Building Duration Off-Road Equipment | : 41 11101101 | 15 | | | | | |
| No. Type | | Ноз | sepower | Load Factor 0.430 | | rs/Day 8.0 | |
| 2 Cranes 3 Off Highway Trucks | | | 190 417 | 0.430 | | 8.0 | |
| 2 Rough Terrain Fork | | | 94 | 0.475 | | 8.0 | |
| 2 Trenchers SubPhase Architectural Coa | tings Turr | ned OFF | 82 | 0.695 | | 8.0 | |
| Start Month/Year for SubPh | ase Asphal | | 7 | | | | |
| SubPhase Asphalt Duration: | 6 months | | | | | | |
| Acres to be Paved: 4 Off-Road Equipment | | | | | | | |
| No. Type | | Ho | rsepower | Load Factor | Hou | rs/Day 8.0 | |
| 1 Off Highway Trucks 2 Pavers | ; | | 417 132 | 0.490 0.590 | | 8.0 | |
| 2 Paving Equipment | | | 111 | 0.530 | | 8.0 | |
| 2 Rollers 2 Surfacing Equipmer | nt | | 114 437 | 0.430 0.490 | | 8.0 | |
| carracan, adest- | | | | | | | |
| CONSTRUCTION EMISSION ESTIMA | TES MITIG | ATED (lbs/ | day) | | | | D141.0 |
| Source | ROG | NOx | СО | SO2 | PM10 TOTAL | PM10 EXHAUST | PM10 DUST |
| *** 2006*** | | | | | | | |
| Phase 1 - Demolition Emissic Fugitive Dust | ons - | _ | _ | _ | 2.16 | _ | 2.16 |
| Off-Road Diesel | 17.28 | 125.57 | 132.97 | - | 5.60 | 5.60 | 0.00 |
| On-Road Diesel Worker Trips | 0.37 0.19 | 8.35 0.38 | 1.36 3.94 | 0.12 | 0.19 0.02 | 0.16 0.01 | 0.03 0.01 |
| Maximum lbs/day | 17.84 | 134.30 | 138.27 | 0.12 | 7.97 | 5.77 | 2.20 |
| Phase 2 - Site Grading Emis | sions | | | | | | |
| Fugitive Dust | - | - | - | - | 11.94 | 7.04 | 11.94 |
| Off-Road Diesel On-Road Diesel | 25.37 0.00 | 167.48 0.00 | 207.88 | 0.00 | 7.04 0.00 | 7.04 0.00 | 0.00 |
| Worker Trips | 0.08 | 0.05 | 1.00 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 25.45 | 167.53 | 208.88 | 0.00 | 18.99 | 7.04 | 11.95 |
| | | | | | | | |

Phase 3 - Building Construction
Bldg Const Off-Road Diesel 0.00 0.00 - 0.00 0.00

0.00

| Bldg Const Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---|---------------|--------|--------------|--------|--------------|--------------|-------|
| Arch Coatings Off-Gas | 0.00 | - 0.00 | - | - 0.00 | - 0.00 | 0.00 | 0.00 |
| Arch Coatings Worker Trips Asphalt Off-Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 |
| Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Max lbs/day all phases | 25.45 | 167.53 | 208.88 | 0.12 | 18.99 | 7.04 | 11.95 |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emissio | ns | | | | | | |
| Fugitive Dust | - | - | - | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| On-Road Diesel 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 Emiss | ions | | | | | | |
| Fugitive 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| _ | | | | | | | |
| Phase 3 - Building Construct | ion 17.26 | 104.60 | 146.73 | _ | 3.71 | 3.71 | 0.00 |
| Bldg Const Off-Road Diesel Bldg Const Worker Trips | 0.28 | 0.17 | 3.62 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 | 0.08 17.69 | 122.03 | 139.80 | _ | 4.95 | 4.95 | 0.00 |
| Asphalt Off-Road Diesel Asphalt On-Road Diesel | 0.02 | 0.33 | 0.06 | 0.00 | 0.01 | 0.01 | 0.00 |
| Asphalt Worker Trips | 0.07 | 0.04 | 0.86 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 35.40 | 227.17 | 291.08 | 0.00 | 8.73 | 8.67 | 0.06 |
| Max lbs/day all phases | 35.40 | 227.17 | 291.08 | 0.00 | 8.73 | 8.67 | 0.06 |
| *** 2008*** | | | | | | | |
| Phase 1 - Demolition Emission | ons | | | | | | |
| Fugitive Dust | _ | - | - | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| On-Road Diesel 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 Emiss | sions | | | | | | |
| Fugitive 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 | 0.00 |
| Worker Trips Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| Phase 3 - Building Construct Bldg Const Off-Road Diesel | | 102.85 | 146.73 | _ | 3.39 | 3.39 | 0.00 |
| Bldg Const Worker Trips | 0.26 | 0.16 | 3.37 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 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 | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| Max lbs/day all phases | 17.52 | 103.01 | 150.11 | 0.00 | 3.44 | 3.39 | 0.05 |
| *** 2009*** | | | | | | | |
| Phase 1 - Demolition Emissi | ons | | | | | | 0.00 |
| Fugitive Dust | - | - | - | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 Emiss | ions | | | | | | |
|------------------------------|-------|--------|--------|------|------|------|------|
| Fugitive 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 |
| Taxamam 2557 day | **** | | | | | | |
| Phase 3 - Building Construct | ion | | | | | | |
| Bldg Const Off-Road Diesel | 17.26 | 101.31 | 146.73 | - | 2.98 | 2.98 | 0.00 |
| Bldg Const Worker Trips | 0.24 | 0.15 | 3.11 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.98 | 0.05 |
| - | | | 140.05 | 0.00 | 2 02 | 2.98 | 0.05 |
| Max lbs/day all phases | 17.50 | 101.46 | 149.85 | 0.00 | 3.03 | 2.90 | 0.03 |
| *** 2010*** | | | | | | | |
| Phase 1 - Demolition Emissio | ns | | | | | | |
| Fugitive 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 Emiss | ions | | | | | | |
| Fugitive 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 3 - Building Construct | ion | | | | | | |
| Bldg Const Off-Road Diesel | 17.26 | 100.12 | 146.73 | - | 2.76 | 2.76 | 0.00 |
| Bldg Const Worker Trips | 0.21 | 0.13 | 2.86 | 0.00 | 0.05 | 0.00 | 0.05 |
| 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 | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |
| Max lbs/day all phases | 17.48 | 100.26 | 149.60 | 0.00 | 2.82 | 2.77 | 0.05 |

Construction-Related Mitigation Measures

Crushing/Processing Equip

Off Highway Tractors Off Highway Trucks

2 2 2

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%) 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: Stockpiles: Cover all stock piles with tarps Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
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%) Phase 1 - Demolition Assumptions Start Month/Year for Phase 1: Jan '06 Phase 1 Duration: 6 months Building Volume Total (cubic feet): 680166.4 Building Volume Daily (cubic feet): 5152.9 On-Road Truck Travel (VMT): 285 Off-Road Equipment No. 2 Type Horsepower Load Factor 84 0.730 0.780 Concrete/Industrial saws

154

255

417

0.410

Hours/Day

8.0

8.0

8.0

8.0

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jul '06 Phase 2 Duration: 6 months On-Road Truck Travel (VMT): 0 Off-Road Equipment

| Off-Road | Equipment | | |
|----------|----------------------|------------|-------------|
| No. | Type | Horsepower | Load Factor |
| 2 | Excavators | 180 | 0.580 |
| 2 | Graders | 174 | 0.575 |
| 2 | Off Highway Tractors | 255 | 0.410 |
| 2 | Off Highway Trucks | 417 | 0.490 |
| 2 | Scrapers | 313 | 0.660 |
| | | | |

Phase 3 - Building Construction Assumptions Start Month/Year for Phase 3: Jan '07 Phase 3 Duration: 48 months

Start Month/Year for SubPhase Building: Jan '07 SubPhase Building Duration: 41 months

Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|-------------------------|------------|-------------|-----------|
| 2 | Cranes | 190 | 0.430 | 8.0 |
| 3 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 2 | Rough Terrain Forklifts | 94 | 0.475 | 8.0 |
| 2 | Trenchers | 82 | 0.695 | 8.0 |

Hours/Day 8.0 8.0 8.0

8.0

8.0

SubPhase Architectural Coatings Turned OFF

Start Month/Year for SubPhase Asphalt: Jun '07 SubPhase Asphalt Duration: 6 months

Acres to be Paved: 4 Off-Road Equipment

No.

| f-Ro | ad Equipment | | | |
|------|---------------------|------------|-------------|-----------|
| | Type | Horsepower | Load Factor | Hours/Day |
| 1 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 2 | Pavers | 132 | 0.590 | 8.0 |
| 2 | Paving Equipment | 111 | 0.530 | 8.0 |
| 2 | Rollers | 114 | 0.430 | 8.0 |
| 2 | Surfacing Equipment | 437 | 0.490 | 8.0 |
| | | | | |

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| AREA SOURCE EMISSION ESTIMATES | (Summer | Pounds per | Day, Unmi | tigated) | |
|---|-----------------------------|----------------|-----------------|---------------|--------------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.32 | 4.41 | 3.70 | 0 | 0.01 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 0.81 | 0.08 | 5.68 | 0.00 | 0.01 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 1.96 | - | _ | - | - |
| TOTALS (lbs/day, unmitigated) | 3.08 | 4.49 | 9.38 | 0.00 | 0.02 |
| | | | | | |
| | | | | | |
| AREA SOURCE EMISSION ESTIMATES | (Summer | Pounds per | Day, Miti | gated) | |
| AREA SOURCE EMISSION ESTIMATES Source | (Summer ROG | Pounds per NOx | Day, Miti CO | gated) SO2 | PM10 |
| | | _ | 4 * | | PM10 0.01 |
| Source | ROG | NOx | co | so2 0 | 0.01 |
| Source Natural Gas | ROG | NOx | co | SO2 | |
| Source Natural Gas Hearth - No summer emissions | ROG 0.32 | NOx 4.41 | CO 3.70 | so2 0 | 0.01 |
| Source Natural Gas Hearth - No summer emissions Landscaping | ROG 0.32 0.81 | NOx 4.41 | CO 3.70 | so2 0 | 0.01 |
| Source Natural Gas Hearth - No summer emissions Landscaping Consumer Prdcts | ROG 0.32 0.81 0.00 | NOx 4.41 | CO 3.70 | so2 0 | 0.01 |

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Light House Museum | 0.56 | 0.63 | 5.92 | 0.00 | 0.66 |
| Dry Stack Boat Storage an | 25.49 | 20.57 | 190.74 | 0.14 | 23.91 |
| Retail/Restaurant | 5.98 | 6.63 | 62.12 | 0.04 | 6.96 |
| Retail-Restaurant-Restaur | 41.15 | 50.70 | 473.54 | 0.32 | 55.04 |
| Dry Stack Boat Storage - | 1.73 | 2.05 | 19.16 | 0.01 | 2.23 |
| Dry Stack Boat Storage Of | 0.34 | 0.41 | 3.82 | 0.00 | 0.48 |
| Boat Yard Building | 0.26 | 0.34 | 3.31 | 0.00 | 0.40 |
| BSB- Yacht Brokerage | 0.63 | 0.82 | 8.13 | 0.01 | 1.02 |
| BSB - 2 | 0.13 | 0.16 | 1.57 | 0.00 | 0.19 |
| TOTAL EMISSIONS (lbs/day) | 76.28 | 82.32 | 768.31 | 0.53 | 90.89 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | | No. Units | Total Trips |
|--|---------|--|---|--------------------------|--------------------------|--|----------------|
| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building | | 2.96 44.32 127.15 44.32 11.01 15.86 | trips/1000 trips/Slips trips/1000 trips/1000 trips/1000 trips/1000 | sq. sq. sq. sq. | ft. ft. ft. ft. | 32.80 78.40 9.10 5.60 2.50 | 39.65 |
| BSB- Yacht Brokerage BSB - 2 | | | trips/1000 trips/1000 | | | 6.80 1.80 | 74.87 19.82 |

Sum of Total Trips 15,205.36
Total Vehicle Miles Traveled 59,936.54

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalvst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| | 54.70 | 1.10 | 98.70 | 0.20 |
| Light Auto | | | | |
| Light Truck < 3,750 lb | s 15.20 | 2.00 | 96.00 | 2.00 |
| Light Truck 3,751- 5,75 | 0 16.20 | 1.20 | 98.10 | 0.70 |
| Med Truck 5,751-8,50 | 0 7.30 | 1.40 | 95.90 | 2.70 |
| Lite-Heavy 8,501-10,00 | 0 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,00 | 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,00 | | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lb | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.60 | 68.80 | 31.20 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.40 | 7.10 | 85.70 | 7.20 |

| Travel Conditions | | | | | | |
|---------------------------|----------|-------------|-------|---------|------------|----------|
| | | Residential | | | Commercia: | l |
| | Home- | Home- | Home- | | | |
| | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (| bv land | use) | | | | |
| Light House Museum | - | | | 5.0 | 2.5 | 92.5 |
| Dry Stack Boat Storage an | d Car Tr | ailer Parki | ng | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Retail-Restaurant-Restaur | ant | | | 2.0 | 1.0 | 97.0 |
| Dry Stack Boat Storage - | | Tore | | 2.0 | 1.0 | 97.0 |
| Dry Stack Boat Storage Of | | | | 2.0 | 1.0 | 97.0 |

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| 50.0 | 25.0 | 25.0 |
|------|------|----------|
| 90.0 | 5.0 | 5.0 |
| 41.5 | 20.8 | 37.8 |
| | 90.0 | 90.0 5.0 |

MITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO 4.33 | SO2 0.00 | PM10 0.48 |
|---------------------------|-------|-------|------------|-------------|--------------|
| Light House Museum | 0.42 | 0.46 | | | |
| Dry Stack Boat Storage an | 21.70 | 15.03 | 139.33 | 0.10 | 17.47 |
| Retail/Restaurant | 4.46 | 4.84 | 45.37 | 0.03 | 5.08 |
| Retail-Restaurant-Restaur | 30.30 | 37.04 | 345.90 | 0.23 | 40.20 |
| Dry Stack Boat Storage - | 1.29 | 1.50 | 13.99 | 0.01 | 1.63 |
| Dry Stack Boat Storage Of | 0.27 | 0.30 | 2.79 | 0.00 | 0.35 |
| Boat Yard Building | 0.20 | 0.25 | 2.42 | 0.00 | 0.29 |
| BSB- Yacht Brokerage | 0.48 | 0.60 | 5.94 | 0.00 | 0.74 |
| BSB - 2 | 0.10 | 0.12 | 1.14 | 0.00 | 0.14 |
| TOTAL EMISSIONS (lbs/day) | 59.22 | 60.13 | 561.22 | 0.38 | 66.39 |
| PERCENTAGE REDUCTION % | 22 | 27 | 27 | 27 | 27 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | No. Units | Total Trips |
|---|---------|--|---|---------------------------------|--------------|----------------|
| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB- Yacht Brokerage BSB - 2 | | 2.16 32.37 92.88 32.37 8.04 11.59 8.04 | trips/1000 sq. trips/Slips trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. | ft. ft. ft. ft. ft. | 32.80 | |

Sum of Total Trips 11,106.86
Total Vehicle Miles Traveled 43,781.07

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type Light Auto Light Truck < 3,750 lbs Light Truck 3,751- 5,756 Med Truck 5,751- 8,500 Lite-Heavy 8,501-10,000 Lite-Heavy 10,001-14,000 Med-Heavy 14,001-33,000 | 16.20 7.30 1.10 0.30 | Non-Catalyst 1.10 2.00 1.20 1.40 0.00 0.00 | Catalyst 98.70 96.00 98.10 95.90 81.80 66.70 20.00 | Diesel 0.20 2.00 0.70 2.70 18.20 33.30 80.00 |
|--|-------------------------------|--|---|---|
| Heavy-Heavy 33,001-60,000 | | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lbs | | 0.00 | 0.00 | 100.00 |
| Urban Bus | | 0.00 | 50.00 | 50.00 |
| Motorcycle | | 68.80 | 31.20 | 0.00 |
| School Bus | | 0.00 | 0.00 | 100.00 |
| Motor Home | | 7.10 | 85.70 | 7.20 |

| Travel | Conditions |
|--------|------------|
| TTGVGT | COHOTETONS |

| | | Residential | | | Commercia: | L |
|---------------------------|---------------|---------------|----------------|---------|------------|----------|
| | Home- Work | Home- Shop | Home- Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (| by land | use) | | | | |
| Light House Museum | | | | 5.0 | 2.5 | 92.5 |
| Dry Stack Boat Storage an | d Car Tr | ailer Park: | ing | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 |
| Retail-Restaurant-Restaur | ant | | | 2.0 | 1.0 | 97.0 |
| Dry Stack Boat Storage - | Retail S | Tore | | 2.0 | 1.0 | 97.0 |

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| Dry Stack Boat Storage Office | 2.0 | 1.0 | 97.0 |
|-------------------------------|------|------|------|
| Boat Yard Building | 50.0 | 25.0 | 25.0 |
| BSB- Yacht Brokerage | 90.0 | 5.0 | 5.0 |
| BSB - 2 | 41.5 | 20.8 | 37.8 |

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MITIGATION OPTIONS SELECTED

Non-Residential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.04%

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 3

The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 0
The Number of Dedicated Daily Shuttle Trips is 0

Non-Residential Pedestrian/Bicycle Friendliness Mitigation

Percent Reduction in Trips is 4.08%

Inputs Selected:

The Number of Intersections per Square Mile is 15

The Percent of Streets with Sidewalks on One Side is %

The Percent of Streets with Sidewalks on Both Sides is 75%

The Percent of Arterials/Collectors with Bike Lanes or where Suitable,

Direct Parallel Routes Exist is 60%

Non-Residential Parking Pricing/Cash Out Mitigation

Percent Reduction in Trips is 20.83%

Inputs Selected:

The Daily Parking Change was set to 5 dollars

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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: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
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.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off. The area souce mitigation measure option switch changed from off to on. The landscape year changed from 2005 to 2012.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.
The Res and Non-Res Trans Demand Mgmt Measures Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-CC.urb Dana Point Harbor - Proposed Commercial Core South Coast Air Basin (Los Angeles area) File Name: Project Name: Dana Point Harbor - Proposed Cor Project Location: South Coast Air Basin (Los Ange On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

