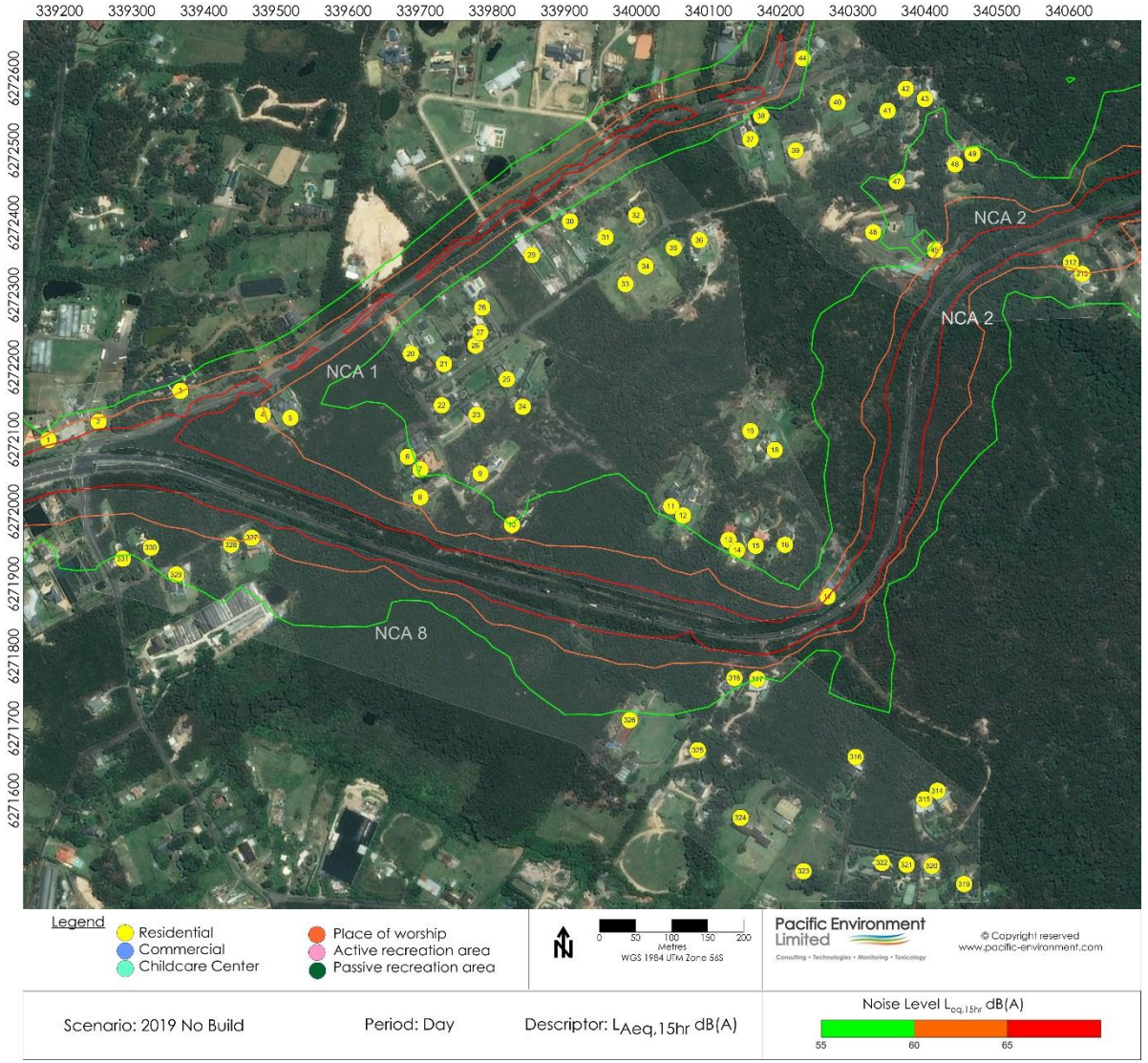
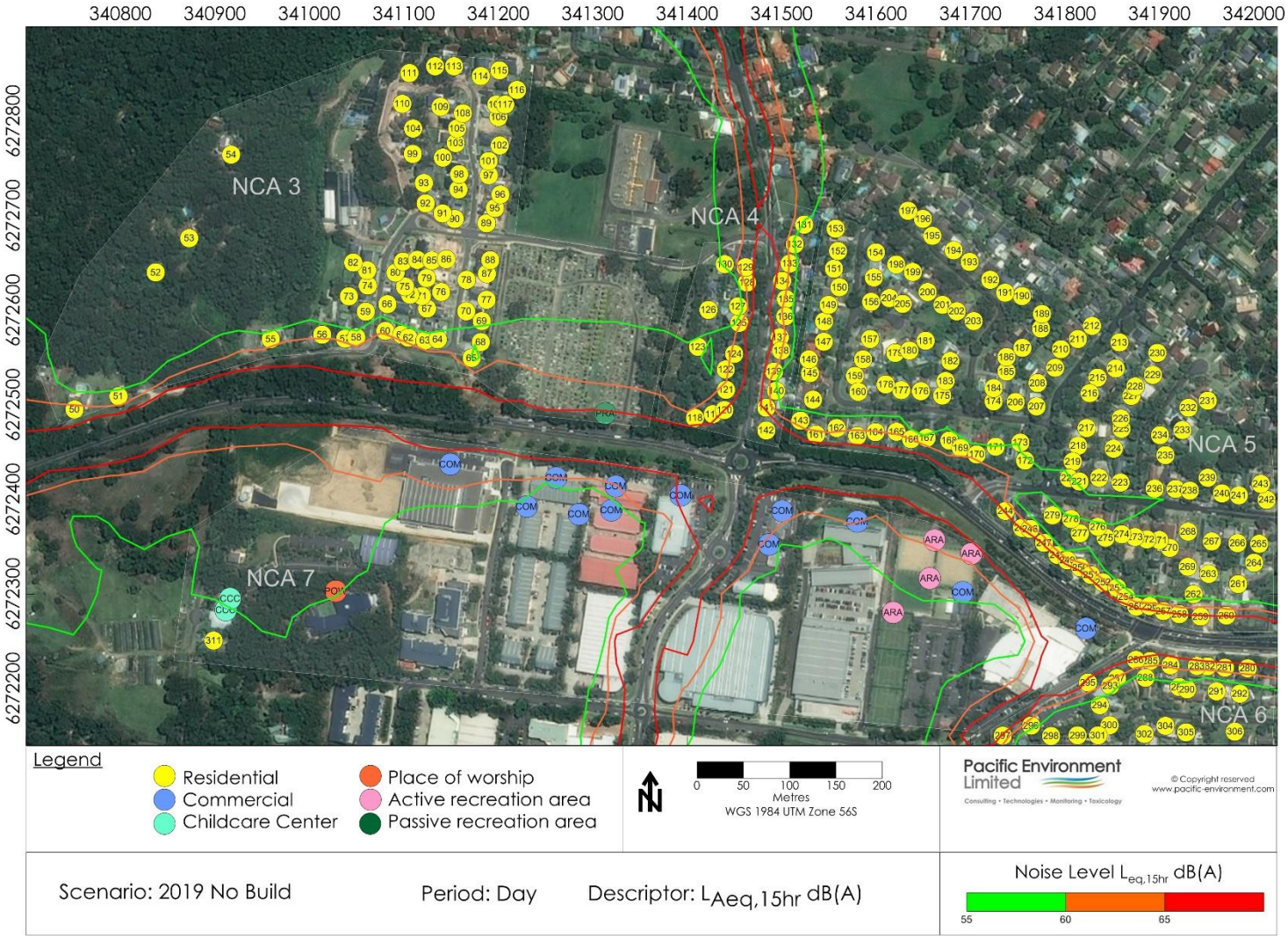
F.1 OPERATIONAL NOISE CONTOURS

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NCA 7
Legend
Residential
Commercial
Childcare Center
Place of worship
Active recreation area
Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
Pacific Environment Limited
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www.pacific-environment.com
Scenario: 2019 No Build
Period: Day
Descriptor: $L_{Aeq,15hr}$ dB(A)
Noise Level $L_{eq,15hr}$ dB(A)
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60
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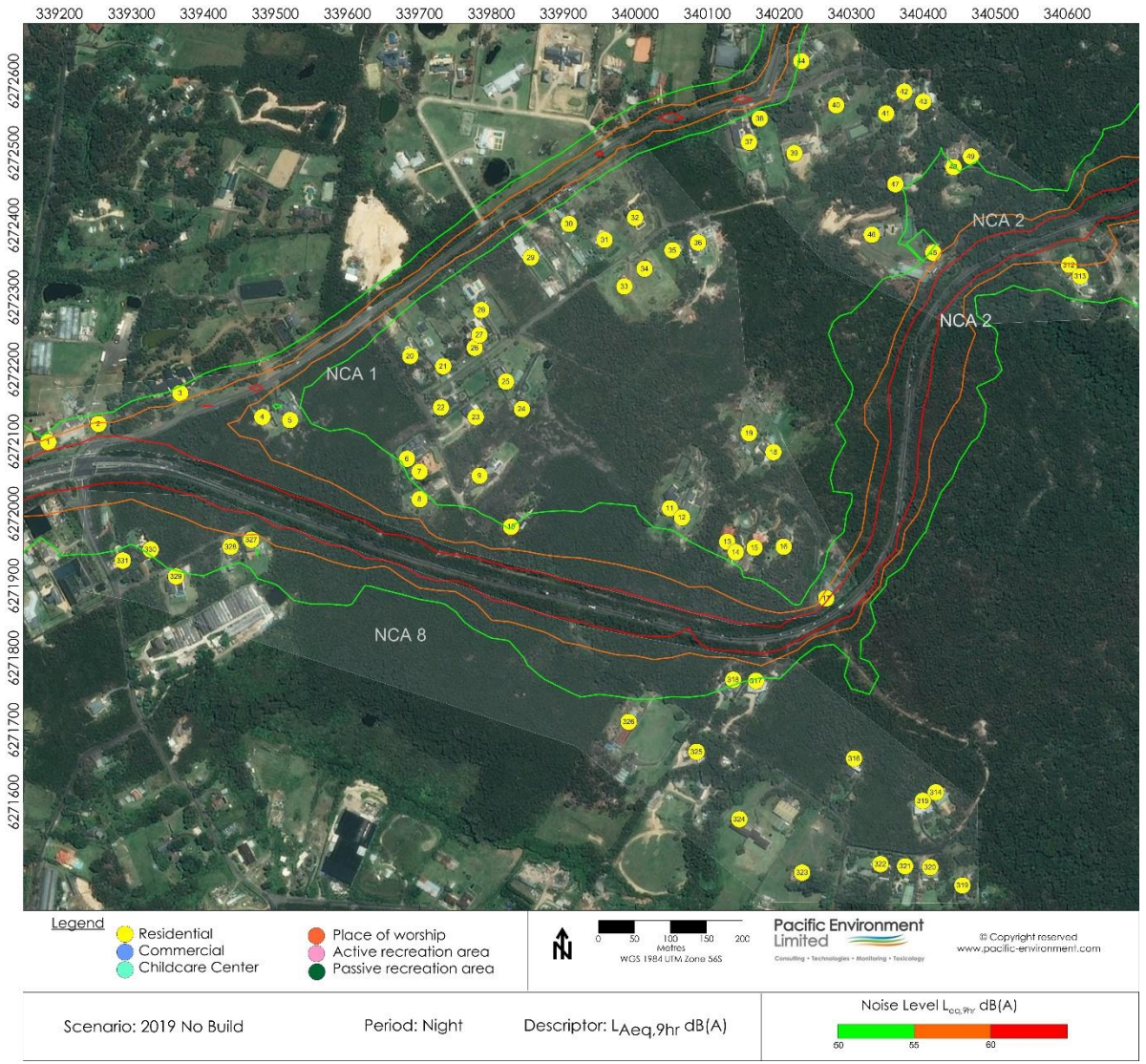
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Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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Scenario: 2019 No Build
Period: Night
Descriptor: LAeq,9hr dB(A)
Noise Level Leq,9hr dB(A)
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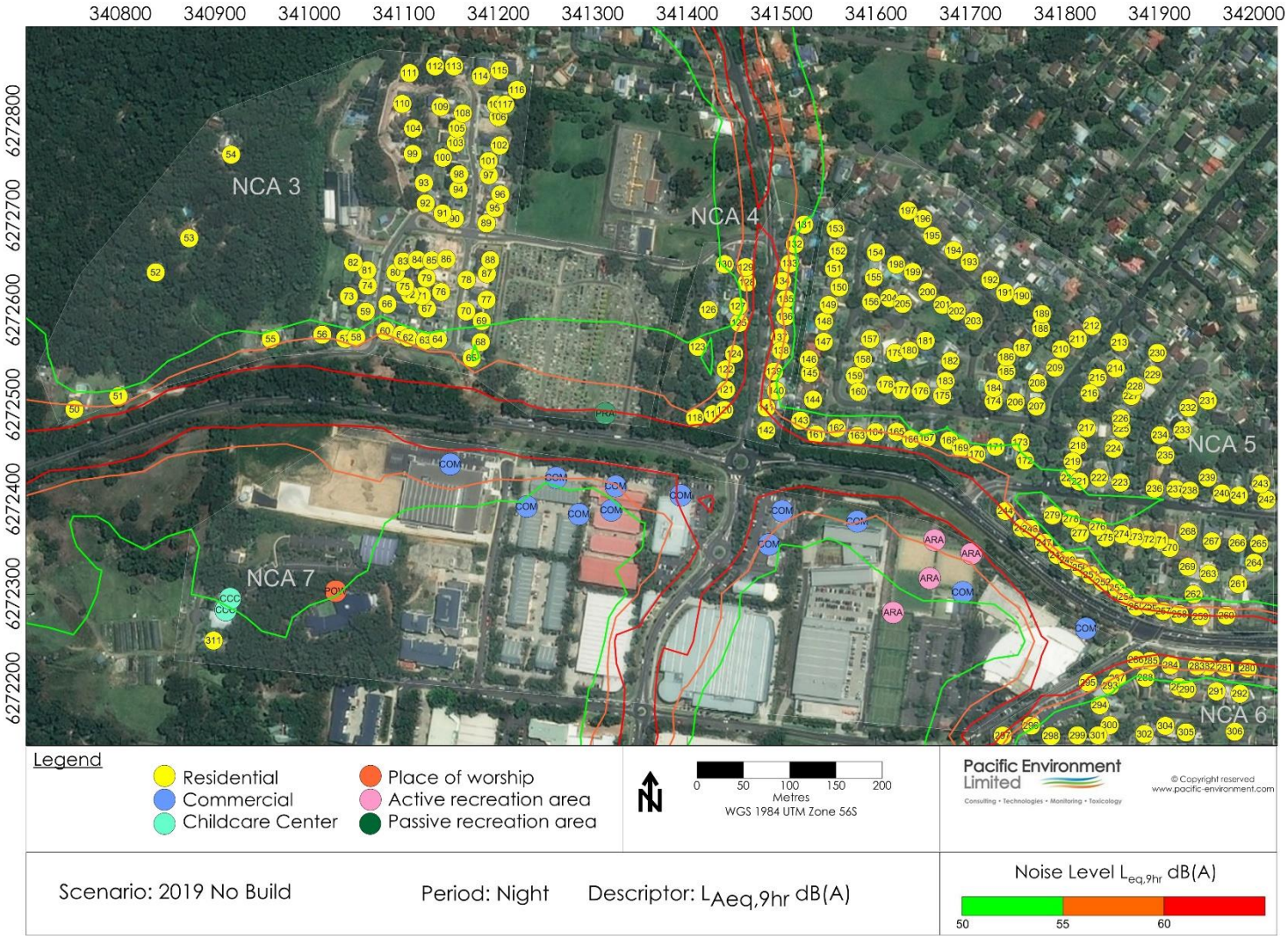
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Metres
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Scenario: 2019 No Build
Period: Night
Descriptor: $L_{Aeq,9hr}$ dB(A)
