

**Appendix Q AIR QUALITY/HEALTH RISK ASSESSMENT
MAPS**

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Legend

— Freeways of Interest
 Area of Interest

Incremental Emissions (lbs/day)

PM _{2.5}	PM ₁₀
≤ -55	≤ -150
>-55 to ≤-1	>-150 to ≤-1
<-1 to <1	<-1 to <1
≥1 to <55	≥1 to <150
≥ 55	≥ 150

- Notes**
1. PM_{2.5} = particulate matter less than 2.5 microns in diameter
 2. PM₁₀ = particulate matter less than 10 microns in diameter
 3. Grid cells are 0.25 miles by 0.25 miles.
 4. Total PM₁₀ and PM_{2.5} emissions include exhaust, tire wear, brake wear, and entrained dust emissions.
 5. Aerial source: ArcGIS Online ESRI Imagery.

Minimum: -8.12 pounds per day
 Maximum: 6.01 pounds per day

Minimum: -7.60 pounds per day
 Maximum: 27.95 pounds per day



Comparison of
 2035 Alternative 1 to 2012 Baseline
 Total PM₁₀ Emissions

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Legend

— Freeways of Interest

Area of Interest

Incremental Emissions (lbs/day)

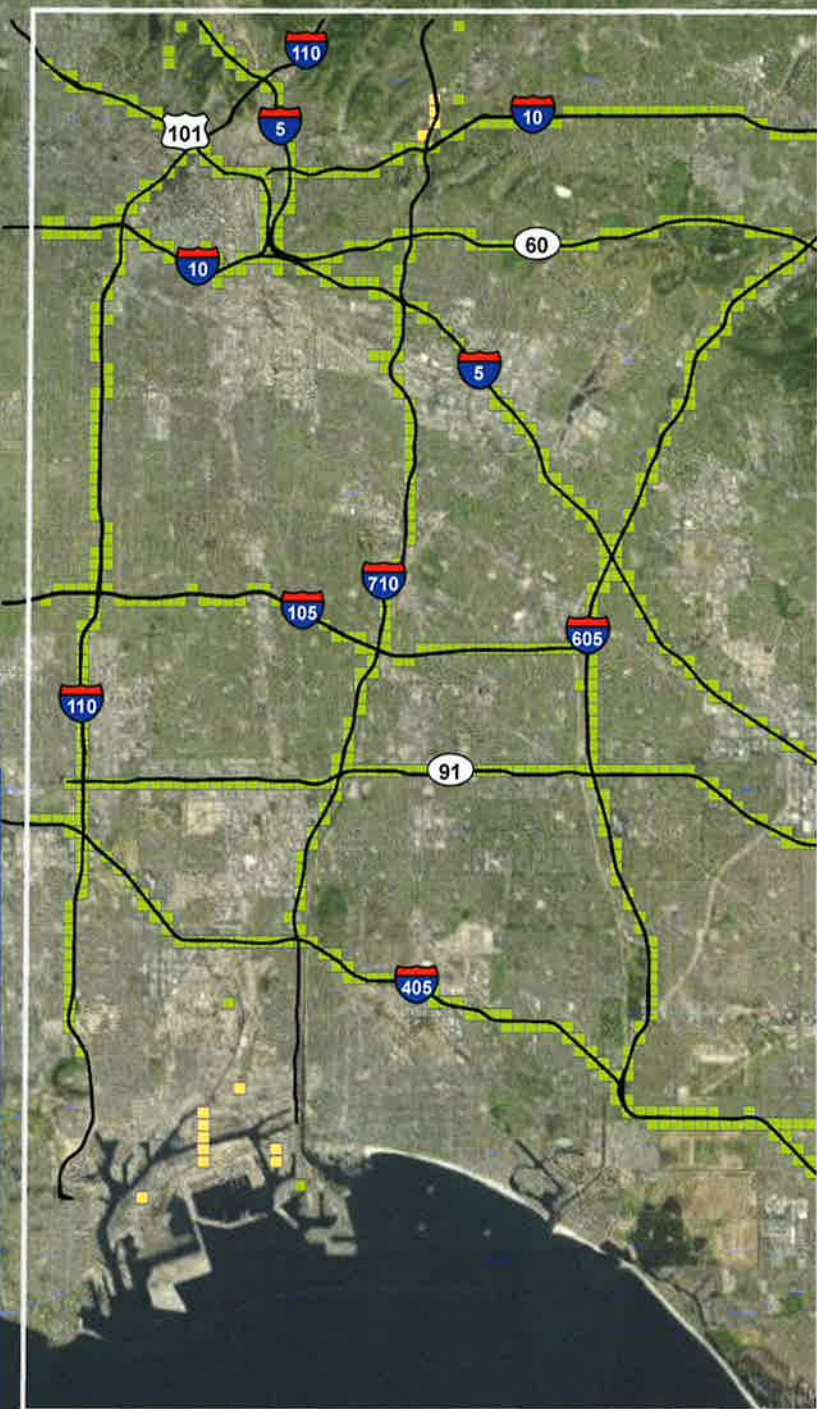
PM _{2.5}	PM ₁₀
≤ -55	≤ -150
>-55 to ≤-1	>-150 to ≤-1
<-1 to <1	<-1 to <1
≥1 to <55	≥1 to <150
≥ 55	≥ 150

Notes

1. PM_{2.5} = particulate matter less than 2.5 microns in diameter
2. PM₁₀ = particulate matter less than 10 microns in diameter
3. Grid cells are 0.25 miles by 0.25 miles.
4. Total PM₁₀ and PM_{2.5} emissions include exhaust, tire wear, brake wear, and entrained dust emissions.
5. Aerial source: ArcGIS Online ESRI Imagery.

Minimum: -8.02 pounds per day
Maximum: 5.90 pounds per day

Minimum: -0.87 pounds per day
Maximum: 1.37 pounds per day



Minimum: -7.60 pounds per day
Maximum: 27.40 pounds per day

Minimum: -4.93 pounds per day
Maximum: 7.28 pounds per day



Comparison of
2035 Alternative 5C to 2012 Baseline
Total PM₁₀ Emissions

Comparison of
2035 Alternative 5C to 2035 Alternative 1
Total PM₁₀ Emissions



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Legend

— Freeways of Interest

Area of Interest

Incremental Emissions (lbs/day)

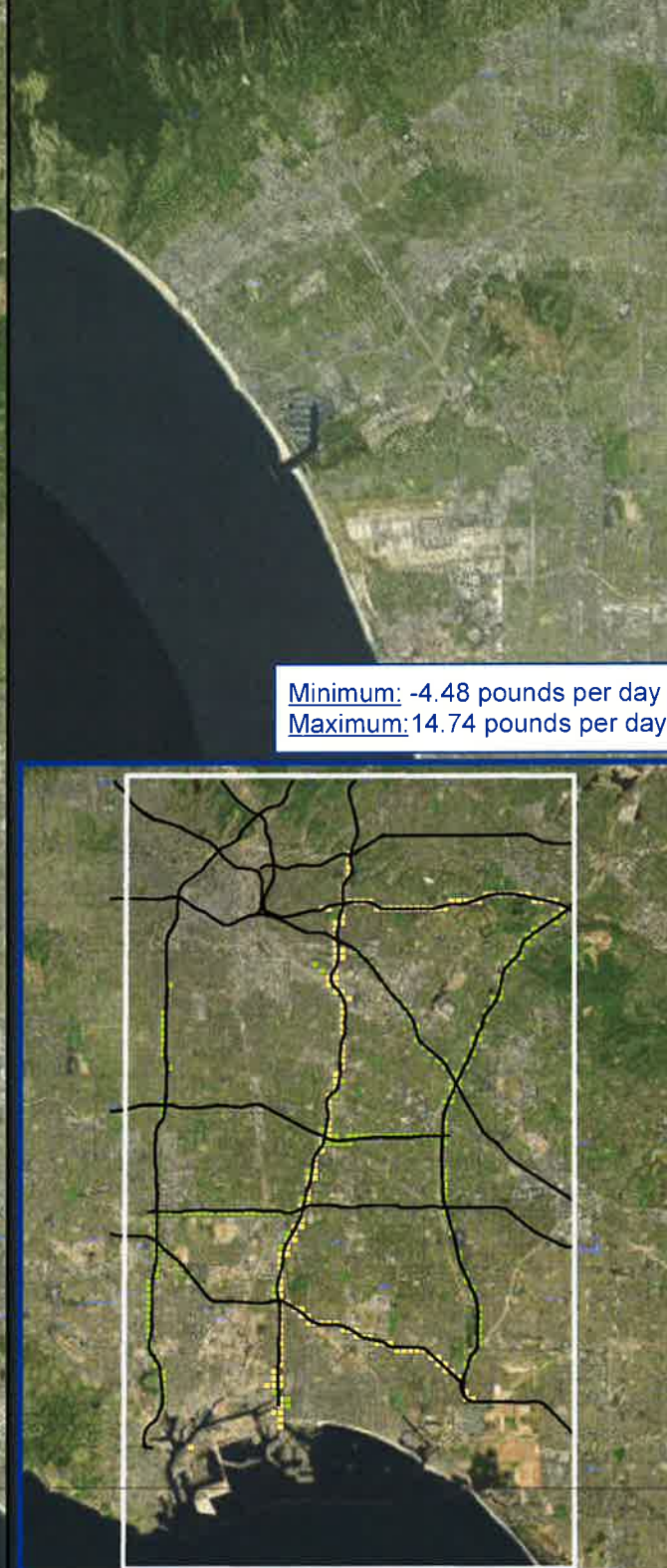
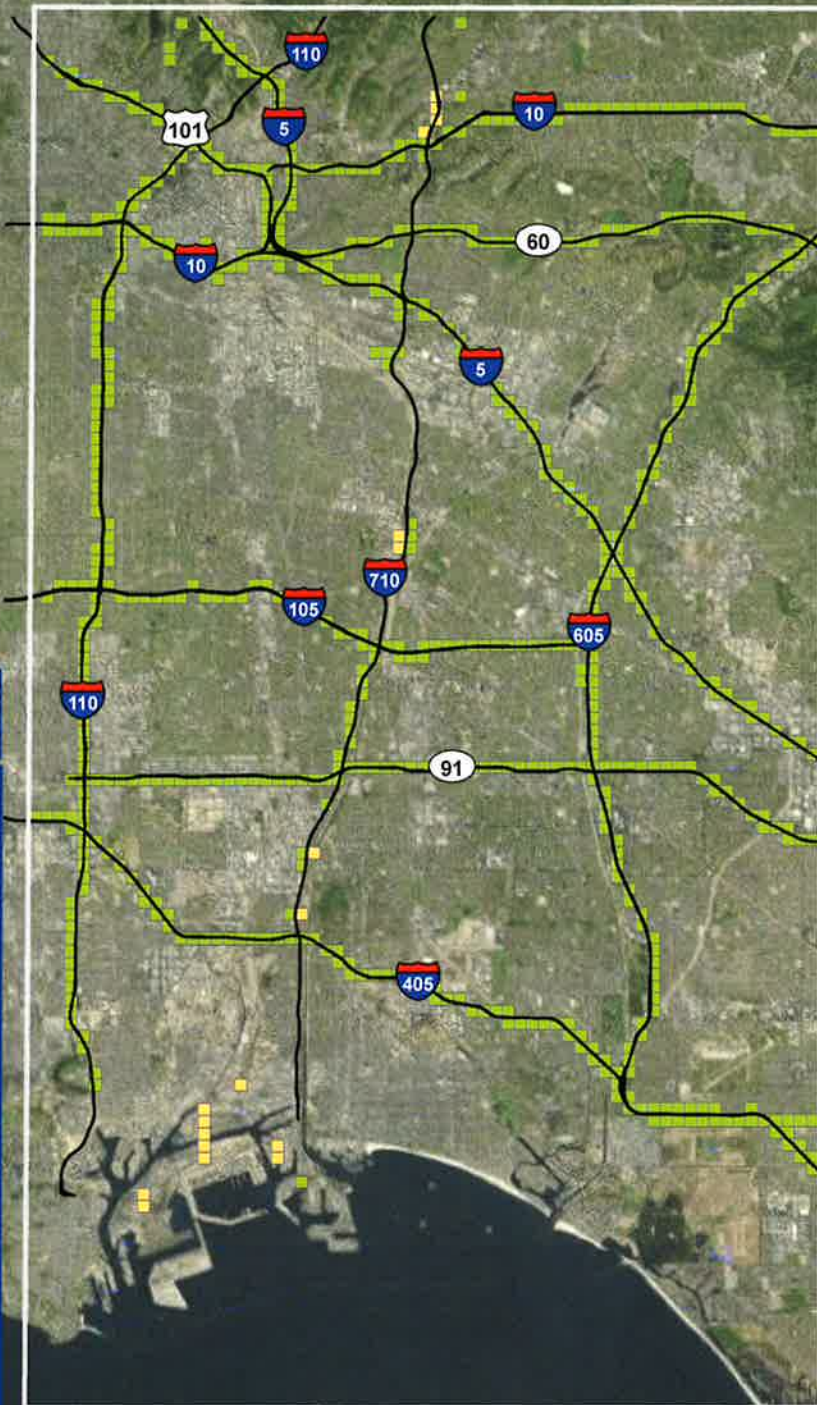
PM _{2.5}	PM ₁₀
≤ -55	≤ -150
>-55 to ≤-1	>-150 to ≤-1
<-1 to <1	<-1 to <1
≥1 to <55	≥1 to <150
≥ 55	≥ 150

Notes

1. PM_{2.5} = particulate matter less than 2.5 microns in diameter
2. PM₁₀ = particulate matter less than 10 microns in diameter
3. Grid cells are 0.25 miles by 0.25 miles.
4. Total PM₁₀ and PM_{2.5} emissions include exhaust, tire wear, brake wear, and entrained dust emissions.
5. Aerial source: ArcGIS Online ESRI Imagery.

Minimum: -7.91 pounds per day
Maximum: 6.02 pounds per day

Minimum: -0.80 pounds per day
Maximum: 2.83 pounds per day



Minimum: -7.60 pounds per day
Maximum: 28.06 pounds per day

Minimum: -4.48 pounds per day
Maximum: 14.74 pounds per day



Comparison of 2035 Alternative 7 to 2012 Baseline Total PM₁₀ Emissions

Comparison of 2035 Alternative 7 to 2035 Alternative 1 Total PM₁₀ Emissions



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Legend

— Freeways of Interest

Area of Interest

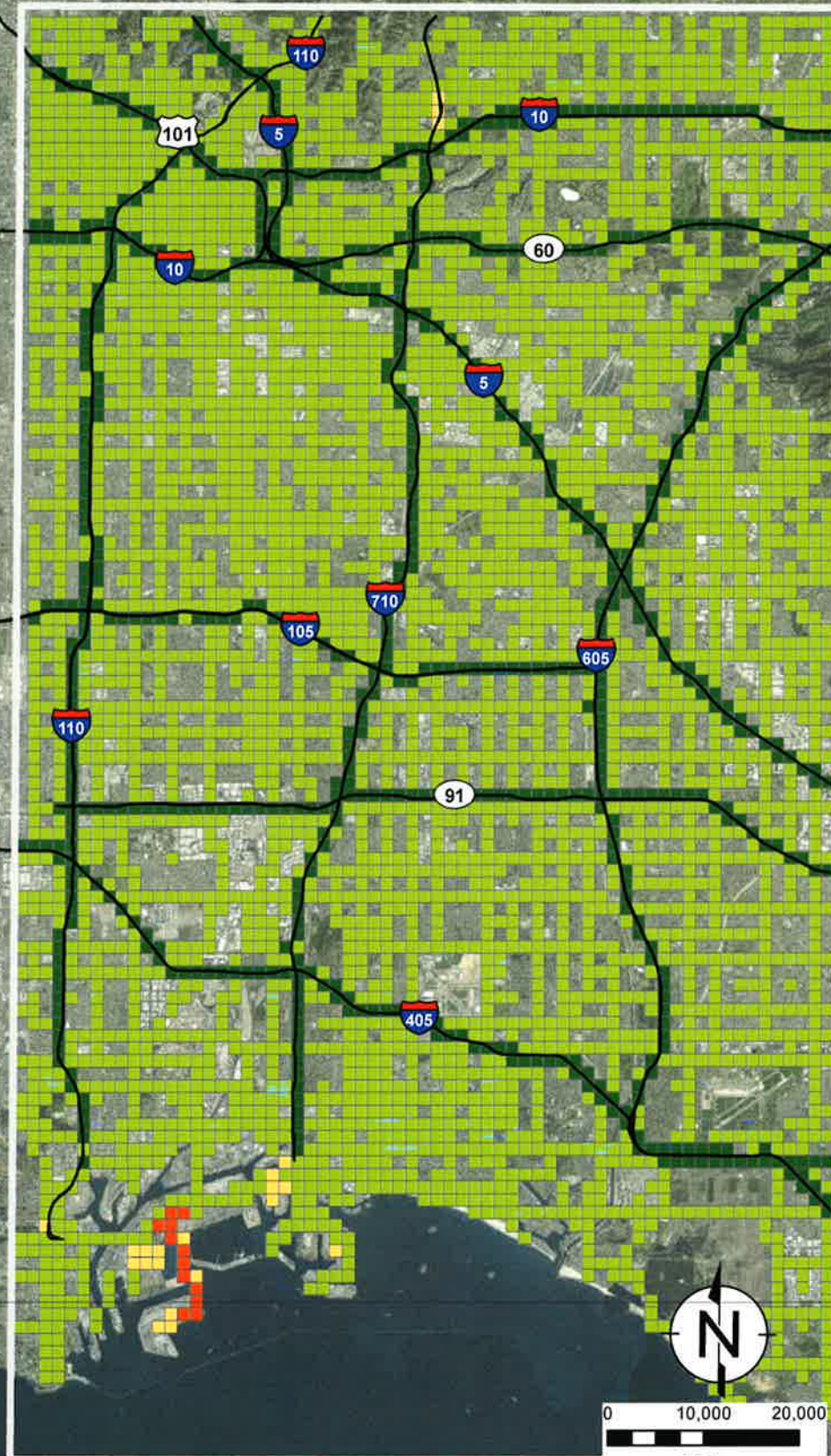
Incremental Emissions (lbs/day)

- ≤ -55
- >-55 to ≤-1
- >-1 to <1
- ≥1 to <55
- ≥ 55

Notes

1. NO_x = Oxides of nitrogen
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial source: ArcGIS Online ESRI Imagery.