Construction Start Month and Year: January, 2006

Construction Duration: 60

Total Land Use Area to be Developed: 8 acres
Maximum Acreage Disturbed Per Day: 8 acres
Single Family Units: 0 Multi-Family Units: 0

Retail/Office/Institutional/Industrial Square Footage: 139500

| CONSTRUCTION EMISSION ESTIMAT | ES IINMTTT | SATED (tons | s/vear) | | | | |
|---------------------------------|------------|-------------|---------|--------------|-------|---------|------|
| | | | | | PM10 | PM10 | PM10 |
| Source | ROG | NOx | CO | S02 | TOTAL | EXHAUST | DUST |
| *** 2006*** | _ | | | | | | |
| Phase 1 - Demolition Emission | S _ | _ | _ | _ | 0.14 | _ | 0.14 |
| Fugitive Dust | 1.14 | 8.29 | 8.78 | _ | 0.14 | 0.37 | 0.00 |
| Off-Road Diesel | 0.02 | 0.50 | 0.09 | 0.01 | 0.01 | 0.01 | 0.00 |
| On-Road Diesel | 0.02 | 0.02 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips Total tons/year | 1.17 | 8.81 | 9.12 | 0.01 | 0.52 | 0.38 | 0.14 |
| Total tons/year | 1.1/ | 0.01 | J.12 | 0.01 | 0.52 | 0.50 | 0.1. |
| Phase 2 - Site Grading Emissi | ons | | | | - 00 | | 5.28 |
| Fugitive Dust | | - | | _ | 5.28 | 0.46 | 0.00 |
| Off-Road Diesel | 1.67 | 11.05 | 13.72 | - 0.00 | 0.46 | 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 | 0.06 | 0.00 | | 0.46 | 5.28 |
| Total tons/year | 1.67 | 11.05 | 13.78 | 0.00 | 5.74 | 0.46 | 3.20 |
| Phase 3 - Building Constructi | | | | | | | |
| Bldg Const Off-Road Diesel | 0.00 | 0.00 | 0.00 | . | 0.00 | 0.00 | 0.00 |
| Bldg 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 | | | - | - | - | - 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total all phases tons/yr | 2.84 | 19.86 | 22.90 | 0.01 | 6.26 | 0.84 | 5.42 |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emission | | | | | 0.00 | | 0 00 |
| Fugitive Dust | | - | - | - | 0.00 | | 0.00 |
| Off-Road Diesel | 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emissi | ons | | | | | | |
| Fugitive 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 3 - Building Constructi | .on | | | | | | |
| Bldg Const Off-Road Diesel | 2.28 | 13.81 | 19.37 | - | 0.49 | 0.49 | 0.00 |
| Bldg Const Worker Trips | 0.04 | 0.02 | 0.44 | 0.00 | 0.01 | 0.00 | 0.01 |
| 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 | 0.01 | - | - | - | - | | _ |
| Asphalt Off-Road Diesel | 1.17 | 8.05 | 9.23 | - | 0.33 | 0.33 | 0.00 |
| Asphalt On-Road Diesel | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Worker Trips | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons/year | 3.50 | 21.90 | 29.09 | 0.00 | 0.83 | 0.82 | 0.01 |
| Total all phases tons/yr | 3.50 | 21.90 | 29.09 | 0.00 | 0.83 | 0.82 | 0.01 |
| | | | | | | | |

| Phase 1 - Demolition Emissions | | | | | | | 0.00 |
|--|--------------|---------------|---------------|--------|--------------|--------------|--------------|
| Fugitive Dust | - | - 0.00 | 0 00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| Phase 2 - Site Grading Emissior Fugitive Dust | ıs _ | _ | _ | - | 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 3 - Building Construction | ì | | | | | | |
| Bldg Const Off-Road Diesel | 2.28 | 13.58 | 19.37 | - | 0.45 | 0.45 | 0.00 |
| Bldg Const Worker Trips | 0.03 | 0.02 | 0.45 | 0.00 | 0.01 | 0.00 | 0.01 |
| Arch Coatings Off-Gas 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 2.31 | 0.00 13.60 | 0.00 19.82 | 0.00 | 0.00 0.46 | 0.45 | 0.00 |
| Total tons/year | 2.31 | 13.00 | 13.02 | 0.00 | 0.10 | 0.10 | **** |
| Total all phases tons/yr | 2.31 | 13.60 | 19.82 | 0.00 | 0.46 | 0.45 | 0.01 |
| | | | | | | | |
| *** 2009*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | - | - | - | - | 0.00 | _ | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| On-Road Diesel Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| Phase 2 - Site Grading Emission | ns | | _ | _ | 0.00 | _ | 0.00 |
| Fugitive Dust 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 3 - Building Construction | n | | | | | | |
| Bldg Const Off-Road Diesel | 2.28 | 13.37 | 19.37 | - | 0.39 | 0.39 | 0.00 |
| Bldg Const Worker Trips | 0.03 | 0.02 | 0.37 | 0.00 | 0.01 | 0.00 | 0.01 |
| Arch Coatings Off-Gas | 0.00 | - 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arch Coatings Worker Trips Asphalt Off-Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 0.39 | 0.00 0.01 |
| Total tons/year | 2.31 | 13.39 | 19.74 | 0.00 | 0.40 | 0.39 | 0.01 |
| Total all phases tons/yr | 2.31 | 13.39 | 19.74 | 0.00 | 0.40 | 0.39 | 0.01 |
| • | | | | | | | |
| +++ 2010+++ | | | | | | | |
| *** 2010*** Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive 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 Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| rotar cons, year | 0.00 | | | | | | |
| Phase 2 - Site Grading Emission | | | | | 0.00 | | 0.00 |
| Fugitive Dust | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phone 2 Puilding Construction | un. | | | | | | |
| Phase 3 - Building Construction Bldg Const Off-Road Diesel | on 0.95 | 5.51 | 8.07 | _ | 0.15 | 0.15 | 0.00 |
| Bldg Const Worker Trips | 0.01 | 0.01 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arch Coatings Off-Gas | 0.00 | - 0.00 | - 0.00 | - 0.00 | 0.00 | 0.00 | 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 O | ff-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 |
| | orker Trips ons/year | 0.96 | 5.52 | 8.22 | 0.00 | 0.15 | 0.15 | 0.00 |
| 20002 | | | | | | | 0.15 | 0.00 |
| Total a | ll phases tons/yr | 0.96 | 5.52 | 8.22 | 0.00 | 0.15 | 0.15 | 0.00 |
| Start Mon Phase 1 D Building Building On-Road T | Demolition Assumption Assumption of Phase 1: Duration: 6 months Volume Total (cubic Volume Daily (cubic Truck Travel (VMT): 2 | Jan '06 feet): 680 feet): 515 | | | | | | |
| No. | Type | | Hors | sepower | Load Factor | | rs/Day | |
| 2 | Concrete/Industrial | | | 84 | 0.730 0.780 | | 3.0 3.0 | |
| 2 2 | Crushing/Processing Off Highway Tractor | | - | .54 ?55 | 0.780 | | 3.0 | |
| 2 | Off Highway Trucks | 3 | _ | 117 | 0.490 | 8 | 8.0 | |
| Start Mor Phase 2 I On-Road 1 | - Site Grading Assump nth/Year for Phase 2: Duration: 6 months Fruck Travel (VMT): 0 Equipment | Jul '06 | | | | | | |
| No. | Type | | | sepower | Load Factor | | rs/Day | |
| 2 | Excavators | | | 180 174 | 0.580 0.575 | | 8.0 8.0 | |
| 2 2 | Graders Off Highway Tractor | 5 | | 255 | 0.373 | | 8.0 | |
| 2 | Off Highway Trucks | J | | 117 | 0.490 | | 8.0 | |
| 2 | Scrapers | | 3 | 313 | 0.660 | | 8.0 | |
| Start I SubPha Off-Ro No. 2 3 2 2 SubPha Start I SubPha Acres Off-Ro No. 1 2 2 | Duration: 48 months Month/Year for SubPha se Building Duration: ad Equipment Type Cranes Off Highway Trucks Rough Terrain Forkl Trenchers se Architectural Coat Month/Year for SubPha se Asphalt Duration: to be Paved: 4 ad Equipment Type Off Highway Trucks Pavers Paving Equipment Rollers | 41 months ifts tings Turne | Hored OFF | sepower 190 417 94 82 | Load Factor 0.430 0.490 0.475 0.695 Load Factor 0.490 0.590 0.530 0.430 | Hou | rs/Day 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 | |
| 2 2 | Rollers Surfacing Equipment | | | 114 437 | 0.430 | | 8.0 | |
| _ | TION EMISSION ESTIMA | | TED (tons/ | year) | | PM10 | PM10 | PM10 |
| Sour | | ROG | NOx | СО | SO2 | TOTAL | EXHAUST | DUST |
| *** 200 | 6*** - Demolition Emission | าร | | | | | | |
| Fugitive | | | _ | _ | - | 0.14 | - | 0.14 |
| Off-Road | | 1.14 | 8.29 | 8.78 | - | 0.37 | 0.37 | 0.00 |
| On-Road | | 0.02 | 0.50 | 0.09 0.25 | 0.01 | 0.01 | 0.01 | 0.00 |
| Worker T Total | rips tons/year | 0.01 1.17 | 0.02 8.81 | 9.12 | 0.00 0.01 | 0.52 | 0.38 | 0.14 |
| Phase 2 Fugitive | - Site Grading Emiss | ions | _ | _ | - | 0.79 | _ | 0.79 |
| Off-Road | | 1.67 | 11.05 | 13.72 | _ | 0.46 | 0.46 | 0.00 |
| On-Road | | 0.00 | 0.00 | 0.00 0.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker T Total | rips tons/year | 0.00 1.67 | 0.00 11.05 | 13.78 | 0.00 | 1.25 | 0.46 | 0.79 |
| | - Building Construct nst Off-Road Diesel | ion 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |

| Bldq 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 Asphalt Off-Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| Total all phases tons/yr | 2.84 | 19.86 | 22.90 | 0.01 | 1.77 | 0.84 | 0.93 |
| *** 2007*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emissic | ns | | | | | | |
| Fugitive Dust | - | | - | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 3 - Building Construction | nn. | | | | | | |
| Bldg Const Off-Road Diesel | 2.28 | 13.81 | 19.37 | _ | 0.49 | 0.49 | 0.00 |
| Bldg Const Worker Trips | 0.04 | 0.02 | 0.44 | 0.00 | 0.01 | 0.00 | 0.01 |
| Arch Coatings Off-Gas | 0.00 | - | - | 0.00 | 0.00 | 0.00 | 0.00 |
| Arch Coatings Worker Trips Asphalt Off-Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| Asphalt Off-Road Diesel | 1.17 | 8.05 | 9.23 | | 0.33 | 0.33 | 0.00 |
| Asphalt On-Road Diesel | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Worker Trips | 0.00 | 0.00 21.90 | 0.05 29.09 | 0.00 | 0.00 0.83 | 0.00 0.82 | 0.00 0.01 |
| Total tons/year | 3.50 | 21.90 | 29.09 | 0.00 | 0.05 | 0.02 | 0.01 |
| | | | | | | | |
| Total all phases tons/yr | 3.50 | 21.90 | 29.09 | 0.00 | 0.83 | 0.82 | 0.01 |
| | 3.50 | 21.90 | 29.09 | 0.00 | 0.83 | 0.82 | 0.01 |
| Total all phases tons/yr *** 2008*** Phase 1 - Demolition Emissions | | 21.90 | 29.09 | 0.00 | | | |
| *** 2008*** Phase 1 - Demolition Emissions | s _ | _ | _ | _ | 0.00 | _ | 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel | o.00 | 0.00 | 0.00 | <u>-</u> | 0.00 | 0.00 | |
| *** 2008*** Phase 1 - Demolition Emissions | s _ | _ | _ | _ | 0.00 | _ | 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | - - 0.00 | 0.00 0.00 0.00 | - 0.00 0.00 | 0.00 0.00 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | - 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year | 0.00 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | - 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emissions Fugitive Dust Off-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt Off-Road Diesel Asphalt On-Road Diesel | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt On-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Eldg Const Off-Road Diesel Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips Total tons/year | 0.00 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt On-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Eldg Const Off-Road Diesel Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips Total tons/year | 0.00 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt Off-Road Diesel Asphalt Worker Trips Total tons/year Total all phases tons/yr *** 2009*** Phase 1 - Demolition Emission | 0.00 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt Off-Road Diesel Asphalt On-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips Total tons/year Total all phases tons/yr *** 2009*** Phase 1 - Demolition Emission Fugitive Dust | 0.00 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 3 - Building Construction Bldg Const Off-Road Diesel Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Gas Asphalt Off-Road Diesel Asphalt Off-Road Diesel Asphalt Worker Trips Total tons/year Total all phases tons/yr *** 2009*** Phase 1 - Demolition Emission | 0.00 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| *** 2008*** Phase 1 - Demolition Emissions Fugitive Dust Off-Road Diesel On-Road Diesel Worker Trips Total tons/year Phase 2 - Site Grading Emission Fugitive Dust Off-Road Diesel On-Road Diesel On-Road Diesel On-Road Diesel On-Road Diesel On-Road Diesel On-Road Diesel Borker Trips Total tons/year Phase 3 - Building Construction Bldg Const Worker Trips Arch Coatings Off-Gas Arch Coatings Off-Gas Arch Coatings Worker Trips Asphalt Off-Gas Asphalt Off-Gas Asphalt On-Road Diesel Asphalt On-Road Diesel Asphalt Worker Trips Total tons/year Total all phases tons/yr *** 2009*** Phase 1 - Demolition Emission Fugitive Dust Off-Road Diesel | 0.00 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | -0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |

| Disco O City Conding Emissis | | | | | | | |
|--|------|-------|-------|------|------|------|------|
| Phase 2 - Site Grading Emissic | 1115 | _ | | _ | 0.00 | _ | 0.00 |
| Fugitive Dust | 0 00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | | | | 0.00 | 0.00 | 0.00 |
| On-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 | | |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 3 - Building Construction | on | | | | | | |
| Bldg Const Off-Road Diesel | 2.28 | 13.37 | 19.37 | _ | 0.39 | 0.39 | 0.00 |
| Bldg Const Worker Trips | 0.03 | 0.02 | 0.37 | 0.00 | 0.01 | 0.00 | 0.01 |
| Arch Coatings Off-Gas | 0.00 | - | - | - | _ | _ | _ |
| Arch Coatings Off-Gas Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - |
| Asphalt Off-Gas | | | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Road Diesel | 0.00 | 0.00 | | | | | 0.00 |
| Asphalt On-Road Diesel | 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 |
| Total tons/year | 2.31 | 13.39 | 19.74 | 0.00 | 0.40 | 0.39 | 0.01 |
| Total all phases tons/yr | 2.31 | 13.39 | 19.74 | 0.00 | 0.40 | 0.39 | 0.01 |
| *** 2010*** | | | | | | | |
| Phase 1 - Demolition Emissions | 3 | | | | | | |
| Fugitive 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emission | nn e | | | | | | |
| Fugitive Dust | _ | | | | 0.00 | _ | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 3 - Building Construction | | | | | | | |
| Bldg Const Off-Road Diesel | 0.95 | 5.51 | 8.07 | - | 0.15 | 0.15 | 0.00 |
| Bldg Const Worker Trips | 0.01 | 0.01 | 0.15 | 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 |
| | 0.00 | 5.52 | 8.22 | 0.00 | 0.15 | 0.15 | 0.00 |
| Total tons/year | 0.90 | 3.32 | 0.22 | 0.00 | 0.10 | 0.10 | 0.00 |
| Total all phases tons/yr | 0.96 | 5.52 | 8.22 | 0.00 | 0.15 | 0.15 | 0.00 |

Construction-Related Mitigation Measures

Crushing/Processing Equip

Off Highway Tractors Off Highway Trucks

2

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%) 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: Stockpiles: Cover all stock piles with tarps Percent Reduction (ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%) 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%) Phase 1 - Demolition Assumptions Start Month/Year for Phase 1: Jan '06 Phase 1 Duration: 6 months Building Volume Total (cubic feet): 680166.4 Building Volume Daily (cubic feet): 5152.9 On-Road Truck Travel (VMT): 285 Off-Road Equipment Hours/Day No. Type Horsepower Load Factor 0.730 0.780 Concrete/Industrial saws 84

154

255

417

0.410

0.490

8.0 8.0

8.0

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jul '06 Phase 2 Duration: 6 months On-Road Truck Travel (VMT): 0 Off-Road Equipment

| JII-KOau E | 401 billette | | | |
|------------|----------------------|------------|-------------|-----------|
| No. | ľvpe | Horsepower | Load Factor | Hours/Day |
| | Excavators | 180 | 0.580 | 8.0 |
| 2 (| Graders | 174 | 0.575 | 8.0 |
| | Off Highway Tractors | 255 | 0.410 | 8.0 |
| | Off Highway Trucks | 417 | 0.490 | 8.0 |
| | Scrapers | 313 | 0.660 | 8.0 |

Phase 3 - Building Construction Assumptions Start Month/Year for Phase 3: Jan '07 Phase 3 Duration: 48 months Start Month/Year for SubPhase Building: Jan '07 SubPhase Building Duration: 41 months

| No. | Type | Horsepower | Load Factor | Hours/Day |
|---------|-------------------------------------|------------|-------------|-----------|
| 2 | Cranes | 190 | 0.430 | 8.0 |
| 3 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 2 | Rough Terrain Forklifts | 94 | 0.475 | 8.0 |
| 2 | Trenchers | 82 | 0.695 | 8.0 |
| SubPhas | e Architectural Coatings Turned OF | F | | |
| Start M | Nonth/Year for SubPhase Asphalt: Ju | n '07 | | |
| SubPhas | e Asphalt Duration: 6 months | | | |
| Acres t | o be Paved: 4 | | | |

| TICLED | co be farea. 1 | | | |
|--------|----------------------|------------|-------------|-----------|
| Off-Ro | ad Equipment | | | |
| No. | Type | Horsepower | Load Factor | Hours/Day |
| 1 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 2 | Pavers | 132 | 0.590 | 8.0 |
| 2 | Paving Equipment | 111 | 0.530 | 8.0 |
| 2 | Rollers | 114 | 0.430 | 8.0 |
| 2 | Surfacing Equipment | 437 | 0.490 | 8.0 |
| ۷. | Surracting Equipment | 10, | ***** | |