Noise Level $L_{eq,9hr}$ dB(A)
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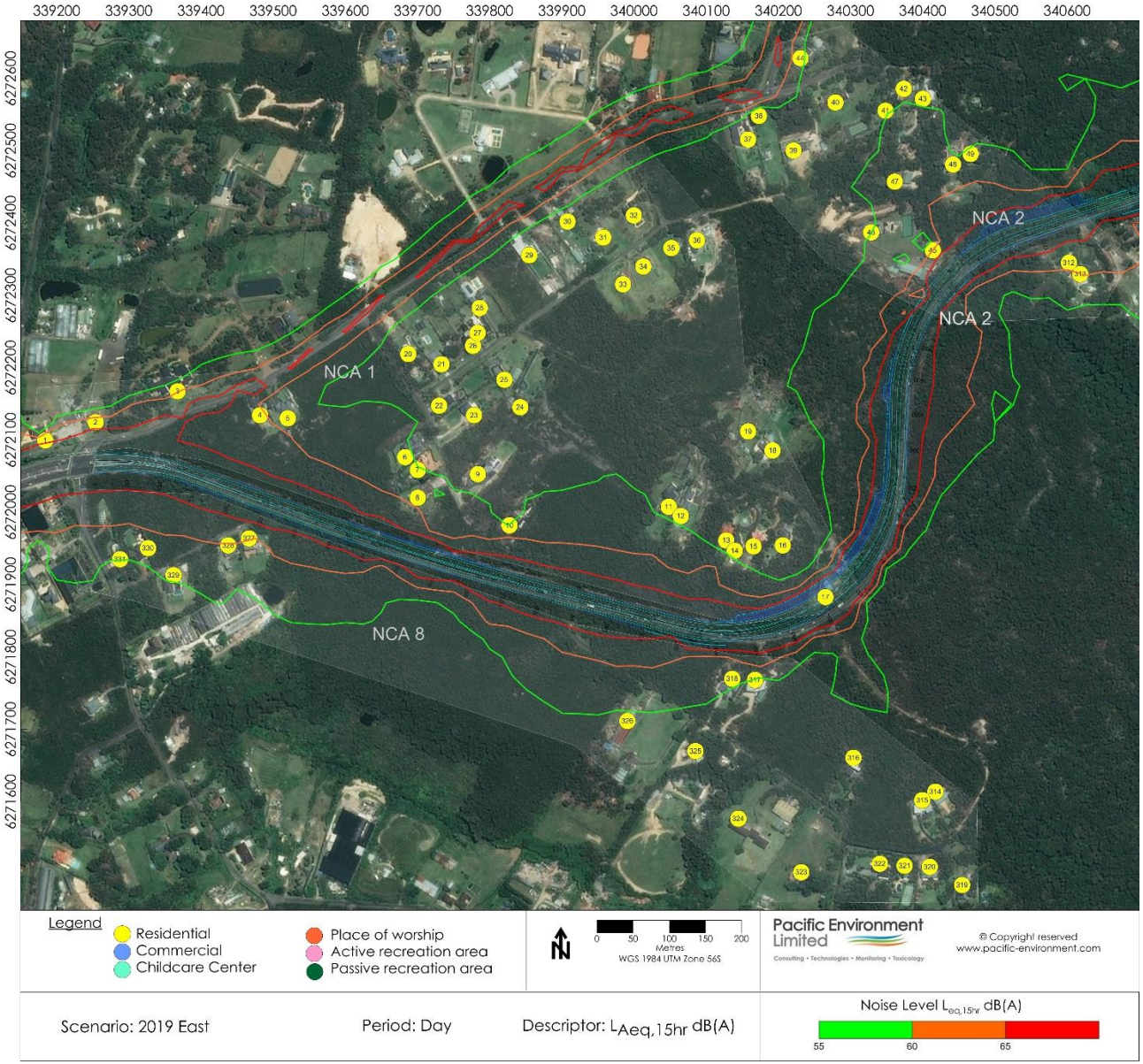
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www.pacific-environment.com
Scenario: 2019 East
Period: Day
Descriptor: LAeq,15hr dB(A)
Noise Level Leq,15hr dB(A)
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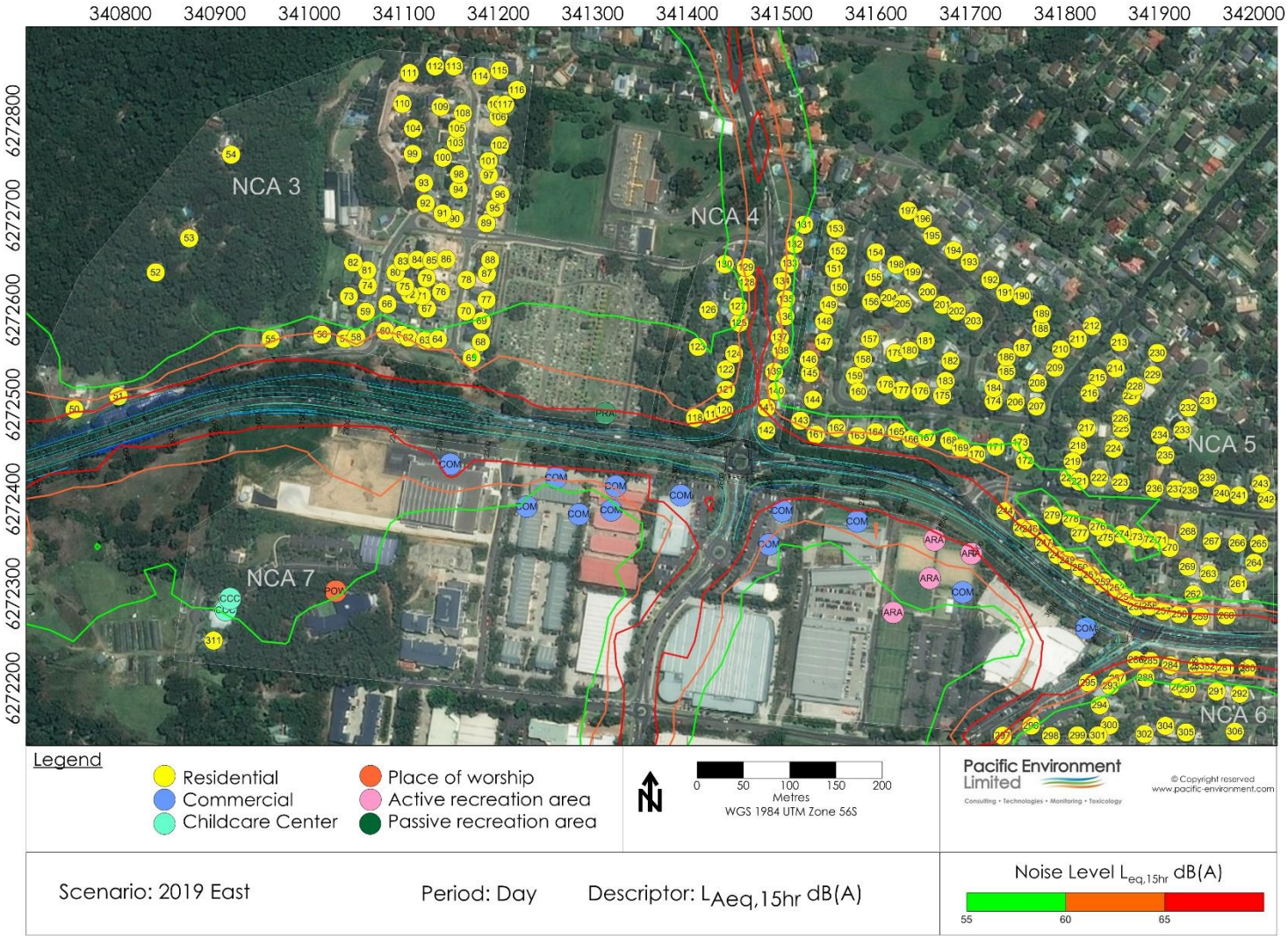
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Scenario: 2019 East
Period: Day
Descriptor: $L_{Aeq,15hr}$ dB(A)
Noise Level $L_{eq,15hr}$ dB(A)
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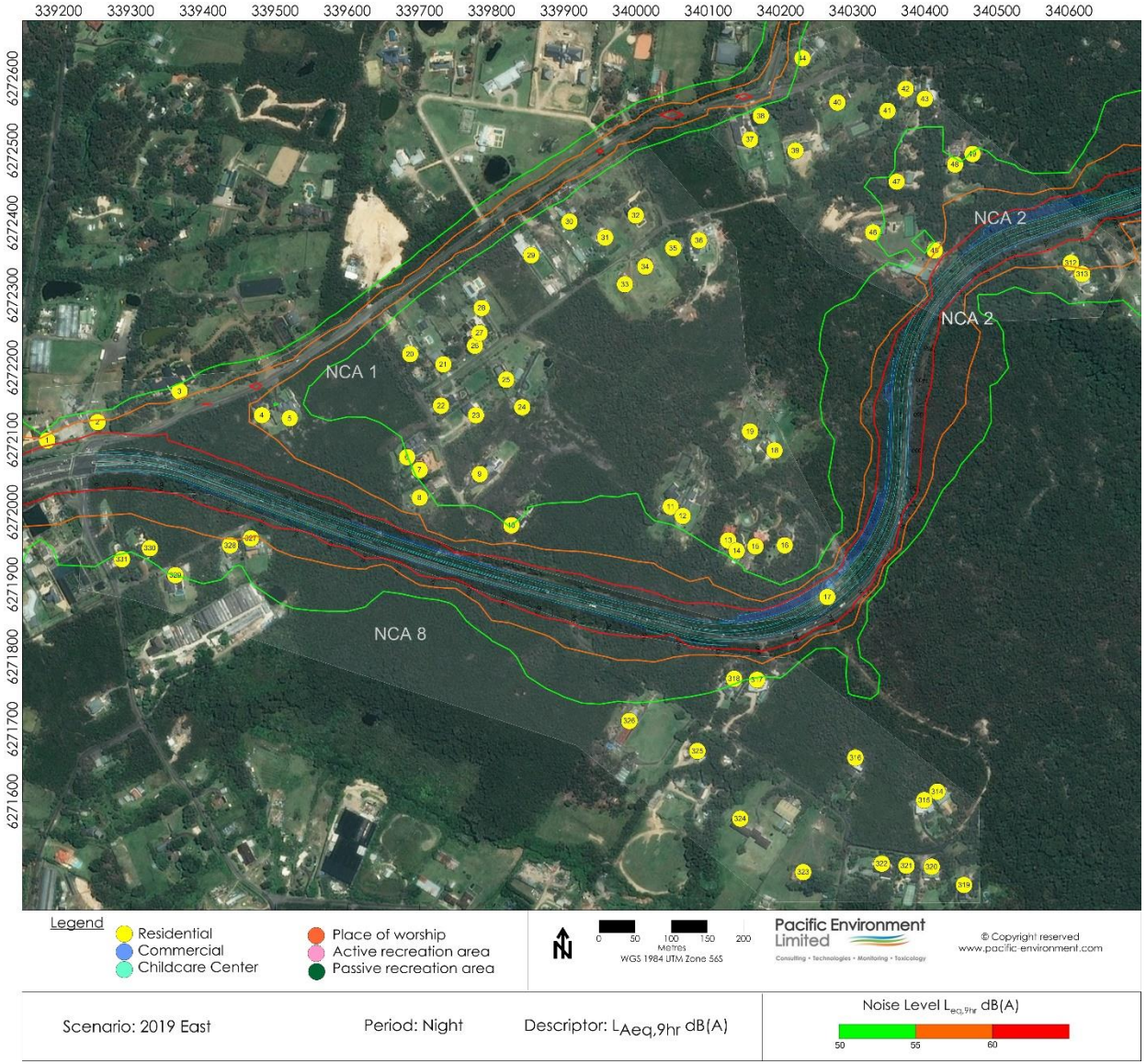
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Scenario: 2019 East
Period: Night
Descriptor: LAeq,9hr dB(A)
Noise Level Leq,9hr dB(A)
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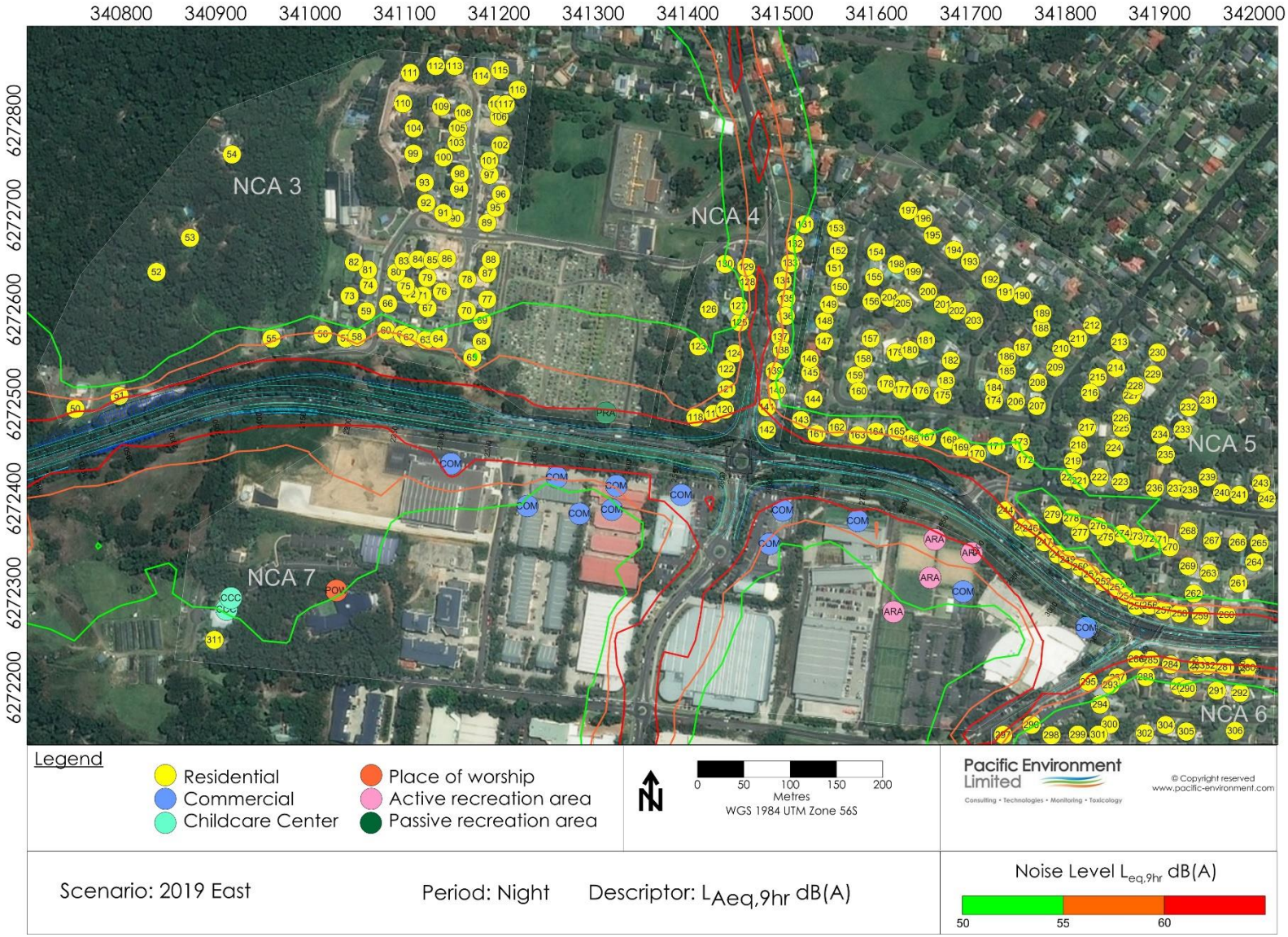
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Scenario: 2019 East
Period: Night
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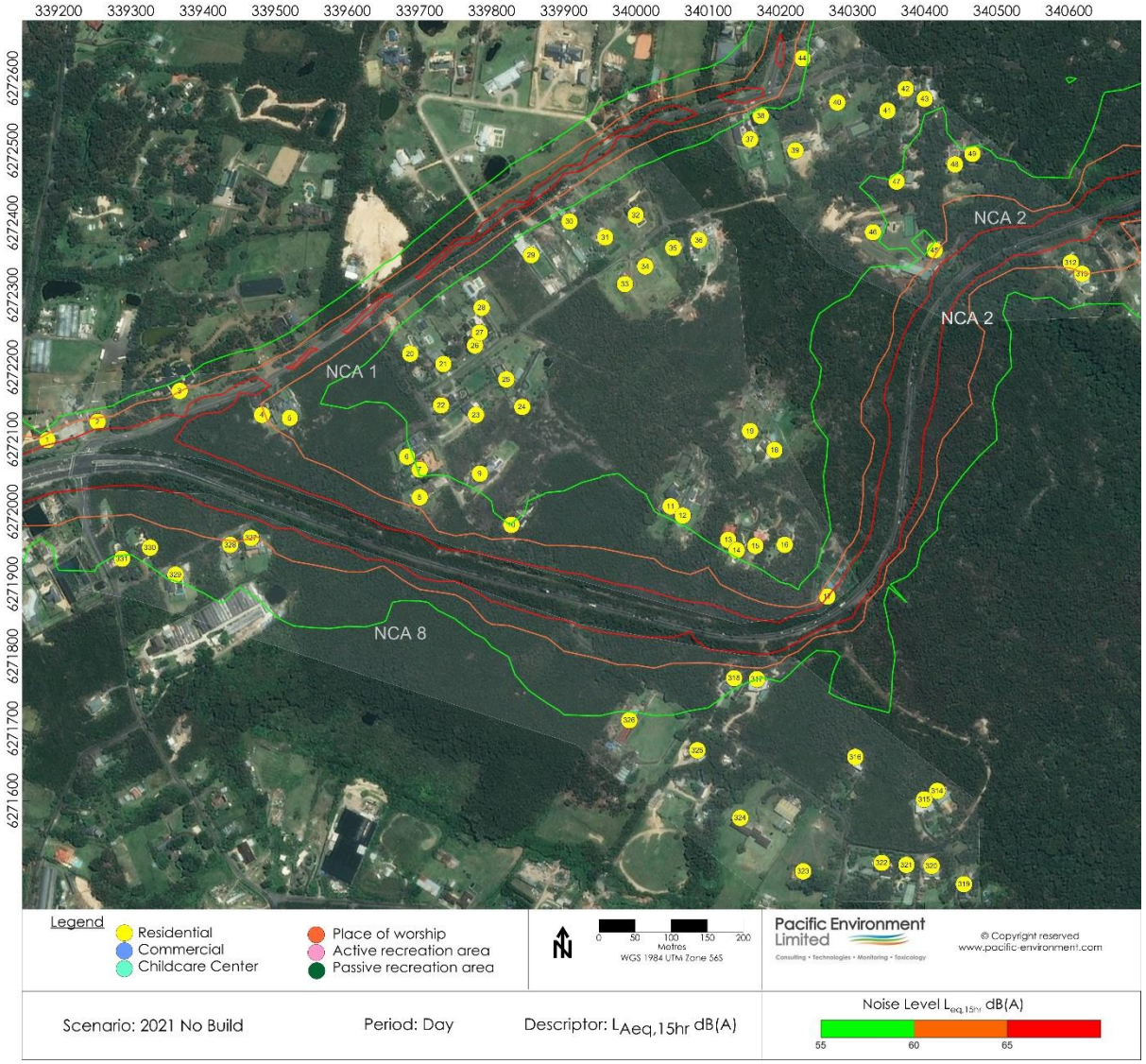
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Scenario: 2021 No Build
Period: Day
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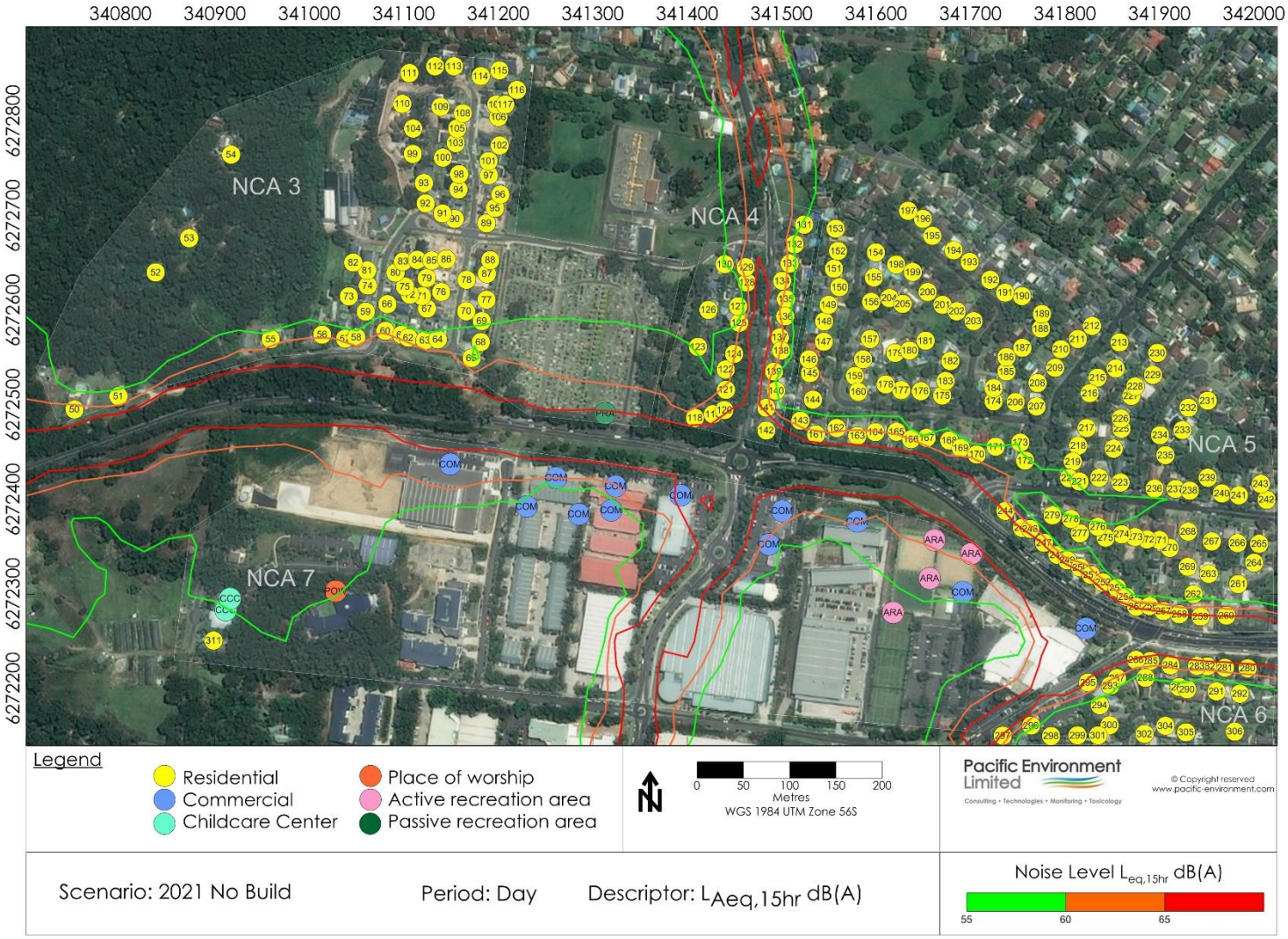