Minimum: -329.56 pounds per day
Maximum: 136.79 pounds per day



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Legend

— Freeways of Interest

Area of Interest

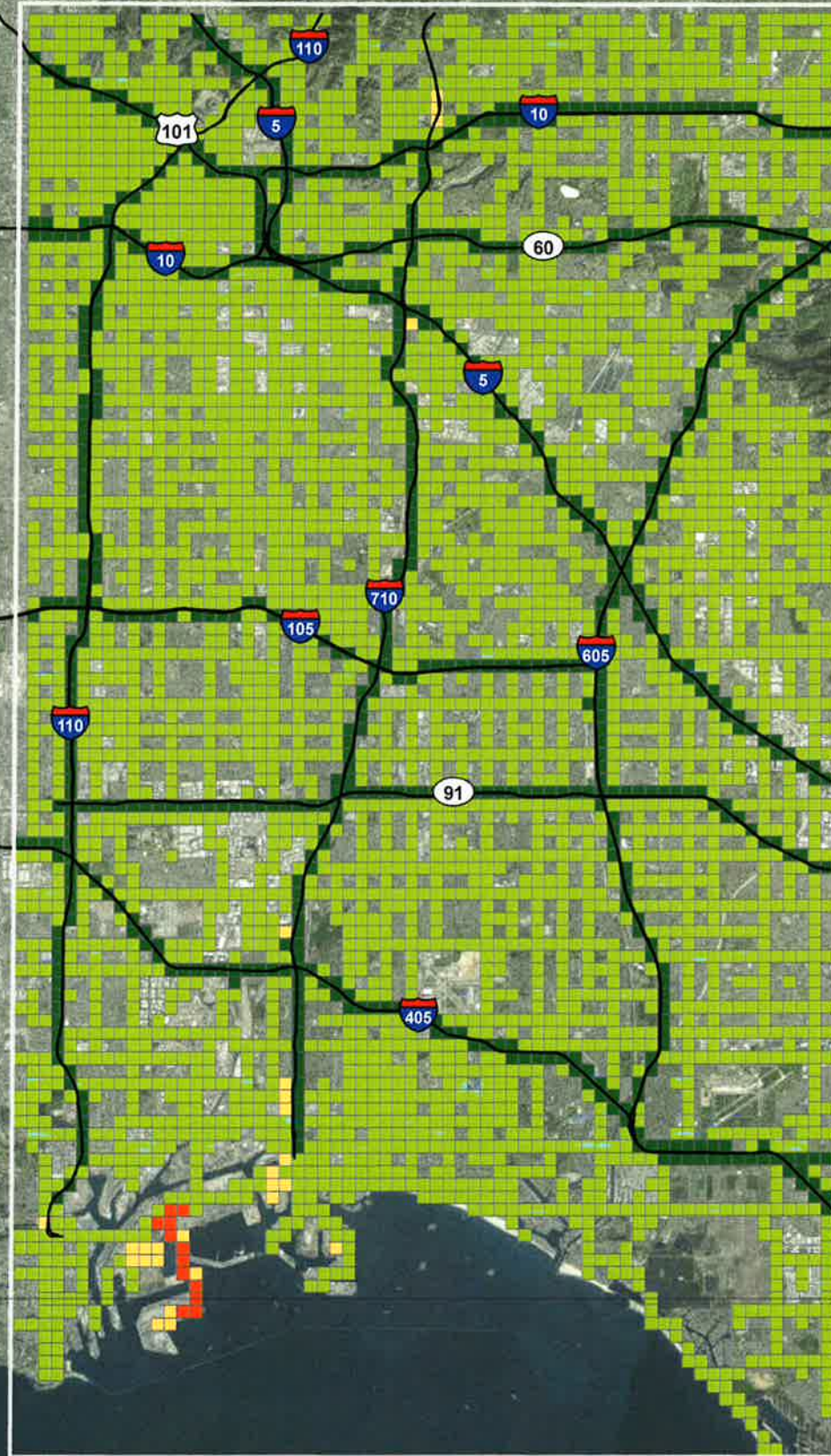
Incremental Emissions (lbs/day)

- ≤ -55
- >-55 to ≤-1
- >-1 to <1
- ≥1 to <55
- ≥ 55

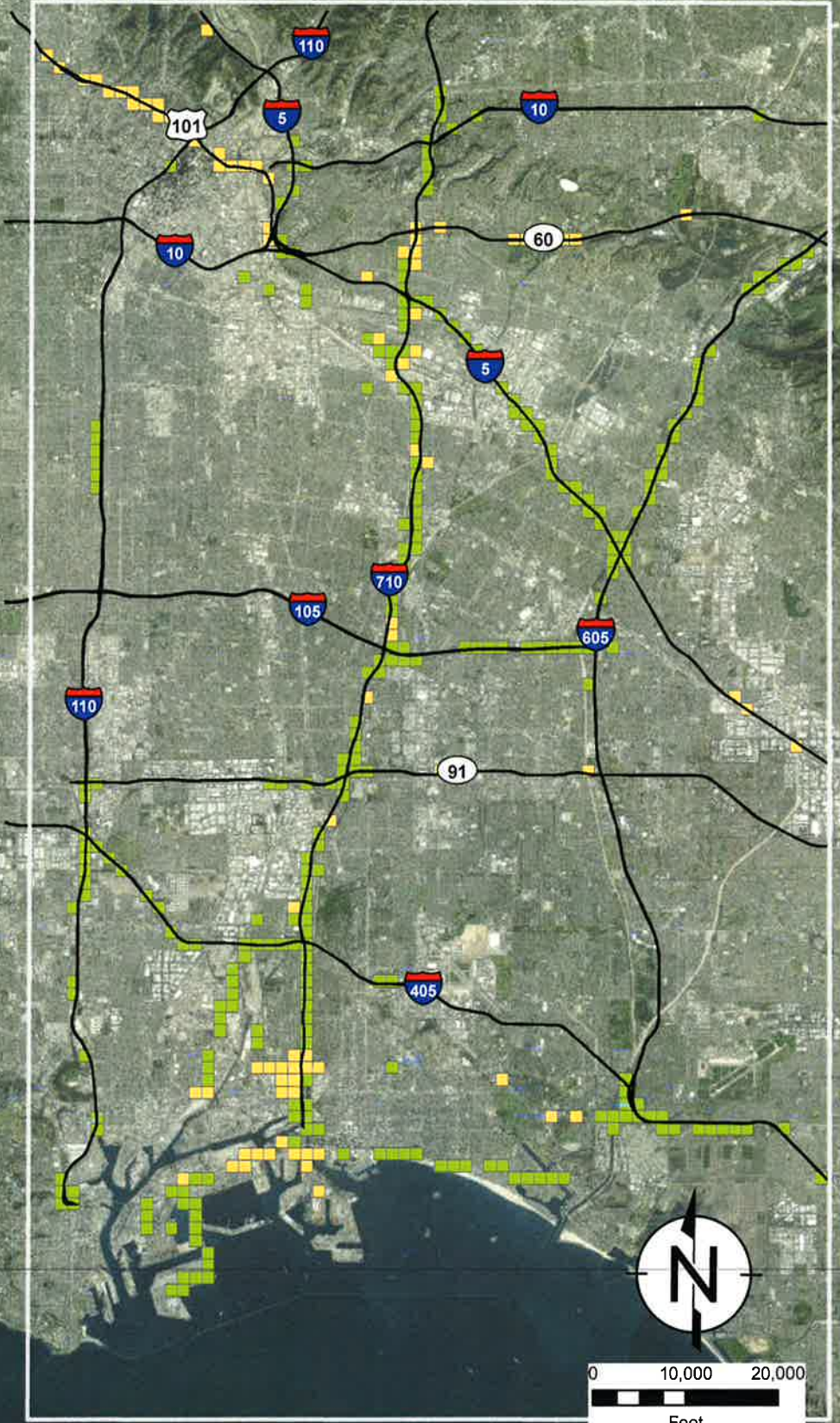
Notes

1. NO_x = Oxides of nitrogen
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -329.52 pounds per day
Maximum: 130.57 pounds per day



Minimum: -28.84 pounds per day
Maximum: 19.19 pounds per day



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Legend

— Freeways of Interest

Area of Interest

Incremental Emissions (lbs/day)

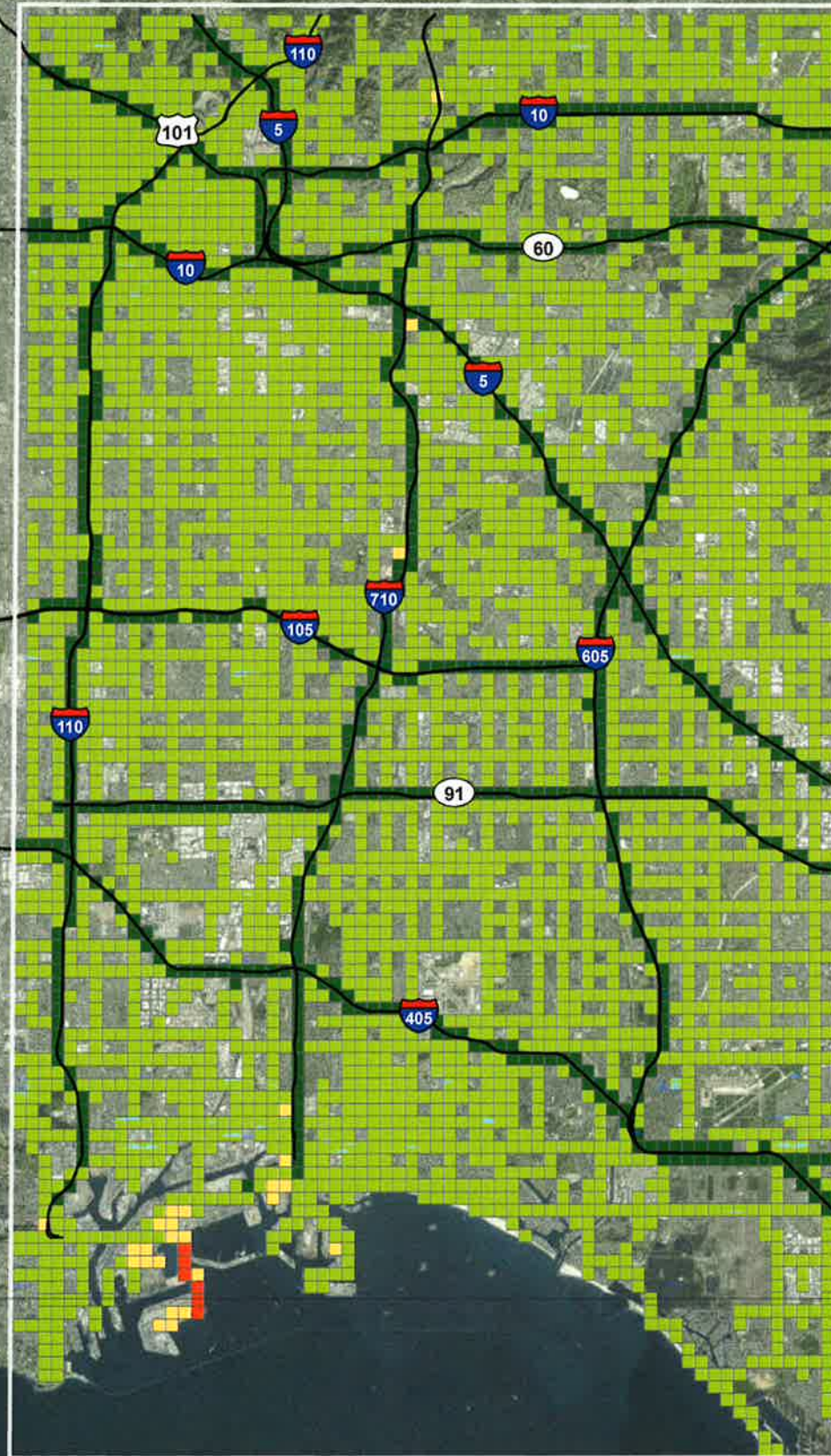
- ≤ -55
- >-55 to ≤-1
- >-1 to <1
- ≥1 to <55
- ≥ 55

Notes

1. NO_x = Oxides of nitrogen
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -343.27 pounds per day
Maximum: 92.66 pounds per day

Minimum: -50.69 pounds per day
Maximum: 13.98 pounds per day



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Legend

Maximum Incremental Annual PM_{10} Impact ($\mu g/m^3$)

- 5.0
- 1.0
- 1.0
- 5.0

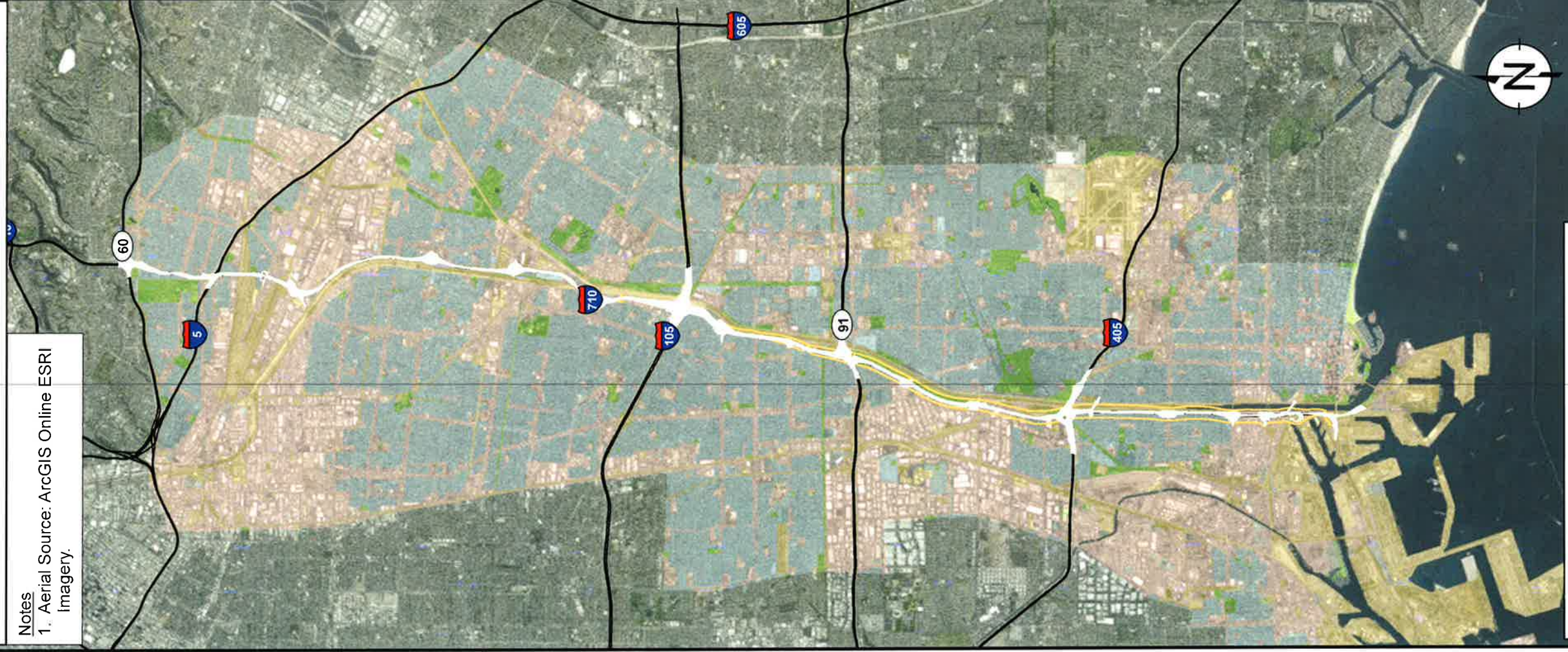
Alternative 1 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 1 to 2012 Baseline

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Legend

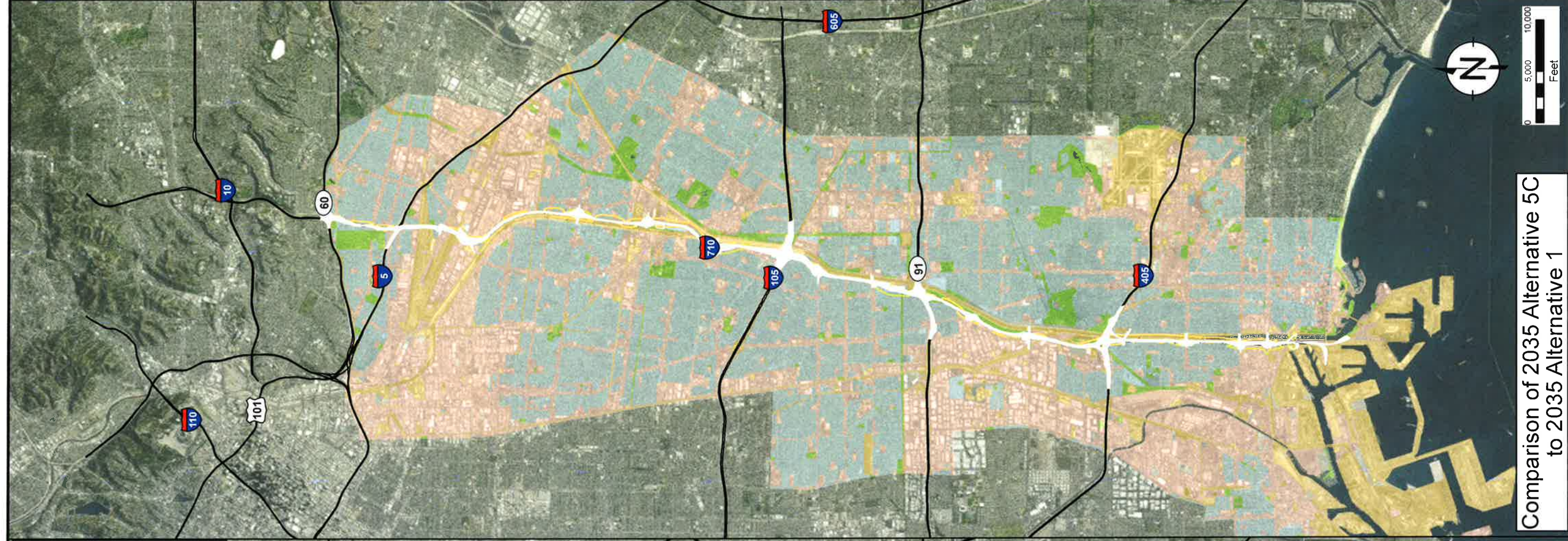
Maximum Incremental Annual PM₁₀ Impact (µg/m³)

- 5.0
- 1.0
- 1.0
- 5.0

Land Use

- Alternative 5C Right of Way
- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes
 1. Aerial Source: ArcGIS Online ESRI Imagery.