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| AREA SOURCE EMISSION ESTIMATES | (Tons pe | r Year, | Unmitigated) | | |
|--------------------------------|----------|---------|--------------|------|------|
| Source | ROG | NOx | СО | SO2 | PM10 |
| Natural Gas | 0.06 | 0.80 | 0.68 | 0.00 | 0.00 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.07 | 0.01 | 0.51 | 0.00 | 0.00 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 0.26 | - | - | - | _ |
| TOTALS (tpy, unmitigated) | 0.39 | 0.81 | 1.19 | 0.00 | 0.00 |
| AREA SOURCE EMISSION ESTIMATES | (Tons pe | r Year, | Mitigated) | | |
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.06 | 0.80 | 0.68 | 0 | 0.00 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.07 | 0.01 | 0.51 | 0.00 | 0.00 |
| Consumer Prdcts | 0.00 | - | - | _ | - |
| Architectural Coatings | 0.26 | | - | - | - |
| TOTALS (tpy, mitigated) | 0.39 | 0.81 | 1.19 | 0.00 | 0.00 |

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|-------|
| Light House Museum | 0.11 | 0.13 | 1.18 | 0.00 | 0.12 |
| Dry Stack Boat Storage an | 4.22 | 4.37 | 36.98 | 0.02 | 4.36 |
| Retail/Restaurant | 1.18 | 1.40 | 12.41 | 0.01 | 1.27 |
| Retail-Restaurant-Restaur | 8.26 | 10.74 | 93.72 | 0.06 | 10.04 |
| Dry Stack Boat Storage - | 0.34 | 0.43 | 3.79 | 0.00 | 0.41 |
| Dry Stack Boat Storage Of | 0.06 | 0.09 | 0.74 | 0.00 | 0.09 |
| Boat Yard Building | 0.05 | 0.07 | 0.63 | 0.00 | 0.07 |
| BSB- Yacht Brokerage | 0.12 | 0.18 | 1.52 | 0.00 | 0.19 |
| BSB - 2 | 0.02 | 0.03 | 0.30 | 0.00 | 0.03 |
| | | | | | |
| TOTAL EMISSIONS (tons/yr) | 14.37 | 17.46 | 151.27 | 0.09 | 16.59 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | No. Units | Total Trips |
|---|---------|---|---|---------------------------------|--------------|----------------|
| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB- Yacht Brokerage BSB - 2 | | 2.96 44.32 127.15 44.32 11.01 15.86 11.01 | trips/1000 sq. trips/Slips trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. trips/1000 sq. | ft. ft. ft. ft. ft. | 32.80 | |

15,205.36 59,936.54 Sum of Total Trips Total Vehicle Miles Traveled

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 54.70 | 1.10 | 98.70 | 0.20 |
| Light Truck < 3,750 lb | s 15.20 | 2.00 | 96.00 | 2.00 |
| Light Truck 3,751- 5,75 | 0 16.20 | 1.20 | 98.10 | 0.70 |
| Med Truck 5.751-8.50 | 0 7.30 | 1.40 | 95.90 | 2.70 |
| Lite-Heavy 8,501-10,00 | 0 1.10 | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,00 | 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | 0 1.00 | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,00 | 0.90 | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lb | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.60 | 68.80 | 31.20 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.40 | 7.10 | 85.70 | 7.20 |

Travel Conditions

| Travel Conditions | | Residential | | | Commercia | 1 |
|---------------------------|---------|--------------|-------|---------|------------|----------|
| | | | | | Commercia. | 1 |
| | Home- | Home- | Home- | | | |
| | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (| bv land | use) | | | | |
| Light House Museum | • | • | | 5.0 | 2.5 | 92.5 |
| Dry Stack Boat Storage an | d Car T | railer Parki | ng | 2.0 | 1.0 | 97.0 |
| Retail/Restaurant | | | - | 2.0 | 1.0 | 97.0 |
| Retail-Restaurant-Restaur | ant | | | 2.0 | 1.0 | 97.0 |
| Dry Stack Boat Storage - | | STore | | 2.0 | 1.0 | 97.0 |
| Dry Stack Boat Storage Of | | | | 2.0 | 1.0 | 97.0 |
| | | | | | | |

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| Boat Yard Building | 50.0 | 25.0 | 25.0 |
|----------------------|------|------|------|
| BSB- Yacht Brokerage | 90.0 | 5.0 | 5.0 |
| BSB - 2 | 41.5 | 20.8 | 37.8 |

MITIGATED OPERATIONAL EMISSIONS

| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB- Yacht Brokerage BSB - 2 | ROG 0.08 3.45 0.88 6.06 0.25 0.05 0.04 0.09 | NOx 0.10 3.19 1.02 7.85 0.32 0.06 0.05 0.13 | CO 0.86 27.02 9.07 68.46 2.77 0.54 0.46 1.11 0.22 | SO2 0.00 0.02 0.01 0.04 0.00 0.00 0.00 | PM10 0.09 3.19 0.93 7.34 0.30 0.06 0.05 0.14 |
|---|---|---|--|---|--|
| BSB - 2 TOTAL EMISSIONS (tons/yr) PERCENTAGE REDUCTION % | 10.93 | 12.75 27 | 110.50 | 0.00 0.07 27 | 12.12 27 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2010

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | | No. Units | Total |
|---|---------|--|---|-------------------|--------------------------|--------------|---|
| Light House Museum Dry Stack Boat Storage an Retail/Restaurant Retail-Restaurant-Restaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB- Yacht Brokerage | | 2.96 44.32 127.15 44.32 11.01 15.86 | trips/1000 trips/Slips trips/1000 trips/1000 trips/1000 trips/1000 trips/1000 | sq. sq. sq. | ft. ft. ft. ft. | 32.80 | 3,048.80 1,453.70 9,968.56 403.31 61.66 39.65 74.87 |
| BSB - 2 | | 11.01 | trips/1000 | sq. | ft. | 1.80 | 19.82 |

Sum of Total Trips 15,205.36
Total Vehicle Miles Traveled 59,936.54

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 54.70 | 1.10 | 98.70 | 0.20 |
| Light Truck < 3,750 lb. | s 15.20 | 2.00 | 96.00 | 2.00 |
| Light Truck 3,751- 5,75 | | 1.20 | 98.10 | 0.70 |
| Med Truck 5,751-8,50 | | 1.40 | 95.90 | 2.70 |
| Lite-Heavy 8,501-10,00 | | 0.00 | 81.80 | 18.20 |
| Lite-Heavy 10,001-14,00 | - | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 0.00 | 20.00 | 80.00 |
| Heavy-Heavy 33,001-60,00 | | 0.00 | 11.10 | 88.90 |
| Line Haul > 60,000 lb | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.60 | 68.80 | 31.20 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 1.40 | 7.10 | 85.70 | 7.20 |

| _ | |
|--------|------------|
| Travel | Conditions |

| Travel Conditions | | | | | | | | |
|------------------------------|---------|--------------|-------|---------|------------|----------|--|--|
| | | Residential | | | Commercial | | | |
| | Home- | Home- | Home- | | | | | |
| | Work | Shop | Other | Commute | Non-Work | Customer | | |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 | | |
| Rural Trip Length (miles) | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 | | |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | | |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | | | |
| % of Trips - Commercial () | by land | use) | | | | | | |
| Light House Museum | | | | 5.0 | 2.5 | 92.5 | | |
| Dry Stack Boat Storage and | d Car T | railer Parki | ing | 2.0 | 1.0 | 97.0 | | |
| Retail/Restaurant | | | | 2.0 | 1.0 | 97.0 | | |
| Retail-Restaurant-Restaurant | | | | 2.0 | 1.0 | 97.0 | | |
| Dry Stack Boat Storage - | | STore | | 2.0 | 1.0 | 97.0 | | |

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| Dry Stack Boat Storage Office | 2.0 | 1.0 | 97.0 |
|-------------------------------|------|------|------|
| Boat Yard Building | 50.0 | 25.0 | 25.0 |
| BSB- Yacht Brokerage | 90.0 | 5.0 | 5.0 |
| BSB - 2 | 41.5 | 20.8 | 37.8 |

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MITIGATION OPTIONS SELECTED

Non-Residential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%

Inputs Selected:

The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Transit Service Mitigation

Percent Reduction in Trips is 0.04%

Inputs Selected:

The Number of Daily Weekday Buses Stopping Within 1/4 Mile of Site is 3
The Number of Daily Rail or Bus Rapid Transit Stops Within 1/2 Mile of Site is 0

The Number of Dedicated Daily Shuttle Trips is 0

Non-Residential Pedestrian/Bicycle Friendliness Mitigation

Percent Reduction in Trips is 4.08%

Inputs Selected:

The Number of Intersections per Square Mile is 15
The Percent of Streets with Sidewalks on One Side is %
The Percent of Streets with Sidewalks on Both Sides is 75%

The Percent of Arterials/Collectors with Bike Lanes or where Suitable,

Direct Parallel Routes Exist is 60%

Non-Residential Parking Pricing/Cash Out Mitigation

Percent Reduction in Trips is 20.83%

Inputs Selected:

The Daily Parking Change was set to 5 dollars

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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: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
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.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off. The area souce mitigation measure option switch changed from off to on. The landscape year changed from 2005 to 2012.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2010.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.
The Res and Non-Res Trans Demand Mgmt Measures Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb
Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

| CONSTRUCTION EMISSION ESTIMATES | | | | | | | |
|-----------------------------------|------------|------------|--------|------|--------|-----------------|-------|
| CONSTRUCTION EMISSION ESTIMATES | | | | | PM10 | PM10 | PM10 |
| *** 2012 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 11.87 | 69.37 | 101.00 | 0.01 | 16.05 | 2.04 | 14.01 |
| TOTALS (lbs/day, mitigated) | 11.87 | 69.37 | 101.00 | 0.01 | 4.14 | 2.04 | 2.10 |
| | | | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2013 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| TOTALS (lbs/day, mitigated) | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| | | | | | 2012.0 | DM1.0 | PM10 |
| | | | | | PM10 | PM10 | DUST |
| *** 2014 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST 3.91 | 0.47 |
| TOTALS (lbs/day,unmitigated) | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | | 0.47 |
| TOTALS (lbs/day, mitigated) | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| | | | | | PM10 | PM10 | PM10 |
| | DOG | 210 | со | SO2 | TOTAL | EXHAUST | DUST |
| *** 2015 *** | ROG | NOx | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| TOTALS (lbs/day,unmitigated) | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| TOTALS (lbs/day, mitigated) | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.40 |
| | | | | | PM10 | PM10 | PM10 |
| *** 2016 *** | ROG | NOx | со | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| TOTALS (lbs/day, mitigated) | 4.51 | 21.12 | 44.50 | 0.00 | 1.20 | 01/1 | 0.10 |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | ROG | NOx | СО | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 22.74 | 34.18 | 39.31 | 0.00 | 0.08 | | |
| TOTALS (lbs/day, mitigated) | 22.74 | 34.18 | 39.31 | 0.00 | 0.08 | | |
| TOTALS (IDS/day, microaced) | 22.71 | 01.10 | 0,,,,, | | | | |
| OPERATIONAL (VEHICLE) EMISSION I | ESTIMATES | | | | | | |
| (,,,,, | ROG | NOx | CO | SO2 | PM10 | | |
| | 44.00 | 29.73 | 320.21 | 0.86 | 148.58 | | |
| TOTALS (lbs/day,unmitigated) | 44.29 | 29.73 | 300.61 | 0.81 | 139.49 | | |
| TOTALS (lbs/day, mitigated) | 42.40 | 27.91 | 300.61 | 0.01 | 139.49 | | |
| CITY OF ADEA AND ODERATIONAL FILE | CCION DOM: | r M N TI C | | | | | |
| SUM OF AREA AND OPERATIONAL EMI: | ROG ROG | NOX | со | SO2 | PM10 | | |
| momato (11-/d | 67.03 | 63.92 | 359.51 | 0.86 | 148.66 | | |
| TOTALS (lbs/day, unmitigated) | 65.14 | 62.10 | 339.91 | 0.81 | 139.57 | | |
| TOTALS (lbs/day, mitigated) | 00.14 | 02.10 | 222.21 | 0.01 | 133.37 | | |

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb
Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Winter)

| CONSTRUCTION EMISSION ESTIMATES | | | | | | | D1/10 |
|--|-----------|--------|--------|------|---------------|---------|-------|
| | | | | | PM10 | PM10 | PM10 |
| *** 2012 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 11.87 | 69.37 | 101.00 | 0.01 | 16.05 | 2.04 | 14.01 |
| TOTALS (lbs/day, mitigated) | 11.87 | 69.37 | 101.00 | 0.01 | 4.14 | 2.04 | 2.10 |
| | | | | | D141 0 | PM10 | PM10 |
| | | | | 200 | PM10 | EXHAUST | DUST |
| *** 2013 *** | ROG | NOx | CO | SO2 | TOTAL 4.38 | 3.91 | 0.47 |
| TOTALS (lbs/day,unmitigated) | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| TOTALS (lbs/day, mitigated) | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| | | | | | PM10 | PM10 | PM10 |
| *** 2014 *** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| TOTALS (lbs/day,unmitigated) TOTALS (lbs/day, mitigated) | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| TOTALS (IDS/day, mitigated) | 19.70 | 111.45 | 174.05 | 0.00 | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2015 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| TOTALS (lbs/day, mitigated) | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| TOTALS (IDS/day, milligated) | 1.51 | 21.12 | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2016 *** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (lbs/day,unmitigated) | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| TOTALS (lbs/day, mitigated) | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| TOTALS (IDS/day, micigated) | 1101 | 22.125 | | | | | |
| AREA SOURCE EMISSION ESTIMATES | | | | | | | |
| AREA SOURCE EMISSION ESTIMATES | ROG | NOx | co | SO2 | PM10 | | |
| TOTALS (lbs/day,unmitigated) | 21.21 | 34.02 | 28.58 | 0.00 | 0.06 | | |
| TOTALS (lbs/day, mitigated) | 21.21 | 34.02 | 28.58 | 0.00 | 0.06 | | |
| TOTALS (IDS/day, micigated) | 21.21 | 01.00 | | | | | |
| OPERATIONAL (VEHICLE) EMISSION H | ESTIMATES | | | | | | |
| , , | ROG | NOx | CO | SO2 | PM10 | | |
| | 27 22 | 43.59 | 377.30 | 0.77 | 148.58 | | |
| TOTALS (lbs/day,unmitigated) | 37.23 | | 354.21 | 0.77 | 139.49 | | |
| TOTALS (lbs/day, mitigated) | 34.95 | 40.93 | 354.21 | 0.73 | 139.49 | | |
| | | | | | | | |
| SUM OF AREA AND OPERATIONAL EMI | | | 20 | S02 | PM10 | | |
| | ROG | NOX | CO | | 148.64 | | |
| TOTALS (lbs/day,unmitigated) | 58.44 | 77.62 | 405.88 | 0.77 | 139.55 | | |
| TOTALS (lbs/day, mitigated) | 56.16 | 74.95 | 382.79 | 0.73 | 139.35 | | |
| | | | | | | | |

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URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb
Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

| CONSTRUCTION EMISSION ESTIMATE | S | | | | | | |
|--------------------------------|------------|-------|-------|------|---------------|-----------------|--------------|
| | | | | | PM10 | PM10 | PM10 |
| *** 2012 *** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 1.46 | 8.77 | 12.42 | 0.00 | 1.25 | 0.26 | 0.99 0.21 |
| TOTALS (tpy, mitigated) | 1.46 | 8.77 | 12.42 | 0.00 | 0.47 | 0.26 | 0.21 |
| | | | | | PM10 | PM10 | PM10 |
| *** 2013 *** | ROG | NOx | со | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 1.00 | 4.80 | 9.49 | 0.00 | 0.22 | 0.16 | 0.06 |
| TOTALS (tpy, mitigated) | 1.00 | 4.80 | 9.49 | 0.00 | 0.22 | 0.16 | 0.06 |
| TOTALS (tpy, mitigated) | 1.00 | 1.00 | | | | | |
| | | | | | PM10 | PM10 | PM10 |
| *** 2014 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 1.32 | 6.81 | 12.46 | 0.00 | 0.29 | 0.23 | 0.06 |
| TOTALS (tpy, mitigated) | 1.32 | 6.81 | 12.46 | 0.00 | 0.29 | 0.23 | 0.06 |
| | | | | | | D) (1.0 | PM10 |
| | | | | | PM10 | PM10 | DUST |
| *** 2015 *** | ROG | NOx | CO | SO2 | TOTAL | EXHAUST 0.09 | 0.06 |
| TOTALS (tpy, unmitigated) | 0.58 | 2.78 | 5.73 | 0.00 | 0.15 | 0.09 | 0.06 |
| TOTALS (tpy, mitigated) | 0.58 | 2.78 | 5.73 | 0.00 | 0.15 | 0.09 | 0.00 |
| | | | | | PM10 | PM10 | PM10 |
| *** 2016 *** | ROG | NOx | co | SO2 | TOTAL | EXHAUST | DUST |
| TOTALS (tpy, unmitigated) | 0.24 | 1.16 | 2.41 | 0.00 | 0.07 | 0.04 | 0.03 |
| TOTALS (tpy, ministryated) | 0.24 | 1.16 | 2.41 | 0.00 | 0.07 | 0.04 | 0.03 |
| TOTALS (tpy, mittigated) | 0.21 | 1.10 | 2.11 | 0.00 | **** | | |
| | | | | | | | |
| AREA SOURCE EMISSION ESTIMATE: | | | | 200 | DM1.0 | | |
| | ROG | NOx | co | S02 | PM10 0.01 | | |
| TOTALS (tpy, unmitigated) | 3.06 | 6.22 | 6.18 | 0.00 | 0.01 | | |
| TOTALS (tpy, mitigated) | 3.06 | 6.22 | 6.18 | 0.00 | 0.01 | | |
| OPERATIONAL (VEHICLE) EMISSIO | N FSTTMATE | 25 | | | | | |
| OPERATIONAL (VENICUE) EMISSIO | ROG | NOx | co | SO2 | PM10 | | |
| TOTALS (tpy, unmitigated) | 7.65 | 6.27 | 61.91 | 0.15 | 27.12 | | |
| TOTALS (tpy, mitigated) | 7.28 | 5.89 | 58.12 | 0.14 | 25.46 | | |
| TOTALS (tpy, mittigated) | 7.20 | 3.03 | 30.11 | | | | |
| | | | | | | | |
| SUM OF AREA AND OPERATIONAL E | | | | | D141.0 | | |
| | ROG | NOx | CO | SO2 | PM10 27.13 | | |
| TOTALS (tpy, unmitigated) | 10.72 | 12.49 | 68.09 | 0.15 | | | |
| TOTALS (tpy, mitigated) | 10.35 | 12.11 | 64.30 | 0.14 | 25.47 | | |
| | | | | | | | |