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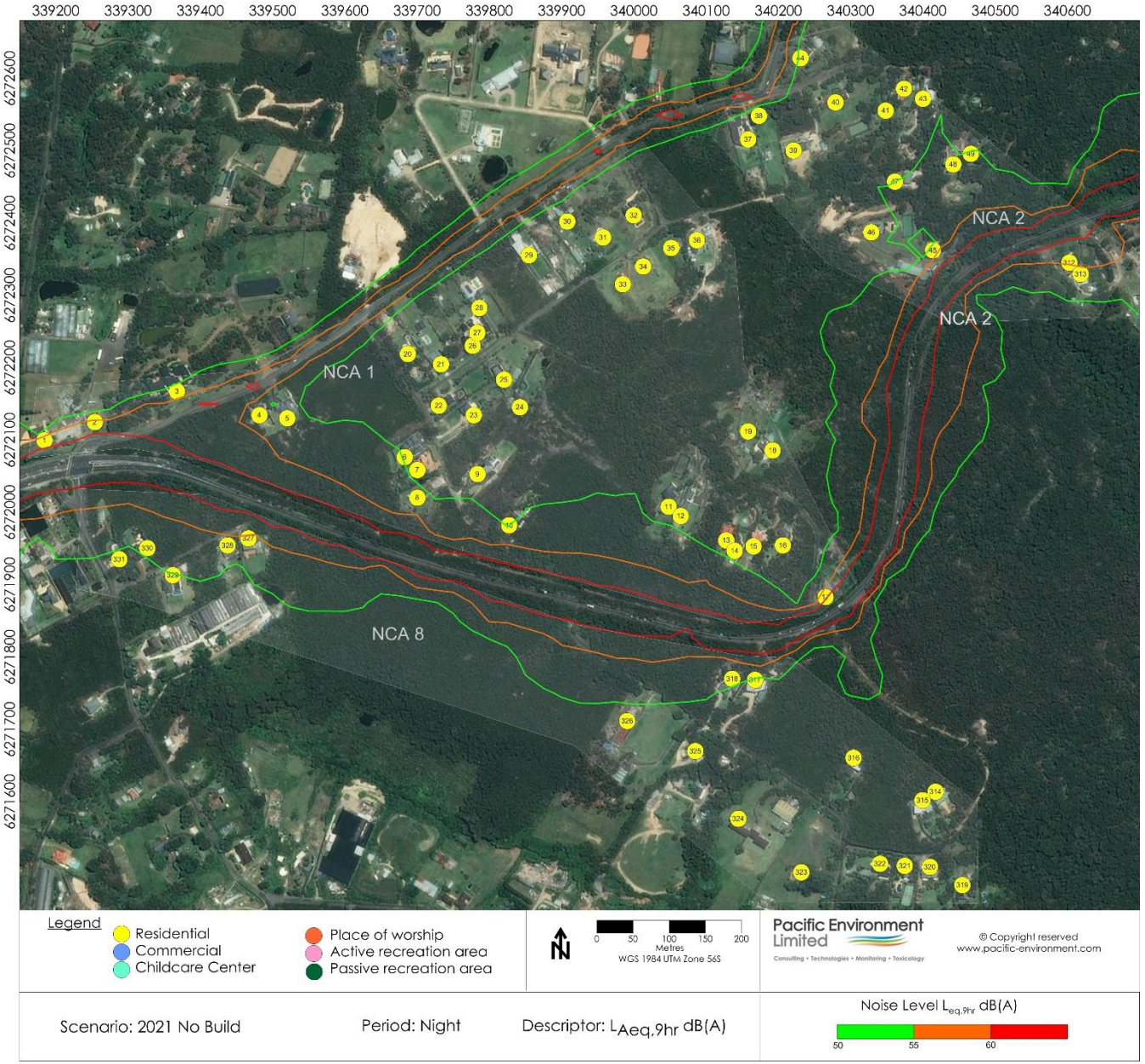
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Scenario: 2021 No Build
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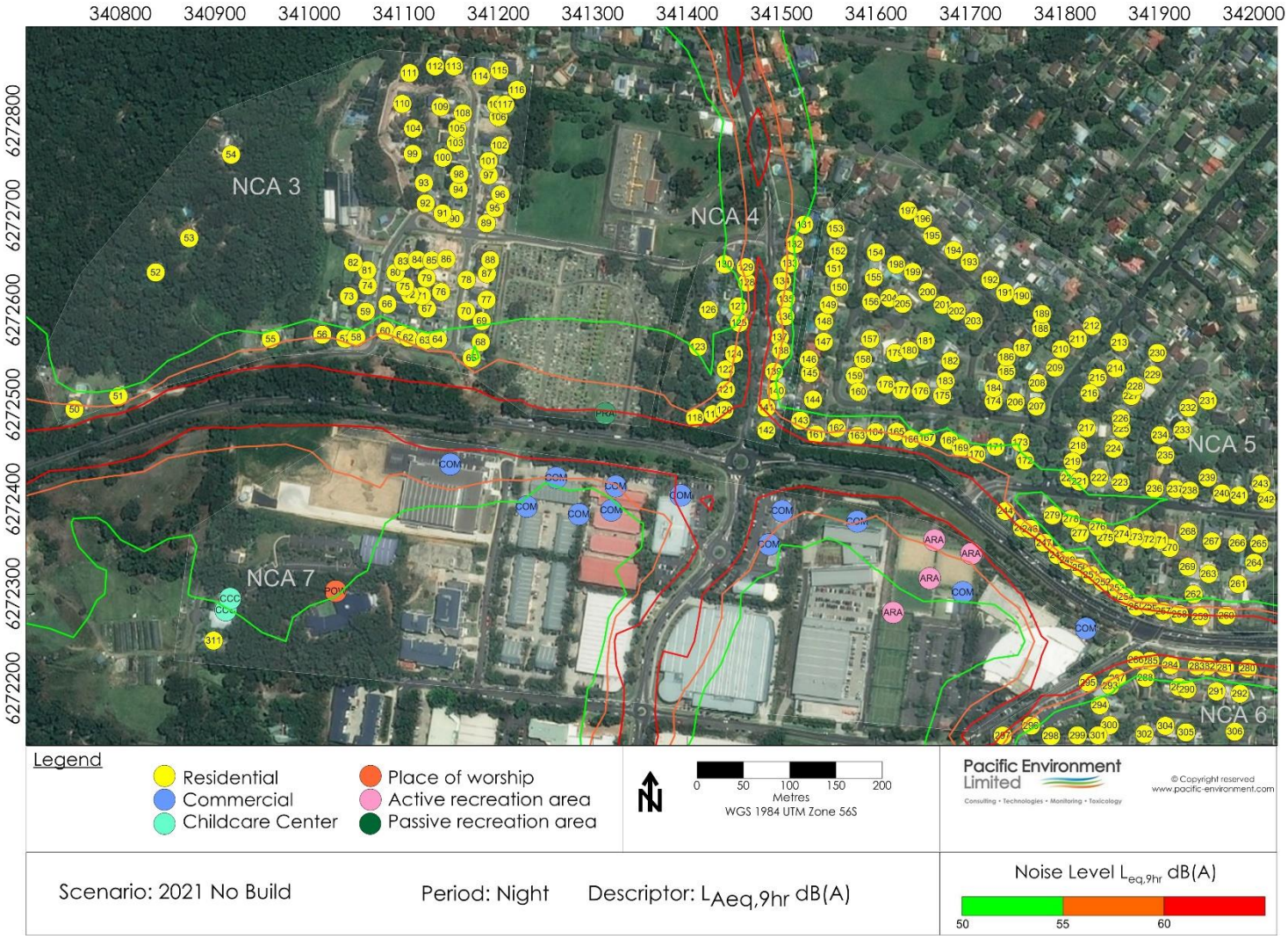
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Scenario: 2021 No Build
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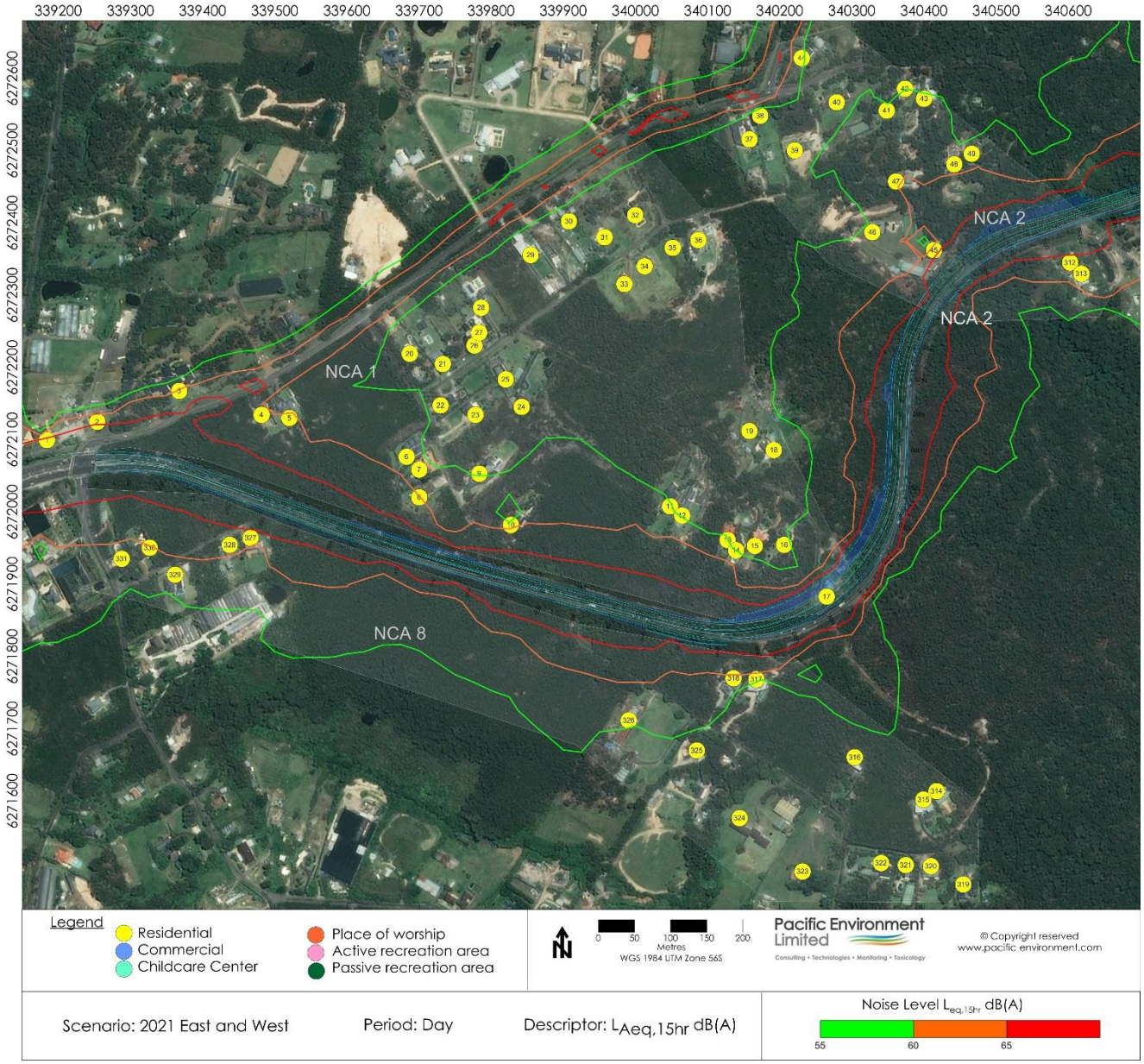
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Childcare Center
Place of worship
Active recreation area
Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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Scenario: 2021 East and West
Period: Day
Descriptor: LAeq,15hr dB(A)
Noise Level Leq,15hr dB(A)
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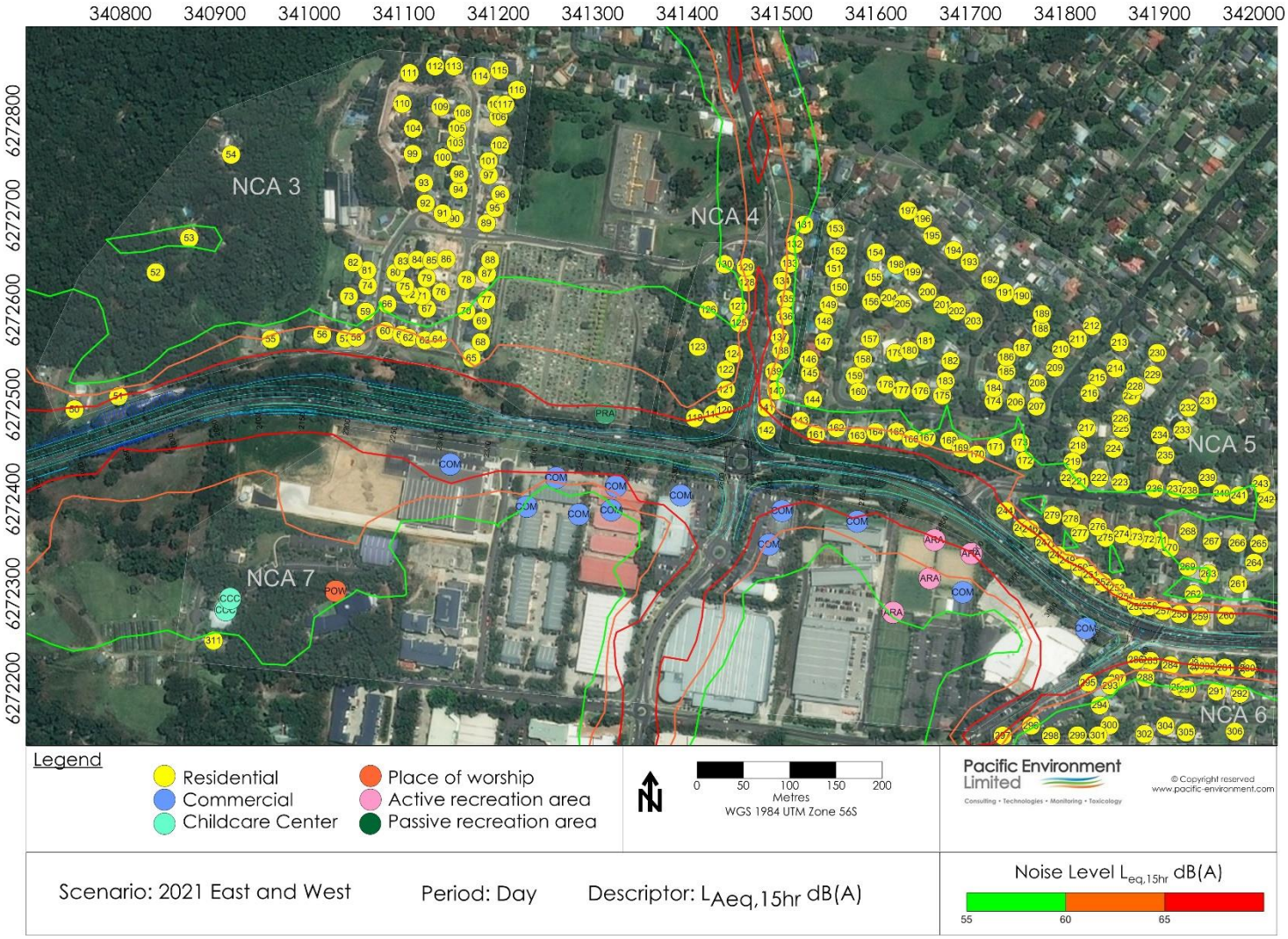
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Scenario: 2021 East and West
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Noise Level Leq,15hr dB(A)
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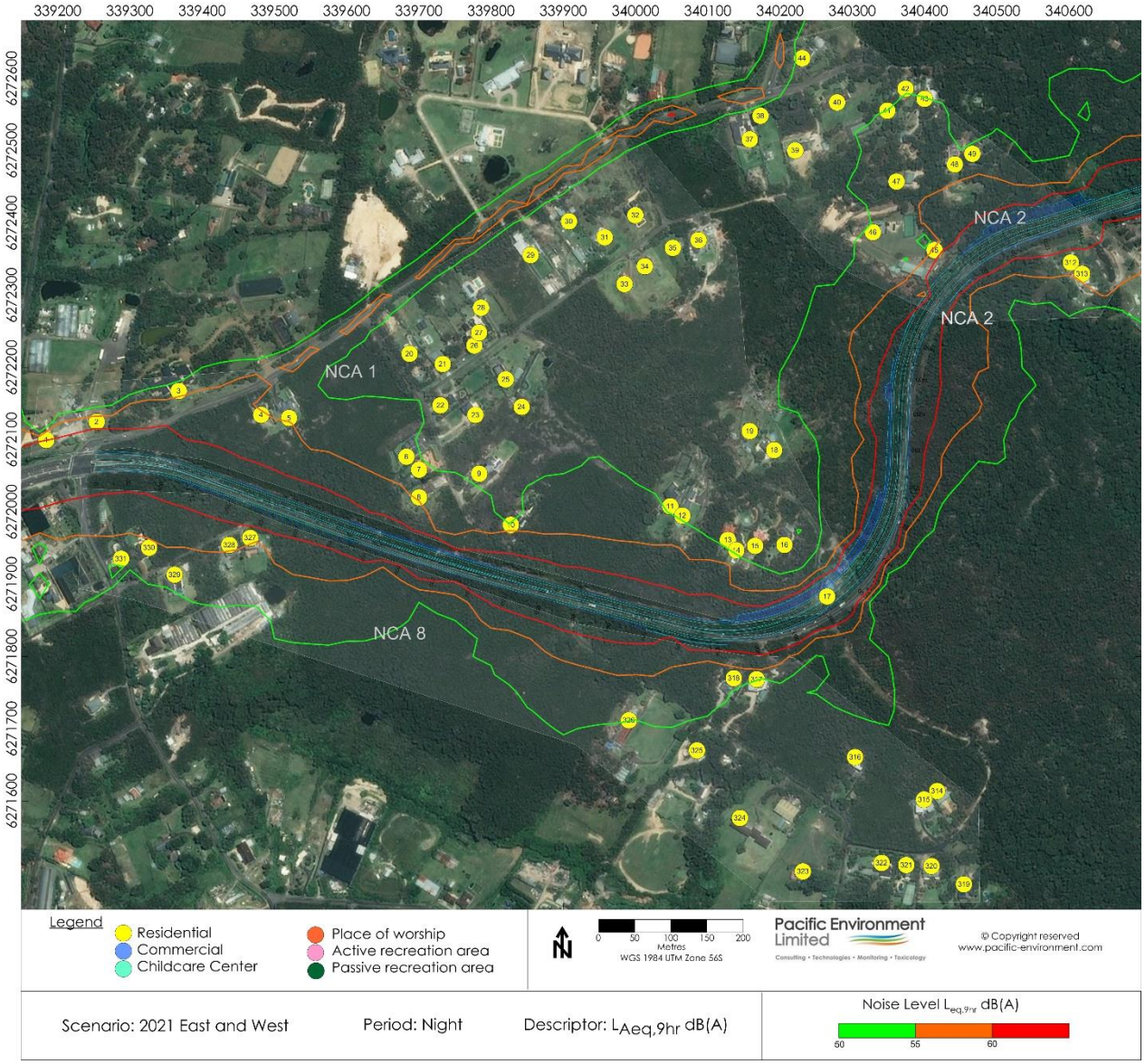
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Scenario: 2021 East and West