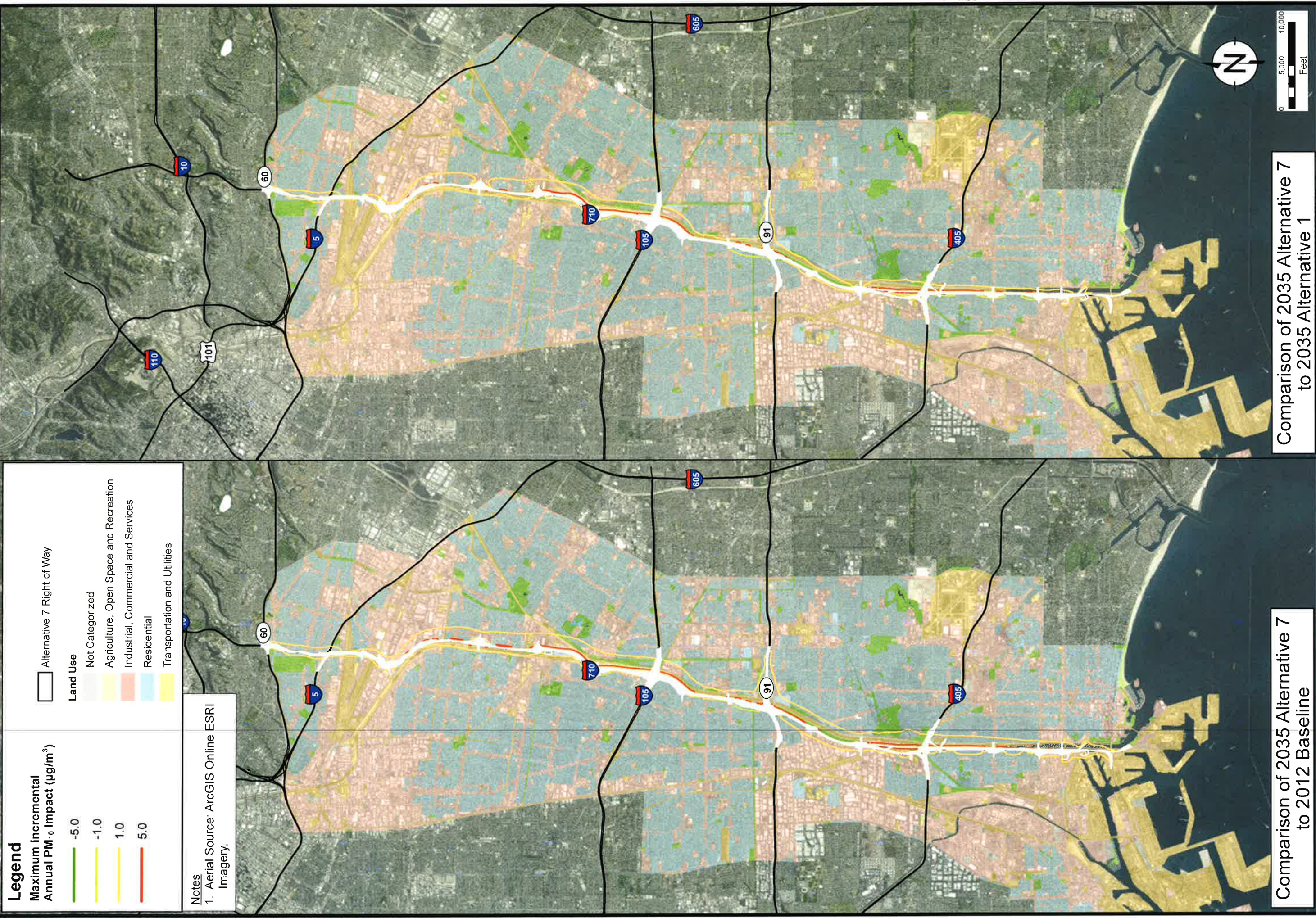


Comparison of 2035 Alternative 5C to 2012 Baseline

Comparison of 2035 Alternative 5C to 2035 Alternative 1

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Legend

Maximum Incremental Annual PM₁₀ Impact (µg/m³)

- 5.0
- 1.0
- 1.0
- 5.0

Land Use

- Alternative 7 Right of Way
- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.

Comparison of 2035 Alternative 7 to 2012 Baseline

Comparison of 2035 Alternative 7 to 2035 Alternative 1

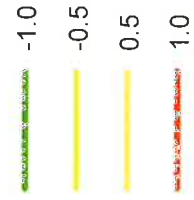
0 5,000 10,000 Feet

Path: Z:\01_Projects\1710_RDEIR_SDEIS\Main_Report\Figure 4-3c - 2035 Alternative 7 Total PM10 Impacts_ROW.mxd

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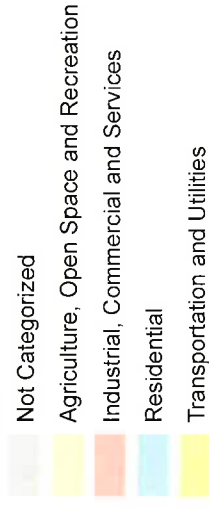
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Maximum Incremental Annual $PM_{2.5}$ Impact ($\mu g/m^3$)



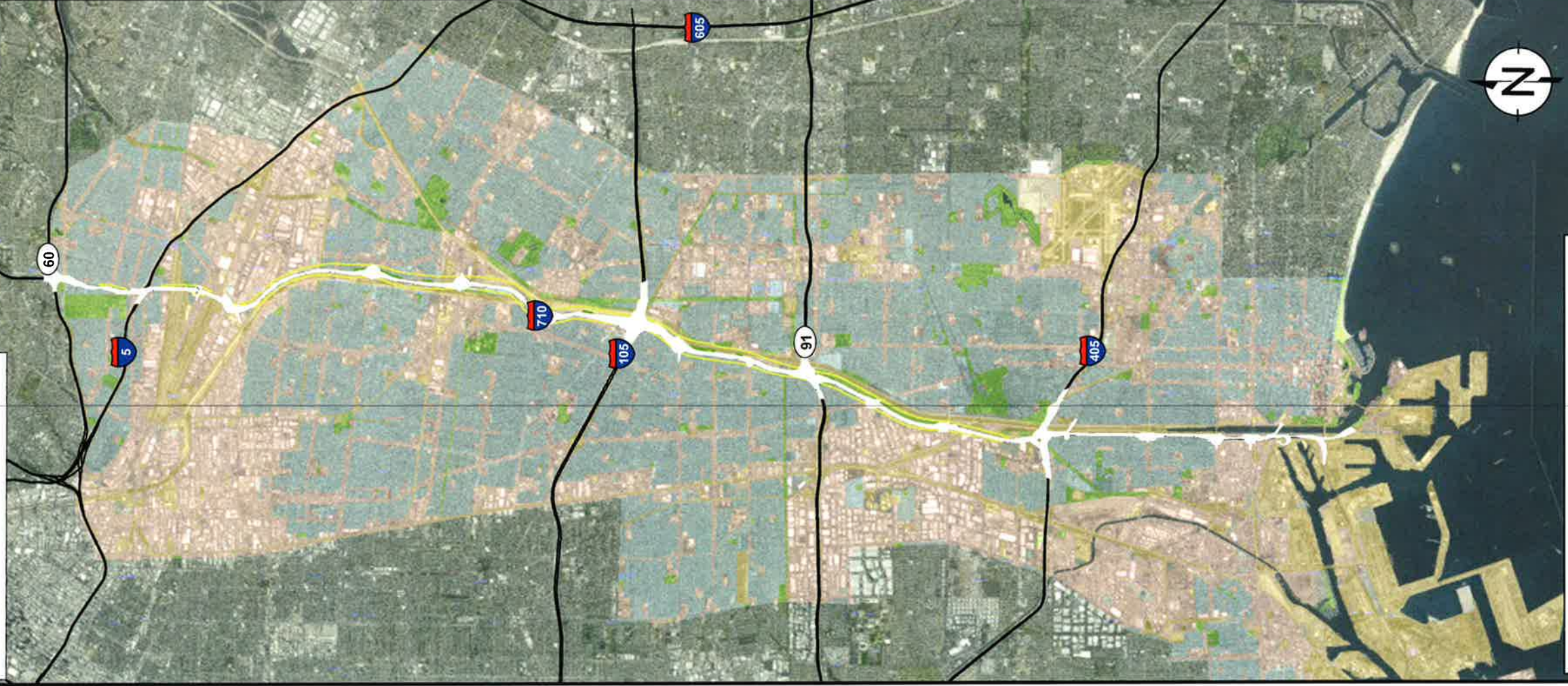
Alternative 1 Right of Way

Land Use



Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 1 to 2012 Baseline

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Legend

Maximum Incremental Annual $PM_{2.5}$ Impact ($\mu g/m^3$)

- 1.0
- 0.5
- 0.5
- 1.0

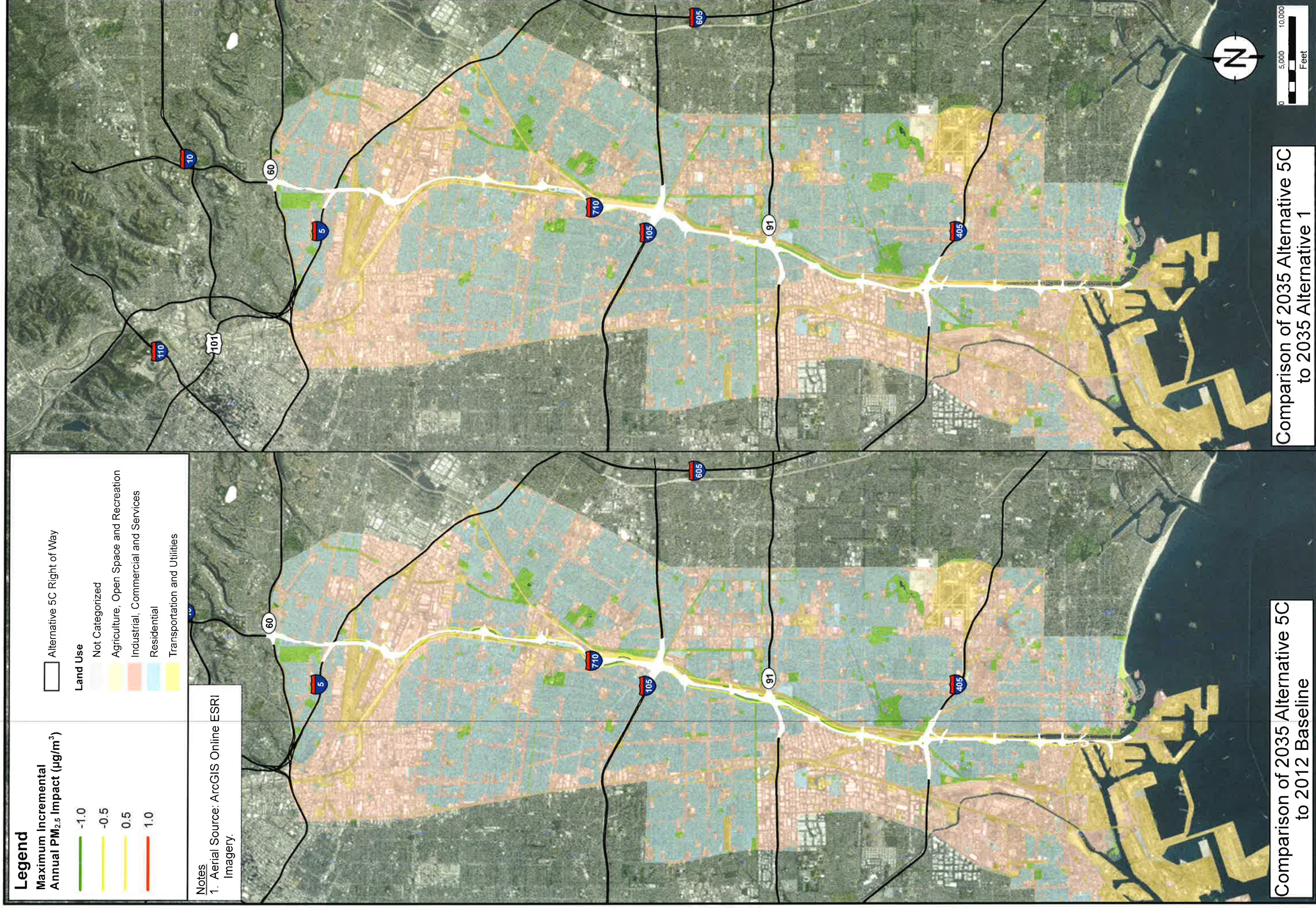
Alternative 5C Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 5C to 2012 Baseline

Comparison of 2035 Alternative 5C to 2035 Alternative 1



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DRAFTED BY: KMY

Date: 8/1/2016

2035 Alternative 5C Incremental Annual Average $PM_{2.5}$ Impacts

Figure
4-3e

PROJECT: 05-16574I

Path: Z:\01_Projects\1710_RDEIR_SDEIS\Main_Report\Figure 4-3e - 2035 Alternative 5C Total $PM_{2.5}$ Impacts_ROW.mxd

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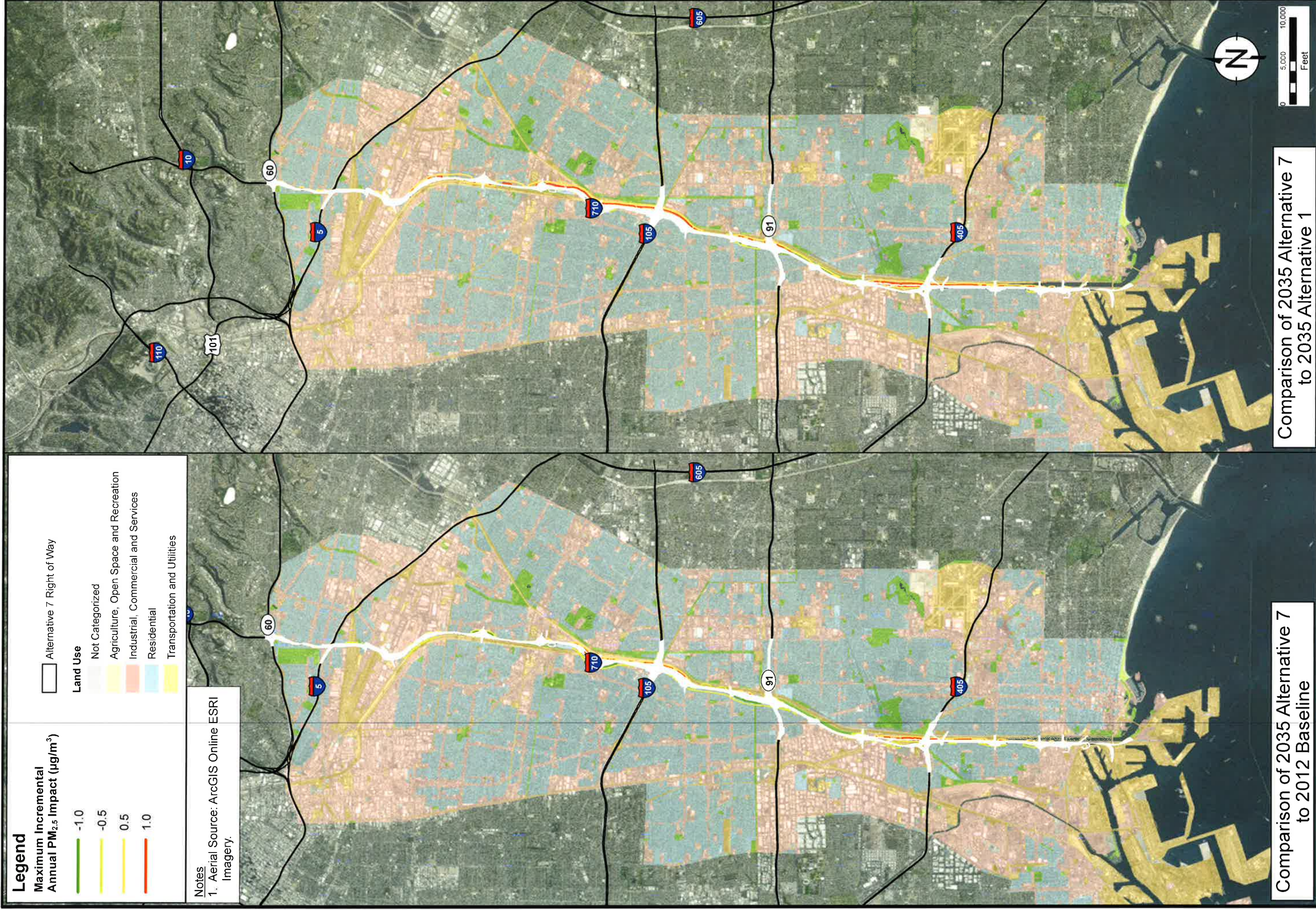
Maximum Incremental Annual $PM_{2.5}$ Impact ($\mu g/m^3$)

- 1.0
- 0.5
- 0.5
- 1.0

- Alternative 7 Right of Way
- Land Use
 - Not Categorized
 - Agriculture, Open Space and Recreation
 - Industrial, Commercial and Services
 - Residential
 - Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 7 to 2012 Baseline