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb
Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: January, 2012
Construction Duration: 60
Total Land Use Area to be Developed: 1.4 acres
Maximum Acreage Disturbed Per Day: 1.4 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 1337150

| CONSTRUCTION EMISSION ESTIMAS | res unmitio | GATED (lbs | /day) | | PM10 | PM10 | PM10 |
|--|-----------------------|-----------------------|--------|--------------|--------|---------|-------|
| Source *** 2012*** | ROG | NOx | со | SO2 | TOTAL | EXHAUST | DUST |
| Phase 1 - Demolition Emission | ns | | | | | | |
| Fugitive Dust | _ | _ | _ | - | 1.11 | - | 1.11 |
| Off-Road Diesel | 10.12 | 60.79 | 85.23 | - | 1.91 | 1.91 | 0.00 |
| On-Road Diesel | 0.14 | 2.86 | 0.51 | 0.01 | 0.08 | 0.06 | 0.02 |
| Worker Trips | 0.06 | 60.79 2.86 0.13 | 1.43 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 10.32 | 63.78 | 87.17 | 0.01 | 3.11 | 1.97 | 1.14 |
| Phase 2 - Site Grading Emiss | ions | | | | | | |
| Fugitive Dust | _ | - | - | - | 14.00 | - | 14.00 |
| Off-Road Diesel | 11.85 | 69.36 | 100.69 | _ | 2.04 | 2.04 | 0.00 |
| On-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips | 0.02 | 0.01 | 0.31 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 11.87 | 69.37 | 101.00 | 0.00 | 16.05 | 2.04 | 14.01 |
| Phase 3 - Building Construct | | | | | | | 0.00 |
| Bldg Const Off-Road Diesel | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Bldg 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 | 11.87 | 69.37 | 101.00 | 0.01 | 16.05 | 2.04 | 14.01 |
| *** 2013*** | | | | | | | |
| Phase 1 - Demolition Emission | ns | | | | | | |
| Fugitive 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 |
| 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 Emiss | ions | | | | | | |
| Fugitive 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 3 - Building Construct | | 00.04 | 07.20 | _ | 0.71 | 0.71 | 0.00 |
| Bldg Const Off-Road Diesel | | | 27.38 | | 0.71 | | |
| Bldg Const Worker Trips Arch Coatings Off-Gas | 2.00 | 1.26 | 26.83 | 0.00 | 0.49 | 0.03 | 0.46 |
| Arch Coatings Off-Gas | 0.00 | | - | - | - 0.00 | - 0.00 | |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Aspitate off oas | 0,00 | - | | - | - | - 2 17 | 0 00 |
| Asphalt Off-Road Diesel | 14.42 | 89.73 | 120.16 | . | 3.17 | 3.17 | 0.00 |
| Asphalt On-Road Diesel | 0.00 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Worker Trips | 0.00 0.04 19.78 | 0.02 | 0.49 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| Max lbs/day all phases | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |

| Phase 1 - Demolition Emissions | | | | | 0.00 | _ | 0.00 |
|---|---------------|---------------|----------------|--------------|--------------|--------------|------|
| Fugitive Dust 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 |
| m o oli o line melesia | | | | | | | |
| Phase 2 - Site Grading Emissic Fugitive Dust | ons - | _ | _ | _ | 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 3 - Building Construction | nn . | | | | | | |
| Bldg Const Off-Road Diesel | 3.28 | 20.34 | 27.38 | _ | 0.71 | 0.71 | 0.00 |
| Bldg Const Worker Trips | 2.00 | 1.26 | 26.83 | 0.00 | 0.49 | 0.03 | 0.46 |
| Arch Coatings Off-Gas | 0.00 | _ | _ | - | - | - | 0 00 |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Gas Asphalt Off-Road Diesel | 0.03 14.42 | 89.73 | 120.16 | - | 3.17 | 3.17 | 0.00 |
| Asphalt On-Road Diesel | 0.00 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Worker Trips | 0.04 | 0.02 | 0.49 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| () | 10 70 | 111 42 | 17/ 00 | 0.00 | 4.38 | 3.91 | 0.47 |
| Max lbs/day all phases | 19.78 | 111.43 | 174.89 | 0.00 | 4.50 | 3.71 | 0.17 |
| | | | | | | | |
| *** 2015*** | | | | | | | |
| Phase 1 - Demolition Emission | S | | | | | | 0.00 |
| Fugitive Dust | - 0.0 | - 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| On-Road Diesel 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 Emissi | ons | | _ | _ | 0.00 | _ | 0.00 |
| Fugitive Dust | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 3 - Building Constructi | on 3.28 | 20.34 | 27.38 | _ | 0.71 | 0.71 | 0.00 |
| Bldg Const Off-Road Diesel Bldg Const Worker Trips | 1.23 | 0.78 | 17.58 | 0.00 | 0.49 | 0.03 | 0.46 |
| 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 | - | - | - | - 00 | 0.00 | 0.00 |
| Asphalt Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt On-Road Diesel Asphalt Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum lbs/day | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| | | | | | | | |
| Max lbs/day all phases | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| | | | | | | | |
| *** 2016*** | | | | | | | |
| Phase 1 - Demolition Emission | ıs | | | | | | |
| Fugitive 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 | 0.00 | 0.00 |
| Worker Trips Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum 1537 day | 0.00 | | | | | | |
| Phase 2 - Site Grading Emiss | ions | | | | | | 0.00 |
| Fugitive Dust | _ | - | - | - | 0.00 | 0 00 | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 0.00 | 0.00 |
| On-Road Diesel 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 3 - Building Construct: | | 00.00 | 07.00 | | A 71 | 0 71 | 0.00 |
| Bldg Const Off-Road Diesel | 3.28 | 20.34 0.78 | 27.38 17.58 | 0.00 | 0.71 0.49 | 0.71 0.03 | 0.00 |
| Bldg Const Worker Trips Arch Coatings Off-Gas | 1.23 | 0.78 | 11.30 | 0.00 | 0.45 | 0.05 | - |
| 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 Asphalt On-Road Diesel Asphalt Worker Trips Maximum lbs/day | 0.00 0.00 0.00 4.51 | 0.00 0.00 0.00 21.12 | 0.00 0.00 0.00 44.96 | 0.00 0.00 0.00 | 0.00 0.00 0.00 1.20 | 0.00 0.00 0.00 0.74 | 0.00 0.00 0.00 0.46 |
|--|------------------------------|-------------------------------|-------------------------------|----------------------|------------------------------|------------------------------|------------------------------|
| Max lbs/day all phases | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| Phase 1 - Demolition Assumpt | ions | | | | | | |

Start Month/Year for Phase 1: Jan '12 Phase 1 Duration: 6 months

Building Volume Total (cubic feet): 3490646.4 Building Volume Daily (cubic feet): 2653.35 On-Road Truck Travel (VMT): 147 Off-Road Equipment

| No. | Type | Horsepower | Load Factor | Hours/Day |
|-----|--------------------------|------------|-------------|-----------|
| 1 | Concrete/Industrial saws | 84 | 0.730 | 8.0 |
| 1 | Off Highway Tractors | 255 | 0.410 | 8.0 |
| 2 | Off Highway Trucks | 417 | 0.490 | 8.0 |

Phase 2 - Site Grading Assumptions Start Month/Year for Phase 2: Jul '12

Phase 2 Duration: 6 months

| n-Road | Truck | Travel | (VMT): | 0 |
|---------|---------|----------|--------|---|
| ff-Road | d Equip | oment | | |
| No. | Туре | 9 | | |
| _ | 000 | 77.7 - 3 | . m 1 | |

| f-Road | Equipment | | | (5 |
|--------|--------------------|------------|-------------|-----------|
| No. | Type | Horsepower | Load Factor | Hours/Day |
| 2 | Off Highway Trucks | 417 | 0.490 | 8.0 |
| 1 | Scrapers | 313 | 0.660 | 8.0 |
| 1 | Trenchers | 82 | 0.695 | 8.0 |

Phase 3 - Building Construction Assumptions Start Month/Year for Phase 3: Jan '13 Phase 3 Duration: 48 months

Start Month/Year for SubPhase Building: Jan '13 SubPhase Building Duration: 41 months

| Off-Roa | ad Equipment | | | |
|---------|----------------------|------------|-------------|-----------|
| No. | Type | Horsepower | Load Factor | Hours/Day |
| 1 | Cranes | 190 | 0.430 | 8.0 |
| 1 | Off Highway Tractors | 255 | 0.410 | 8.0 |

OIR Highway Tractors
SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Nov '13
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 1.4

0

| d Equipment | | | |
|---------------------|---|--|--|
| Type | Horsepower | Load Factor | Hours/Day |
| Off Highway Trucks | 417 | 0.490 | 8.0 |
| Pavers | 132 | 0.590 | 8.0 |
| Paving Equipment | 111 | 0.530 | 8.0 |
| Rollers | 114 | 0.430 | 8.0 |
| Surfacing Equipment | 437 | 0.490 | 8.0 |
| | Off Highway Trucks Pavers Paving Equipment Rollers | Type Horsepower Off Highway Trucks 417 Pavers 132 Paving Equipment 111 Rollers 114 | Type Horsepower Load Factor Off Highway Trucks 417 0.490 Pavers 132 0.590 Paving Equipment 111 0.530 Rollers 114 0.430 |

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| AREA SOURCE EMISSION ESTIMATES | (Winter | Pounds per | Day, Unmiti | igated) | |
|--------------------------------|---------|------------|-------------|---------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 2.47 | 34.02 | 28.58 | 0 | 0.06 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping - No winter emiss | ions | | | | |
| Consumer Prdcts | 0.00 | - | - | - | _ |
| Architectural Coatings | 18.74 | _ | - | | - |
| TOTALS (lbs/day, unmitigated) | 21.21 | 34.02 | 28.58 | 0.00 | 0.06 |

| | ROG | NOx | co | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|--------|
| Light House Museum | 0.18 | 0.20 | 1.79 | 0.00 | 0.66 |
| Car Trailer Parking | 4.73 | 6.53 | 53.26 | 0.12 | 23.82 |
| Youth Group Facilities | 0.58 | 0.73 | 6.14 | 0.01 | 2.57 |
| Yacht Clubs | 0.85 | 0.95 | 8.36 | 0.02 | 3.17 |
| Harbor Patrol Building | 0.11 | 0.13 | 1.13 | 0.00 | 0.43 |
| Beach House Restaurant | 1.91 | 2.15 | 18.87 | 0.04 | 7.21 |
| Hotel | 2.83 | 3.39 | 29.10 | 0.06 | 11.71 |
| Boat Slips | 8.48 | 10.17 | 87.18 | 0.18 | 35.07 |
| Hotel Restaurant | 0.43 | 0.51 | 4.39 | 0.01 | 1.71 |
| Retail/Restaurant | 1.94 | 2.09 | 18.70 | 0.04 | 6.78 |
| Retail/Restaurant-Restaur | 13.31 | 14.31 | 128.27 | 0.24 | 46.51 |
| Dry Stack Boat Storage - | 0.54 | 0.58 | 5.19 | 0.01 | 1.88 |
| Dry Stack Boat Storage Of | 0.10 | 0.13 | 1.07 | 0.00 | 0.48 |
| Boat Yard Building | 0.08 | 0.11 | 0.87 | 0.00 | 0.40 |
| BSB- Yacht Brokerage | 0.18 | 0.26 | 2.05 | 0.01 | 1.01 |
| BSB - ALL 12 | 0.77 | 1.08 | 8.66 | 0.02 | 4.07 |
| Dry Stack Boat Storage-Re | 0.20 | 0.28 | 2.28 | 0.01 | 1.08 |
| TOTAL EMISSIONS (lbs/day) | 37.23 | 43.59 | 377.30 | 0.77 | 148.58 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| | | | | | No. | Total |
|---------------------|----------------|--------|-------------|--------|----------|----------|
| Unit Type | Acreage | Trip | Rate | | Units | Trips |
| | | | | | | |
| Light House Museum | | 54.00 | trips/1000 | sq. f | | 135.00 |
| Car Trailer Parking | | 2.96 | trips/Slips | 3 | | 3,048.80 |
| Youth Group Facilit | ies | 22.88 | trips/1000 | sq. f | | 388.96 |
| Yacht Clubs | | 22.88 | trips/1000 | sq. f | | 608.61 |
| Harbor Patrol Build | ing | 11.01 | trips/1000 | sq. f | | 82.58 |
| Beach House Restaur | - | 89.95 | trips/1000 | sq. f | t. 15.00 | 1,349.25 |
| Hotel | | 8.92 | trips/occup | pied r | | 1,962.40 |
| Boat Slips | | 2.96 | trips/slips | 3 | 1,986.00 | 5,878.56 |
| Hotel Restaurant | | 127.15 | trips/1000 | sq. f | t. 2.45 | 311.52 |
| Retail/Restaurant | | 44.32 | trips/1000 | sq. f | t. 32.80 | 1,453.70 |
| Retail/Restaurant-R | estaur | 127.15 | trips/1000 | sq. f | t. 78.40 | 9,968.56 |
| Dry Stack Boat Stor | | 44.32 | trips/1000 | sq. f | t. 9.10 | 403.31 |
| Dry Stack Boat Stor | | 11.01 | trips/1000 | sq. f | t. 5.60 | 61.66 |
| Boat Yard Building | -5 | | trips/1000 | | | 39.65 |
| BSB- Yacht Brokerag | re. | 11.01 | trips/1000 | sq. f | t. 6.80 | 74.87 |
| BSB - ALL 12 | · - | | trips/1000 | | | 394.16 |
| Dry Stack Boat Stor | age-Re | | trips/1000 | | | 100.19 |
| Dig Deach Doad Door | | | • | - | | |

Sum of Total Trips 26,261.76
Total Vehicle Miles Traveled 98,334.75

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lb | | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,75 | | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751-8,50 | - | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10,00 | | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,00 | | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,00 | | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lb | | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |

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| Travel Conditions Urban Trip Length (miles) Rural Trip Length (miles) Trip Speeds (mph) | 11.5 | Residential Home- Shop 4.9 4.9 | 6.0 6.0 | Commute 10.3 10.3 | 5.5 5.5 | Customer 5.5 5.5 |
|---|------------------------------------|--|------------|---|---|--|
| % of Trips - Residential | | 37.0 | 43.0 | | | |
| % of Trips - Commercial (Light House Museum Car Trailer Parking Youth Group Facilities Yacht Clubs Harbor Patrol Building Beach House Restaurant Hotel Boat Slips Hotel Restaurant Retail/Restaurant Retail/Restaurant Testaur Dry Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building BSB - Yacht Brokerage BSB - ALL 12 Dry Stack Boat Storage-Research | by land eant Retail ffice | | | 5.0 2.0 5.0 5.0 5.0 5.0 2.0 2.0 2.0 2.0 2.0 41.5 48.0 | 2.5 4.0 2.5 2.5 1.0 1.0 1.0 1.0 25.0 5.0 | 97.0 92.5 92.5 92.5 88.0 92.5 97.0 97.0 97.0 97.0 97.0 |

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Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Industrial park changed from 80 to 90 The Diverted Trip % for Industrial park changed from 20 to 5 The Pass-By Trip % for Industrial park changed from 0 to 5

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
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.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off. The area souce mitigation measure option switch changed from off to on. The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2030.
The operational winter temperature changed from 50 to 40.
The operational winter selection item changed from 3 to 1.
The operational summer temperature changed from 90 to 85.
The operational summer selection item changed from 8 to 6.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.
The Res and Non-Res Ped/Bike Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb
Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: January, 2012

