

**Appendix 3.11a**

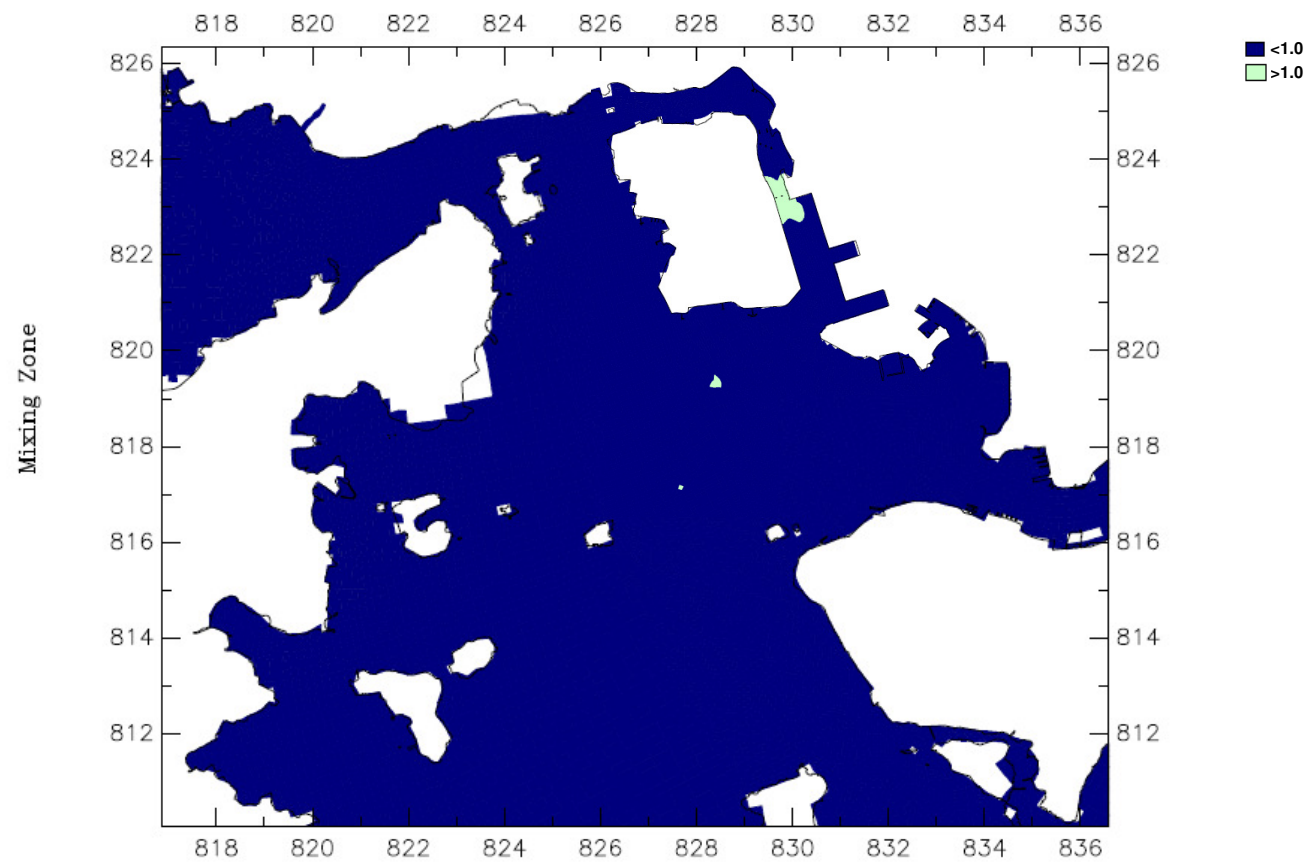
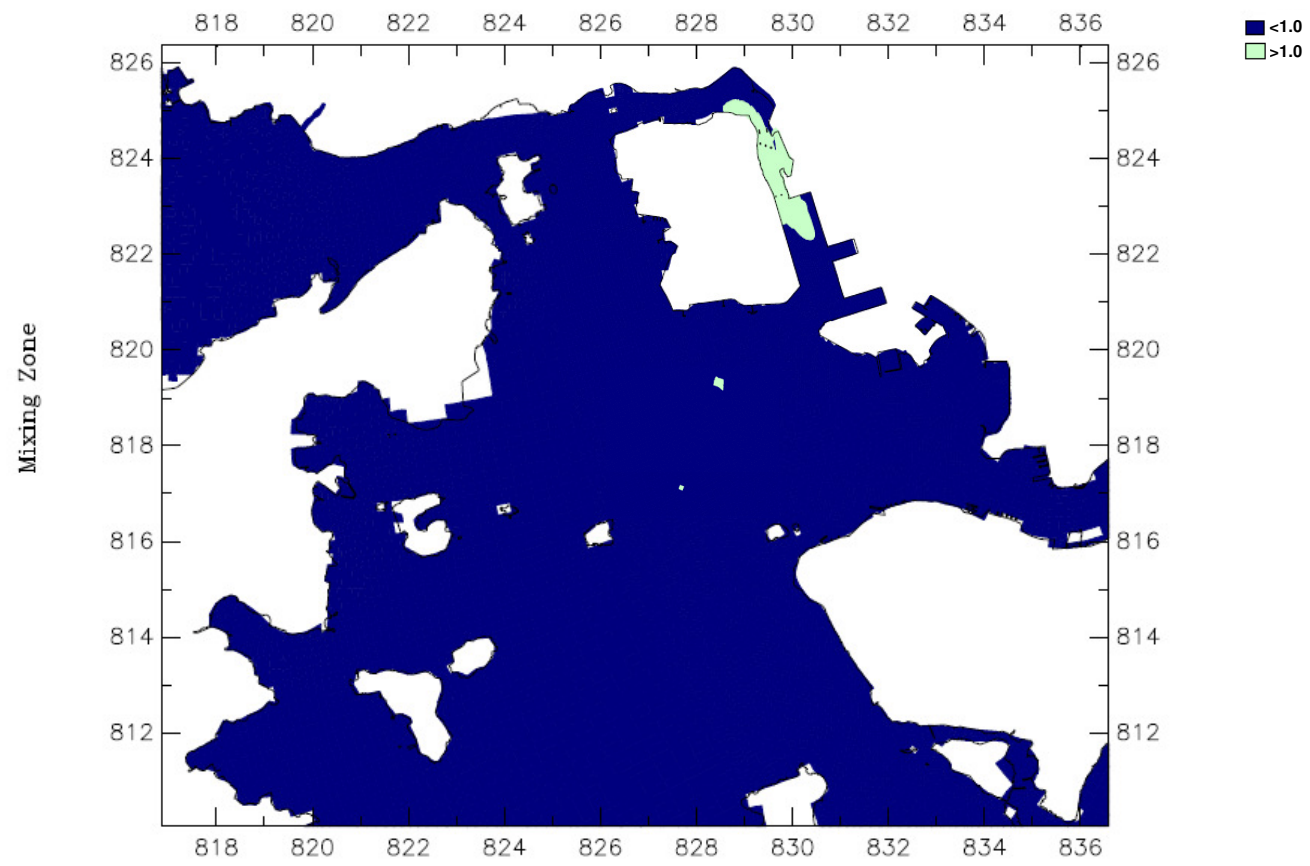
**Mixing Zone for Ammoniacal Nitrogen**