Period: Night
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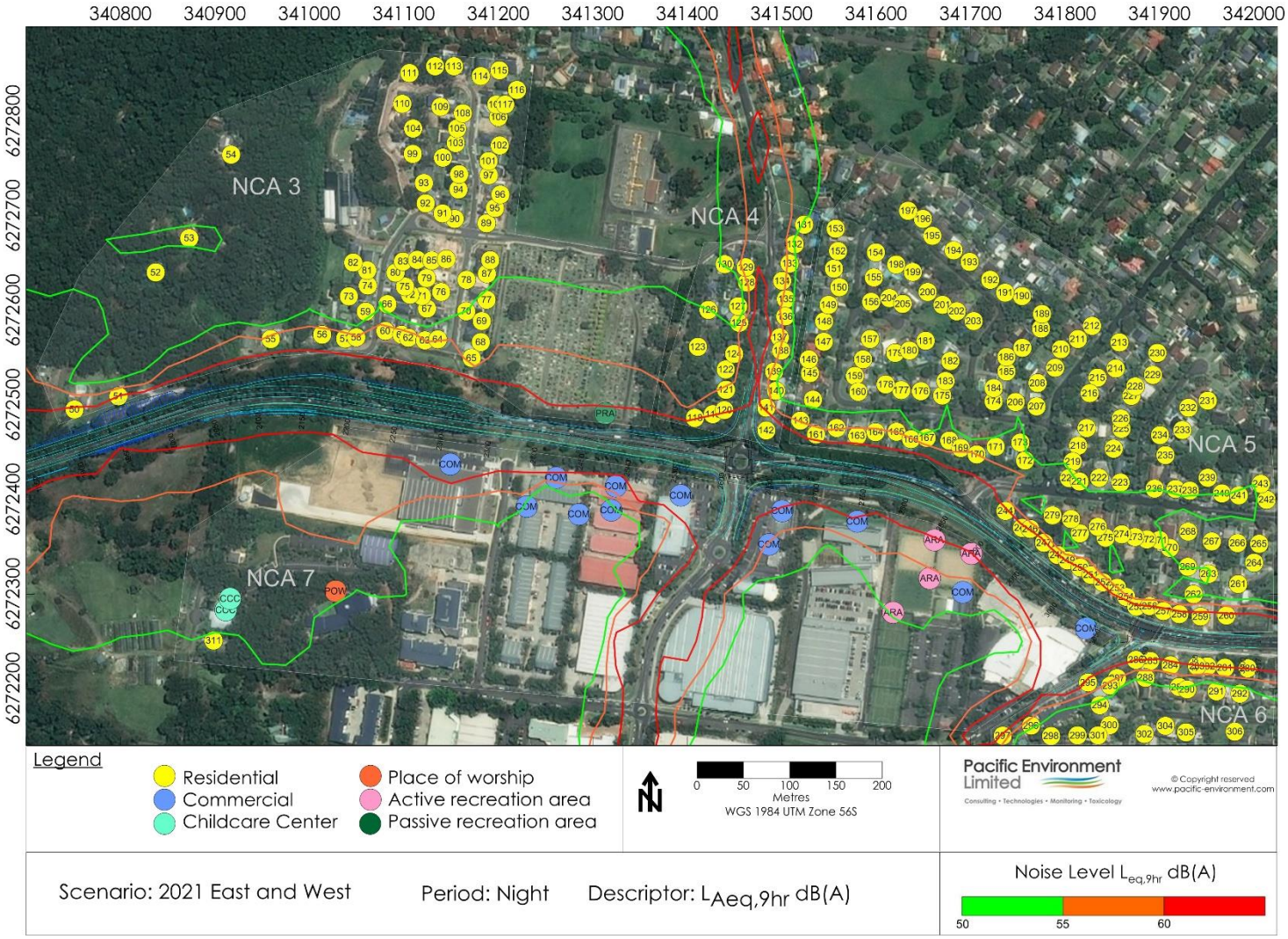
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Scenario: 2021 East and West
Period: Night
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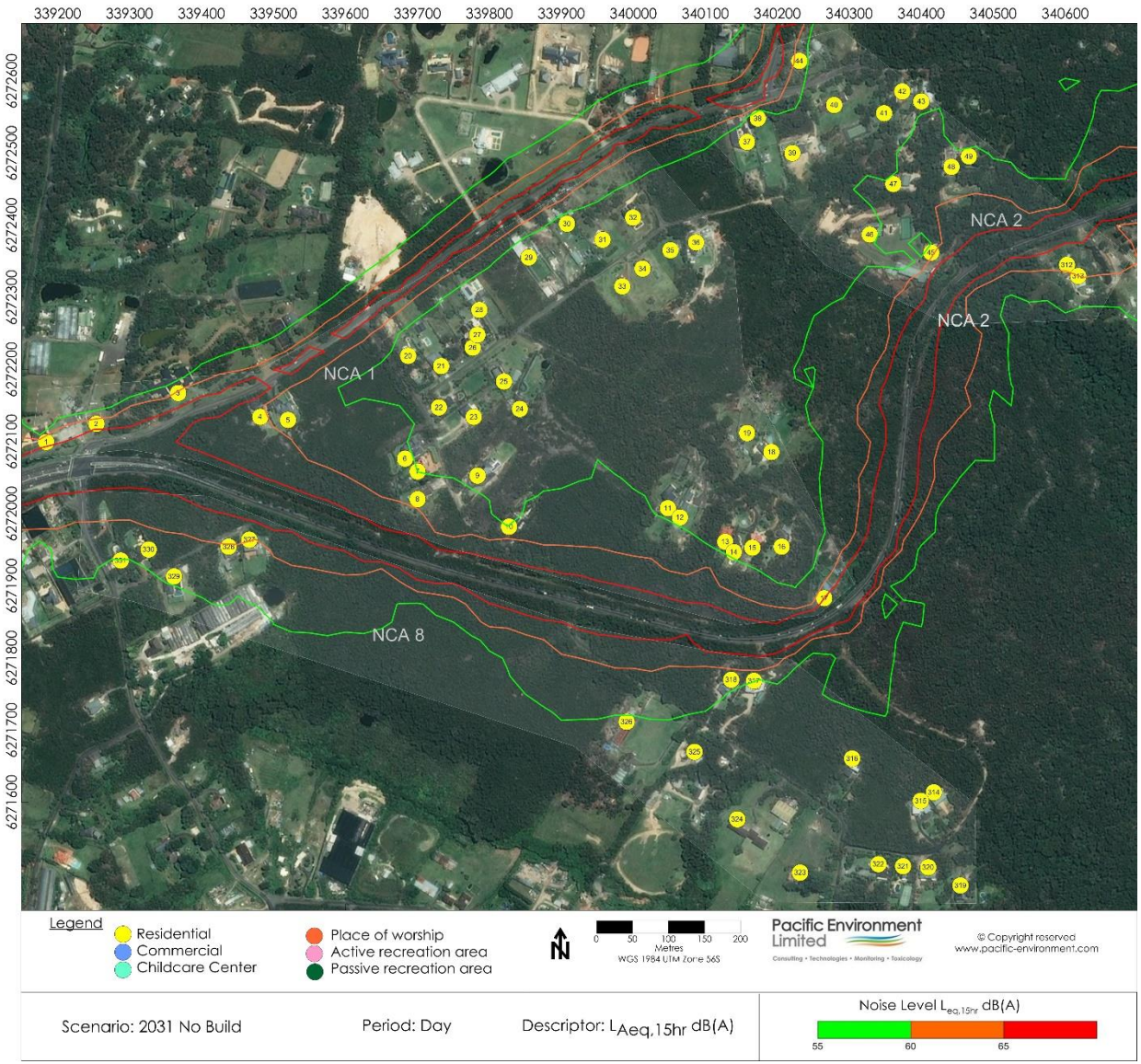
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Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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Scenario: 2031 No Build
Period: Day
Descriptor: LAeq,15hr dB(A)
Noise Level Leq,15hr dB(A)
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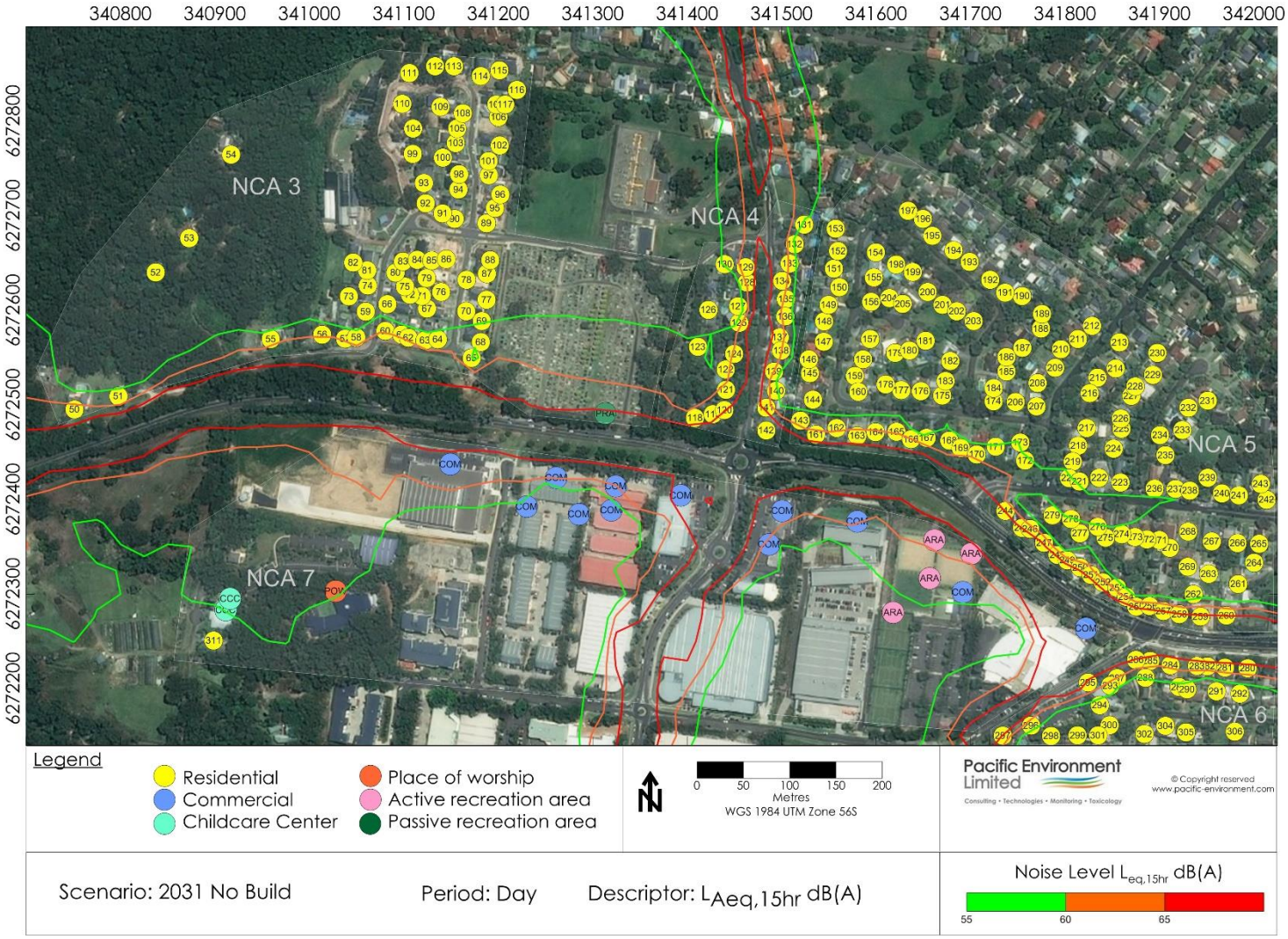
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Scenario: 2031 No Build
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Noise Level $L_{eq,15hr}$ dB(A)
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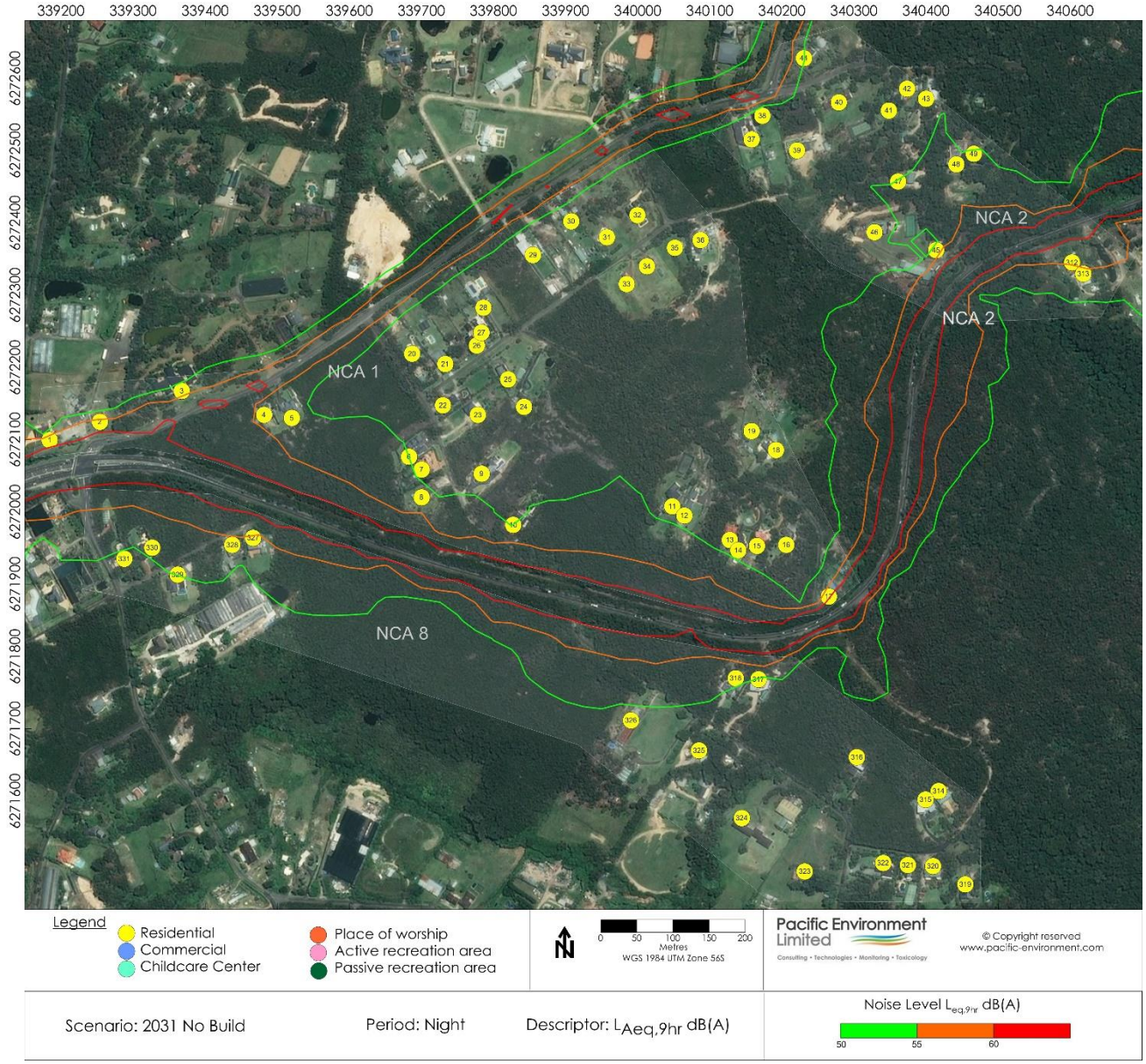
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Scenario: 2031 No Build
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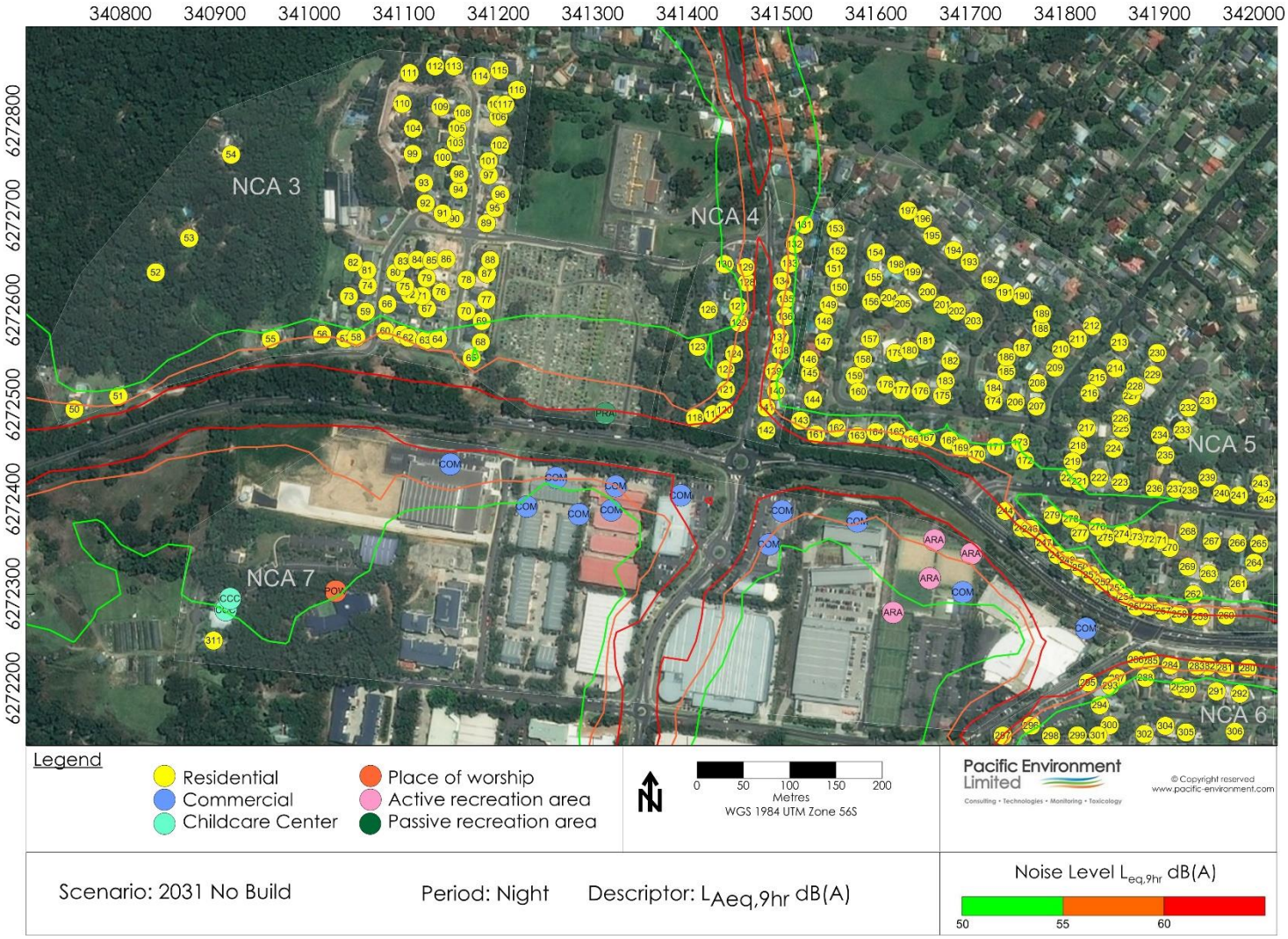
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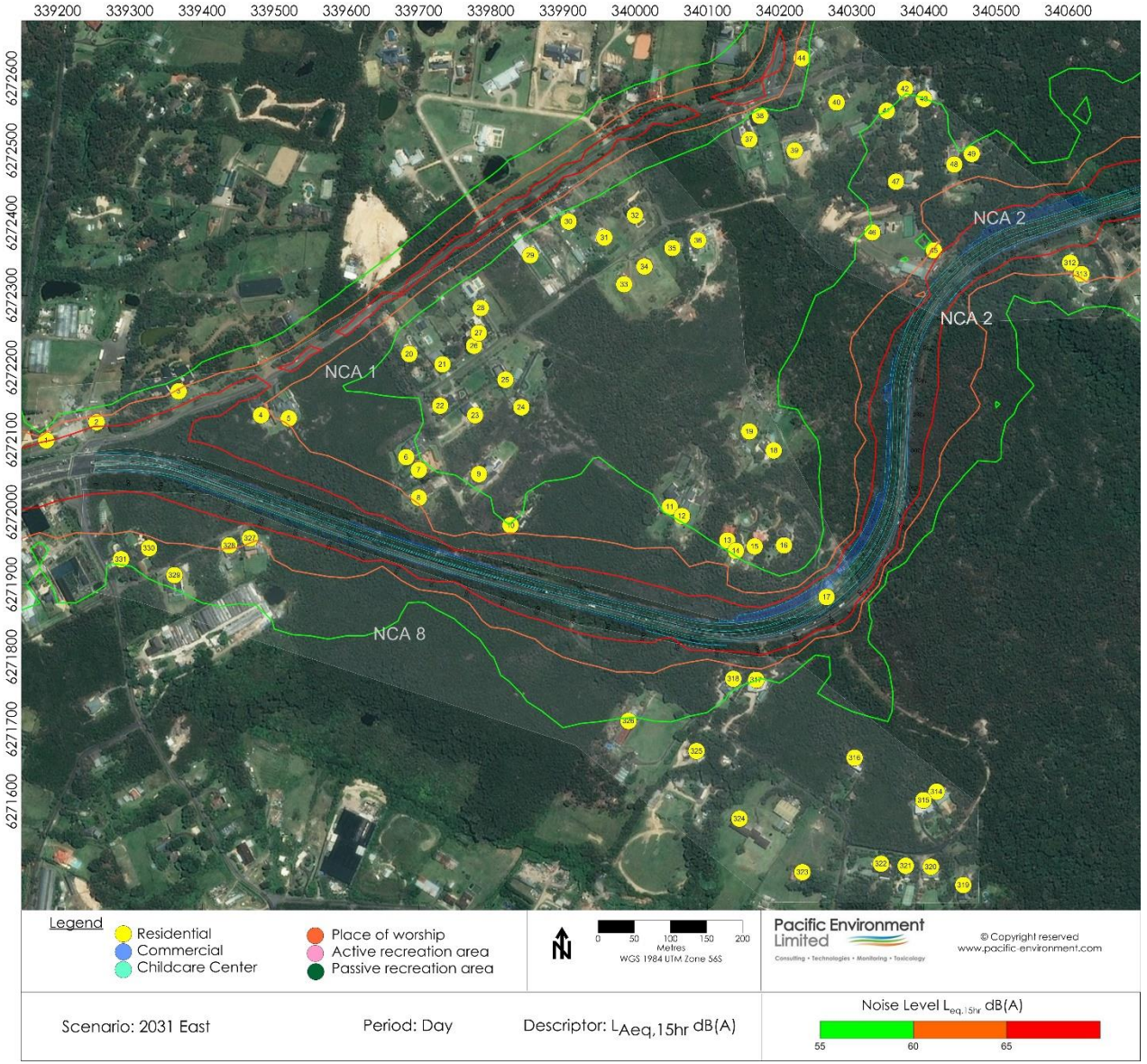