Comparison of 2035 Alternative 7 to 2035 Alternative 1



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DRAFTED BY: KMY

Date: 8/1/2016

2035 Alternative 7 Incremental Annual Average $PM_{2.5}$ Impacts

Figure
4-3f

PROJECT: 05-18574I

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Legend

**Maximum Incremental
24-Hour PM₁₀ Impact ($\mu\text{g}/\text{m}^3$)**

- 2.5 to 2.5
- > 2.5

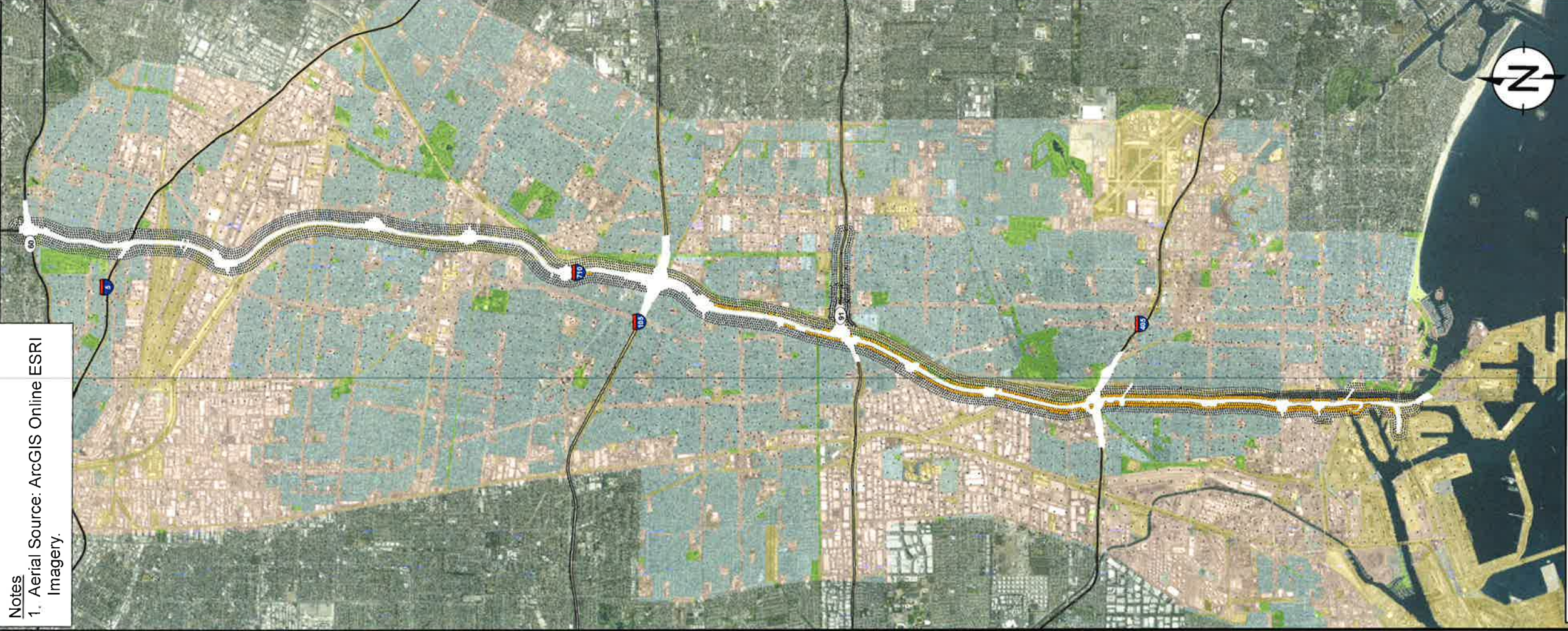
Alternative 1 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 1
to 2012 Baseline

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Legend

Maximum Incremental 24-Hour PM₁₀ Impact (µg/m³)

- -2.5 to 2.5
- > 2.5

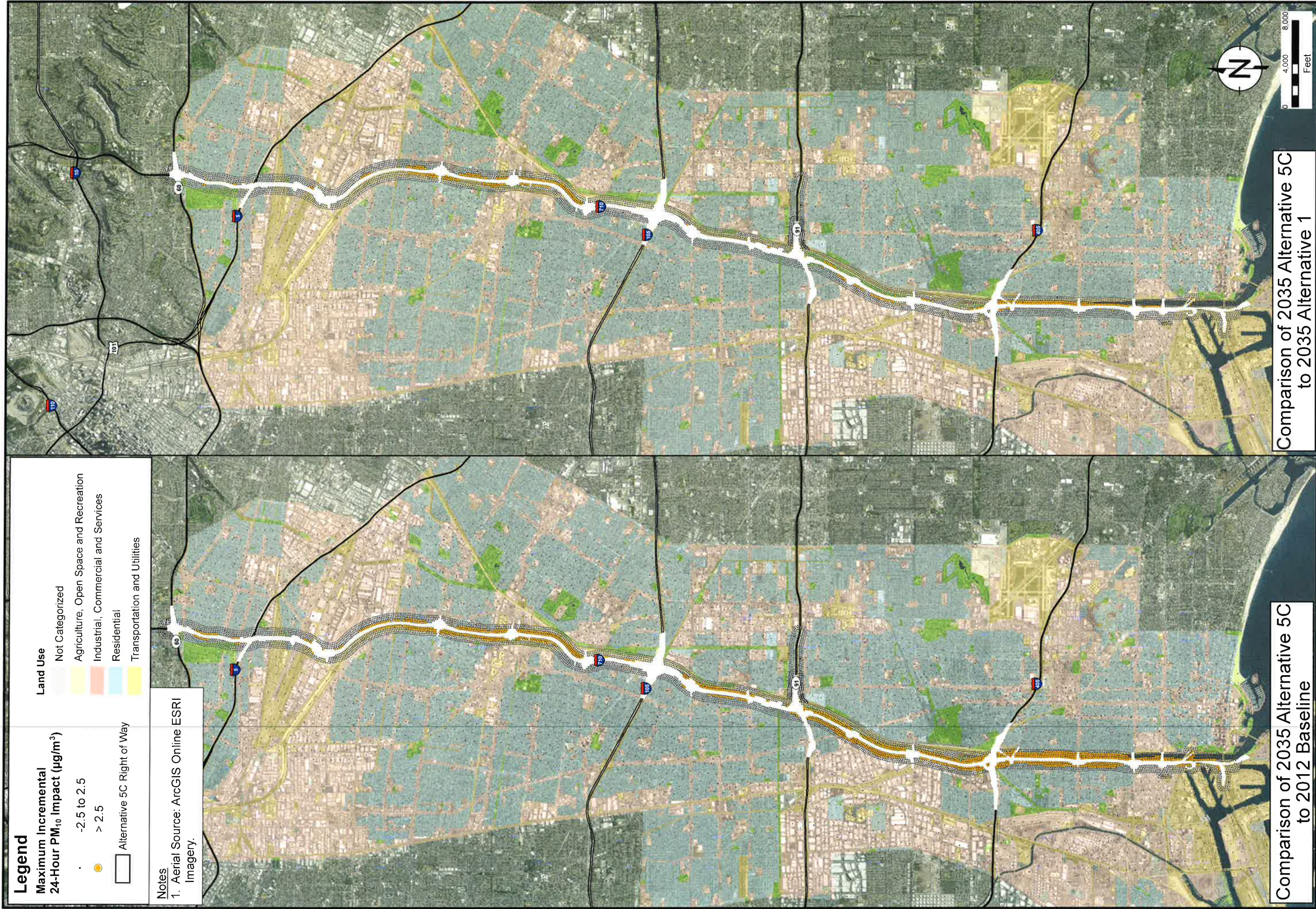
□ Alternative 5C Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 5C to 2012 Baseline

Comparison of 2035 Alternative 5C to 2035 Alternative 1

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Legend

Maximum Incremental 24-Hour PM₁₀ Impact (µg/m³)

- 2.5 to 2.5
- > 2.5

Alternative 7 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 7 to 2012 Baseline

Comparison of 2035 Alternative 7 to 2035 Alternative 1



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2035 Alternative 7 Maximum Incremental 24-Hour PM₁₀ Impacts

Figure 4-4C

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Date: 7/29/2016

PROJECT: 05-185741

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Legend

Maximum Incremental 24-Hour PM_{2.5} Impact ($\mu\text{g}/\text{m}^3$)

- -2.5 to 2.5
- > 2.5

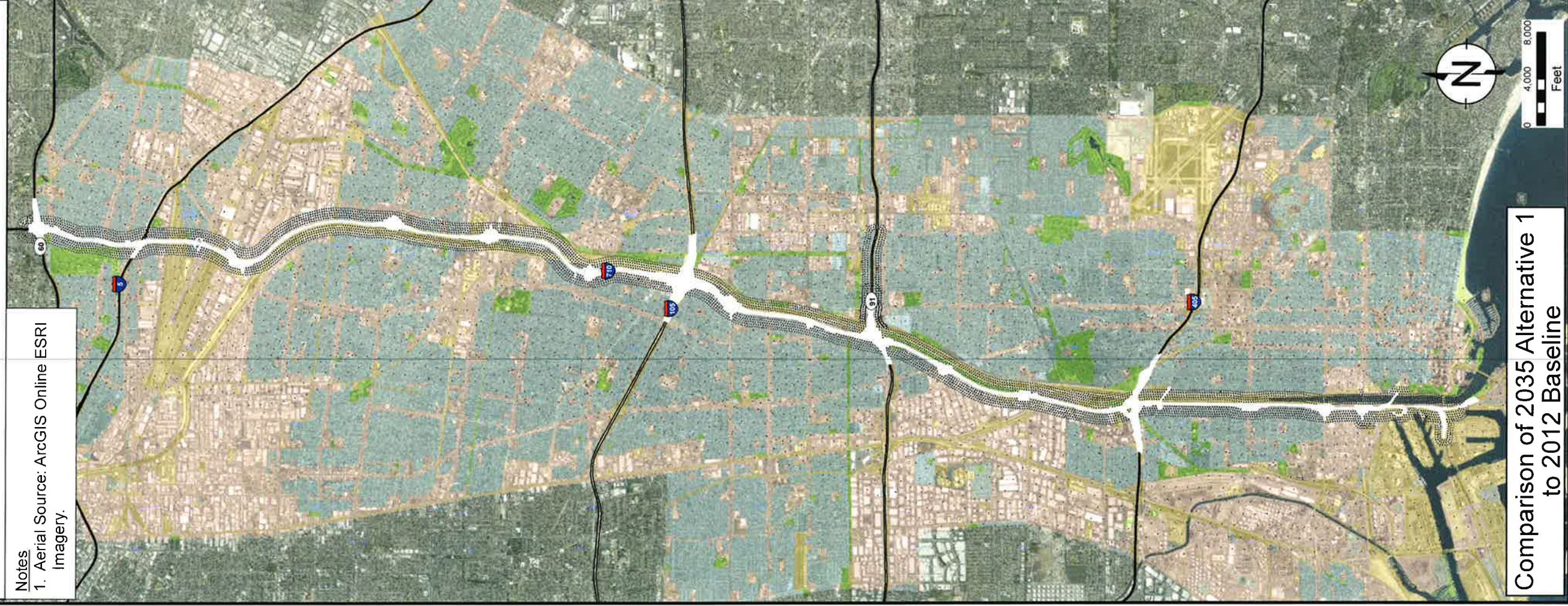
□ Alternative 1 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 1 to 2012 Baseline

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Legend

Maximum Incremental 24-Hour PM_{2.5} Impact (µg/m³)

- 2.5 to 2.5
- > 2.5

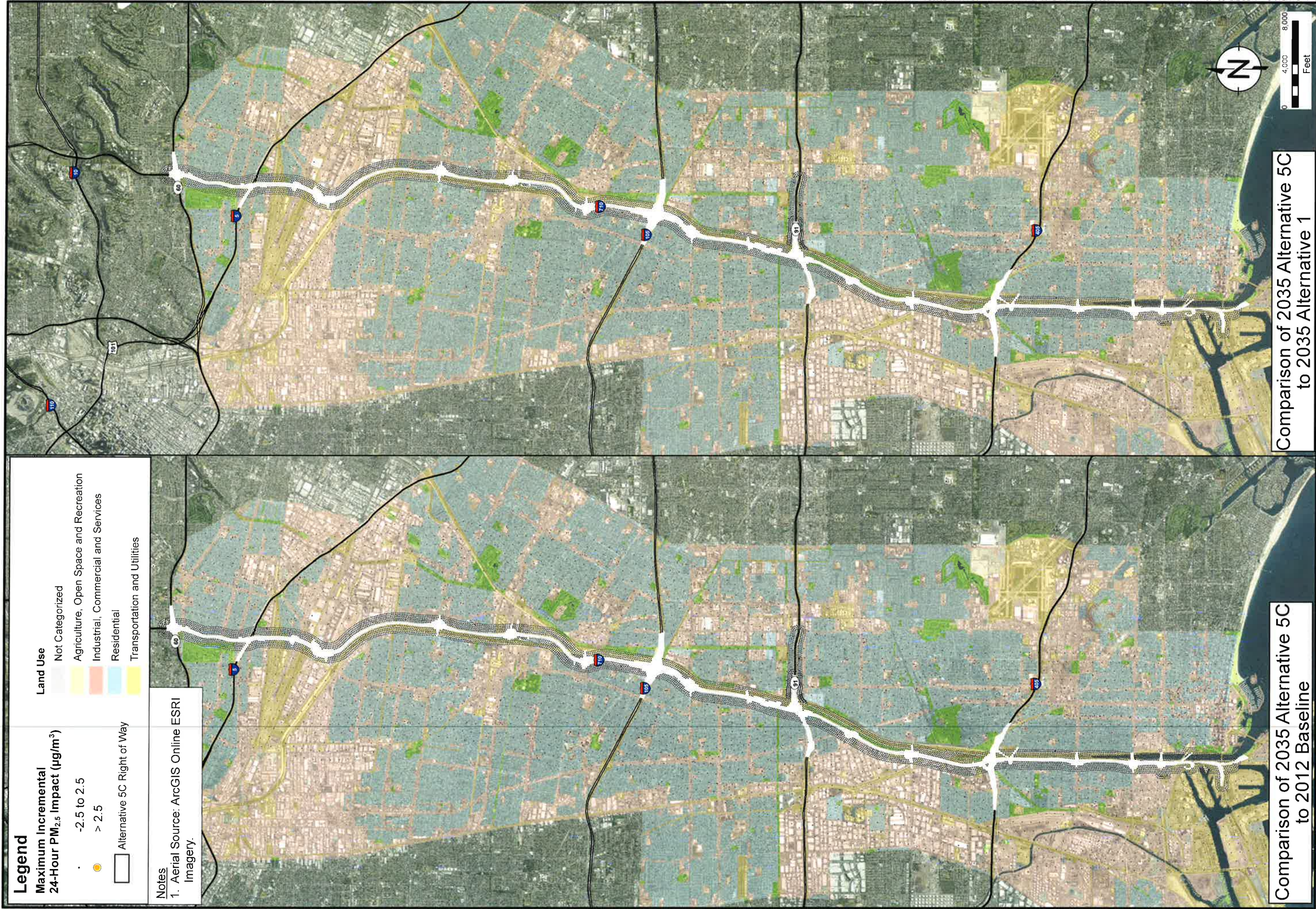
Alternative 5C Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 5C to 2012 Baseline

Comparison of 2035 Alternative 5C to 2035 Alternative 1



ENVIRON

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Date: 7/29/2016

2035 Alternative 5C Maximum Incremental 24-Hour PM_{2.5} Impacts

Figure 4-4e

PROJECT: 05-18574I

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Legend

Maximum Incremental 24-Hour PM_{2.5} Impact (µg/m³)

- -2.5 to 2.5
- > 2.5

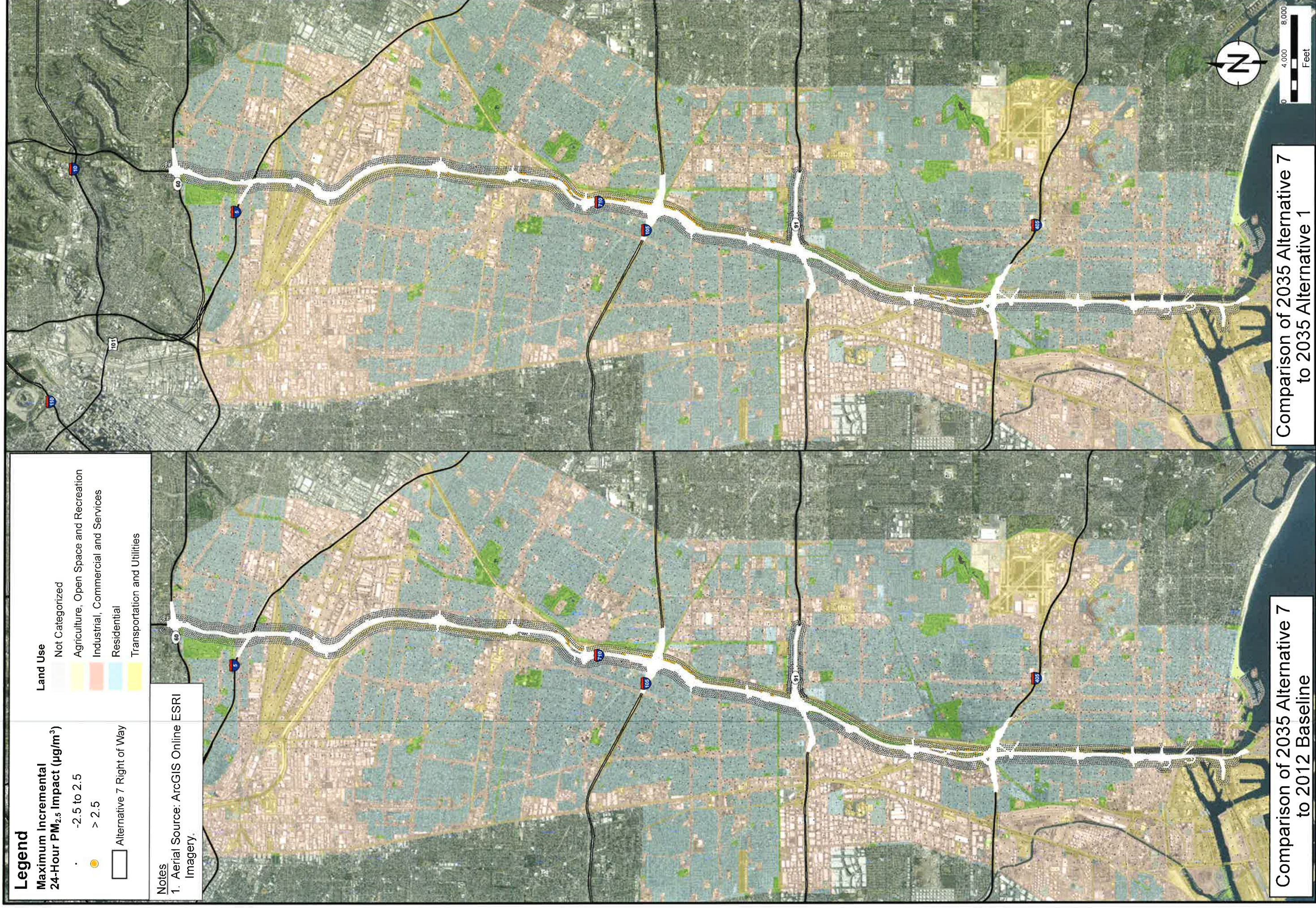
□ Alternative 7 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 7 to 2012 Baseline