Construction Duration: 60

Construction Duration: 60
Total Land Use Area to be Developed: 1.4 acres
Maximum Acreage Disturbed Per Day: 1.4 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 1337150

| CONSTRUCTION EMISSION ESTIMAT | res unmitio | GATED (lbs. | /day) | | PM10 | PM10 | PM10 |
|--|-------------|-------------|--------|------|--------------|---------|-------|
| _ | ROG | NOx | со | SO2 | TOTAL | EXHAUST | DUST |
| Source *** 2012*** | ROG | NOX | 00 | 502 | 101112 | 2 | |
| Phase 1 - Demolition Emission | n e | | | | | | |
| Fugitive Dust | - | - | _ | _ | 1.11 | - | 1.11 |
| Off-Road Diesel | | 60.79 | 85.23 | _ | 1.91 | 1.91 | 0.00 |
| On-Road Diesel | 10.12 | 2.86 | 0.51 | 0.01 | 0.08 | 0.06 | 0.02 |
| Worker Trips | 0.06 | 0.13 | 1.43 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 10.32 | 63.78 | 87.17 | 0.01 | 3.11 | 1.97 | 1.14 |
| manamam 1227 aag | | | | | | | |
| Phase 2 - Site Grading Emiss | ions | | | | | | |
| Don't bloom Don't | _ | - | - | - | 14.00 | | 14.00 |
| Off-Road Diesel On-Road Diesel | 11.85 | | 100.69 | | 2.04 | 2.04 | 0.00 |
| On-Road Diesel | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips | 0.02 | 0.01 | 0.31 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 11.87 | 69.37 | 101.00 | 0.00 | 16.05 | 2.04 | 14.01 |
| Phase 3 - Building Construct | ion | | | | | | |
| Bldg Const Off-Road Diesel | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Bldg 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 |
| 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 |
| | 44.07 | 60 27 | 101 00 | 0.01 | 16.05 | 2.04 | 14.01 |
| Max lbs/day all phases | 11.87 | 69.37 | 101.00 | 0.01 | 10.05 | 2.01 | 11.01 |
| *** 2013*** | | | | | | | |
| Phase 1 - Demolition Emission | in s | | | | | | |
| Fugitive 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 Emiss | | | | _ | 0.00 | - | 0.00 |
| Fugitive Dust | - | - | - | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 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 | **** |
| Phase 3 - Building Construct | | | | | 0.71 | 0.71 | 0.00 |
| Bldg Const Off-Road Diesel | | 20.34 | 27.38 | 0 00 | 0.71 0.49 | 0.71 | 0.46 |
| Bldg Const Worker Trips Arch Coatings Off-Gas | 2.00 | 1.26 | 26.83 | 0.00 | 0.49 | 0.03 | 0.40 |
| | 0.00 | - | | 0.00 | 0.00 | 0.00 | 0.00 |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| Asphalt Off-Gas | | 89.73 | 120.16 | _ | 3.17 | 3.17 | 0.00 |
| Asphalt Off-Road Diesel | 14.42 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Morkor Trips | 0.00 | 0.00 | 0.49 | 0.00 | 0.01 | 0.00 | 0.01 |
| Asphalt Worker Trips Maximum lbs/day | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | | 0.47 |
| Maximum ibs/day | 17.10 | | | | | | |
| Max lbs/day all phases | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| | | | | | | | |

| Phase 1 - Demolition Emissions | 3 | | | | 0.00 | _ | 0.00 |
|---|---------------|---------------|---------------|------|------|--------|------|
| Fugitive Dust | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 Emissic | ons | | | | | | |
| Fugitive 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 Maximum lbs/day | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| Phase 3 - Building Construction Bldg Const Off-Road Diesel | on 3.28 | 20.34 | 27.38 | - | 0.71 | 0.71 | 0.00 |
| Bldg Const Worker Trips | 2.00 | 1.26 | 26.83 | 0.00 | 0.49 | 0.03 | 0.46 |
| Arch Coatings Off-Gas | 0.00 | - | - | - | - | - | 0.00 |
| Arch Coatings Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Gas Asphalt Off-Road Diesel | 0.03 14.42 | 89.73 | 120.16 | _ | 3.17 | 3.17 | 0.00 |
| Asphalt On-Road Diesel | 0.00 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Asphalt Worker Trips | 0.04 | 0.02 | 0.49 | 0.00 | 0.01 | 0.00 | 0.01 |
| Maximum lbs/day | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| Max lbs/day all phases | 19.78 | 111.43 | 174.89 | 0.00 | 4.38 | 3.91 | 0.47 |
| | | | | | | | |
| *** 2015*** | | | | | | | |
| Phase 1 - Demolition Emission | s _ | _ | _ | _ | 0.00 | _ | 0.00 |
| Fugitive Dust 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 Emissi | ons | | | | | | 0.00 |
| Fugitive Dust | - | | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Off-Road Diesel 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 3 - Building Constructi | on | | | | | | |
| Bldg Const Off-Road Diesel | 3.28 | 20.34 | 27.38 | - | 0.71 | 0.71 | 0.00 |
| Bldg Const Worker Trips | 1.23 | 0.78 | 17.58 | 0.00 | 0.49 | 0.03 | 0.46 |
| Arch Coatings Off-Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arch Coatings Worker Trips 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 4.51 | 0.00 21.12 | 0.00 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| Maximum lbs/day | 4.51 | 21.12 | 11.50 | | | | |
| Max lbs/day all phases | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 | 0.46 |
| *** 2016*** | | | | | | | |
| Phase 1 - Demolition Emission | ıs | | | | | | |
| Fugitive Dust | - | _ | - | _ | 0.00 | - 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| On-Road Diesel 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 Emissi | ions | | | | | | |
| Fugitive Dust | | | _ | - | 0.00 | - 0.00 | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| On-Road Diesel 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 |
| - | ion | | | | | | |
| Phase 3 - Building Constructi Bldg Const Off-Road Diesel | ion 3.28 | 20.34 | 27.38 | _ | 0.71 | 0.71 | 0.00 |
| Bldg Const Worker Trips | 1.23 | 0.78 | 17.58 | 0.00 | 0.49 | 0.03 | 0.46 |
| Arch Coatings Off-Gas | 0.00 | - | - | 0.00 | 0.00 | 0.00 | 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 |
|--|------------|------------|------------|-------------|------|--------------|
| Asphalt On-Road Diesel | 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 |
| Maximum lbs/day | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 |
| naximum 1557 aay | | | | | | |
| Max lbs/day all phases | 4.51 | 21.12 | 44.96 | 0.00 | 1.20 | 0.74 |
| Phase 1 - Demolition Assumpti Start Month/Year for Phase 1: | | | | | | |
| Phase 1 Duration: 6 months | | | | | | |
| Building Volume Total (cubic | | | | | | |
| Building Volume Daily (cubic On-Road Truck Travel (VMT): 1 | | 53.35 | | | | |
| | .47 | | | | | |
| Off-Road Equipment No. Type | | Hor | sepower | Load Factor | Hour | s/Day |
| 1 Concrete/Industrial | eawe | 1101 | 84 | 0.730 | | .0 |
| 1 Off Highway Tractor | | | 255 | 0.410 | | .0 |
| 2 Off Highway Trucks | | | 417 | 0.490 | 8 | .0 |
| 2 022 1125111101 2200111 | | | | | | |
| Phase 2 - Site Grading Assump | otions | | | | | |
| Start Month/Year for Phase 2: | : Jul '12 | | | | | |
| Phase 2 Duration: 6 months | | | | | | |
| On-Road Truck Travel (VMT): (|) | | | | | |
| Off-Road Equipment | | | | | *** | /D |
| No. Type | | Hor | sepower | Load Factor | | s/Day 3.0 |
| 2 Off Highway Trucks | | | 417 313 | 0.490 | | 3.0 |
| 1 Scrapers 1 Trenchers | | | 82 | 0.695 | | 3.0 |
| 1 Trenchers | | | 02 | 0.055 | | ,,, |
| Phase 3 - Building Construct: | ion Assump | tions | | | | |
| Start Month/Year for Phase 3 | | 0 | | | | |
| Phase 3 Duration: 48 months | | | | | | |
| Start Month/Year for SubPha | ase Buildi | ng: Jan '1 | .3 | | | |
| SubPhase Building Duration | : 41 month | s | | | | |
| Off-Road Equipment | | | | | | |
| No. Type | | Ho | sepower | Load Factor | | cs/Day |
| 1 Cranes | | | 190 | 0.430 | | 3.0 |
| 1 Off Highway Tracto | | | 255 | 0.410 | 3 | 3.0 |
| SubPhase Architectural Coa | | | | | | |
| Start Month/Year for SubPh | | t: Nov '1. | 3 | | | |
| SubPhase Asphalt Duration: | 6 months | | | | | |
| Acres to be Paved: 1.4 | | | | | | |
| Off-Road Equipment | | Но | rsepower | Load Factor | Hous | rs/Day |
| No. Type 1 Off Highway Trucks | | no. | 417 | 0.490 | | 3.0 |
| 1 Pavers | | | 132 | 0.590 | | 3.0 |
| 1 Paving Equipment | | | 111 | 0.530 | | 3.0 |
| 1 Rollers | | | 114 | 0.430 | 8 | В.О |
| 2 Surfacing Equipmen | t | | 437 | 0.490 | 8 | 8.0 |
| | | | | | | |

0.00 0.00 0.00 0.46

0.46

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| AREA SOURCE EMISSION ESTIMATES Source Natural Gas Hearth - No summer emissions | (Summer ROG 2.47 | Pounds per NOx 34.02 | Day, Unmi CO 28.58 | tigated) SO2 0 | PM10 0.06 |
|--|------------------------|----------------------------|--------------------------|----------------------|--------------|
| Landscaping | 1.53 | 0.16 | 10.73 | 0.00 | 0.02 |
| Consumer Prdcts | 0.00 | - | - | - | - |
| Architectural Coatings | 18.74 | _ | _ | - | - |
| TOTALS(lbs/day,unmitigated) | 22.74 | 34.18 | 39.31 | 0.00 | 0.08 |

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|-------|--------|------|--------|
| Light House Museum | 0.16 | 0.14 | 1.48 | 0.00 | 0.66 |
| Car Trailer Parking | 7.93 | 4.42 | 47.53 | 0.14 | 23.82 |
| Youth Group Facilities | 0.55 | 0.50 | 5.35 | 0.01 | 2.57 |
| Yacht Clubs | 0.80 | 0.65 | 7.00 | 0.02 | 3.17 |
| Harbor Patrol Building | 0.12 | 0.09 | 0.95 | 0.00 | 0.43 |
| Beach House Restaurant | 1.64 | 1.47 | 15.93 | 0.04 | 7.21 |
| Hotel | 3.20 | 2.31 | 24.94 | 0.07 | 11.71 |
| Boat Slips | 14.65 | 6.93 | 74.71 | 0.20 | 35.07 |
| Hotel Restaurant | 0.37 | 0.35 | 3.70 | 0.01 | 1.71 |
| Retail/Restaurant | 1.73 | 1.43 | 15.29 | 0.04 | 6.78 |
| Retail/Restaurant-Restaur | 11.30 | 9.81 | 104.85 | 0.27 | 46.51 |
| Dry Stack Boat Storage - | 0.48 | 0.40 | 4.24 | 0.01 | 1.88 |
| Dry Stack Boat Storage Of | 0.10 | 0.09 | 0.95 | 0.00 | 0.48 |
| Boat Yard Building | 0.08 | 0.07 | 0.83 | 0.00 | 0.40 |
| BSB- Yacht Brokerage | 0.18 | 0.17 | 2.03 | 0.01 | 1.01 |
| BSB - ALL 12 | 0.79 | 0.73 | 8.24 | 0.02 | 4.07 |
| Dry Stack Boat Storage-Re | 0.21 | 0.19 | 2.18 | 0.01 | 1.08 |
| TOTAL EMISSIONS (lbs/day) | 44.29 | 29.73 | 320.21 | 0.86 | 148.58 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 85 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| | | | | | No. | Total |
|--------------------------|---------|--------|---------------|--------|----------|----------|
| Unit Type | Acreage | Trip | Rate | | Units | Trips |
| | | | | | | |
| Light House Museum | | 54.00 | trips/1000 sq | . ft. | | 135.00 |
| Car Trailer Parking | | 2.96 | trips/Slips | | 1,030.00 | |
| Youth Group Facilities | | 22.88 | trips/1000 sq | . ft. | | 388.96 |
| Yacht Clubs | | 22.88 | trips/1000 sq | ft. | | 608.61 |
| Harbor Patrol Building | | 11.01 | trips/1000 sq | . ft. | | 82.58 |
| Beach House Restaurant | | 89.95 | trips/1000 sq | . ft. | 15.00 | 1,349.25 |
| Hotel | | 8.92 | trips/occupie | d room | 220.00 | 1,962.40 |
| Boat Slips | | 2.96 | trips/slips | | 1,986.00 | 5,878.56 |
| Hotel Restaurant | | 127.15 | trips/1000 sq | . ft. | 2.45 | 311.52 |
| Retail/Restaurant | | 44.32 | trips/1000 sq | . ft. | 32.80 | 1,453.70 |
| Retail/Restaurant-Restau | ır | 127.15 | trips/1000 sc | . ft. | 78.40 | 9,968.56 |
| Dry Stack Boat Storage - | | 44.32 | trips/1000 sc | . ft. | 9.10 | 403.31 |
| Dry Stack Boat Storage (| | 11.01 | trips/1000 sc | . ft. | 5.60 | 61.66 |
| Boat Yard Building | | 15.86 | trips/1000 sc | . ft. | 2.50 | 39.65 |
| BSB- Yacht Brokerage | | 11.01 | trips/1000 sc | . ft. | 6.80 | 74.87 |
| BSB - ALL 12 | | | trips/1000 sc | | 35.80 | 394.16 |
| Dry Stack Boat Storage-1 | Re | | trips/1000 so | | 9.10 | 100.19 |
| Dig Deach Dode Debiage | | | | • | | |

Sum of Total Trips 26,261.76
Total Vehicle Miles Traveled 98,334.75

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| 3 | lbs 15.90 | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5, | | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751-8, | | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10, | | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14, | | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33, | | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60, | | 0.00 | 0.00 | 100.00 |
| | lbs 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |
| LIOTOT HOME | 2.00 | 5.00 | | |

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| Travel Conditions | Home- | Residential Home- | Home- | | Commercial | 1 |
|--|---------|----------------------|-------|--|---|--|
| | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | | | | | | |
| % of Trips - Commercial (Light House Museum Car Trailer Parking Youth Group Facilities Yacht Clubs Harbor Patrol Building Beach House Restaurant Hotel Boat Slips Hotel Restaurant Retail/Restaurant Retail/Restaurant Retail/Restaurant Compart Stack Boat Storage - Dry Stack Boat Storage Of Boat Yard Building | by land | use) | | 5.0 2.0 5.0 5.0 8.0 5.0 2.0 2.0 2.0 2.0 | 1.0 2.5 2.5 2.5 4.0 2.5 2.5 1.0 1.0 1.0 1.0 | 97.0 92.5 92.5 92.5 88.0 92.5 97.0 97.0 97.0 97.0 97.0 |
| BSB- Yacht Brokerage BSB - ALL 12 | | | | | 5.0 20.8 | |
| Dry Stack Boat Storage-Re | etail | | | 48.0 | 24.0 | 28.0 |

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Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Industrial park changed from 80 to 90 The Diverted Trip % for Industrial park changed from 20 to 5 The Pass-By Trip % for Industrial park changed from 0 to 5

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
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.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off. The area souce mitigation measure option switch changed from off to on. The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The mitigation option switch changed from off to on. The operational emission year changed from 2005 to 2030. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6. The Res and Non-Res Local-Serving Retail Mitigation changed from off to on. The Res and Non-Res Transit Service Mitigation changed from off to on. The Res and Non-Res Ped/Bike Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

H:\COMMON\MC Files\URBEMIS2002v8.7\DPH-Harborwide.urb File Name:

Project Name: Dana Point Harbor - Proposed Harborwide
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

Construction Start Month and Year: January, 2012

Construction Duration: 60

Construction Duration: 60
Total Land Use Area to be Developed: 1.4 acres
Maximum Acreage Disturbed Per Day: 1.4 acres
Single Family Units: 0 Multi-Family Units: 0
Retail/Office/Institutional/Industrial Square Footage: 1337150

| CONSTRUCTION EMISSION ESTIMATES | S UNMITIG | ATED (tons | /year) | | PM10 | PM10 | PM10 |
|---------------------------------|-----------|------------|--------|------|--------|------------|------|
| 0 | ROG | NOx | СО | S02 | TOTAL | EXHAUST | DUST |
| Source *** 2012*** | ROG | NOX | 00 | 502 | 101112 | 2111111001 | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | | _ | _ | _ | 0.07 | _ | 0.07 |
| Off-Road Diesel | 0.67 | 4.01 | 5.63 | _ | 0.13 | 0.13 | 0.00 |
| On-Road Diesel | 0.01 | 0.17 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips | 0.00 | 0.01 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons/year | 0.68 | 4.19 | 5.75 | 0.00 | 0.20 | 0.13 | 0.07 |
| iotai tons/year | 0.00 | | | | | | |
| Phase 2 - Site Grading Emissio | ns | | | | | | |
| Fugitive Dust | _ | - | - | _ | 0.92 | _ | 0.92 |
| Off-Road Diesel | 0.78 | 4.58 | 6.65 | _ | 0.13 | 0.13 | 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 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons/year | 0.78 | 4.58 | 6.67 | 0.00 | 1.05 | 0.13 | 0.92 |
| 10001 001157 4001 | • • • • | | | | | | |
| Phase 3 - Building Constructio | n | | | | | | |
| Bldg Const Off-Road Diesel | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| Bldg 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 |
| | 0.00 | 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | **** | |
| Total all phases tons/yr | 1.46 | 8.77 | 12.42 | 0.00 | 1.25 | 0.26 | 0.99 |
| | | | | | | | |
| *** 2013*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | | | | | |
| Fugitive Dust | _ | _ | - | _ | 0.00 | _ | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | _ | 0.00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Phase 2 - Site Grading Emissic | ns | | | | | | |
| Fugitive 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| rocar cons, year | | | | | | | |
| Phase 3 - Building Construction | on | | | | | | |
| Bldg Const Off-Road Diesel | 0.43 | 2.69 | 3.61 | _ | 0.09 | 0.09 | 0.00 |
| Bldg Const Worker Trips | 0.25 | 0.14 | 3.23 | 0.00 | 0.06 | 0.00 | 0.06 |
| 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 | 0.32 | 1.97 | 2.64 | - | 0.07 | 0.07 | 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 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons/year | 1.00 | 4.80 | 9.49 | 0.00 | 0.22 | 0.16 | 0.06 |
| | | | | | | | |
| Total all phases tons/yr | 1.00 | 4.80 | 9.49 | 0.00 | 0.22 | 0.16 | 0.06 |
| - * | | | | | | | |