**for Scenario 1-5**

**(Dry and Wet Seasons)**

**(Unmitigated and Mitigated at Source A with  
65% and 70% reduction in dredging rate)**

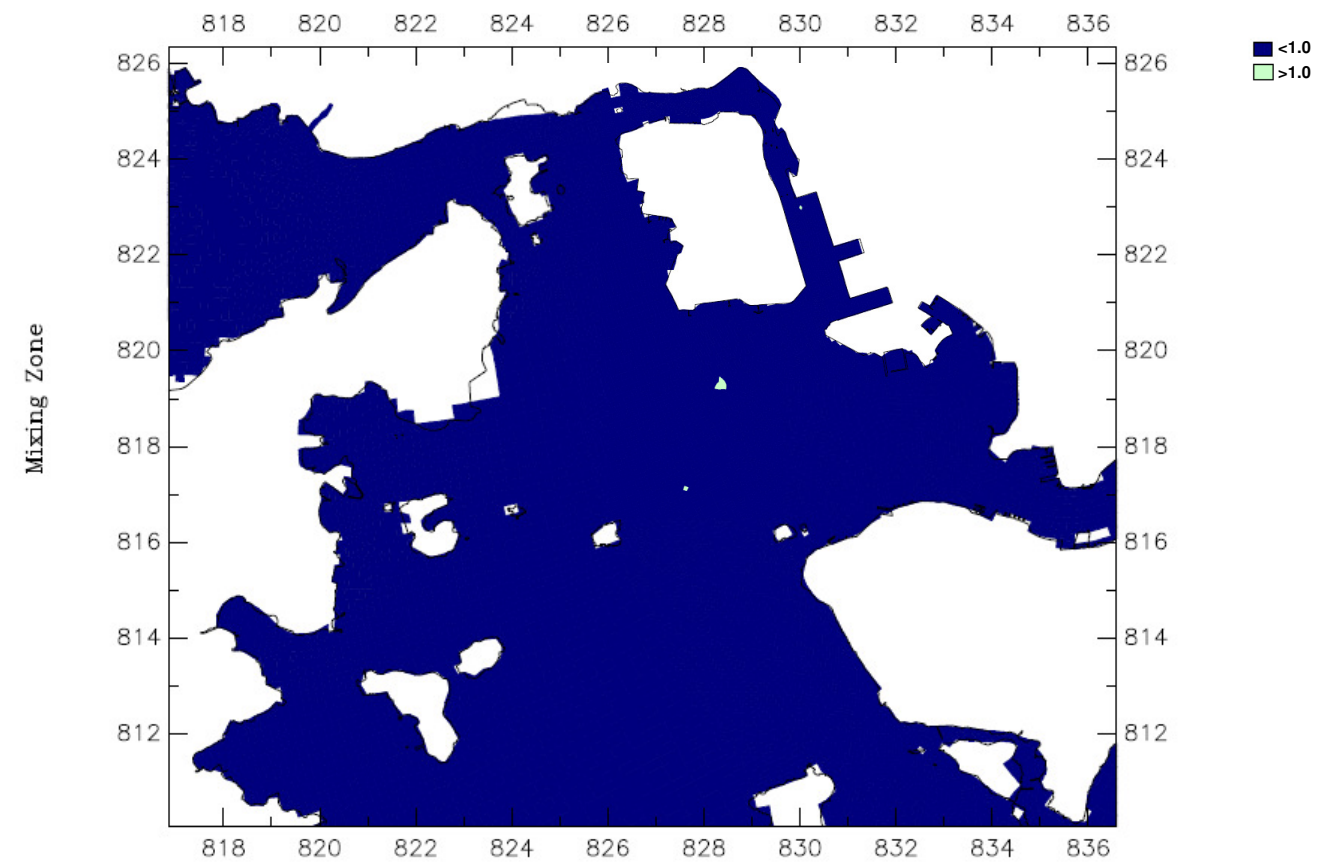