Comparison of 2035 Alternative 7 to 2035 Alternative 1



ENVIRON

2035 Alternative 7 Maximum Incremental 24-Hour PM_{2.5} Impacts

Figure 4-4f

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Date: 7/29/2016

PROJECT: 05-165741

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— Freeways of Interest

Area of Interest

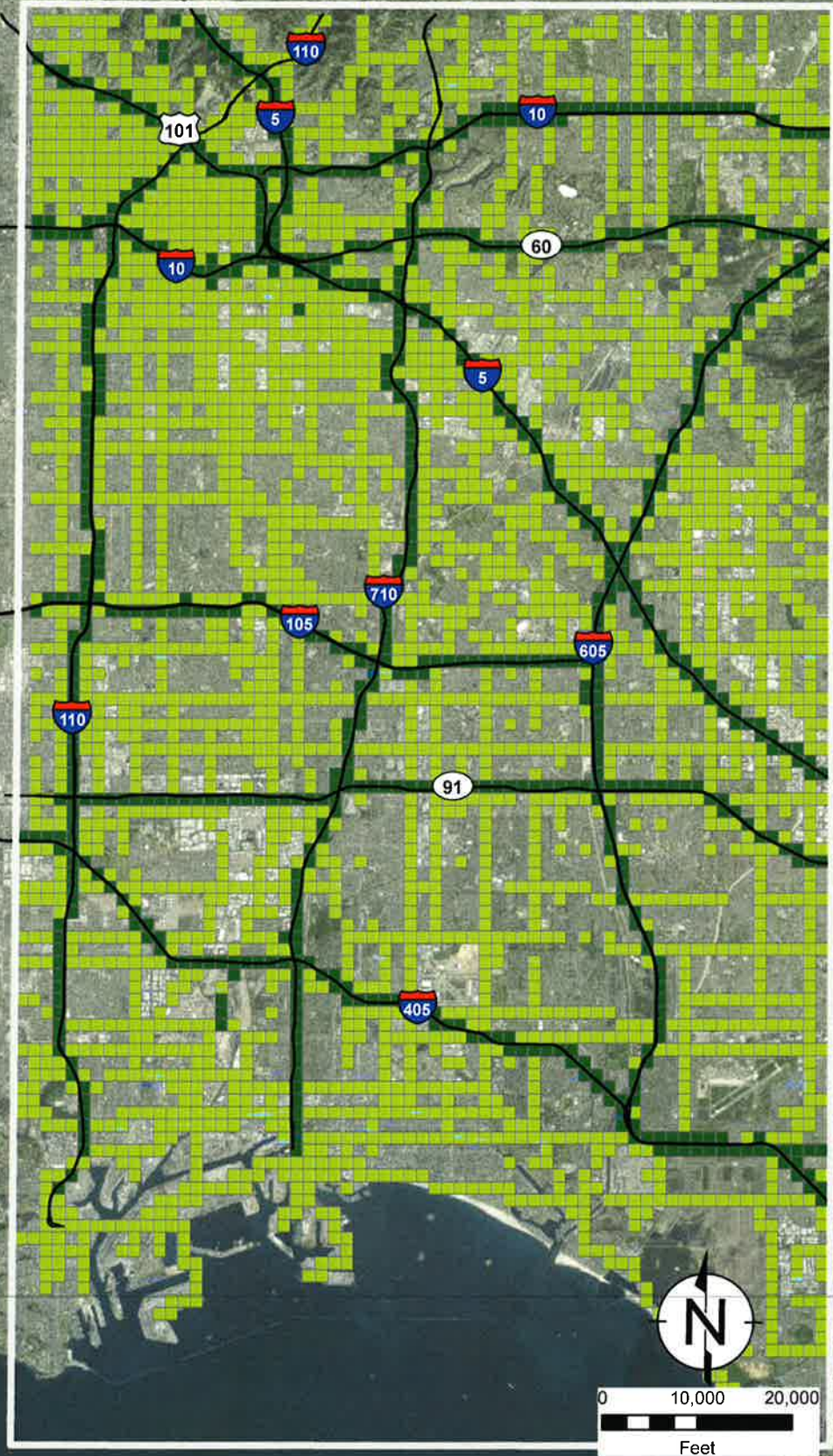
Incremental Emissions (lbs/day)

- ≤ -1
- >-1 to ≤-0.04
- >-0.04 to <0.04
- ≥0.04 to <1
- ≥ 1

Notes

1. DPM = Diesel Particulate Matter
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -9.06 pounds per day
Maximum: 0.01 pounds per day



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Legend

— Freeways of Interest

Area of Interest

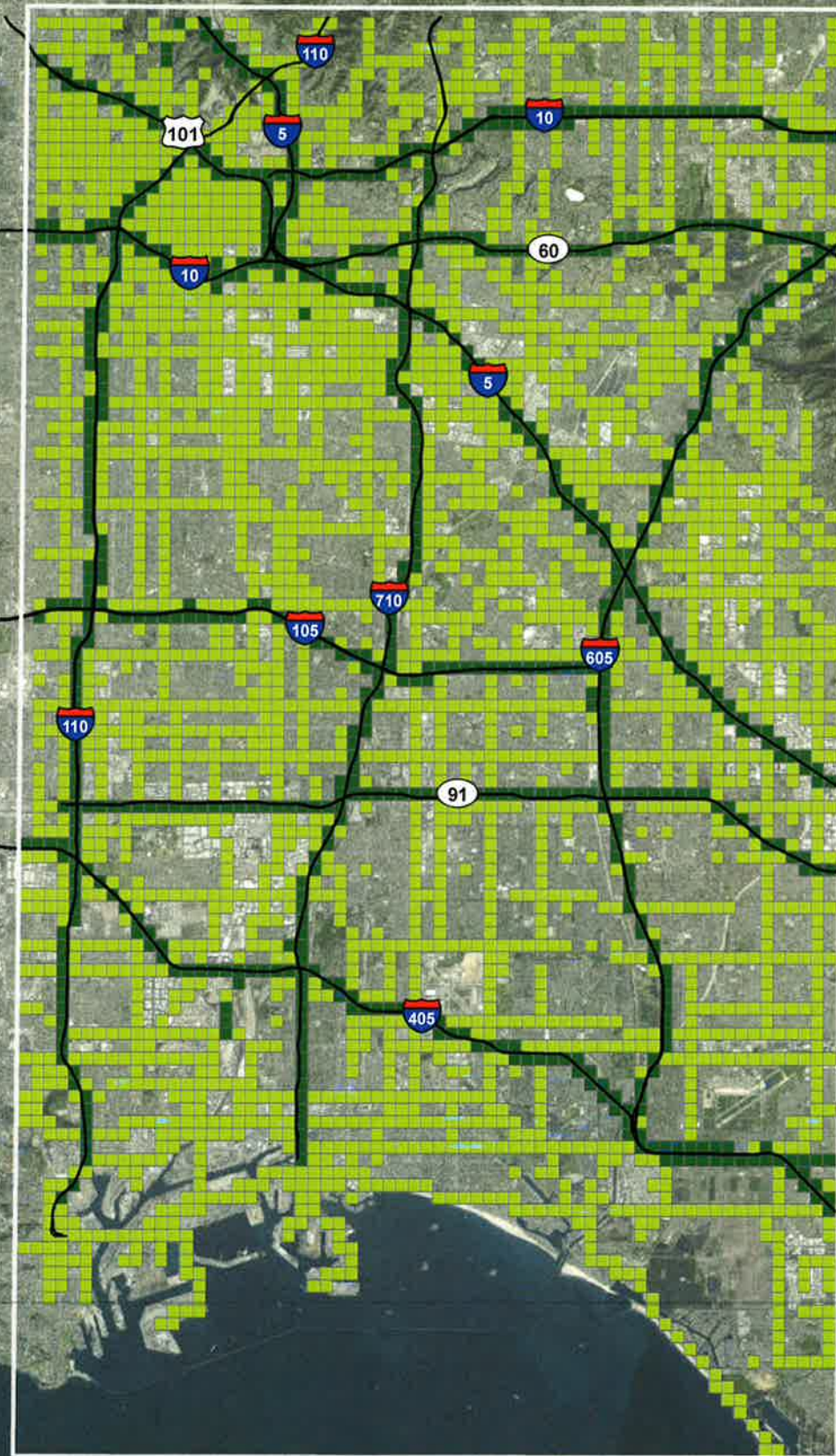
Incremental Emissions (lbs/day)

- ≤ -1
- >-1 to ≤-0.04
- >-0.04 to <0.04
- ≥0.04 to <1
- ≥ 1

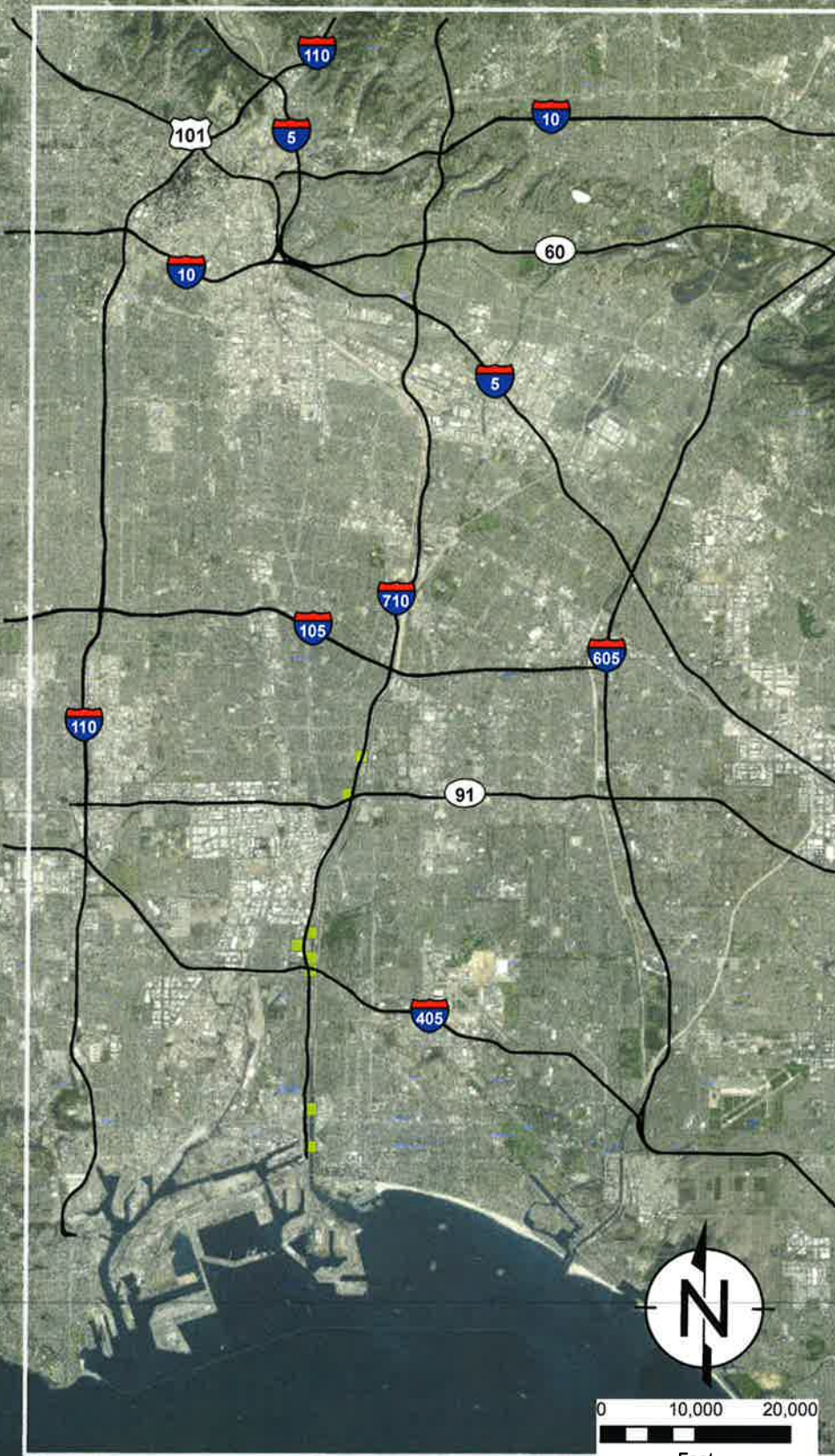
Notes

1. DPM = Diesel Particulate Matter
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -9.06 pounds per day
Maximum: 0.02 pounds per day



Minimum: -0.06 pounds per day
Maximum: 0.03 pounds per day



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— Freeways of Interest

Area of Interest

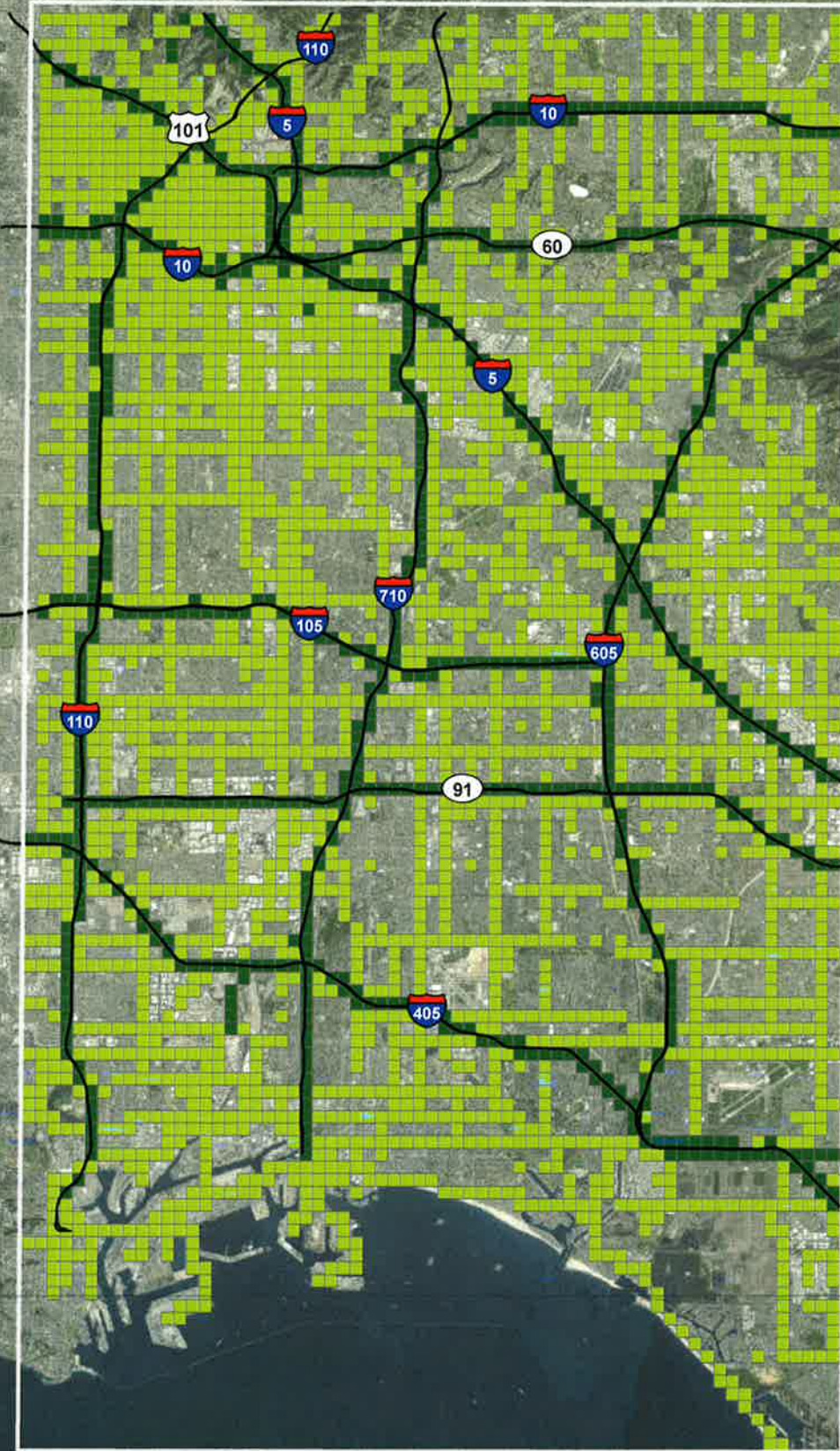
Incremental Emissions (lbs/day)

- ≤ -1
- >-1 to ≤-0.04
- >-0.04 to <0.04
- ≥0.04 to <1
- ≥ 1

Notes

1. DPM = Diesel Particulate Matter
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -9.12 pounds per day
Maximum: 0.01 pounds per day



Minimum: -0.13 pounds per day
Maximum: 0.01 pounds per day



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Legend

Incremental Cancer Risk in a Million

- 100
- 10.0
- 1.0
- 1.0

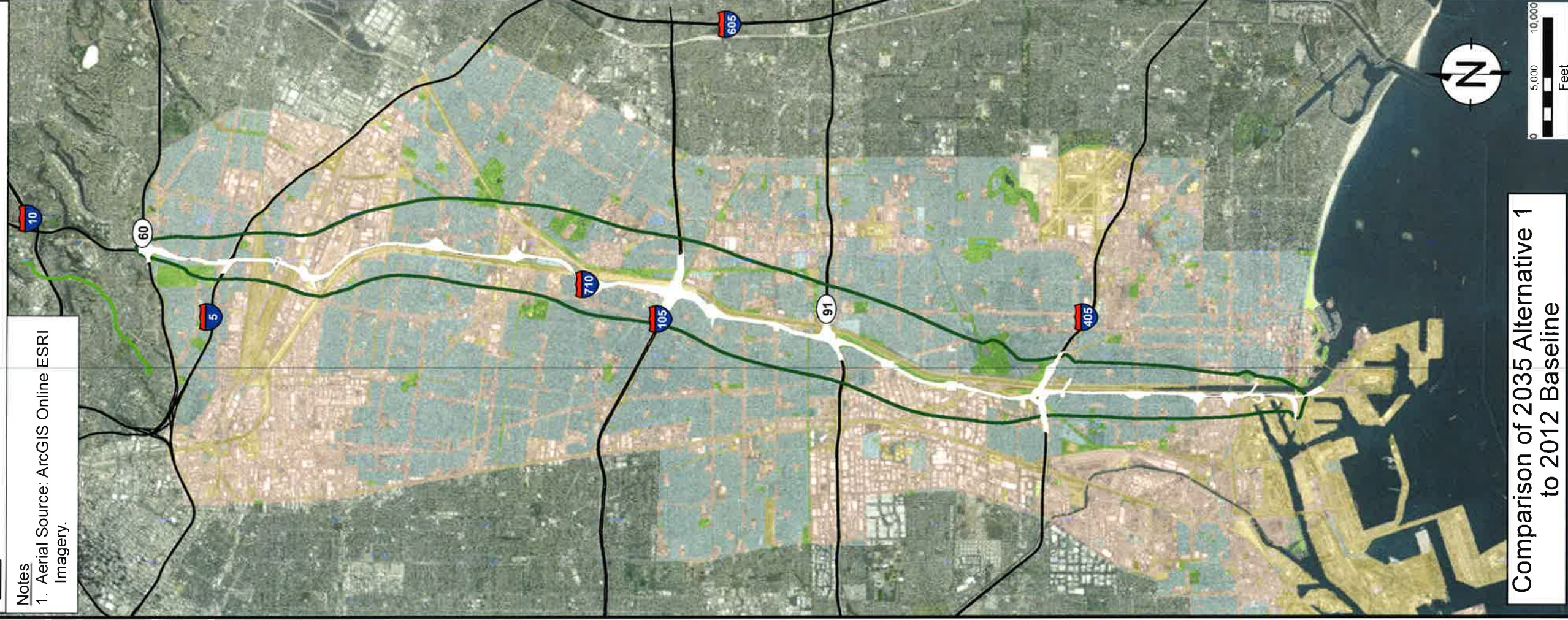
Alternative 1 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 1 to 2012 Baseline