| Phase 1 - Demolition Emissions | | _ | _ | _ | 0.00 | _ | 0.00 |
|---|--------------|--------------|--------------|--------------|--------------|------|------|
| Fugitive Dust 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emission | ıs | | | | | | |
| Fugitive 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 Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10041 00.107 1041 | | | | | | | |
| Phase 3 - Building Construction | | 0.60 | 2 61 | | 0.00 | 0.09 | 0.00 |
| Bldg Const Off-Road Diesel Bldg Const Worker Trips | 0.43 0.26 | 2.69 0.17 | 3.61 3.54 | 0.00 | 0.09 0.06 | 0.00 | 0.06 |
| 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 | - 2.05 | - | _ | 0 14 | 0.14 | 0.00 |
| Asphalt Off-Road Diesel | 0.63 0.00 | 3.95 0.00 | 5.29 0.00 | 0.00 | 0.14 | 0.00 | 0.00 |
| Asphalt On-Road Diesel Asphalt Worker Trips | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons/year | 1.32 | 6.81 | 12.46 | 0.00 | 0.29 | 0.23 | 0.06 |
| | | 6 01 | 10.46 | 0.00 | 0.29 | 0.23 | 0.06 |
| Total all phases tons/yr | 1.32 | 6.81 | 12.46 | 0.00 | 0.29 | 0.23 | 0.00 |
| | | | | | | | |
| *** 2015*** | | | | | | | |
| Phase 1 - Demolition Emissions | | | _ | - | 0.00 | _ | 0.00 |
| Fugitive Dust 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emission | ns | | | | | | |
| Fugitive 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 | 0.00 | 0.00 |
| Worker Trips Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100al conto, your | | | | | | | |
| Phase 3 - Building Construction | | 2 60 | 2 61 | _ | 0.09 | 0.09 | 0.00 |
| Bldg Const Off-Road Diesel Bldg Const Worker Trips | 0.43 0.15 | 2.69 0.09 | 3.61 2.12 | 0.00 | 0.06 | 0.00 | 0.06 |
| 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 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 |
| Asphalt Off-Road Diesel 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 |
| Total tons/year | 0.58 | 2.78 | 5.73 | 0.00 | 0.15 | 0.09 | 0.06 |
| m. t. 2 - 2 2 - 2 2 - 2 - 2 - 2 - 2 - 2 - 2 | 0.58 | 2.78 | 5.73 | 0.00 | 0.15 | 0.09 | 0.06 |
| Total all phases tons/yr | 0.56 | 2.70 | 3.73 | 0.00 | 0.15 | 0.05 | |
| | | | | | | | |
| *** 2016*** | | | | | | | |
| Phase 1 - Demolition Emissions Fugitive 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 |
| Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Phase 2 - Site Grading Emissio | ns | | | | | | |
| Fugitive Dust | - | | - | - | 0.00 | - | 0.00 |
| Off-Road Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| On-Road Diesel Worker Trips | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Worker Trips Total tons/year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <u>-</u> | | | | | | | |
| Phase 3 - Building Construction | | 1.12 | 1.51 | _ | 0.04 | 0.04 | 0.00 |
| Bldg Const Off-Road Diesel Bldg Const Worker Trips | 0.18 0.06 | 0.04 | 0.90 | 0.00 | 0.04 | 0.00 | 0.03 |
| 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 |
| Total tons/year | 0.24 | 1.16 | 2.41 | 0.00 | 0.07 | 0.04 | 0.03 |
| | | | | | | | |
| Total all phases tons/yr | 0.24 | 1.16 | 2.41 | 0.00 | 0.07 | 0.04 | 0.03 |
| · · | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Phase 1 - Demolition Assump | | | | | | | |
| Start Month/Year for Phase | 1: Jan '12 | | | | | | |
| Phase 1 Duration: 6 months | c 240 | 0646.4 | | | | | |
| Building Volume Total (cubi | | | | | | | |
| Building Volume Daily (cubi | | 3.33 | | | | | |
| Off-Road Equipment | 147 | | | | | | |
| No. Type | | Hors | epower | Load Factor | Hour | s/Day | |
| 1 Concrete/Industri | al saws | | 84 | 0.730 | | .0 | |
| 1 Off Highway Tract | | | 55 | 0.410 | 8 | .0 | |
| 2 Off Highway Truck | | _ | 17 | 0.490 | 8 | .0 | |
| 2 Off Highway fide. | | _ | | | | | |
| Phase 2 - Site Grading Assu | umptions | | | | | | |
| Start Month/Year for Phase | 2: Jul '12 | | | | | | |
| Phase 2 Duration: 6 months | | | | | | | |
| On-Road Truck Travel (VMT) | : 0 | | | | | | |
| Off-Road Equipment | | | | | | | |
| No. Type | | | epower | Load Factor | | s/Day | |
| 2 Off Highway Truc | κs | - | 17 | 0.490 | | 3.0 | |
| 1 Scrapers | | _ | 13 | 0.660 | | 3.0 | |
| 1 Trenchers | | | 82 | 0.695 | 8 | 3.0 | |
| | | | | | | | |

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '13
Phase 3 Duration: 48 months
Start Month/Year for SubPhase Building: Jan '13
SubPhase Building Duration: 41 months
Off-Road Equipment

| | -C Ddarkmana | Hemananarian | Load Factor | Hours/Day |
|---------|-------------------------------------|--------------|-------------|-----------|
| No. | Type | Horsepower | LOAG FACTOR | |
| 1 | Cranes | 190 | 0.430 | 8.0 |
| 1 | Off Highway Tractors | 255 | 0.410 | 8.0 |
| SubPhas | se Architectural Coatings Turned OF | F | | |

Subrhase Architectural Coatings Turned orf Start Month/Year for SubPhase Asphalt: Nov '13 SubPhase Asphalt Duration: 6 months Acres to be Paved: 1.4

| Day |
|-----|
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| AREA SOURCE EMISSION ESTIMATES | (Tons per | Year, | Unmitigated) | | |
|--------------------------------|-----------|-------|--------------|------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.45 | 6.21 | 5.22 | 0.00 | 0.01 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.14 | 0.01 | 0.97 | 0.00 | 0.00 |
| Consumer Prdcts | 0.00 | - | - | _ | - |
| Architectural Coatings | 2.47 | - | - | - | - |
| TOTALS (tpy, unmitigated) | 3.06 | 6.22 | 6.18 | 0.00 | 0.01 |

| | ROG | NOx | co | SO2 | PM10 |
|---------------------------|------|------|-------|------|-------|
| Light House Museum | 0.03 | 0.03 | 0.29 | 0.00 | 0.12 |
| Car Trailer Parking | 1.25 | 0.93 | 9.02 | 0.02 | 4.35 |
| Youth Group Facilities | 0.10 | 0.10 | 1.02 | 0.00 | 0.47 |
| Yacht Clubs | 0.15 | 0.14 | 1.36 | 0.00 | 0.58 |
| Harbor Patrol Building | 0.02 | 0.02 | 0.18 | 0.00 | 0.08 |
| Beach House Restaurant | 0.32 | 0.31 | 3.09 | 0.01 | 1.32 |
| Hotel | 0.56 | 0.49 | 4.80 | 0.01 | 2.14 |
| Boat Slips | 2.30 | 1.46 | 14.39 | 0.04 | 6.40 |
| Hotel Restaurant | 0.07 | 0.07 | 0.72 | 0.00 | 0.31 |
| Retail/Restaurant | 0.33 | 0.30 | 3.00 | 0.01 | 1.24 |
| Retail/Restaurant-Restaur | 2.19 | 2.06 | 20.56 | 0.05 | 8.49 |
| Dry Stack Boat Storage - | 0.09 | 0.08 | 0.83 | 0.00 | 0.34 |
| Dry Stack Boat Storage Of | 0.02 | 0.02 | 0.18 | 0.00 | 0.09 |
| Boat Yard Building | 0.01 | 0.02 | 0.15 | 0.00 | 0.07 |
| BSB- Yacht Brokerage | 0.03 | 0.04 | 0.37 | 0.00 | 0.18 |
| BSB - ALL 12 | 0.14 | 0.15 | 1.53 | 0.00 | 0.74 |
| Dry Stack Boat Storage-Re | 0.04 | 0.04 | 0.40 | 0.00 | 0.20 |
| TOTAL EMISSIONS (tons/yr) | 7.65 | 6.27 | 61.91 | 0.15 | 27.12 |

Includes correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | | | No. Units | Total Trips |
|---------------------------|---------|--------|-------------|------|------|--------------|----------------|
| Light House Museum | | 54.00 | trips/1000 | sq. | ft. | | 135.00 |
| Car Trailer Parking | | 2.96 | trips/Slips | 3 | | 1,030.00 | 3,048.80 |
| Youth Group Facilities | | 22.88 | trips/1000 | sq. | ft. | 17.00 | 388.96 |
| Yacht Clubs | | 22.88 | trips/1000 | sq. | ft. | | 608.61 |
| Harbor Patrol Building | | 11.01 | trips/1000 | sq. | ft. | | 82.58 |
| Beach House Restaurant | | 89.95 | trips/1000 | sq. | ft. | | 1,349.25 |
| Hotel | | 8.92 | trips/occup | pied | room | | 1,962.40 |
| Boat Slips | | 2.96 | trips/slips | 3 | | | 5,878.56 |
| Hotel Restaurant | | 127.15 | trips/1000 | sq. | ft. | | 311.52 |
| Retail/Restaurant | | 44.32 | trips/1000 | sq. | ft. | 32.80 | 1,453.70 |
| Retail/Restaurant-Restaur | : | 127.15 | trips/1000 | sq. | ft. | 78.40 | 9,968.56 |
| Dry Stack Boat Storage - | | 44.32 | trips/1000 | sq. | ft. | 9.10 | 403.31 |
| Dry Stack Boat Storage Of | | 11.01 | trips/1000 | sq. | ft. | 5.60 | |
| Boat Yard Building | | 15.86 | trips/1000 | sq. | ft. | 2.50 | 39.65 |
| BSB- Yacht Brokerage | | 11.01 | trips/1000 | sq. | ft. | 6.80 | 74.87 |
| BSB - ALL 12 | | 11.01 | trips/1000 | sq. | ft. | 35.80 | 394.16 |
| Dry Stack Boat Storage-Re | 9 | 11.01 | trips/1000 | sq. | ft. | 9.10 | 100.19 |

Sum of Total Trips 26,261.76
Total Vehicle Miles Traveled 98,334.75

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lb | s 15.90 | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,75 | 0 16.70 | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751-8,50 | 0 7.60 | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10,00 | 0 1.00 | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,00 | 0 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | 0 0.90 | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,00 | 0 0.70 | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lb | s 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |

| Travel Conditions Residential Home- Home- Home- | | Commercia | _ |
|--|---|---|--|
| Work Shop Other Urban Trip Length (miles) 11.5 4.9 6.0 | 10.3 | Non-Work 5.5 | |
| Oldan Tilp Bengen (Milled) 1110 | | | |
| Raidi Tiip Bengen (Miles) 11.0 | | | |
| Trip Speeds (mph) 35.0 40.0 40.0 % of Trips - Residential 20.0 37.0 43.0 | 10.0 | 10,0 | |
| <pre>% of Trips - Residential 20.0 37.0 43.0 % of Trips - Commercial (by land use) Light House Museum Car Trailer Parking Youth Group Facilities Yacht Clubs Harbor Patrol Building Beach House Restaurant Hotel Boat Slips Hotel Restaurant Retail/Restaurant Retail/Restaurant Dry Stack Boat Storage - Retail Store</pre> | 5.0 2.0 5.0 5.0 5.0 8.0 5.0 2.0 2.0 | 2.5 1.0 2.5 2.5 2.5 4.0 2.5 2.5 1.0 | 97.0 92.5 92.5 92.5 88.0 92.5 92.5 97.0 97.0 |
| | 2.0 | 1.0 | |
| Dry Stack Boat Storage Office | 50.0 | 25.0 | |
| Boat Yard Building | 90.0 | 5.0 | 5.0 |
| BSB- Yacht Brokerage | 41.5 | | |
| BSB - ALL 12 Dry Stack Boat Storage-Retail | 48.0 | 24.0 | 28.0 |

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Changes made to the default values for Land Use Trip Percentages

The Primary Trip % for Industrial park changed from 80 to 90 The Diverted Trip % for Industrial park changed from 20 to 5 The Pass-By Trip % for Industrial park changed from 0 to 5

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
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.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off. The area souce mitigation measure option switch changed from off to on. The landscape year changed from 2005 to 2020.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The mitigation option switch changed from off to on. The operational emission year changed from 2005 to 2030. The operational winter temperature changed from 50 to 40. The operational winter selection item changed from 3 to 1. The operational summer temperature changed from 90 to 85. The operational summer selection item changed from 8 to 6. The Res and Non-Res Local-Serving Retail Mitigation changed from off to on. The Res and Non-Res Transit Service Mitigation changed from off to on. The Res and Non-Res Ped/Bike Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES TOTALS (lbs/day,unmitigated) | ROG 18.63 | NOx 12.20 | CO 24.25 | SO2 0.14 | PM10 0.08 |
|--|-----------------------------|--------------|--------------|-------------|----------------|
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES ROG | NO× | CO | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 55.95 | 42.83 | 516.35 | 1.28 | 220.03 |
| SUM OF AREA AND OPERATIONAL EMIT TOTALS (lbs/day,unmitigated) | SSION ESTIM ROG 74.58 | NOX 55.03 | CO 540.60 | SO2 1.43 | PM10 220.11 |

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URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES TOTALS (lbs/day,unmitigated) | ROG 16.21 | NOx 12.11 | CO 8.55 | SO2 0.00 | PM10 0.02 |
|---|-----------------------------|--------------|--------------|-------------|----------------|
| OPERATIONAL (VEHICLE) EMISSION | ESTIMATES ROG | NOx | CO | SO2 | PM10 |
| TOTALS (lbs/day,unmitigated) | 55.57 | 60.40 | 515.05 | 1.15 | 220.03 |
| SUM OF AREA AND OPERATIONAL EMITOTALS (lbs/day,unmitigated) | SSION ESTIM ROG 71.78 | NOx 72.51 | CO 523.60 | SO2 1.16 | PM10 220.05 |

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URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT (Tons/Year)

| AREA SOURCE EMISSION ESTIMATES TOTALS (tpy, unmitigated) | ROG 3.18 | NO× 2.22 | CO 2.97 | SO2 0.01 | PM10 0.01 |
|--|------------------------|---------------------------|-------------|-------------|---------------|
| OPERATIONAL (VEHICLE) EMISSION TOTALS (tpy, unmitigated) | ESTIMA ROG 10.19 | ATES NOx 8.89 | CO 94.16 | SO2 0.23 | PM10 40.16 |
| SUM OF AREA AND OPERATIONAL EM | ISSION ROG 13.36 | ESTIMATES NOX 11.10 | CO 97.13 | SO2 0.24 | PM10 40.17 |

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URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

| AREA SOURCE EMISSION ESTIMATES Source Natural Gas Hearth | ROG 0.90 0.00 | Pounds per NOx 12.11 0.00 | Day, Unmiti CO 8.55 0.00 | gated) SO2 0 0.00 | PM10 0.02 0.00 |
|---|--------------------------------|------------------------------------|-----------------------------------|----------------------------|----------------------|
| Landscaping - No winter emiss Consumer Prdcts Architectural Coatings TOTALS(lbs/day,unmitigated) | ions 15.31 0.00 16.21 | 12.11 | - - 8.55 | 0.00 | 0.02 |

| | ROG | NOx | CO 55.82 | SO2 0.14 | PM10 26.51 |
|---------------------------|-------|-------|-------------|-------------|---------------|
| Single family housing | 5.55 | 6.66 | | | 0.29 |
| City park | 0.07 | 0.08 | 0.64 | 0.00 | |
| Quality resturant | 32.49 | 35.24 | 300.62 | 0.67 | 127.47 |
| Hotel | 1.05 | 1.18 | 9.85 | 0.02 | 4.39 |
| Strip mall | 14.64 | 15.17 | 131.14 | 0.28 | 53.12 |
| General office building | 1.76 | 2.08 | 16.99 | 0.04 | 8.25 |
| TOTAL EMISSIONS (lbs/dav) | 55.57 | 60.40 | 515.05 | 1.15 | 220.03 |

Includes correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | No. Total Units Trips |
|---|---------|--------------------------------|---|---|
| Single family housing City park Quality resturant Hotel Strip mall General office building | 104.33 | 1.59 89.95 8.17 42.94 | trips/dwelling unit trips/acres trips/1000 sq. ft. trips/rooms trips/1000 sq. ft. trips/1000 sq. ft. | 313.00 2,995.41 28.00 44.52 265.1523,850.02 90.00 735.30 265.1511,385.43 286.13 949.94 |

Sum of Total Trips 39,960.62
Total Vehicle Miles Traveled 145,582.43

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|---------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lbs | 15.90 | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,750 | 16.70 | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751-8,500 | 7.60 | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10,000 | 1.00 | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,000 | 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,000 | 0.90 | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,000 | 0.70 | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lbs | 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |

| Travel Conditions |
|-------------------|
|-------------------|

| Travel Conditions | | | | | | |
|---------------------------|---------|-------------|-------|------------|----------|----------|
| | | Residential | | Commercial | | |
| | Home- | Home- | Home- | | | |
| | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (| by land | use) | | | | |
| City park | | | | 5.0 | 2.5 | 92.5 |
| Quality resturant | | | | 8.0 | 4.0 | 88.0 |
| Hotel | | | | 5.0 | 2.5 | 92.5 |
| Strip mall | | | | 2.0 | 1.0 | 97.0 |
| General office building | | | | 35.0 | 17.5 | 47.5 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational emission year changed from 2005 to 2030.