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Scenario: 2031 East
Period: Day
Descriptor: LAeq,15hr dB(A)
Noise Level Leq,15hr dB(A)
55
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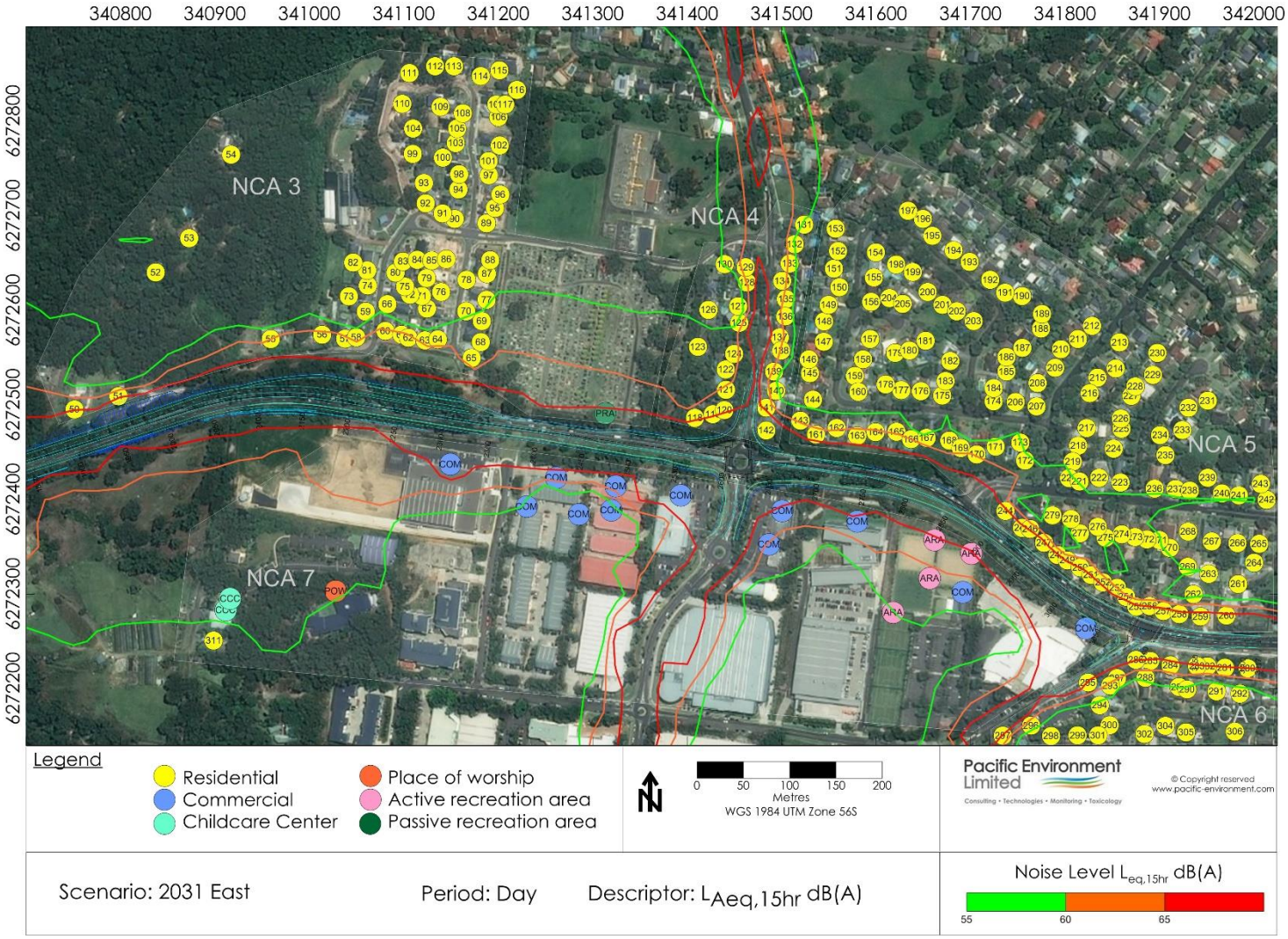
65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NCA 3
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NCA 7
Legend
Residential
Commercial
Childcare Center
Place of worship
Active recreation area
Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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Scenario: 2031 East
Period: Day
Descriptor: $L_{Aeq,15hr}$ dB(A)
Noise Level $L_{eq,15hr}$ dB(A)
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60
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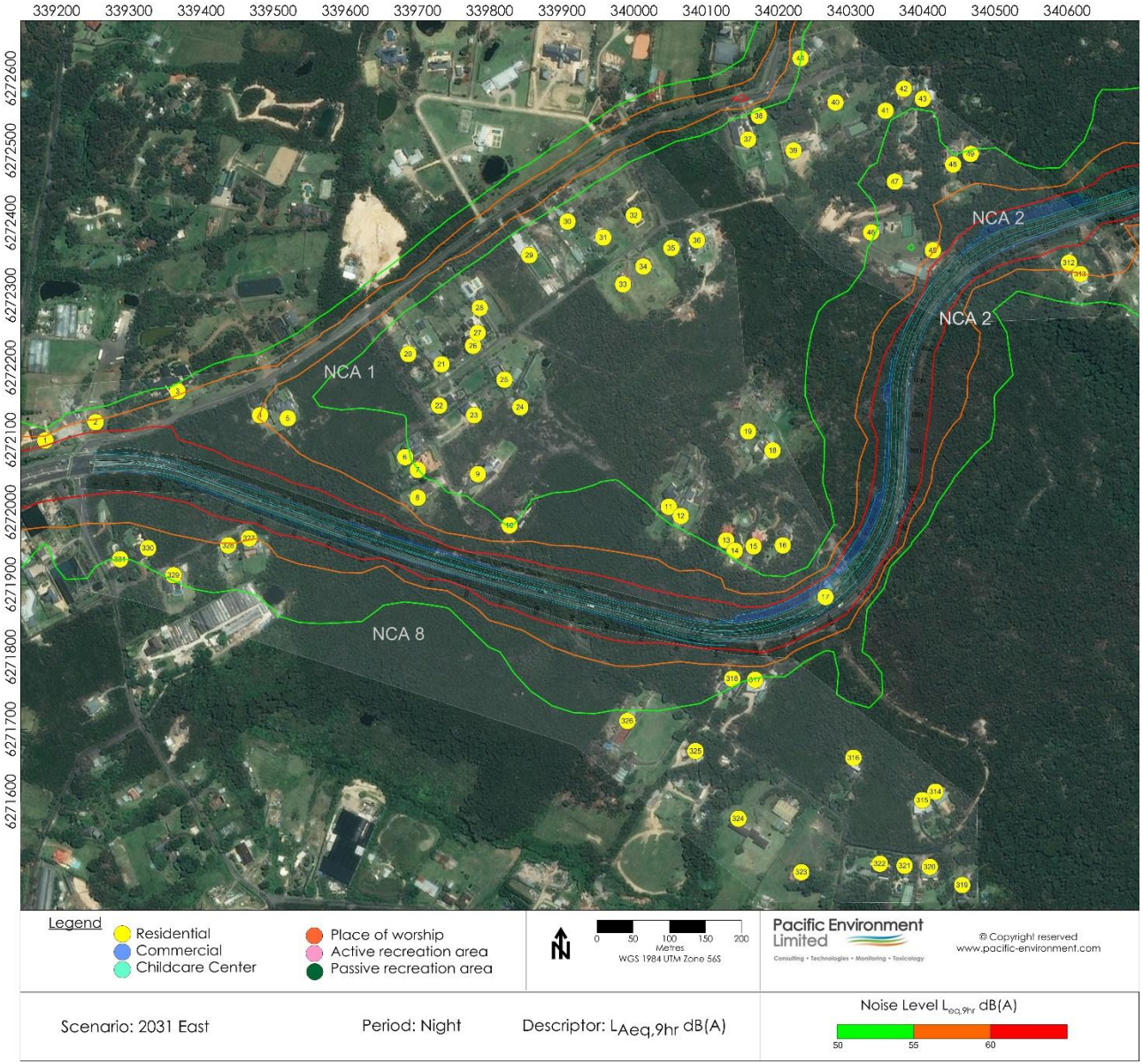
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Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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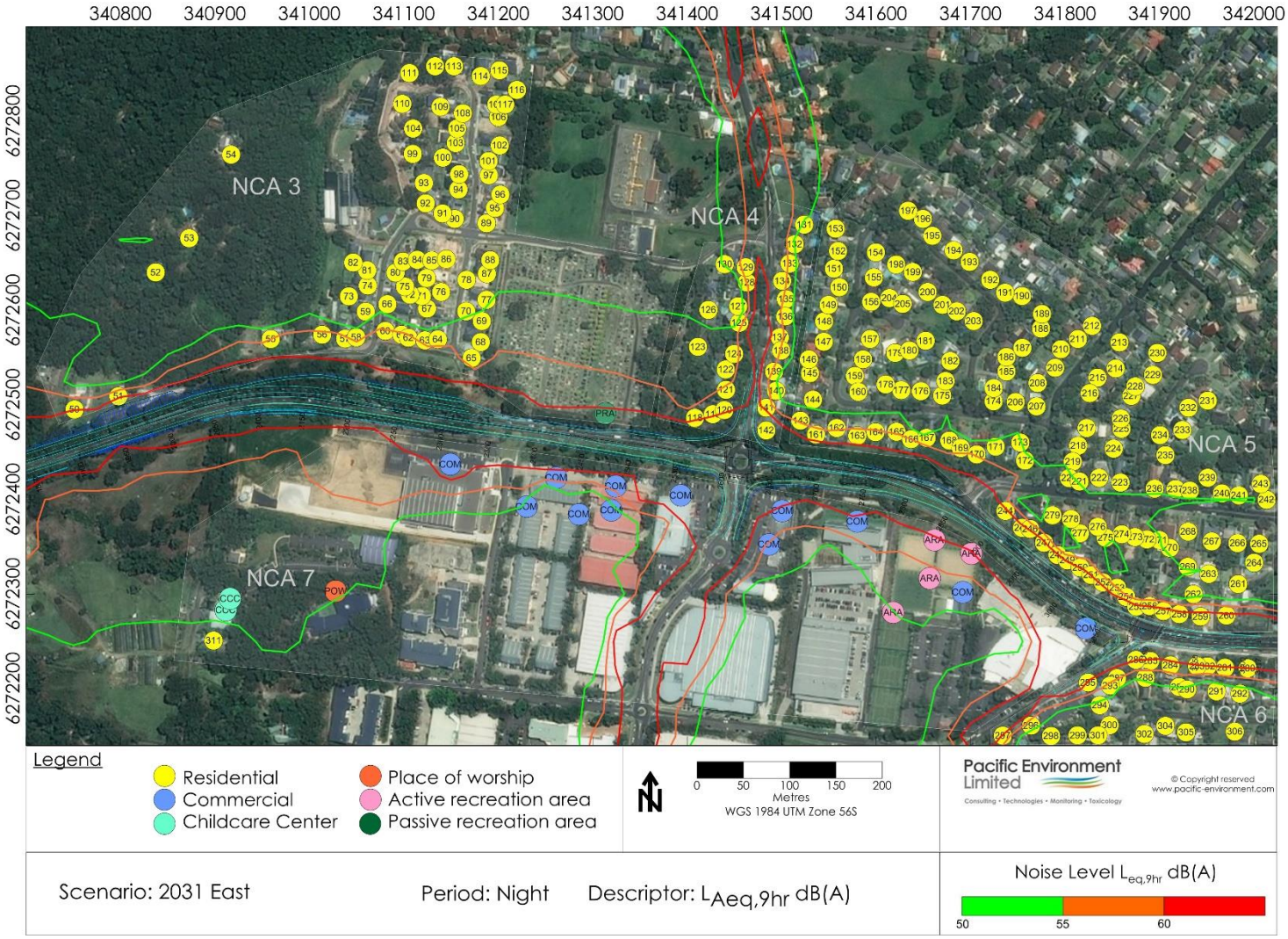
Scenario: 2031 East
Period: Night
Descriptor: LAeq,9hr dB(A)
Noise Level Leq,9hr dB(A)
50
55
60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Metres
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Scenario: 2031 East