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Incremental Cancer Risk in a Million

- 100
- 10.0
- 1.0
- 1.0

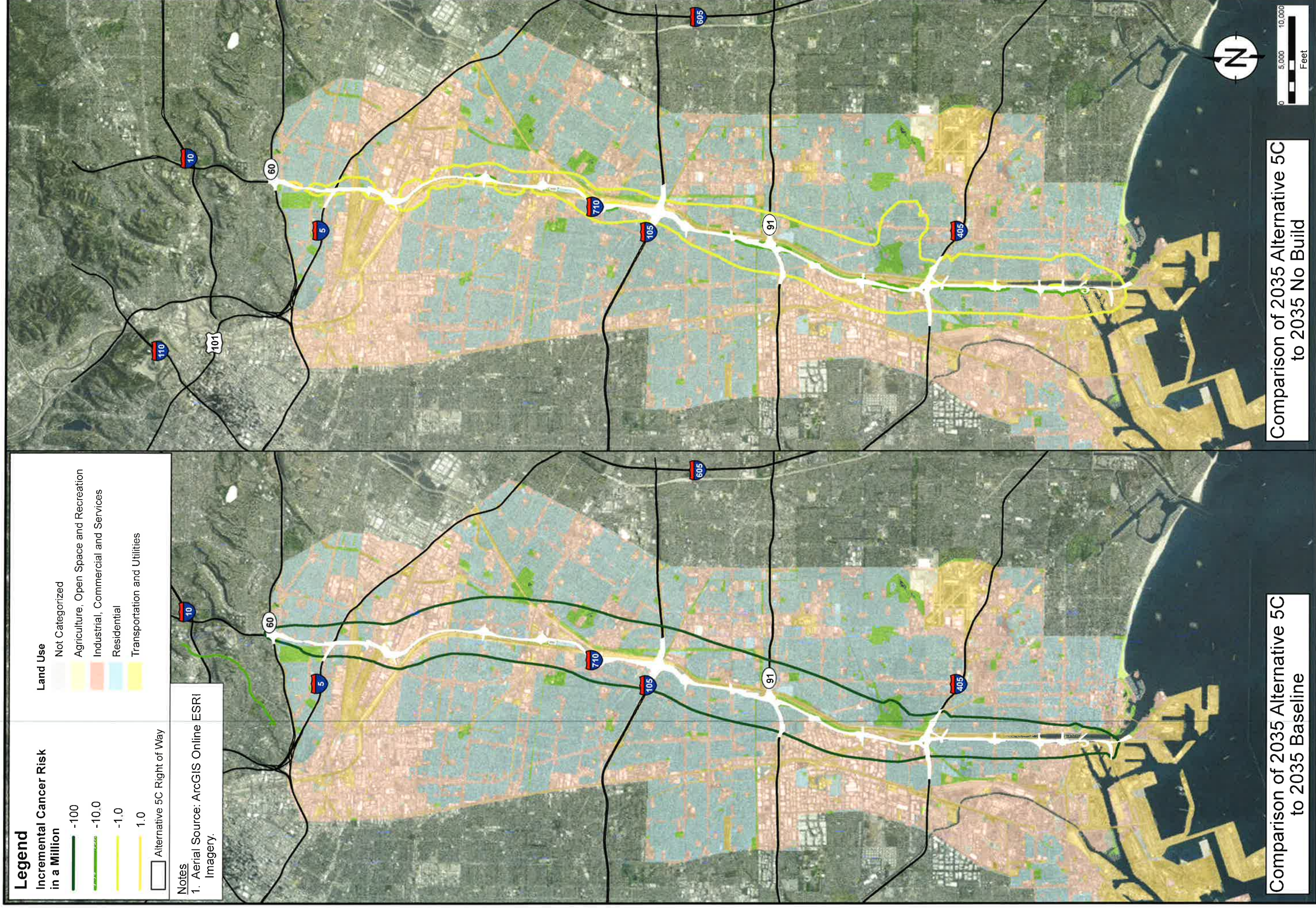
Alternative 5C Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 5C to 2035 Baseline

Comparison of 2035 Alternative 5C to 2035 No Build



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2035 Alternative 5C Incremental Cancer Risk in a Million (Residential Exposure Scenario)

Figure 4-6b

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Date: 7/29/2016

PROJECT: 05-185741

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Incremental Cancer Risk in a Million

- 100
- 10.0
- 1.0
- 1.0

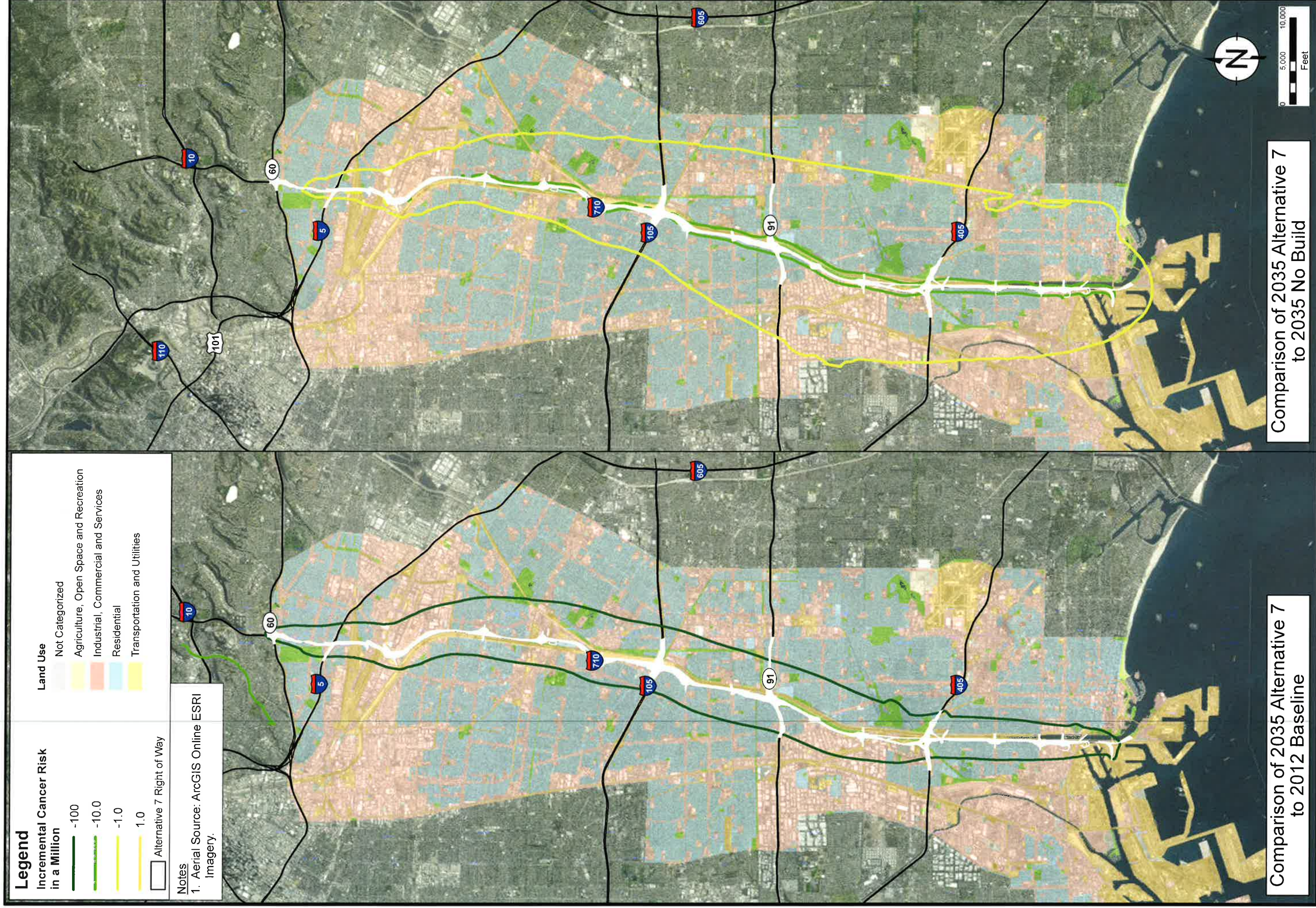
Alternative 7 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

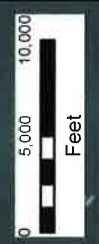
Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 7 to 2012 Baseline

Comparison of 2035 Alternative 7 to 2035 No Build



ENVIRON

DRAFTED BY: KMY

Date: 7/29/2016

2035 Alternative 7 Incremental Cancer Risk in a Million (Residential Exposure Scenario)

Figure 4-6C

PROJECT: 05-185741

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Legend

— Freeways of Interest

Area of Interest

Incremental Emissions (lbs/day)

- ≤ -55
- > -55 to ≤ -1
- > -1 to < 1
- ≥ 1 to < 55
- ≥ 55

Notes

1. PM_{2.5} = particulate matter less than 2.5 microns in diameter.
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -9.11 pounds per day
Maximum: 0.01 pounds per day



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— Freeways of Interest

Area of Interest

Incremental Emissions (lbs/day)

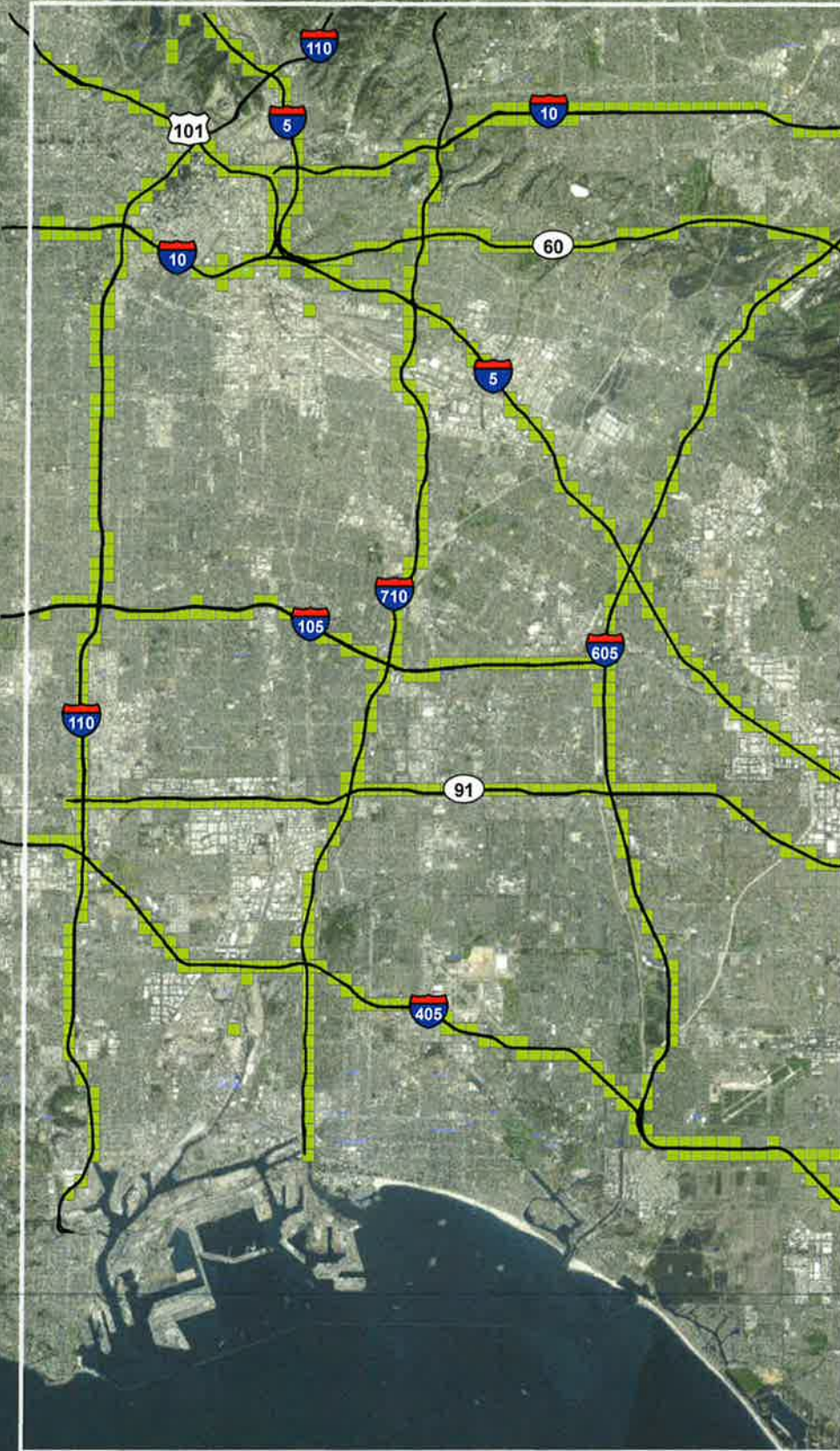
- ≤ -55
- >-55 to ≤-1
- >-1 to <1
- ≥1 to <55
- ≥ 55

Notes

1. PM_{2.5} = particulate matter less than 2.5 microns in diameter.
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -9.10 pounds per day
Maximum: 0.04 pounds per day