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URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

| AREA SOURCE EMISSION ESTIMATES | (Summer | Pounds per | Day, Unmi | tigated) | |
|--------------------------------|---------|------------|-----------|----------|------|
| Source | ROG | NOx | CO | SO2 | PM10 |
| Natural Gas | 0.90 | 12.11 | 8.55 | 0 | 0.02 |
| Hearth - No summer emissions | | | | | |
| Landscaping | 2.42 | 0.08 | 15.70 | 0.14 | 0.06 |
| Consumer Prdcts | 15.31 | - | | - | _ |
| Architectural Coatings | 0.00 | - | - | *** | - |
| TOTALS(lbs/day,unmitigated) | 18.63 | 12.20 | 24.25 | 0.14 | 0.08 |

| | ROG | NOx | CO | S02 | PM10 |
|---------------------------|-------|-------|--------|------|--------|
| Single family housing | 6.44 | 4.65 | 60.02 | 0.16 | 26.51 |
| City park | 0.19 | 0.05 | 0.65 | 0.00 | 0.29 |
| Quality resturant | 30.63 | 25.02 | 299.94 | 0.74 | 127.47 |
| Hotel | 1.36 | 0.83 | 9.97 | 0.03 | 4.39 |
| Strip mall | 14.47 | 10.82 | 127.46 | 0.31 | 53.12 |
| General office building | 2.87 | 1.45 | 18.31 | 0.05 | 8.25 |
| _ | | | | | |
| TOTAL EMISSIONS (lbs/dav) | 55.95 | 42.83 | 516.35 | 1.28 | 220.03 |

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

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | No. Total Units Trips |
|---|---------|--------------------------------|--|---|
| Single family housing City park Quality resturant Hotel Strip mall General office building | 104.33 | 1.59 89.95 8.17 42.94 | trips/dwelling un trips/acres trips/1000 sq. ft trips/rooms trips/1000 sq. ft trips/1000 sq. ft | 28.00 44.52 265.1523,850.02 90.00 735.30 265.1511,385.43 |
| | | | Sum of Tot | al Trine 39 960 62 |

Sum of Total Trips 39,960.62 Total Vehicle Miles Traveled 145,582.43

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lbs | s 15.90 | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,750 | 16.70 | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751-8,500 | 7.60 | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10,000 | 1.00 | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,000 | 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,000 | 0.90 | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,00 | 0.70 | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lb: | s 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | . 7.70 |

| Travel | Conditions |
|--------|------------|
| ILUVEL | CONGICIONS |

| Travel Conditions | | | | | | |
|---------------------------|-------------|-------|-------|------------|----------|----------|
| | Residential | | | Commercial | | |
| | Home- | Home- | Home- | | | |
| | Work | Shop | Other | Commute | Non-Work | Customer |
| Urban Trip Length (miles) | 11.5 | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Rural Trip Length (miles) | | 4.9 | 6.0 | 10.3 | 5.5 | 5.5 |
| Trip Speeds (mph) | 35.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| % of Trips - Residential | 20.0 | 37.0 | 43.0 | | | |
| % of Trips - Commercial (| by land | use) | | | | |
| City park | - | | | 5.0 | 2.5 | 92.5 |
| Quality resturant | | | | 8.0 | 4.0 | 88.0 |
| Hotel | | | | 5.0 | 2.5 | 92.5 |
| Strip mall | | | | 2.0 | 1.0 | 97.0 |
| General office building | | | | 35.0 | 17.5 | 47.5 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational emission year changed from 2005 to 2030.

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URBEMIS 2002 For Windows 8.7.0

File Name: I:\pdata\00000100\10P\WPWIN\EddieT\URBEMIS\URBEMIS2002\DPH-Cumulative.urb
Project Name: Dana Point Harbor - Cumulative Projects
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

 AREA SOURCE EMISSION ESTIMATES
 (Tons per Year, Unmitigated)

 Source
 ROG
 NOX
 CO

 Natural Gas
 0.16
 2.21
 1.56

 Hearth
 0.00
 0.00
 0.00

 Landscaping
 0.22
 0.01
 1.41
 PM10 0.00 0.00 0.01 0.00 0.00 0.01 0.00 0.22 2.79 Hearth Landscaping Consumer Prdcts Architectural Coatings TOTALS (tpy, unmitigated) 0.00 2.22 2.97 0.01 0.01 3.18

| | ROG | NOx | CO | SO2 | PM10 |
|---------------------------|-------|------|-------|------|-------|
| Single family housing | 1.12 | 0.97 | 10.70 | 0.03 | 4.84 |
| City park | 0.03 | 0.01 | 0.12 | 0.00 | 0.05 |
| Quality resturant | 5.70 | 5.19 | 54.78 | 0.13 | 23.26 |
| Hotel | 0.23 | 0.17 | 1.81 | 0.00 | 0.80 |
| Strip mall | 2.65 | 2.24 | 23.48 | 0.05 | 9.69 |
| General office building | 0.46 | 0.30 | 3.26 | 0.01 | 1.50 |
| | | | | | |
| TOTAL EMISSIONS (tons/yr) | 10.19 | 8.89 | 94.16 | 0.23 | 40.16 |

Includes correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2030 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

| Unit Type | Acreage | Trip | Rate | No. Units | Trips |
|---|---------|--------------------------------|---|--|---------------------------------------|
| Single family housing City park Quality resturant Hotel Strip mall General office building | 104.33 | 1.59 89.95 8.17 42.94 | trips/dwelling unit trips/acres trips/1000 sq. ft. trips/rooms trips/1000 sq. ft. trips/1000 sq. ft. | 313.00 2 28.00 265.1523 90.00 265.1511 286.13 | 44.52 ,850.02 735.30 ,385.43 |

Sum of Total Trips 39,960.62 Total Vehicle Miles Traveled 145,582.43

Vehicle Assumptions:

Fleet Mix:

| Vehicle Type | Percent Type | Non-Catalyst | Catalyst | Diesel |
|--------------------------|--------------|--------------|----------|--------|
| Light Auto | 52.50 | 0.00 | 100.00 | 0.00 |
| Light Truck < 3,750 lb | s 15.90 | 0.00 | 100.00 | 0.00 |
| Light Truck 3,751- 5,75 | 0 16.70 | 0.00 | 100.00 | 0.00 |
| Med Truck 5,751-8,50 | 0 7.60 | 0.00 | 100.00 | 0.00 |
| Lite-Heavy 8,501-10,00 | 0 1.00 | 0.00 | 80.00 | 20.00 |
| Lite-Heavy 10,001-14,00 | 0 0.30 | 0.00 | 66.70 | 33.30 |
| Med-Heavy 14,001-33,00 | 0 0.90 | 0.00 | 22.20 | 77.80 |
| Heavy-Heavy 33,001-60,00 | 0 0.70 | 0.00 | 0.00 | 100.00 |
| Line Haul > 60,000 lb | s 0.00 | 0.00 | 0.00 | 100.00 |
| Urban Bus | 0.20 | 0.00 | 50.00 | 50.00 |
| Motorcycle | 1.50 | 33.30 | 66.70 | 0.00 |
| School Bus | 0.10 | 0.00 | 0.00 | 100.00 |
| Motor Home | 2.60 | 0.00 | 92.30 | 7.70 |
| | | | | |

Travel Conditions

| ne r |
|------|
| .5 |
| . 5 |
| 0,0 |
| |
| |
| 2.5 |
| 3.0 |
| 2.5 |
| 7.0 |
| 7.5 |
| 2327 |

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Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Area

The hearth option switch changed from on to off. The arch. coatings option switch changed from on to off.

Changes made to the default values for Operations

The pass by trips option switch changed from off to on. The operational emission year changed from 2005 to 2030.

30-WD-DOB-Stone

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION PAGE 1

(WORST CASE ANGLE)

JOB: 30-WD-DOB-Stone RUN: Hour 1 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

| U= | .5 | M/S | Z0= | 100. | CM | | ALT= | 0. (M |) |
|--------|-------|---------|-------|------|--------|-----|------|-------|---|
| BRG= | WORST | CASE | VD= | .0 | CM/S | | | | |
| CLAS= | | | | .0 | | | | | |
| MIXH= | | | | 3.9 | | | | | |
| SIGTH= | 20. | DEGREES | TEMP= | 4.4 | DEGREE | (C) | | | |

II. LINK VARIABLES

| DE | LINK SCRIPTION | * | LINK X1 | COORDIN Y1 | NATES X2 | (M) Y2 | * * | TYPE | VPH | EF (G/MI) | H (M) | W (M) |
|---|--|-------|--|--|---|---|--------|--|--|---|--|--|
| A. Li B. Li C. Li C. Li F. Li F. Li G. Li H. Li J. Li K. Li M. Li | nk A nk B nk C nk D nk E nk F nk G nk G nk J | ***** | 770 732 697 603 647 707 702 698 682 688 693 699 | 424 420 416 399 404 410 336 379 411 502 455 415 389 413 | 732 697 603 647 694 770 702 698 686 688 693 703 695 | 420 416 404 404 410 419 379 411 504 455 415 336 413 | ***** | AG AG AG AG AG AG AG AG AG | 2026 1822 1623 1205 957 1290 613 411 693 777 483 642 202 | .8 1.6 .8 1.6 .8 1.6 .8 1.6 .8 1.6 | .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 . | 15.7 15.7 15.7 15.7 15.7 15.7 15.7 15.7 |
| O. Li | ink O ink P | * | 666 695 | 408 413 | 695 723 | 413 417 | * | AG AG | 248 204 | 1.6 1.6 | . 0 . 0 | 15.7 15.7 |

III. RECEPTOR LOCATIONS

| RECEPTOR | * | COORD X | INATES Y | (M) Z |
|--|-------------------------------------|--------------------------|--------------------------|-------------------|
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | - · · · · · · · · · · · · · · · · · | 710 710 684 684 | 425 404 399 423 | 1.8 1.8 1.8 |

30-WD-DOB-Stone

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION

PAGE 2

(WORST CASE ANGLE)

JOB: 30-WD-DOB-Stone RUN: Hour 1 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

| | * | BRG | * | PRED CONC | * | | | (| CONC/I (PPI | | | | |
|---|---|-----------------------------|-------|--------------------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RECEPTOR | * | (DEG) | * | (PPM) | * - * - | Α | В | C | Ď | Е | F | G | H |
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | - · - · · · · · · · · · · · · · · · · · | 241. 327. 52. 104. | * * * | 4.3 4.2 4.2 4.3 | | .0 .0 .0 | .1 .1 .0 | .0 .0 .0 | .0 .0 .0 | .0 .0 .0 | .0 .0 .0 | .0 .0 .0 | .0 .0 .0 |

| | * CONC/LINK * (PPM) | | | | | | | | | |
|--|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| RECEPTOR | * | I | J | Κ | Ĺ | _М | N | 0 | P | |
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | - · · · * * * | .0 .0 .0 | |

CC-DOB-PCH

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION

PAGE 1

(WORST CASE ANGLE)

JOB: CC-DOB-PCH RUN: Hour 1 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

| U= .5 | M/S | Z0= | 100. | CM | | ALT= | 0. | (M) |
|-------------|---------|-------|------|--------|-----|------|----|-----|
| BRG= WORST | CASE | VD= | .0 | CM/S | | | | |
| CLAS= 7 | ' (G) | VS= | .0 | CM/S | | | | |
| MIXH= 1000. | M | AMB= | | | | | | |
| SIGTH= 20. | DEGREES | TEMP= | 4.4 | DEGREE | (C) | | | |

II. LINK VARIABLES

| | LINK DESCRIPTION | * * | LINK X1 | COORDII Y1 | NATES X2 | (M) Y2 | | TYPE | VPH | EF (G/MI) | H (M) | W (M) |
|--|--|---|--|--|---|---|-------|--|--|---|----------------|--|
| B. C. D. E. F. G. H. I. | Link A Link B Link C Link D Link E | · * * * * * * * * * * * * * * * * * * * | 770 732 697 603 647 694 707 702 698 682 688 693 | 424 420 416 399 404 410 336 379 411 502 455 415 | 732 697 603 647 770 702 698 686 688 693 703 | 420 416 404 404 410 419 379 411 504 455 415 | ***** | AG AG AG AG AG AG AG AG AG | 1975 1685 1678 1678 1632 1447 2007 578 499 753 518 254 502 | 2.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5 | .0 | 15.7 15.7 15.7 15.7 15.7 15.7 15.7 15.7 |
| M. N. O. P. | Link M Link N Link O | * * * | 699 695 666 695 | 389 413 408 413 | 695 692 695 723 | 413 437 413 417 | * * * | AG AG AG AG | 79 264 185 290 | 5.5 5.5 5.5 5.5 | .0 .0 .0 | 15.7 15.7 15.7 15.7 |

III. RECEPTOR LOCATIONS

| RECEPTOR | * * | COORD: | INATES Y | (M) Z |
|--|--------|--------------------------|--------------------------|-------------------|
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | * * * | 710 710 684 684 | 425 404 399 423 | 1.8 1.8 1.8 |

CC-DOB-PCH

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: CC-DOB-PCH RUN: Hour 1

(WORST CASE ANGLE)

POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

| RECEPTOR | * * * * | BRG (DEG) | * * | (PPM) * | | Α | В | c | ONC/L (PPN D | | F | G | Н |
|--|---------|---------------------|--------|---------|---|----------------|----------------------|----------------------|--------------------|----------------------|----------------------|----------------|----------------|
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | - | 239. 283. 53. | * | | * | .0 .0 .0 | .4 .0 .3 .4 | .2 .2 .0 .1 | .0 .0 .0 | .3 .4 .2 .0 | .0 .2 .2 .3 | .0 .0 .0 | .0 .1 .0 |

| | * * | | | (| ONC/L | | | | |
|--|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RECEPTOR | * | I | J | K | L . | М | N | 0 | Р |
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | - ^ - * * * * | .0 .0 .0 |

2012-CC-ED-CAP-Stone

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL

JUNE 1989 VERSION PAGE 1

JOB: 2012-CC-ED-CAP-Stone
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

| U= .5 | M/S | | 100. | | | ALT= | 0. | (M) |
|-------------|---------|-------|------|--------|-----|------|----|-----|
| BRG= WORST | CASE | | | CM/S | | | | |
| CLAS= 7 | (G) | VS= | .0 | CM/S | | | | |
| MIXH= 1000. | M | AMB= | 3.9 | PPM | | | | |
| SIGTH= 20. | DEGREES | TEMP= | 4.4 | DEGREE | (c) | | | |

II. LINK VARIABLES

| LINK DESCRIPTION | * * | LINK X1 | COORDIN Y1 | NATES X2 | (M) Y2 | * * | TYPE | VPH | EF (G/MI) | H (M) | W (M) |
|--|--------|--|---|---|---|--------|--|---|---|--|--|
| A. Link A B. Link B C. Link C D. Link D E. Link F G. Link F G. Link H I. Link I J. Link J K. Link K Link L M. Link M | _ | 770 732 697 603 647 694 707 702 698 688 693 699 | 424 420 416 399 404 410 336 379 411 502 455 415 389 | 732 697 603 647 694 770 698 686 688 693 703 | 420 416 404 404 410 419 379 411 504 455 415 336 413 | ***** | AG AG AG AG AG AG AG AG AG | 0 1043 1048 889 764 936 465 445 1987 1916 1755 471 | 2.6 5.5 2.6 2.6 5.5 2.6 5.5 2.6 5.5 2.6 5.5 | .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 . | 15.7 15.7 15.7 15.7 15.7 15.7 15.7 15.7 |
| N. Link N O. Link O P. Link P | * * | 695 666 695 | 413 | 692 695 723 | 437 413 417 | * * | AG AG AG | 71 195 0 | 5.5 5.5 5.5 | .0 .0 .0 | 15.7 15.7 15.7 |

III. RECEPTOR LOCATIONS

| RECEPTOR | * | COORD X | INATES Y | (M) Z |
|--------------------------|----|------------|-------------|------------|
| | -* | 710 | 425 | 1.8 |
| 1. Recpt 1 2. Recpt 2 | * | 710 | 404 | 1.8 |
| 3. Recpt 3 4. Recpt 4 | * | 684 684 | 399 423 | 1.8 1.8 |

2012-CC-ED-CAP-Stone

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

(WORST CASE ANGLE)

JOB: Ex-CC -DOB-PCH RUN: Hour 1 POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

| | * | BRG | * | PRED CONC | * | | | (| CONC/I (PPN | | | | |
|--|---|-----------------------------|-------|--------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RECEPTOR | * | (DEG) | * | (PPM) | * | Α | В | С | D | E | F | G | Н |
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | - · · · · · · · · · · · · · · · · · · · | 247. 281. 13. 153. | * * * | 7.0 | * | .0 .0 .0 | .0 .0 .0 | .2 .2 .1 | .0 .0 .0 | .2 .2 .3 | .0 .0 .0 | .0 .0 .0 | .0 .1 .0 |

| | * | CONC/LINK (PPM) | | | | | | | |
|---|-----|--------------------|----------------|----------------------|----------------------|----------------|----------------|----------------|----------------|
| RECEPTOR | * | I | J | K | L | M | N | 0 | Р |
| 1. Recpt 1 2. Recpt 2 3. Recpt 3 4. Recpt 4 | * * | .0 .0 .0 | .0 .0 .0 | .3 .0 .4 .2 | .0 .2 .1 .3 | .0 .1 .0 | .0 .0 .0 | .0 .0 .0 | .0 .0 .0 |

Title : Orange County Avg 2030 Winter Default Title Version : Emfac2002 V2.2 Sept 23 2002 Run Date : 07/21/05 13:20:30 Scen Year: 2030 -- Model Years: 1985 to 2030

Season : Winter

Year: 2030 -- Model Years 1985 to 2030 Inclusive -- Winter

Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average

Orange Count

County

Average

1: Running Exhaust Emissions (grams/mile) Table.