Period: Night
Descriptor: $L_{Aeq,9hr}$ dB(A)
Noise Level $L_{eq,9hr}$ dB(A)
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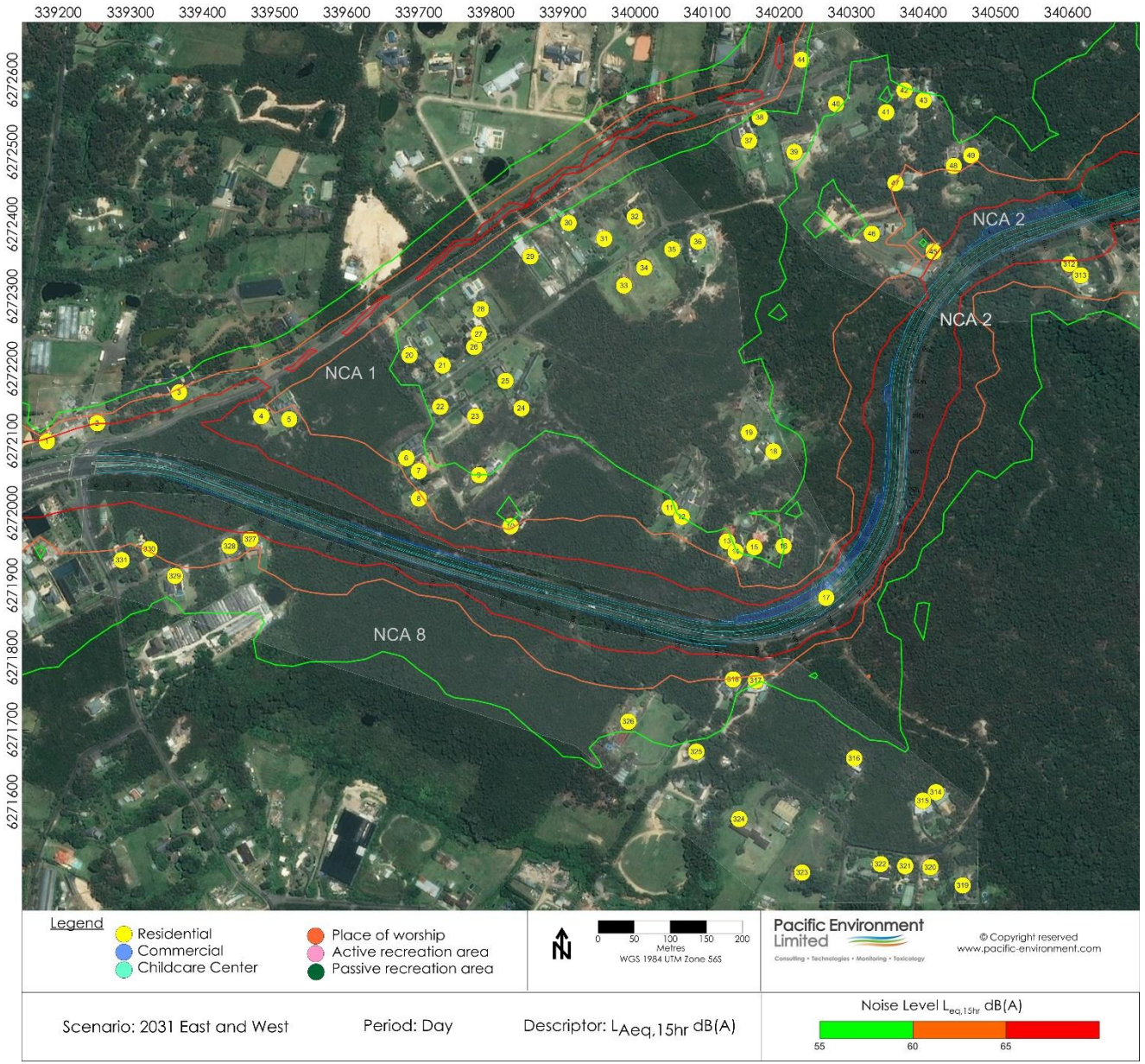
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Metres
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Scenario: 2031 East and West
Period: Day
Descriptor: LAeq,15hr dB(A)
Noise Level Leq,15hr dB(A)
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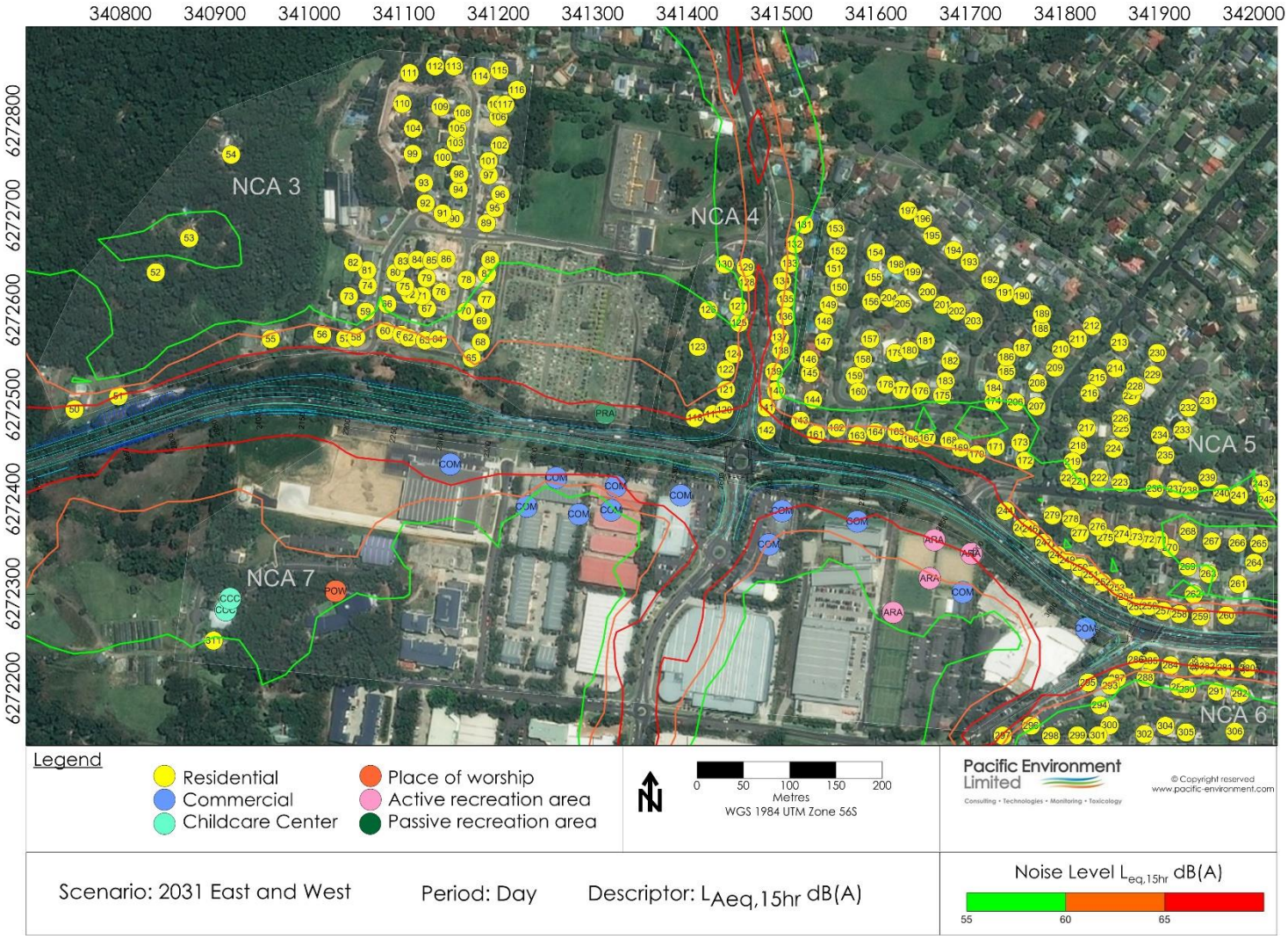
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Scenario: 2031 East and West
Period: Day
Descriptor: $L_{Aeq,15hr}$ dB(A)
Noise Level $L_{eq,15hr}$ dB(A)
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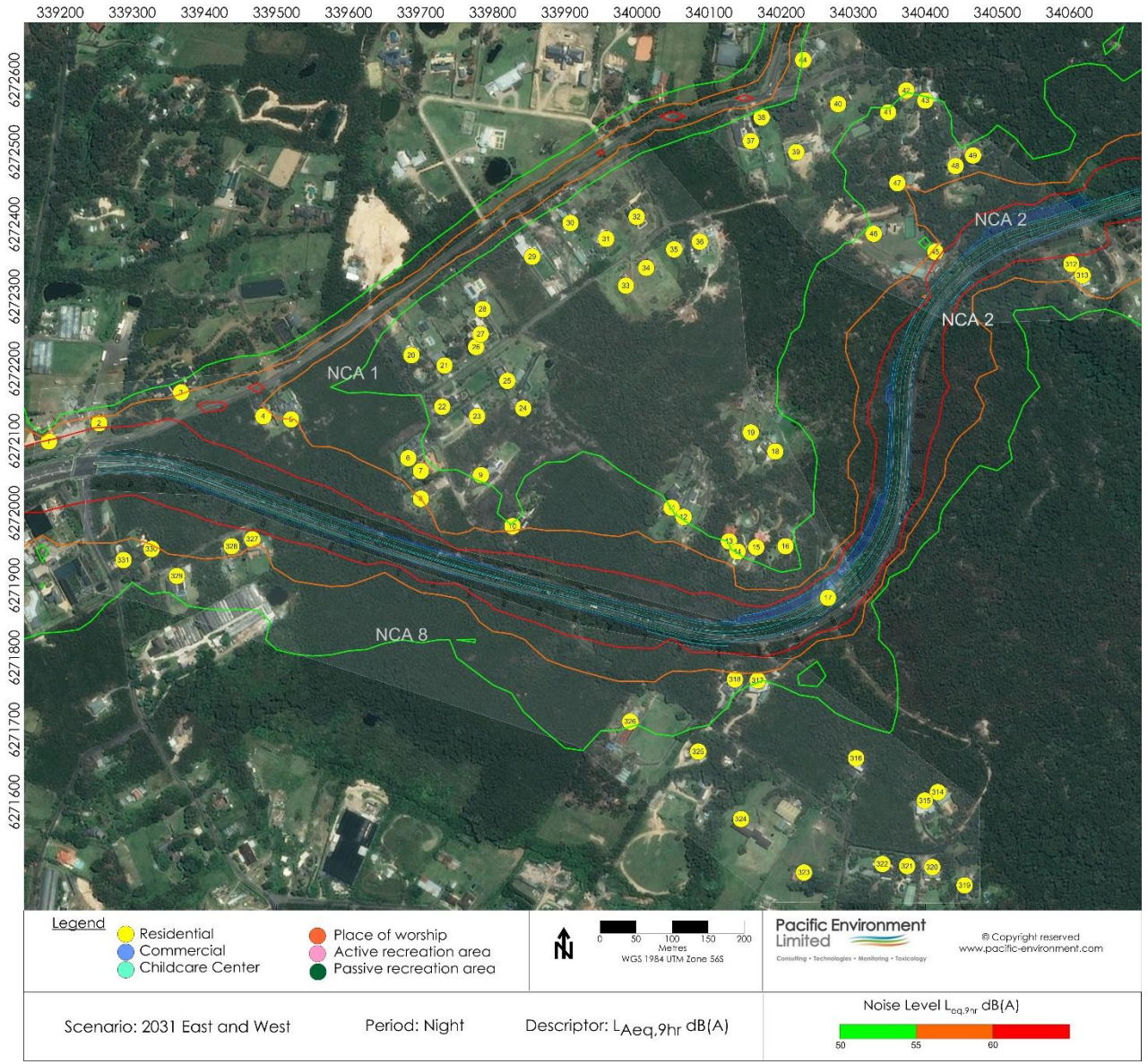
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Scenario: 2031 East and West
Period: Night
Descriptor: LAeq,9hr dB(A)
Noise Level Leq,9hr dB(A)
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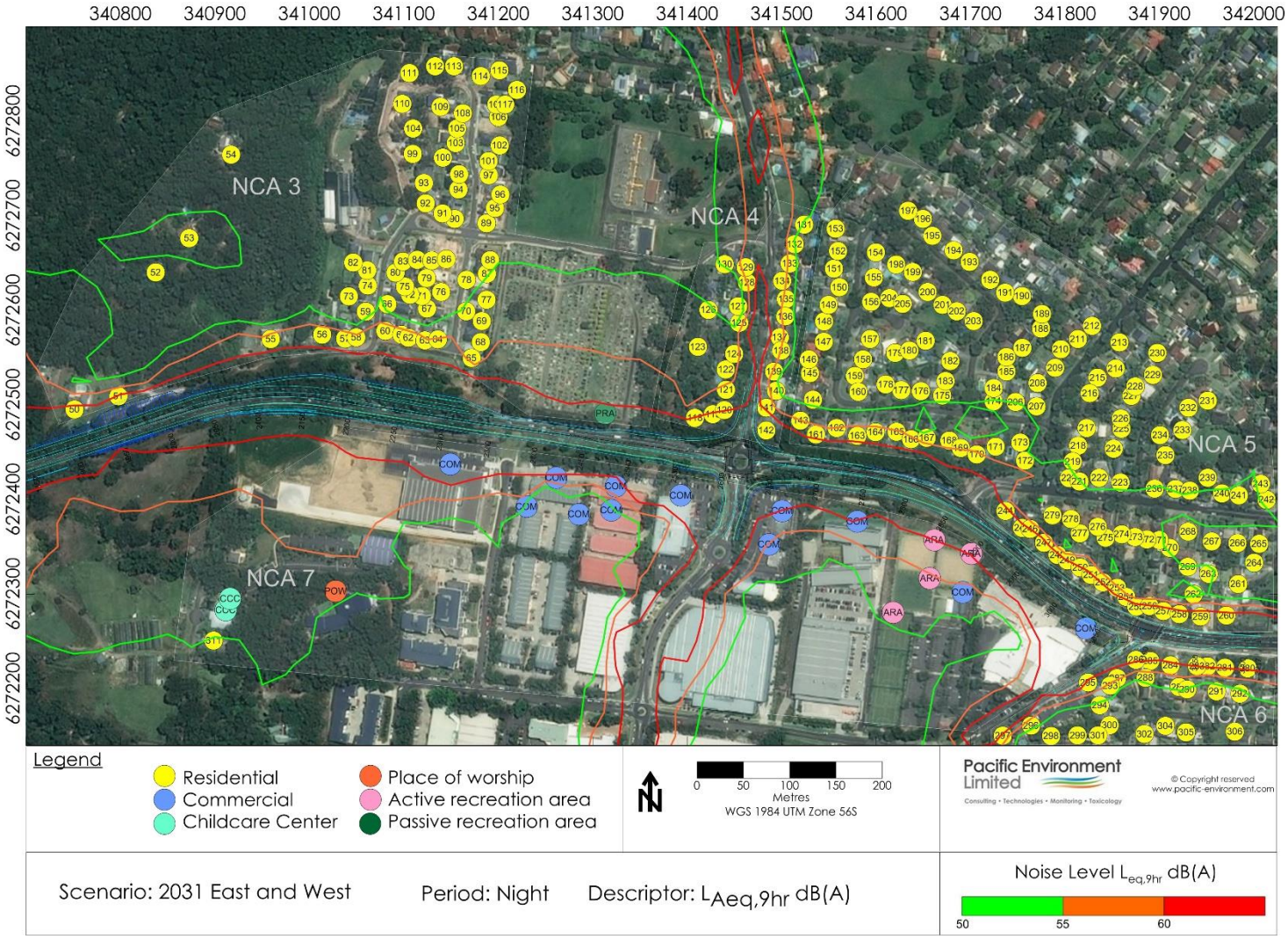
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Scenario: 2031 East and West
Period: Night
Descriptor: $L_{Aeq,9hr}$ dB(A)
Noise Level $L_{eq,9hr}$ dB(A)