Minimum: -0.05 pounds per day
Maximum: 0.08 pounds per day



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Legend

— Freeways of Interest
 Area of Interest

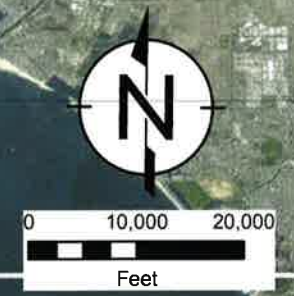
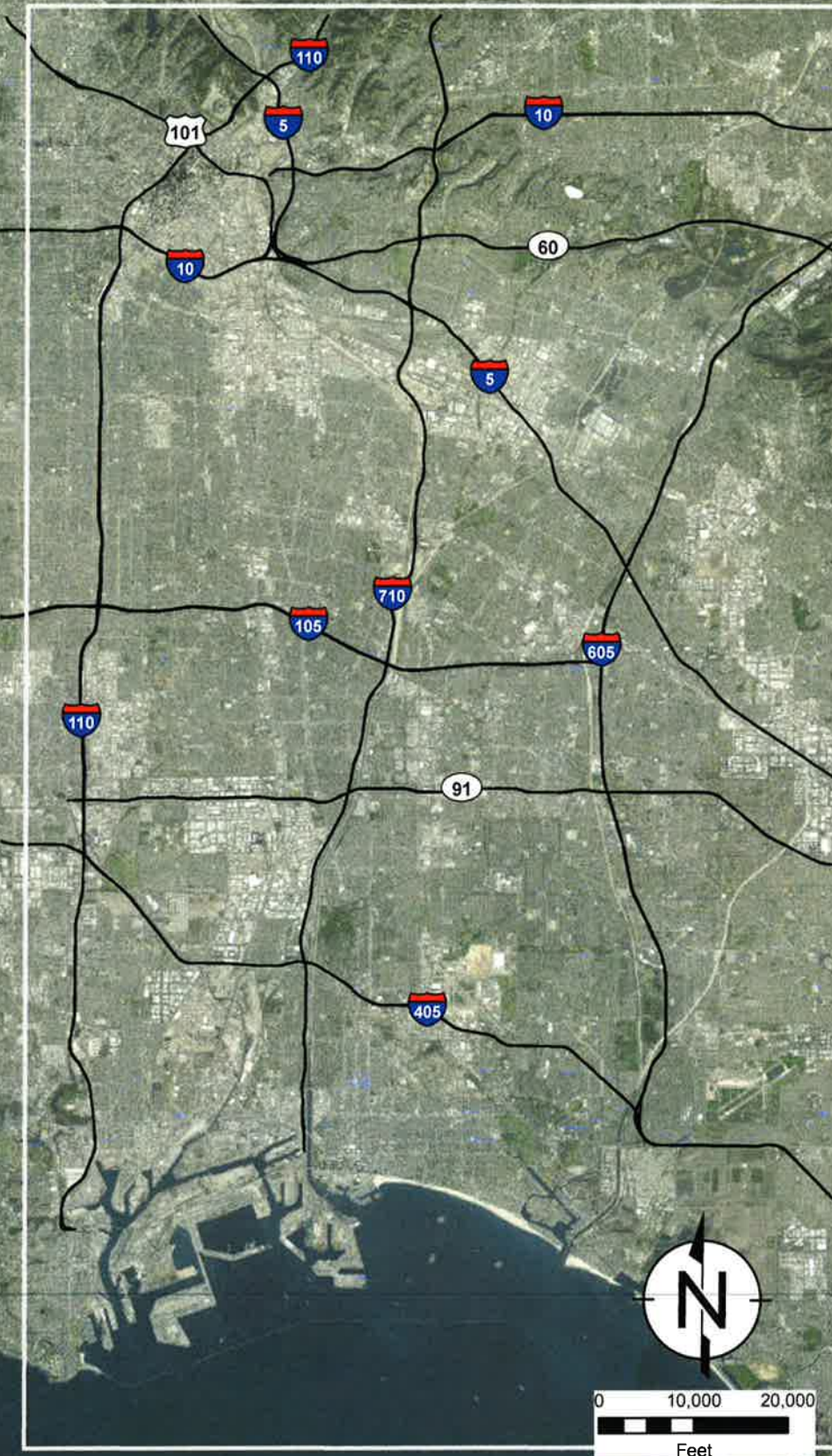
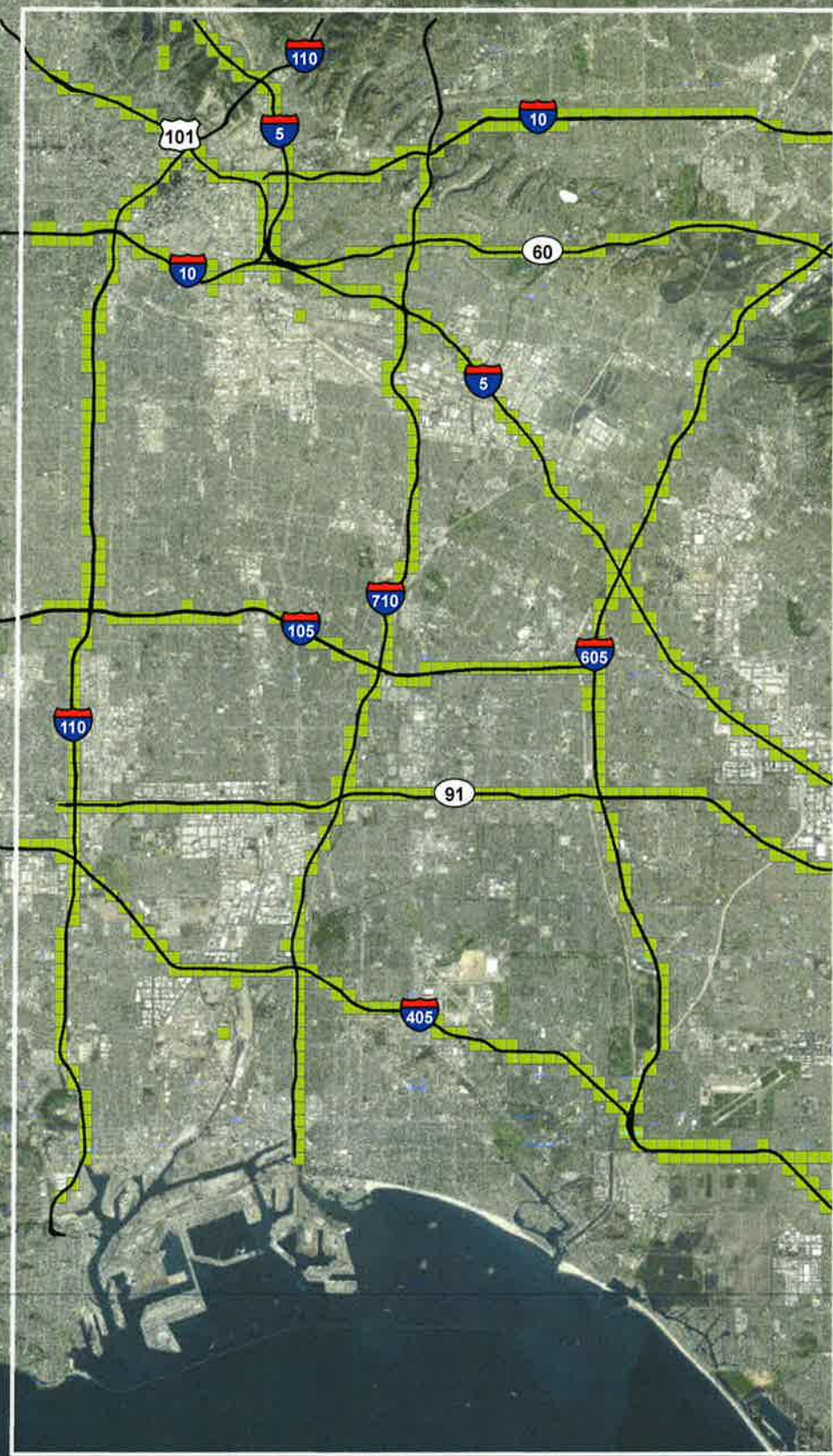
Incremental Emissions (lbs/day)

- ≤ -55
- >-55 to ≤ -1
- >-1 to <1
- ≥1 to <55
- ≥ 55

- Notes**
1. PM_{2.5} = particulate matter less than 2.5 microns in diameter.
 2. Grid cells are 0.25 miles by 0.25 miles.
 3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -9.10 pounds per day
 Maximum: 0.08 pounds per day

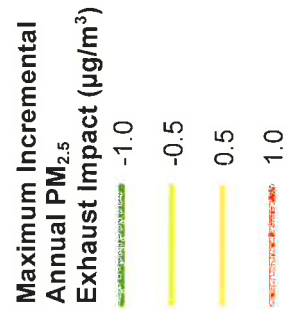
Minimum: -0.06 pounds per day
 Maximum: 0.11 pounds per day



Path: P:\V\710 SouthRDEIR-SDEIS\Report\Figures\Figure 4-7c_Not Rounded_SR_Tunnel_Comparison of 2035 Alternative 7 to 2012 Baseline and 2035 Alternative 1 PM2.5 Exhaust Emissions.mxd

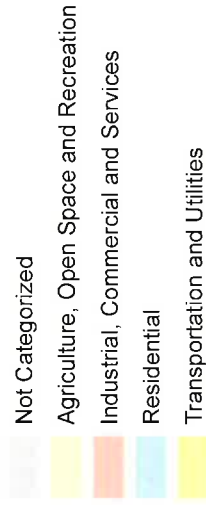
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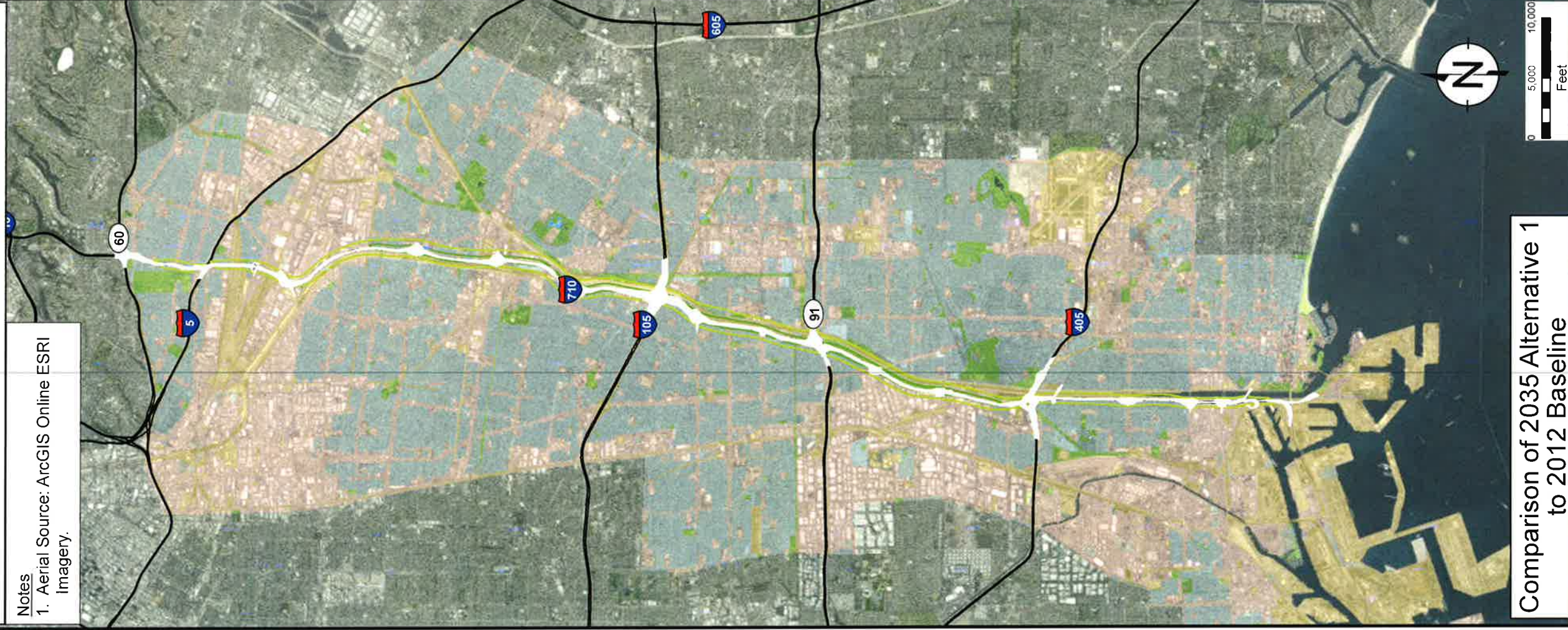
Alternative 1 Right of Way

Land Use



Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 1 to 2012 Baseline

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Legend

Maximum Incremental Annual $PM_{2.5}$ Exhaust Impact ($\mu g/m^3$)

- 1.0
- 0.5
- 0.5
- 1.0

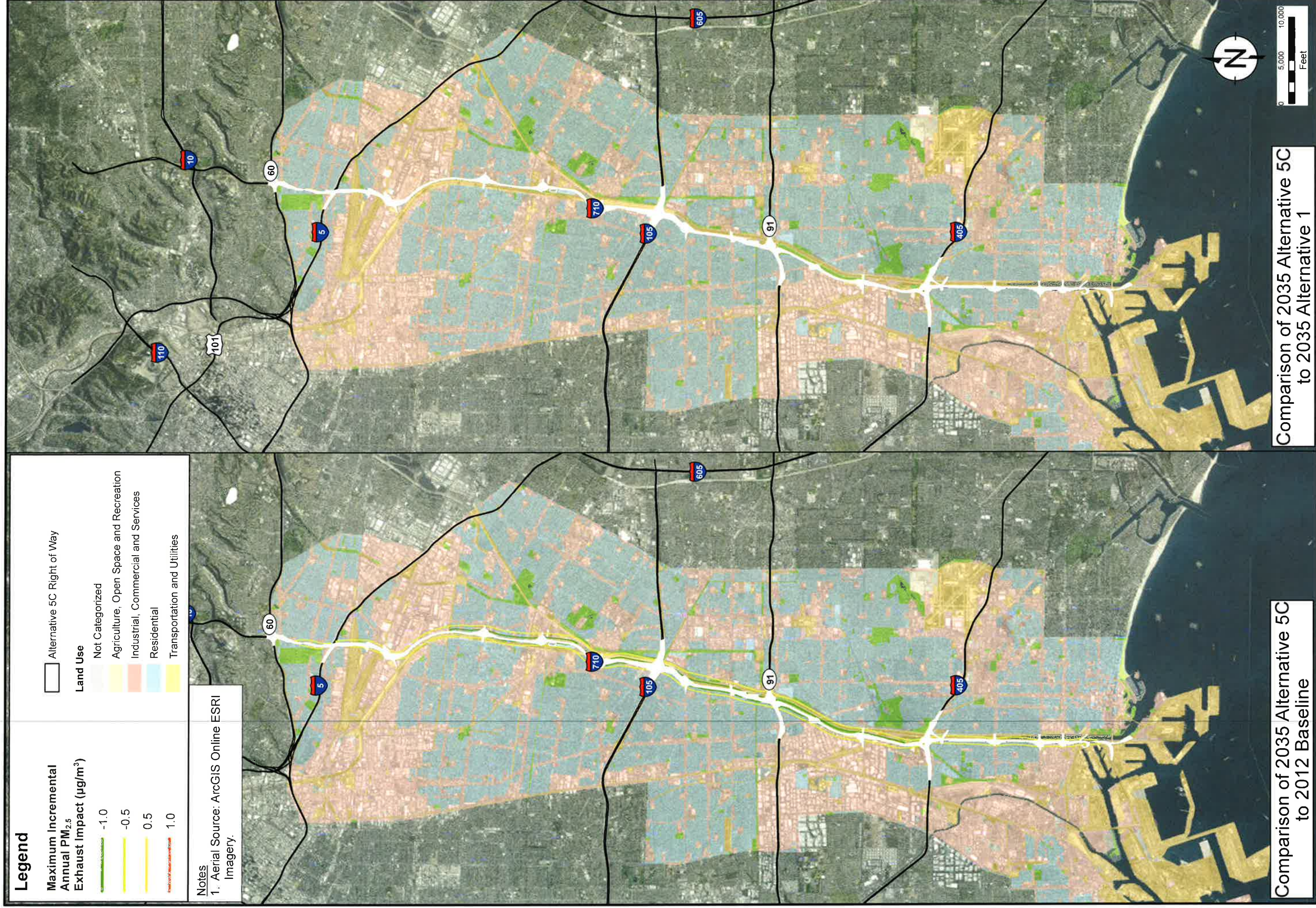
Alternative 5C Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 5C to 2012 Baseline

Comparison of 2035 Alternative 5C to 2035 Alternative 1



ENVIRON

2035 Alternative 5C Incremental Annual $PM_{2.5}$ Exhaust Impacts

Figure 4-8b

DRAFTED BY: KMY

Date: 7/29/2016

PROJECT: 05-185741

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Legend

Maximum Incremental Annual $PM_{2.5}$ Exhaust Impact ($\mu g/m^3$)

- 1.0
- 0.5
- 0.5
- 1.0

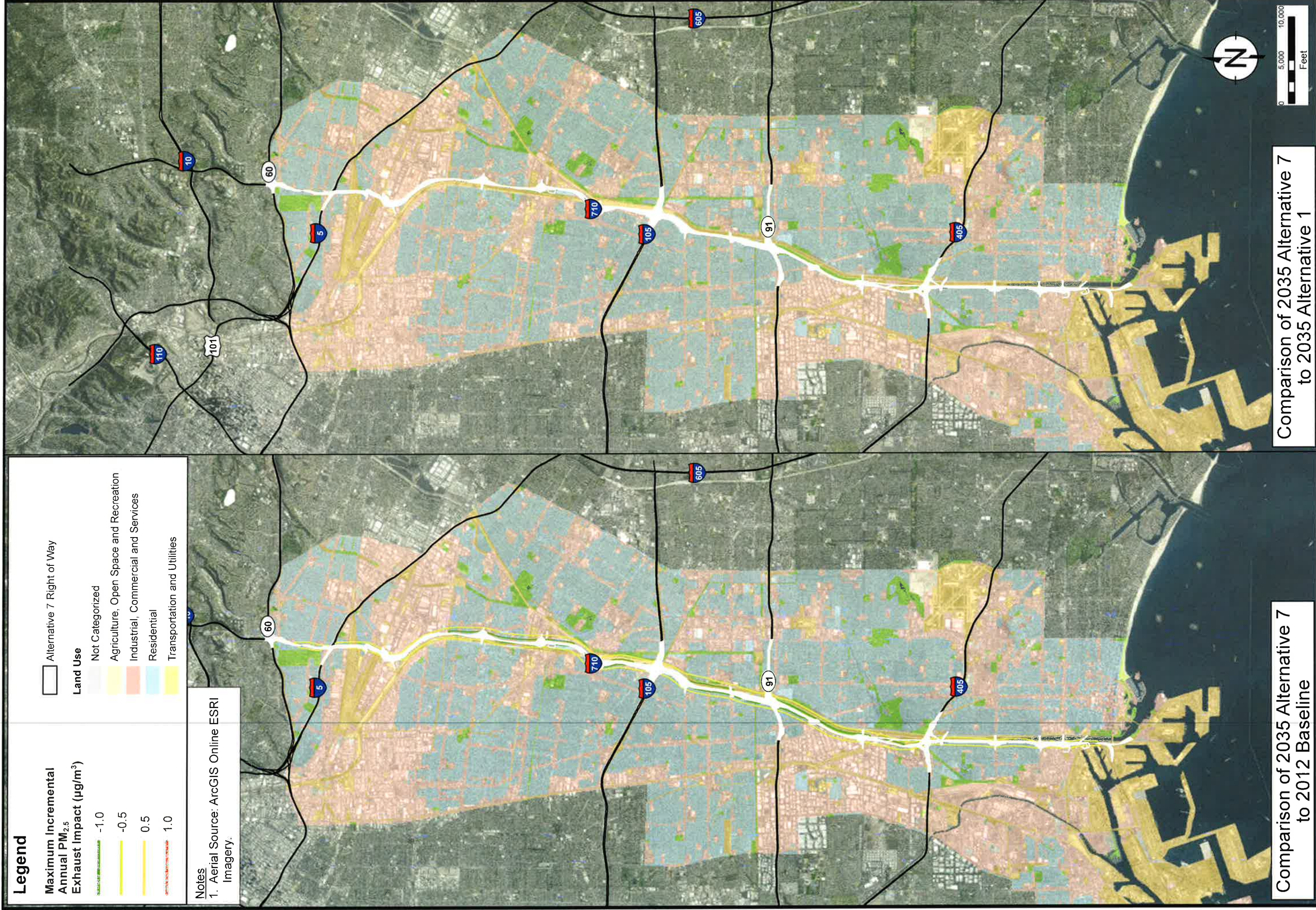
Alternative 7 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 7 to 2012 Baseline

Comparison of 2035 Alternative 7 to 2035 Alternative 1



ENVIRON

2035 Alternative 7 Incremental Annual $PM_{2.5}$ Exhaust Impacts

Figure 4-8C

DRAFTED BY: KMY

Date: 7/29/2016

PROJECT: 05-185741

Path: P:\M710 SouthRDEIR-SDEIS\Report\Figures\Figure 4-8c - 2035 Alternative 7 Incremental Annual $PM_{2.5}$ Exhaust Impacts.mxd

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Legend

Incremental 24-Hour PM_{2.5} Exhaust Impact (µg/m³)