Temperature: 40F Relative Humidity: Pollutant Name: Total Organic Gases

| Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|--------------|-----|-------|-------|-------|-------|-------|-------|
| 5 | | 0.134 | 0.194 | 0.526 | 2.328 | 5.527 | 0.149 |
| 35 | | 0.023 | 0.036 | 0.161 | 0.426 | 2.278 | 0.033 |

Temperature: 40F Relative Humidity: Pollutant Name: Carbon Monoxide

| Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|--------------|-------|-------|-------|-------|--------|--------|-------|
| 5 | 1.014 | 1.633 | 2.123 | 4.566 | 20.926 | 28.297 | 1.589 |
| 35 | 0.599 | 0.948 | 1.164 | 0.956 | 3.964 | 18.435 | 0.827 |

Temperature: 40F Relative Humidity: Pollutant Name: Oxides of Nitrogen 0%

Speed HDT **UBUS** MCY ALL LDT MDT LDA MPH 1.938 0.298 0.231 0.395 12.171 1.598 0.118 0.170 1.129 6.631 1.468 0.226 35 0.067 0.127

Temperature: 40F Relative Humidity: Pollutant Name: Carbon Dioxide

0%

| Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|--------------|---------|----------|----------|----------|----------|---------|----------|
| 5 | 943.933 | 1189.625 | 1676.660 | 2053.904 | 2441.505 | 266.223 | 1128.656 |
| 35 | 307.064 | 387.137 | 522.519 | 1715.824 | 1445.168 | 139.873 | 414.031 |

Pollutant Name: Sulfur Dioxide Temperature: 40F Relative Humidity:

| ; | Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
|----|--------------|------------------|-----------------|------------------|-----------------|-----------------|------------------|----------------|-----------|
| | 5 35 | 0.009 0.003 | 0.011 0.004 | 0.016 0.005 | 0.020 0.016 | 0.024 0.014 | 0.003 0.002 | 0.011 0.004 | |
| 0% | Pollutant | Name: | PM10 | | т | emperature: | 40F | Relative | Humidity: |
| | Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
| | 5 35 | 0.053 0.009 | 0.096 0.016 | 0.113 0.019 | 0.203 0.065 | 0.344 0.080 | 0.030 0.014 | 0.078 0.014 | |
| 0% | Pollutant | Name: | РМ10 - Tiı | re Wear | Т | emperature: | 40F | Relative | Humidity: |
| | Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
| | 5 35 | 0.008 0.008 | 0.008 0.008 | 0.009 0.009 | 0.026 0.026 | 0.010 0.010 | 0.004 0.004 | 0.009 0.009 | |
| 0% | Pollutant | Name: | PM10 - Br | eak Wear | Т | Temperature: | 40F | Relative | Humidity: |
| | Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
| | 5 35 | 0.013 0.013 | 0.013 0.013 | 0.013 0.013 | 0.013 0.013 | 0.013 0.013 | 0.013 0.013 | 0.013 0.013 | |
| 0% | Pollutant | : Name: | Gasoline - | mi/gal | ך | Геmperature: | 40F | Relative | Humidity: |
| | Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
| | 5 35 | 9.367 28.763 | 7.424 22.792 | 5.207 16.878 | 3.510 17.741 | 3.427 17.348 | 25.887 48.811 | | |
| 0% | | Name: | Diesel - m | ni/gal | - | Temperature: | : 40F | Relative | Humidity: |
| | Speed MPH | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
| | 5 35 | 29.156 29.156 | | 19.980 19.980 | 5.295 5.295 | 4.251 4.251 | 0.000 0.000 | | |

Title : Orange County Avg 2030 Winter Default Title Version : Emfac2002 V2.2 Sept 23 2002 Run Date : 07/21/05 13:20:30 Scen Year: 2030 -- Model Years: 1985 to 2030

Season : Winter

Area : Orange County

Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average

Orange Count

County

Average

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Total Organic Gases Temperature: 40F Relative Humidity:

ALL

| 10 0.031 0.052 0.136 0.223 0.912 1.963 0.06 20 0.060 0.100 0.264 0.423 1.730 2.583 0.12 30 0.086 0.144 0.383 0.600 2.452 3.179 0.17 40 0.110 0.185 0.494 0.754 3.079 3.750 0.22 50 0.133 0.223 0.597 0.884 3.611 4.296 0.26 60 0.153 0.258 0.692 0.991 4.048 4.685 0.30 120 0.220 0.370 0.977 0.680 2.777 3.941 0.39 180 0.106 0.183 0.600 0.721 2.946 2.845 0.22 240 0.112 0.194 0.637 0.762 3.111 3.028 0.24 300 0.119 0.205 0.674 0.800 3.269 3.208 0.25 360 0.125 0.216 0.711 0.838 3.423 3.385 0.27 < | Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|--|---|--|--|--|---|--|--|--|
| 660 0.155 0.269 0.889 1.006 4.109 4.215 0.33 | 10 20 30 40 50 60 120 180 240 300 360 420 480 540 600 | 0.031 0.060 0.086 0.110 0.133 0.153 0.220 0.106 0.112 0.119 0.125 0.131 0.137 0.143 0.149 0.155 | 0.052 0.100 0.144 0.185 0.223 0.258 0.370 0.183 0.194 0.205 0.216 0.227 0.237 0.248 0.258 0.258 | 0.136 0.264 0.383 0.494 0.597 0.692 0.977 0.600 0.637 0.674 0.711 0.747 0.783 0.819 0.854 0.889 | 0.223 0.423 0.600 0.754 0.884 0.991 0.680 0.721 0.762 0.800 0.838 0.874 0.909 0.943 0.975 | 0.912 1.730 2.452 3.079 3.611 4.048 2.777 2.946 3.111 3.269 3.423 3.571 3.714 3.851 3.983 4.109 | 1.963 2.583 3.179 3.750 4.296 4.685 3.941 2.845 3.028 3.208 3.385 3.558 3.727 3.893 4.056 4.215 | 0.037 0.067 0.124 0.177 0.225 0.269 0.308 0.390 0.229 0.243 0.257 0.270 0.284 0.297 0.310 0.322 0.335 0.347 |

Temperature: 40F Relative Humidity: Pollutant Name: Carbon Monoxide

| Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|--|--|--|--|---|---|--|--|
| 5 10 20 30 40 50 60 120 | 0.226 0.446 0.868 1.266 1.639 1.988 2.312 3.472 | 0.378 0.746 1.451 2.115 2.737 3.318 3.857 5.634 | 1.015 2.004 3.905 5.704 7.401 8.995 10.487 15.017 | 2.560 5.016 9.616 13.800 17.568 20.920 23.856 10.642 Page 3 | 8.082 15.836 30.359 43.569 55.464 66.046 75.315 33.599 | 4.671 6.894 11.084 14.933 18.439 21.604 24.428 29.234 | 0.501 0.978 1.886 2.735 3.523 4.252 4.920 5.918 |

| | | | Em | tac3030 | | | |
|-----|-------|-------|-------|------------------|------------------|------------------|----------------|
| 180 | 1.723 | 2.862 | 6.613 | 10.953 | 34.581 | 12.848 | 3.144 |
| 240 | 1.857 | 3.082 | 7.152 | 11.275 | 35.596 | 14.164 | 3.365 |
| 300 | 1.977 | 3.277 | 7.629 | 11.606 | 36.642 | 15.368 | 3.563 |
| 360 | 2.081 | 3.449 | 8.045 | 11.948 | 37.722 | 16.458 | 3.739 |
| 420 | 2.171 | 3.597 | 8.400 | 12.300 | 38.833 | 17.435 18.299 | 3.894 4.026 |
| 480 | 2.246 | 3.721 | 8.693 | 12.663 | 39.978 | 19.299 | 4.026 |
| 540 | 2.306 | 3.821 | 8.926 | 13.035 | 41.154 42.363 | 19.687 | 4.226 |
| 600 | 2.352 | 3.897 | 9.097 | 13.418 | 42.505 | 20.210 | 4.293 |
| 660 | 2.383 | 3.950 | 9.206 | 13.811 14.215 | 44.878 | 20.210 | 4.339 |
| 720 | 2.399 | 3.979 | 9.255 | 14.213 | 44.070 | 20.021 | 7.333 |

Pollutant Name: Oxides of Nitrogen Temperature: 40F Relative Humidity:

| A | L | L |
|---|---|---|
|---|---|---|

| Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|---|---|---|--|---|---|--|--|
| 5 10 20 30 40 50 60 120 180 240 300 360 420 480 540 660 720 | 0.050 0.055 0.063 0.071 0.076 0.081 0.084 0.090 0.100 0.099 0.099 0.095 0.095 0.095 0.095 | 0.107 0.116 0.132 0.146 0.158 0.166 0.172 0.205 0.205 0.202 0.199 0.195 0.190 0.184 0.177 0.169 0.160 | 0.611 0.654 0.732 0.798 0.853 0.895 0.926 1.007 1.039 1.031 1.019 1.001 0.979 0.953 0.921 0.885 0.844 0.798 | 0.282 0.425 0.677 0.882 1.040 1.151 1.217 1.254 1.242 1.233 1.221 1.206 1.190 1.170 1.149 1.125 1.098 | 1.449 2.183 3.472 4.522 5.334 5.907 6.242 6.432 6.409 6.373 6.263 6.189 6.103 6.103 6.55 5.894 5.770 5.634 | 0.190 0.237 0.320 0.389 0.444 0.484 0.509 0.521 0.523 0.515 0.504 0.491 0.476 0.459 0.440 0.418 0.395 0.369 | 0.145 0.163 0.195 0.222 0.244 0.260 0.270 0.289 0.303 0.301 0.298 0.294 0.288 0.281 0.273 0.264 0.253 0.242 |

Pollutant Name: Carbon Dioxide Temperature: 40F Relative Humidity:

ALL

| Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|--|---|--|--|--|---|--|--|
| 5 10 20 30 40 50 60 120 180 240 300 420 480 540 | 12.197 13.702 17.210 21.384 26.223 31.727 37.897 88.235 100.164 112.071 123.958 135.824 147.668 159.492 171.294 183.076 194.836 | 15.286 17.210 21.682 26.984 33.117 40.080 47.873 111.137 126.203 141.233 156.228 171.186 186.109 200.996 215.847 230.663 245.442 | 21.147 24.090 30.821 38.675 47.654 57.756 68.983 157.805 179.491 201.060 222.511 243.846 265.062 286.162 307.144 328.008 348.755 | 2.790 5.565 11.069 16.511 21.891 27.209 32.466 55.218 65.236 74.663 83.498 91.742 99.395 106.457 112.927 118.806 124.094 | 4.717 9.409 18.713 27.913 37.009 46.000 54.887 93.353 110.289 126.226 141.163 155.101 168.039 179.977 190.916 200.855 209.794 | 13.302 15.500 19.816 24.025 28.127 32.121 36.007 53.465 57.696 61.679 65.413 68.900 72.137 75.127 77.868 80.361 82.606 | 13.637 15.497 19.759 24.747 30.460 36.899 44.062 101.000 114.826 128.585 142.278 155.904 169.464 182.956 196.383 209.742 223.035 |
| 660 | 134.030 | 2731772 | 5 1017 55 | Page 4 | | | |

Page 4

Emfac3030 720 206.575 260.186 369.385 128.790 217.734 84.602 236.261

| ALL | Pollutant | Name: | Sulfur Diox | ide | Ter | mperature: | 40F | Relative | Humidity: |
|-----|--|--|--|--|--|---|--|--|-----------|
| | Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
| | 5 10 20 30 40 50 60 120 180 240 300 360 420 480 540 600 660 720 | 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.002 0.002 0.002 0.002 | 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.002 0.002 0.002 0.002 0.002 0.002 | 0.000 0.000 0.000 0.001 0.001 0.002 0.002 0.002 0.002 0.003 0.003 0.003 0.003 0.003 | 0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | 0.000 0.000 0.001 0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.003 0.003 | 0.000 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 | 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.002 0.002 0.002 0.002 0.002 | |
| ALL | Pollutant | Name: | РМ10 | | Te | mperature: | 40F | Relative | Humidity: |
| | Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL | |
| | 5 10 20 30 40 50 60 120 180 240 300 360 420 480 540 | 0.000 0.001 0.002 0.003 0.004 0.005 0.008 0.009 0.010 0.011 0.012 0.012 0.013 | 0.001 0.002 0.004 0.005 0.007 0.008 0.010 0.016 0.017 0.019 0.020 0.022 0.023 0.024 | 0.001 0.002 0.004 0.006 0.007 0.009 0.011 0.017 0.019 0.021 0.022 0.024 0.025 0.026 | 0.000 0.001 0.001 0.002 0.003 0.004 0.005 0.005 0.005 0.005 0.006 0.006 | 0.001 0.002 0.003 0.004 0.005 0.006 0.010 0.010 0.010 0.011 0.011 0.011 0.012 0.012 | 0.007 0.006 0.005 0.004 0.003 0.003 0.003 0.006 0.008 0.011 0.013 0.014 0.016 0.017 | 0.001 0.003 0.004 0.005 0.006 0.007 0.011 0.013 0.014 0.015 0.016 | |

Version : Emfac2002 V2.2 Sept 23 2002 Run Date : 07/21/05 13:20:30 Scen Year: 2030 -- Model Years: 1985 to 2030

Season : Winter

Area : Orange County

Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter

Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average

Orange Count

County

Average

Table 4: Hot Soak Emissions (grams/trip)

Pollutant Name: Total Organic Gases Temperature: 40F Relative Humidity:

ALL

| Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 0.004 | 0.007 | 0.006 | 0.001 | 0.019 | 0.021 | 0.005 |
| 10 | 0.008 | 0.014 | 0.012 | 0.003 | 0.035 | 0.040 | 0.010 |
| 20 | 0.015 | 0.025 | 0.022 | 0.005 | 0.062 | 0.073 | 0.018 |
| 30 | 0.020 | 0.034 | 0.031 | 0.007 | 0.083 | 0.102 | 0.025 |
| 40 | 0.022 | 0.038 | 0.035 | 0.008 | 0.092 | 0.116 | 0.028 |

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title : Orange County Avg 2030 Winter Default Title Version : Emfac2002 V2.2 Sept 23 2002

Run Date: 07/21/05 13:20:30 Scen Year: 2030 -- Model Years: 1985 to 2030

Season : Winter

Area

Year: 2030 -- Model Years 1985 to 2030 Inclusive -- Winter

Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average

Orange Count

County

Average

Table 5a: Partial Day Diurnal Loss Emissions

(grams/hour)

Pollutant Name: Total Organic Gases Temperature: ALL Relative Humidity:

| Temp degF | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| 40 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

: Orange County Avg 2030 Winter Default Title : Emfac2002 V2.2 Sept 23 2002

Version

Run Date: 07/21/05 13:20:30

Scen Year: 2030 -- Model Years: 1985 to 2030

: Winter Season

Area

Year: 2030 -- Model Years 1985 to 2030 Inclusive -- Winter

Emfac2002 Emission Factors: V2.2 Sept 23 2002

Orange Count County County Average

Average

Table 5b: Multi-Day Diurnal Loss Emissions

(grams/hour)

Relative Humidity: Pollutant Name: Total Organic Gases Temperature: ALL

ALL

Temp degF LDA LDT MDT HDT **UBUS** MCY ALL 0.000 0.000 0.000 0.000 0.000 0.000 0.000 40

: Orange County Avg 2030 Winter Default Title : Emfac2002 V2.2 Sept 23 2002

Run Date: 07/21/05 13:20:30

Scen Year: 2030 -- Model Years: 1985 to 2030

: Winter Season

Area : Orange County

Year: 2030 -- Model Years 1985 to 2030 Inclusive -- Winter

Emfac2002 Emission Factors: V2.2 Sept 23 2002

Orange Count County County Average

Average

Table 6a: Partial Day Resting Loss Emissions

(grams/hour)

Temperature: ALL Relative Humidity: Pollutant Name: Total Organic Gases

ALL

Temp ALL **UBUS** MCY degF LDA LDT MDT HDT 0.000 0.000 0.000 0.000 0.000 0.000 0.000 40

Title : Orange County Avg 2030 Winter Default Title Version : Emfac2002 V2.2 Sept 23 2002 Run Date : 07/21/05 13:20:30 Scen Year: 2030 -- Model Years: 1985 to 2030

: Winter Season

Area

Area : Orange County

Year: 2030 -- Model Years 1985 to 2030 Inclusive -- Winter

Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average

Orange Count

County

Average

Table 6b: Multi-Day Resting Loss Emissions

(grams/hour)

Relative Humidity: Temperature: ALL Pollutant Name: Total Organic Gases

ALL

Temp degF LDT MDT HDT UBUS MCY ALL LDA 0.000 0.000 0.000 0.000 0.000 0.000 0.000 40

Title : Orange County Avg 2030 Winter Default Title Version : Emfac2002 V2.2 Sept 23 2002

Run Date: 07/21/05 13:20:30

Scen Year: 2030 -- Model Years: 1985 to 2030

: Winter Season

Area

Area : Orange County

Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Orange Count County Average

Average

Table 7: Estimated Travel Fractions

Temperature: ALL Relative Humidity: Pollutant Name:

| | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|-------|-------|-------|-------|-------|-------|-------|-------|
| %VMT | 0.578 | 0.287 | 0.085 | 0.044 | 0.003 | 0.003 | 1.000 |
| %TRIP | 0.550 | 0.276 | 0.118 | 0.050 | 0.001 | 0.004 | 1.000 |
| %VEH | 0.578 | 0.295 | 0.085 | 0.028 | 0.001 | 0.013 | 1.000 |

Title : Orange County Avg 2030 Winter Default Title Version : Emfac2002 V2.2 Sept 23 2002 Run Date : 07/21/05 13:20:30 Scen Year: 2030 -- Model Years: 1985 to 2030

Year:2030 -- Model Years 1985 to 2030 Inclusive -- Winter Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average

Orange Count

County

Average

Table 8: Evaporative Running Loss Emissions

(grams/minute)

Temperature: 40F Relative Humidity: Pollutant Name: Total Organic Gases

| Time min | LDA | LDT | MDT | HDT | UBUS | MCY | ALL |
|---------------|------------------|----------------|----------------|------------------|------------------|----------------|----------------|
| <u>1</u> 2 | 0.008 0.006 | 0.262 0.136 | 0.375 0.193 | 0.187 0.096 | 1.071 0.550 | 0.004 0.037 | 0.123 0.065 |
| 2 3 | 0.007 0.009 | 0.096 0.077 | 0.135 0.108 | 0.066 0.051 | 0.378 0.293 | 0.056 0.068 | 0.047 0.040 |
| 4 5 | 0.009 | 0.066 | 0.092 | 0.042 | 0.243 | 0.075 | 0.035 |
| 10 15 | $0.013 \\ 0.014$ | 0.046 0.041 | 0.061 0.053 | 0.025 0.020 | $0.144 \\ 0.115$ | 0.095 0.105 | 0.028 0.026 |
| 20 | 0.016 | 0.040 | 0.051 | 0.018 | 0.103 | 0.113 | 0.026 |
| 25 30 | $0.017 \\ 0.017$ | 0.041 0.042 | 0.051 0.052 | $0.017 \\ 0.017$ | 0.098 0.101 | 0.119 0.124 | 0.027 0.028 |
| 35 | 0.018 | 0.044 | 0.054 | 0.017 0.017 | 0.104 0.107 | 0.129 0.133 | 0.029 0.030 |
| 40 45 | 0.018 0.019 | 0.045 0.046 | 0.055 0.056 | 0.017 | 0.110 | 0.137 | 0.030 |
| 50 55 | 0.019 0.020 | 0.048 0.049 | 0.058 0.059 | $0.017 \\ 0.017$ | $0.113 \\ 0.115$ | 0.141 0.144 | 0.031 0.032 |
| 60 | 0.020 | 0.050 | 0.060 | 0.017 | 0.118 | 0.148 | 0.033 |