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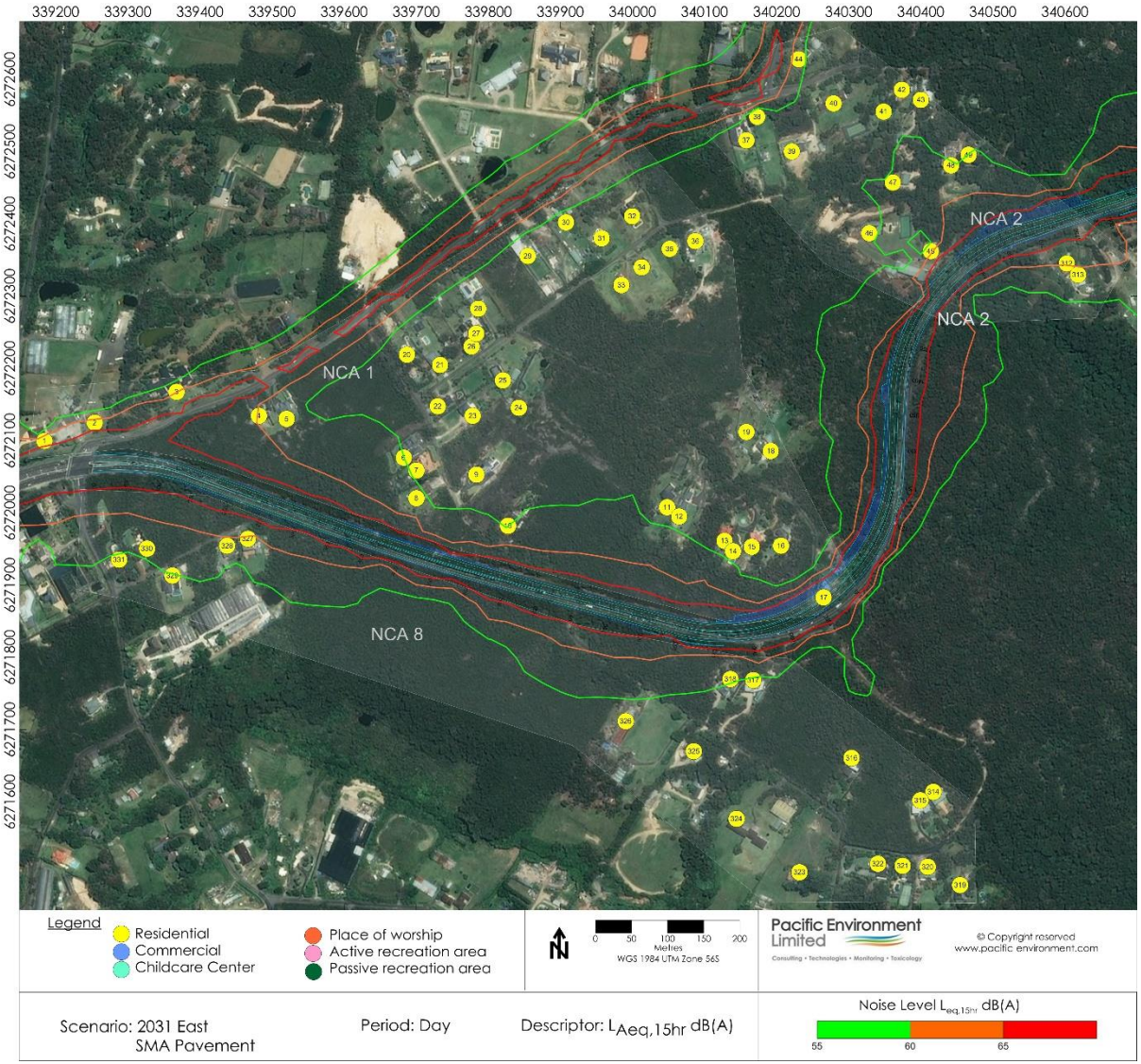
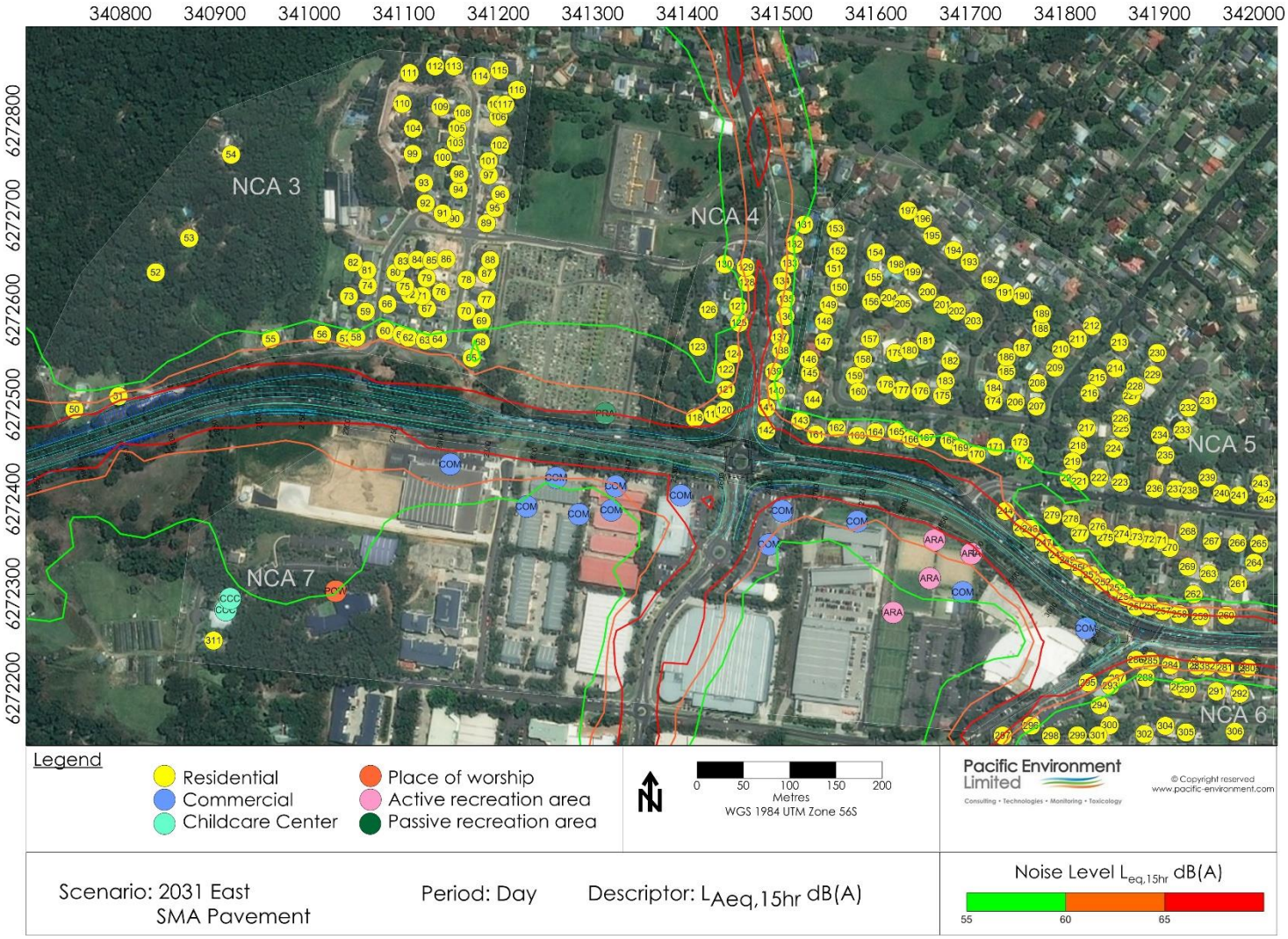
F.2 OPERATIONAL NOISE CONTOURS WITH SMA PAVEMENT

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Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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Scenario: 2031 East
SMA Pavement
Period: Day
Descriptor: $L_{Aeq,15hr}$ dB(A)
Noise Level $L_{eq,15hr}$ dB(A)
55
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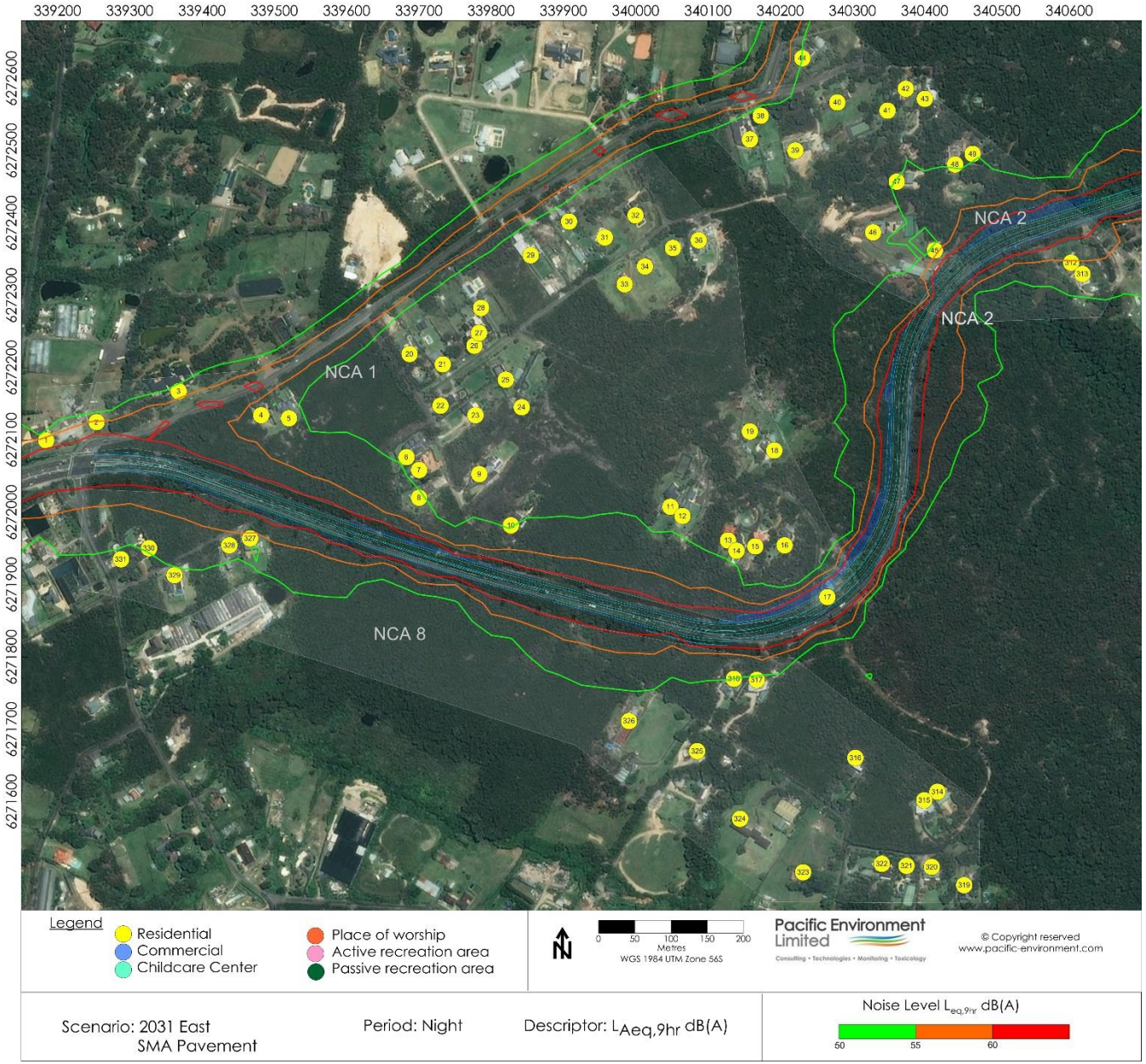
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0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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Scenario: 2031 East
SMA Pavement
Period: Night
Descriptor: LAeq,9hr dB(A)
Noise Level Leq,9hr dB(A)
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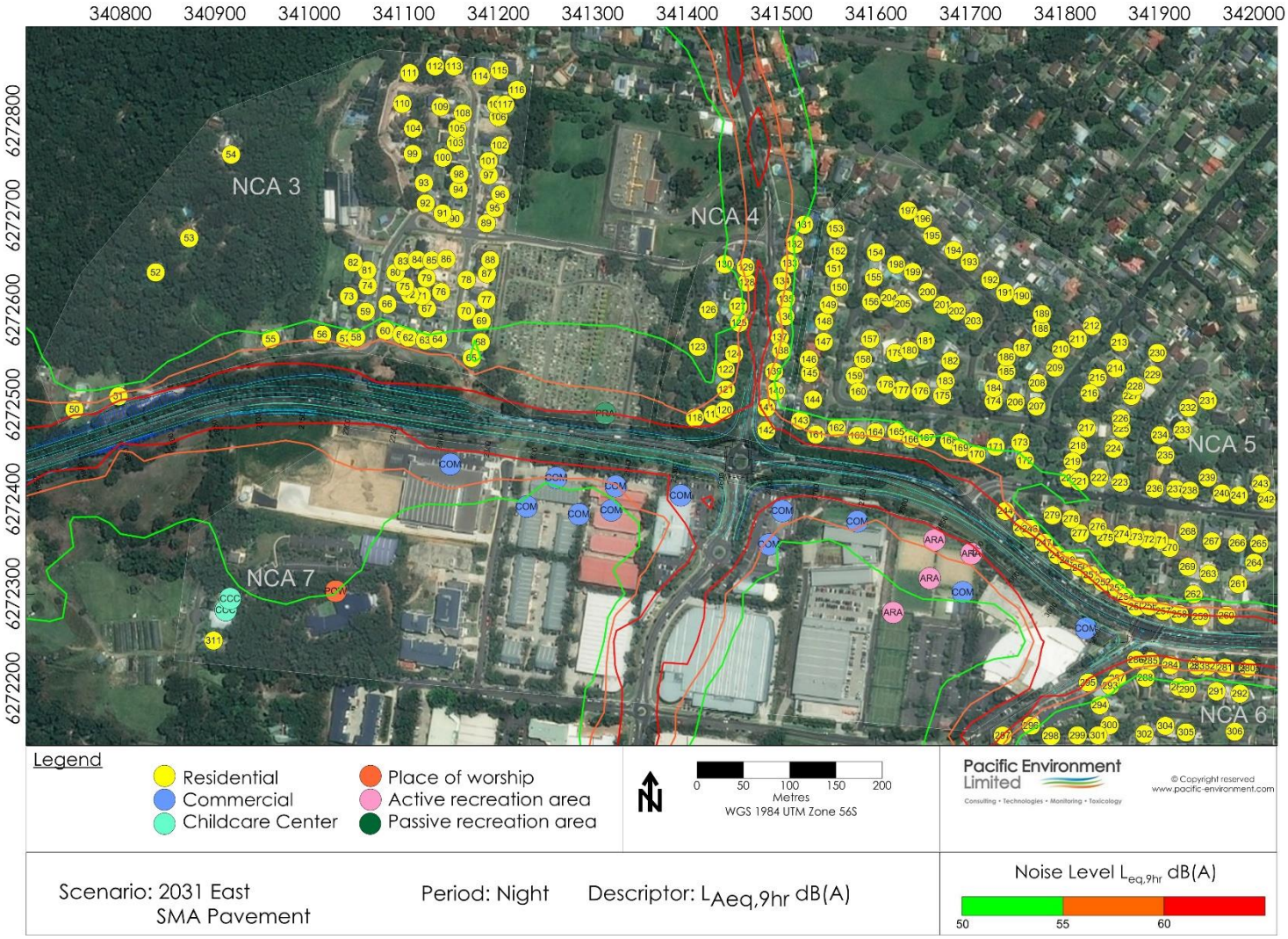
60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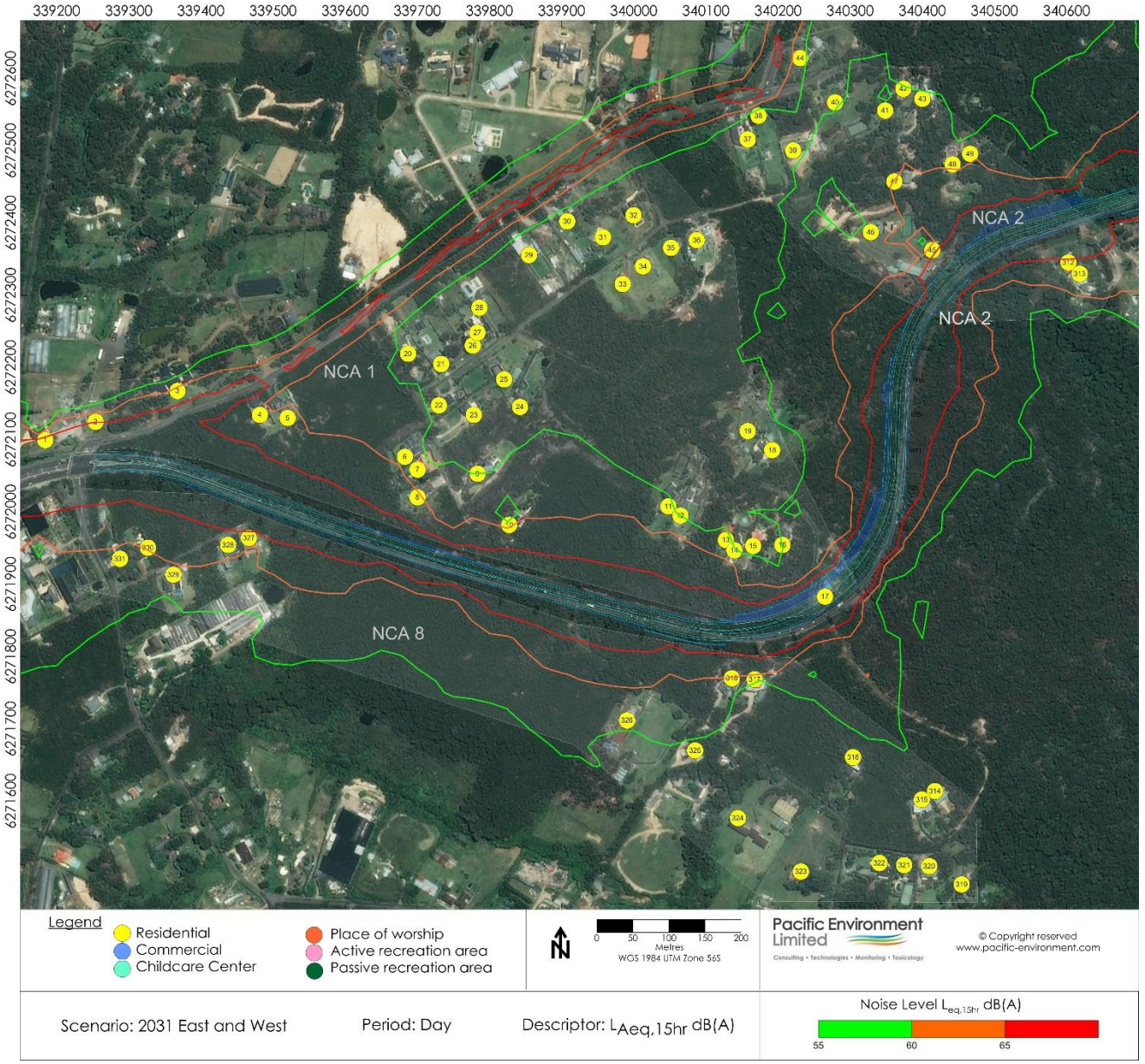
Scenario: 2031 East
SMA Pavement
Period: Night
Descriptor: $L_{Aeq,9hr}$ dB(A)
Noise Level $L_{eq,9hr}$ dB(A)
50 55 60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Scenario: 2031 East and West
Period: Day