- -2.5 to 2.5
- > 2.5

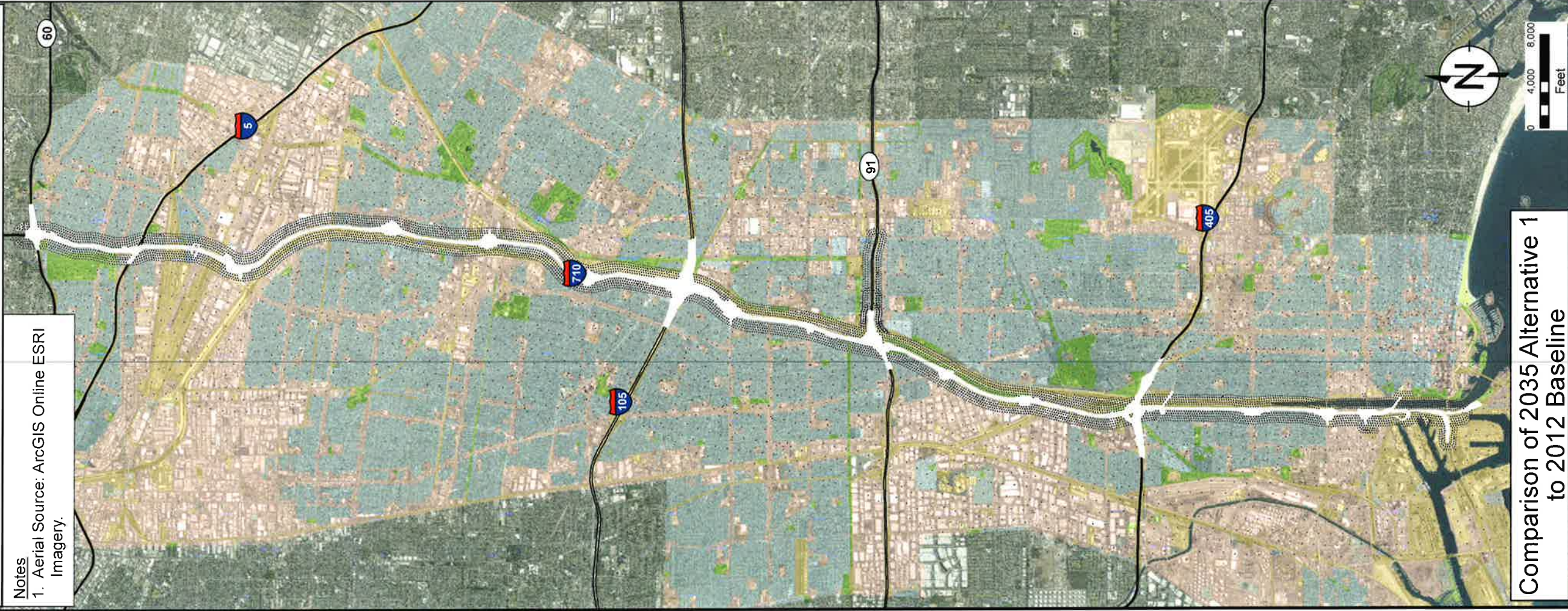
□ Alternative 1 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 1 to 2012 Baseline

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Legend

Incremental 24-Hour PM_{2.5} Exhaust Impact (µg/m³)

- 2.5 to 2.5
- > 2.5

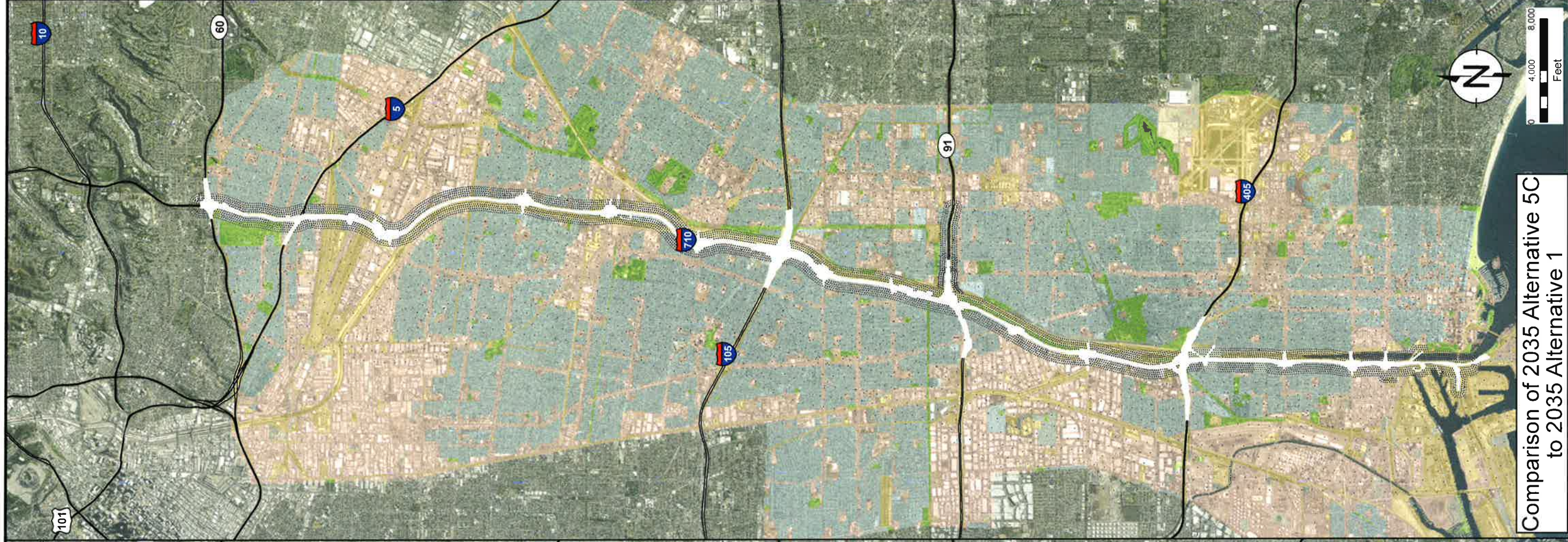
Alternative 5C Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 5C to 2012 Baseline

Comparison of 2035 Alternative 5C to 2035 Alternative 1



ENVIRON

2035 Alternative 5C Incremental 24-Hour PM_{2.5} Exhaust Impacts

Figure 4-9b

DRAFTED BY: KMY

Date: 7/29/2016

PROJECT: 05-185741

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Legend

Incremental 24-Hour PM_{2.5} Exhaust Impact (µg/m³)

- -2.5 to 2.5
- > 2.5

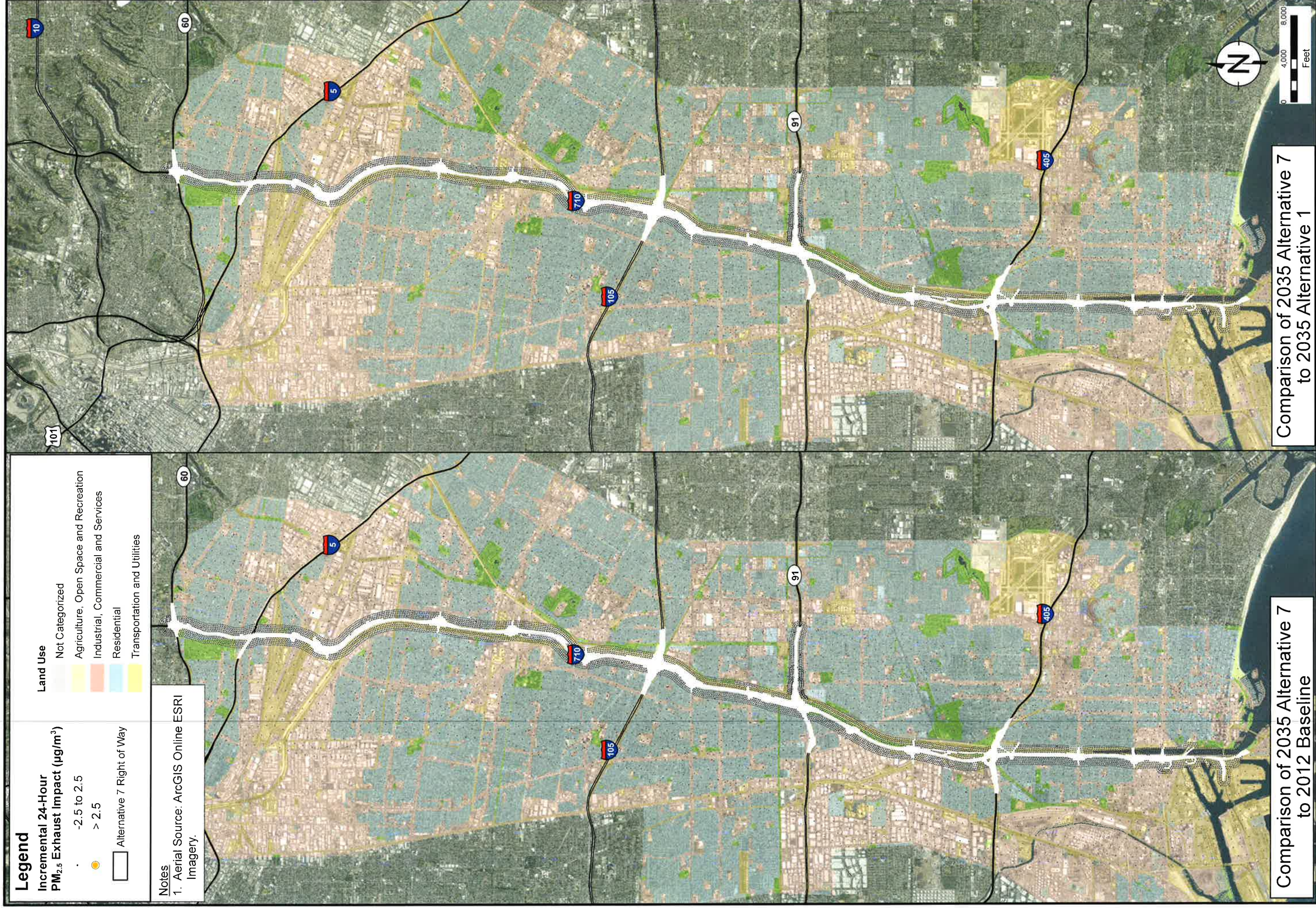
□ Alternative 7 Right of Way

Land Use

- Not Categorized
- Agriculture, Open Space and Recreation
- Industrial, Commercial and Services
- Residential
- Transportation and Utilities

Notes

1. Aerial Source: ArcGIS Online ESRI Imagery.



Comparison of 2035 Alternative 7 to 2012 Baseline

Comparison of 2035 Alternative 7 to 2035 Alternative 1



ENVIRON

DRAFTED BY: KMY

Date: 7/29/2016

2035 Alternative 7 Incremental 24-Hour PM_{2.5} Exhaust Impacts

Figure 4-9C

PROJECT: 05-165741

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Legend

— Freeways of Interest

□ Area of Interest

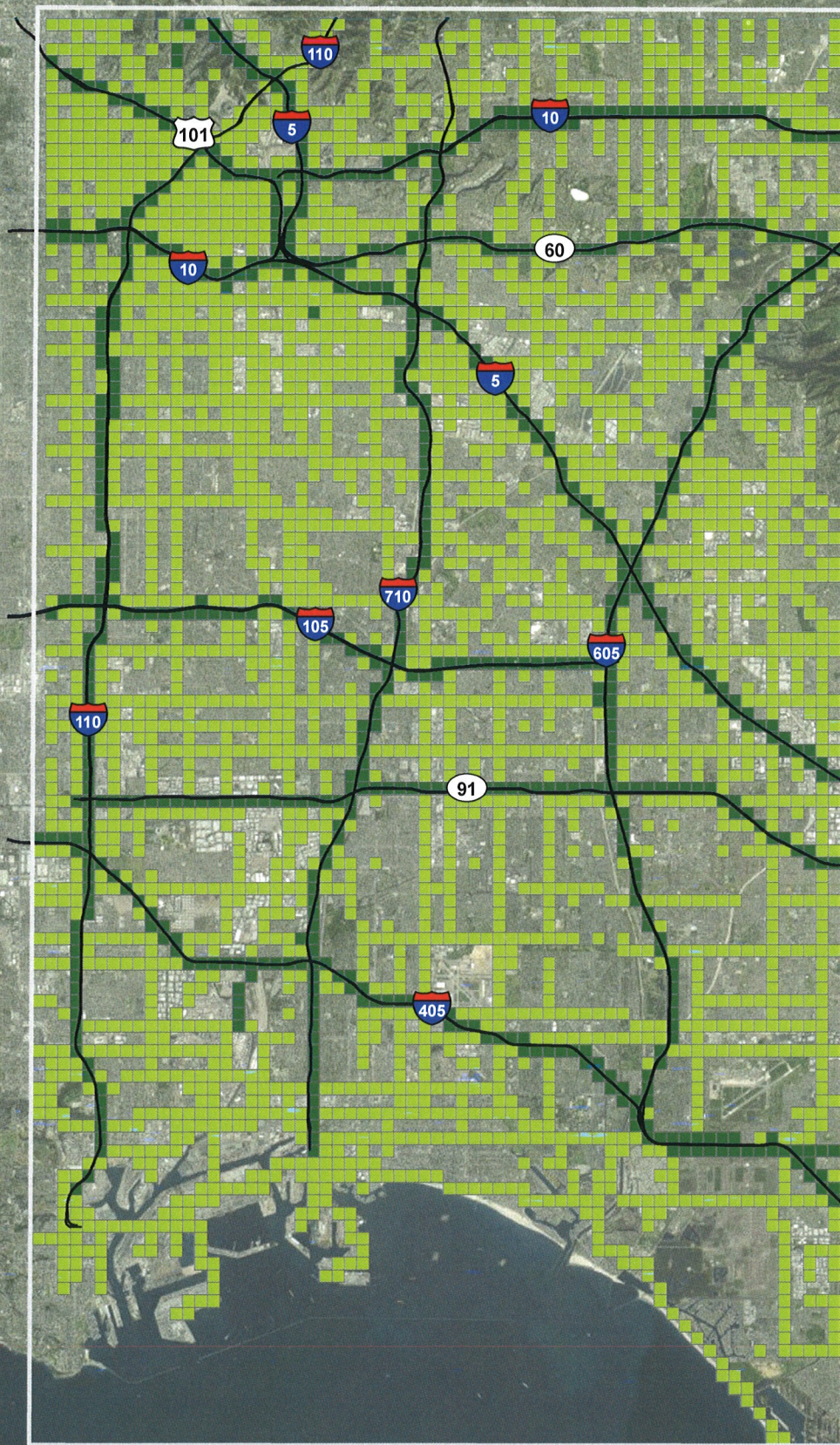
Incremental Emissions (lbs/day)

- ≤ -1
- >-1 to ≤-0.04
- >-0.04 to <0.04
- ≥0.04 to <1
- ≥ 1

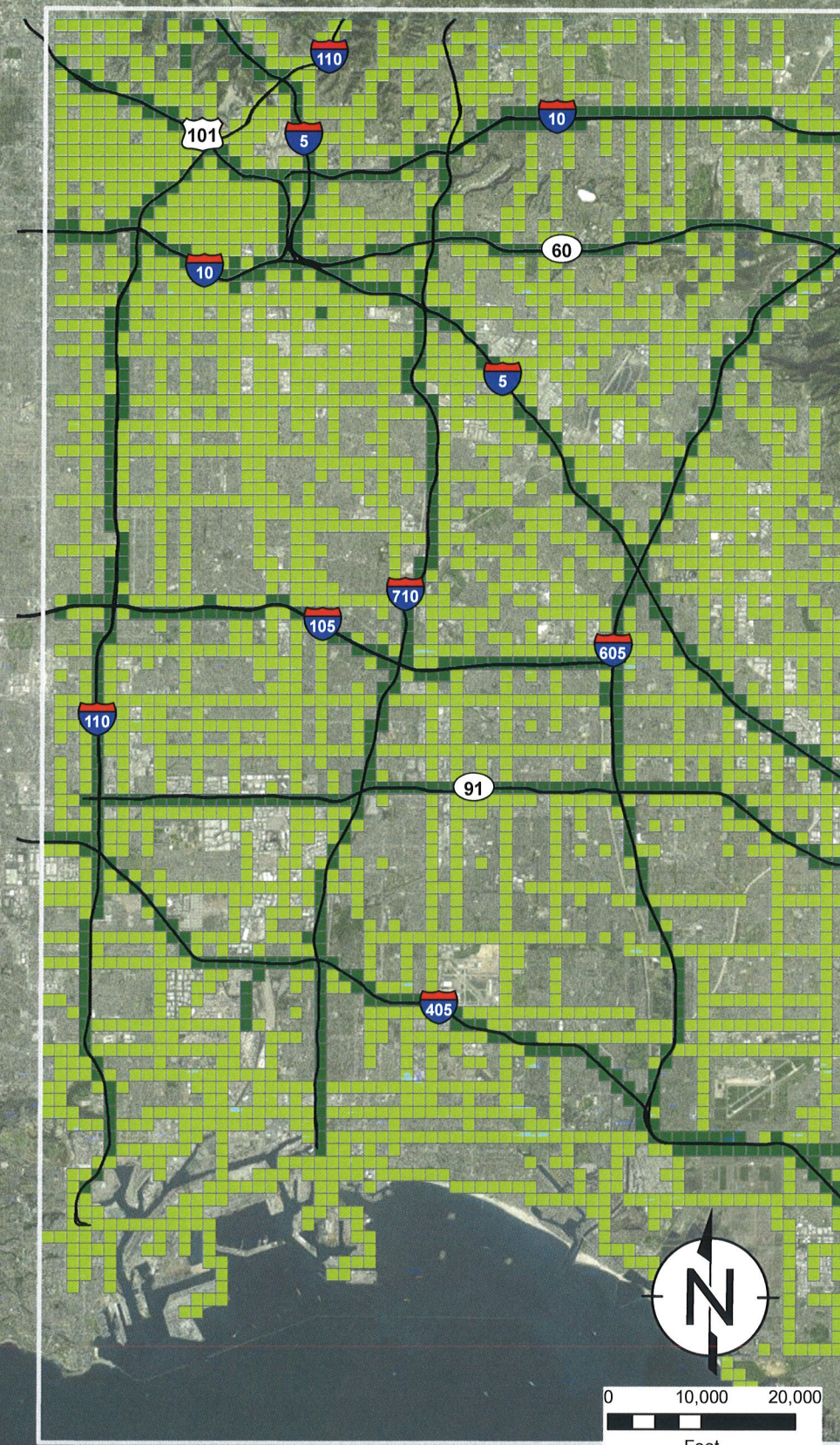
Notes

1. DPM = Diesel Particulate Matter
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -9.12 pounds per day
Maximum: 0.01 pounds per day



Minimum: -9.12 pounds per day
Maximum: 0.01 pounds per day



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Legend

— Freeways of Interest

□ Area of Interest

Incremental Emissions (lbs/day)

- ≤ -1
- >-1 to ≤-0.04
- >-0.04 to <0.04
- ≥0.04 to <1
- ≥ 1

Notes

1. DPM = Diesel Particulate Matter
2. Grid cells are 0.25 miles by 0.25 miles.
3. Aerial Source: ArcGIS Online ESRI Imagery.

Minimum: -0.13 pounds per day
Maximum: 0.01 pounds per day



Minimum: -0.13 pounds per day
Maximum: 0.01 pounds per day



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