Descriptor: LAeq,15hr dB(A)
Noise Level Leq,15hr dB(A)
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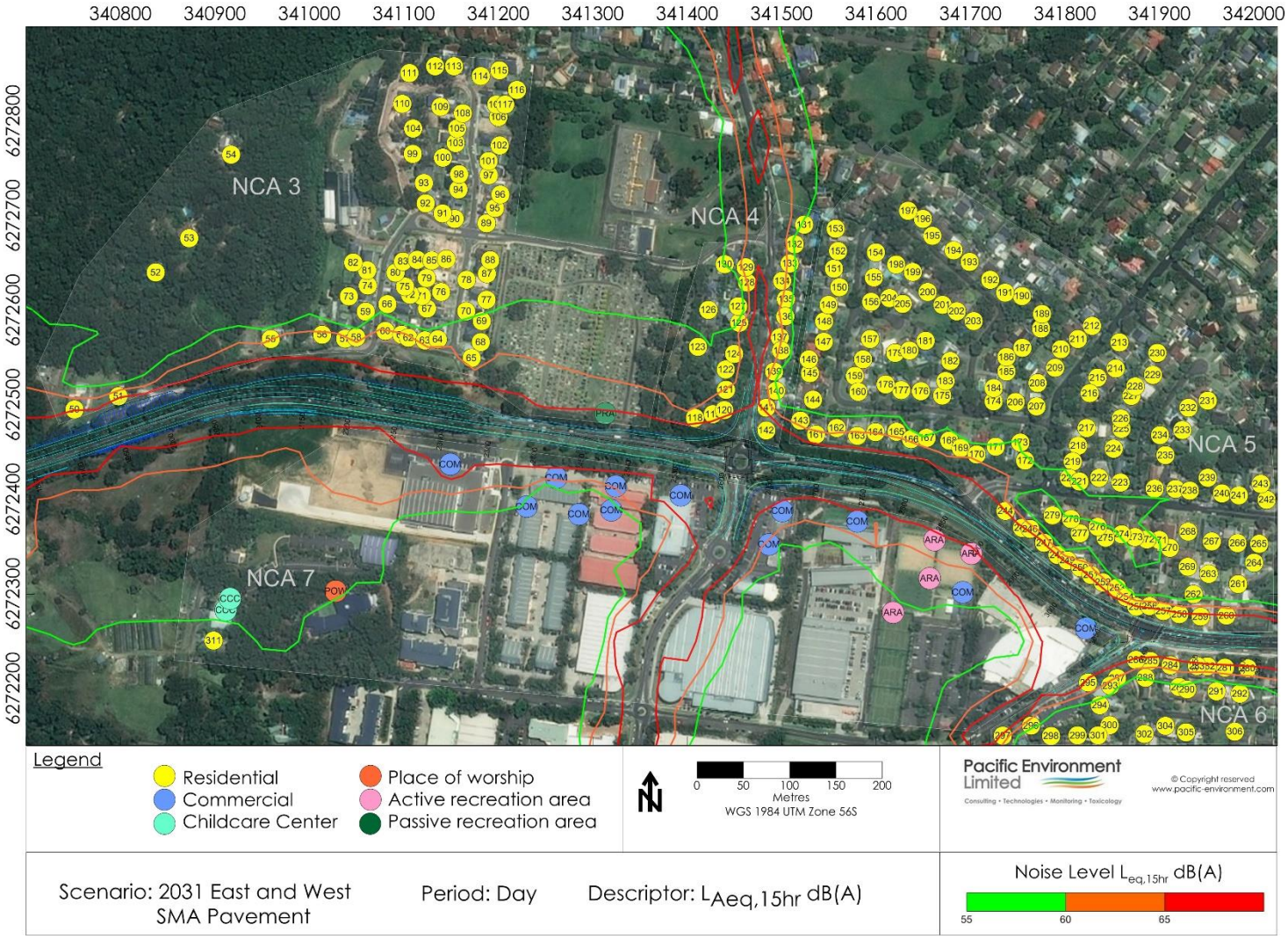
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Legend
Residential
Commercial
Childcare Center
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Active recreation area
Passive recreation area
0 50 100 150 200
Metres
WGS 1984 UTM Zone 56S
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Scenario: 2031 East and West SMA Pavement
Period: Day
Descriptor: $L_{Aeq,15hr}$ dB(A)
Noise Level $L_{eq,15hr}$ dB(A)
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60
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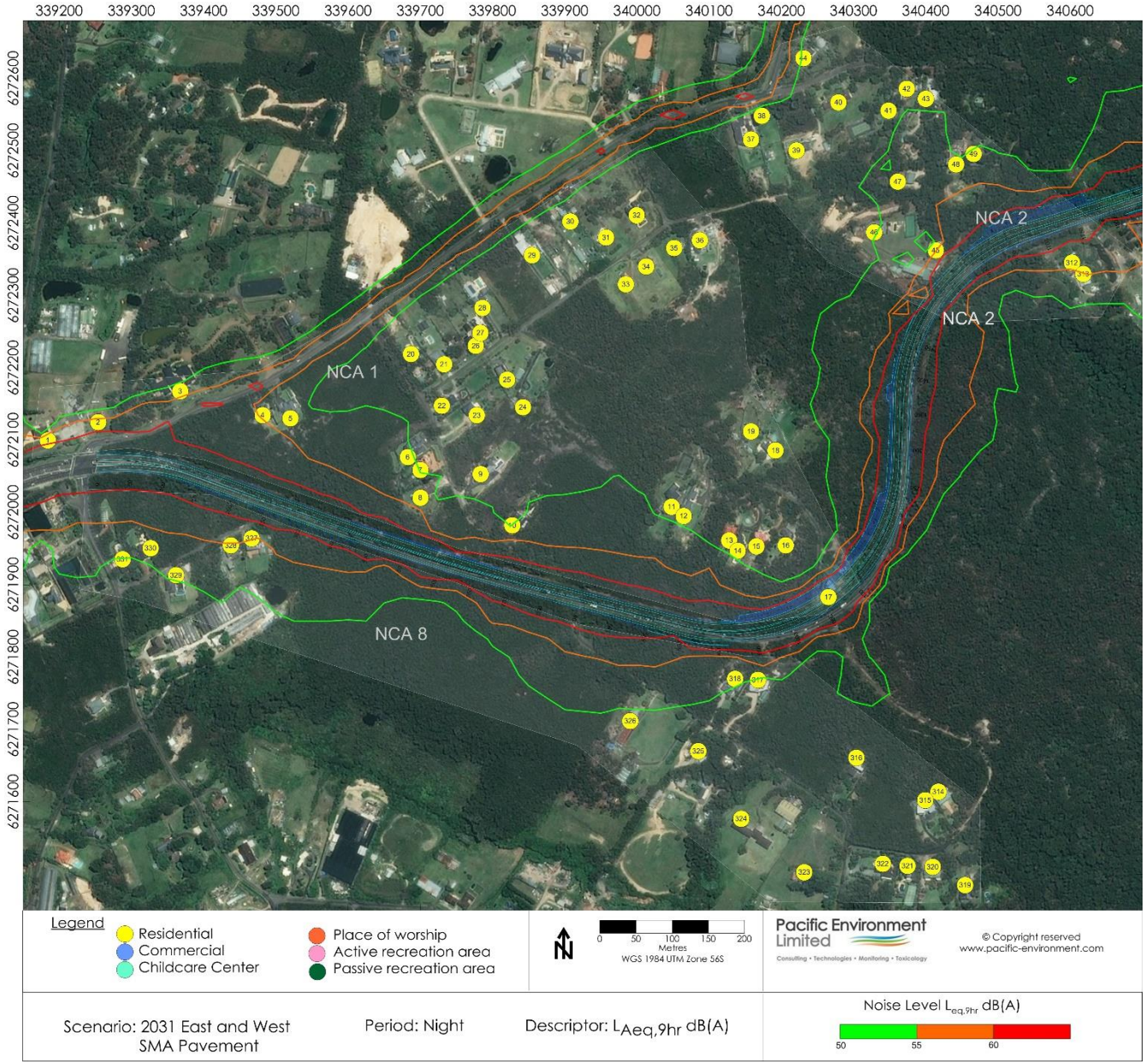
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Scenario: 2031 East and West SMA Pavement
Period: Night
Descriptor: LAeq,9hr dB(A)
Noise Level Leq,9hr dB(A)
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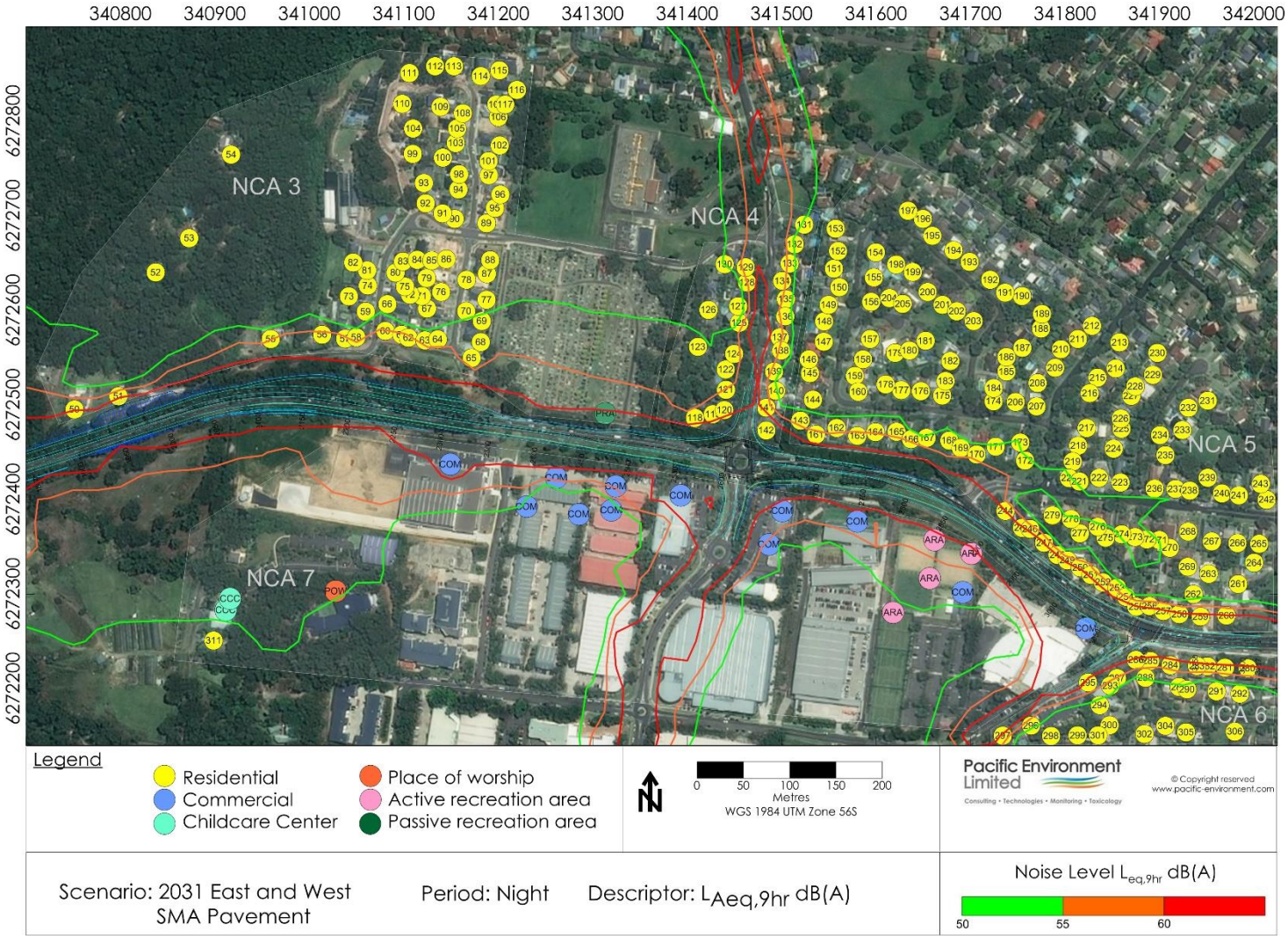
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Scenario: 2031 East and West SMA Pavement
Period: Night
Descriptor: $L_{Aeq,9hr}$ dB(A)
Noise Level $L_{eq,9hr}$ dB(A)
50
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60