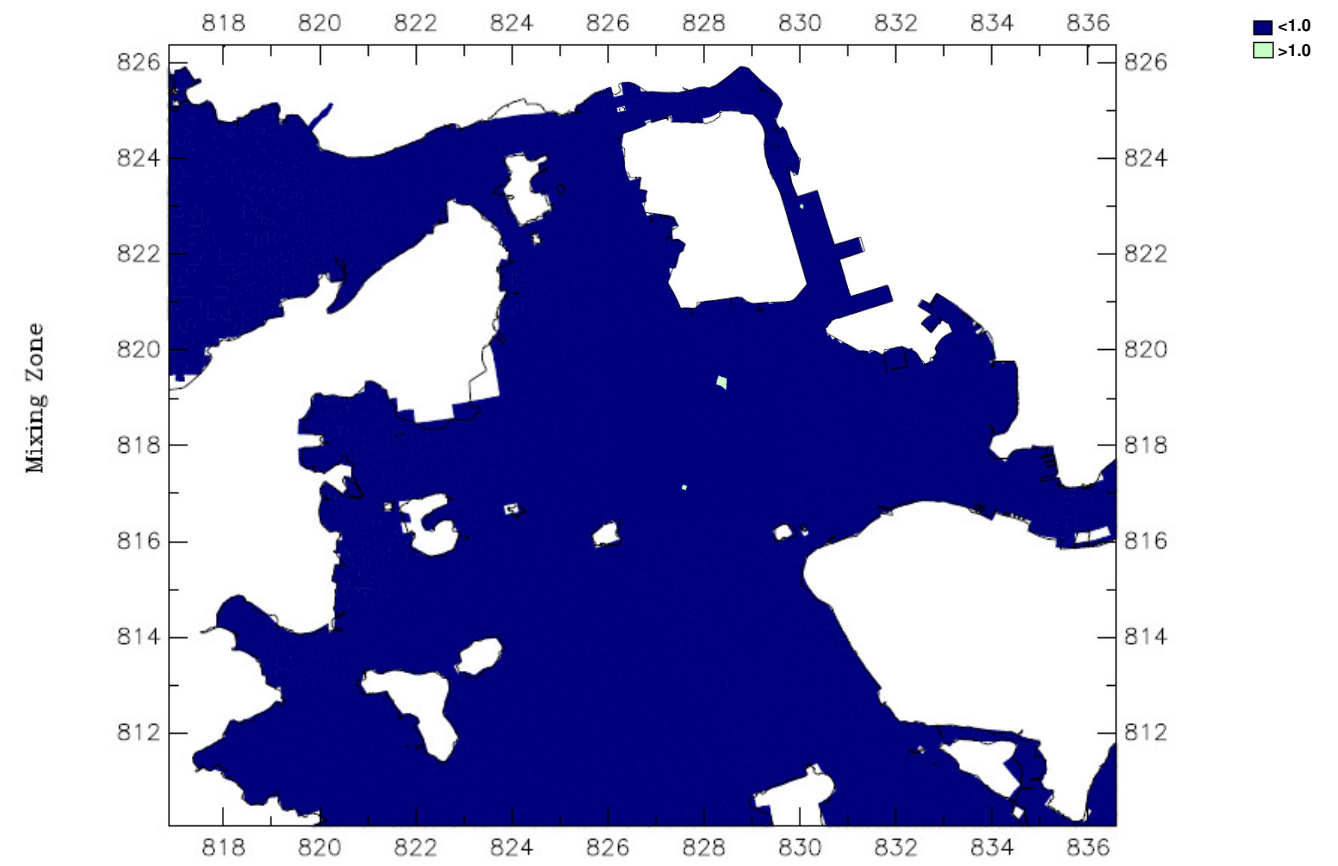
**(with the excision of S2)**



Mixing zone for Ammoniacal Nitrogen for Scenario 1 (Unmitigated)

Upper plot: Dry season; Lower plot: Wet season

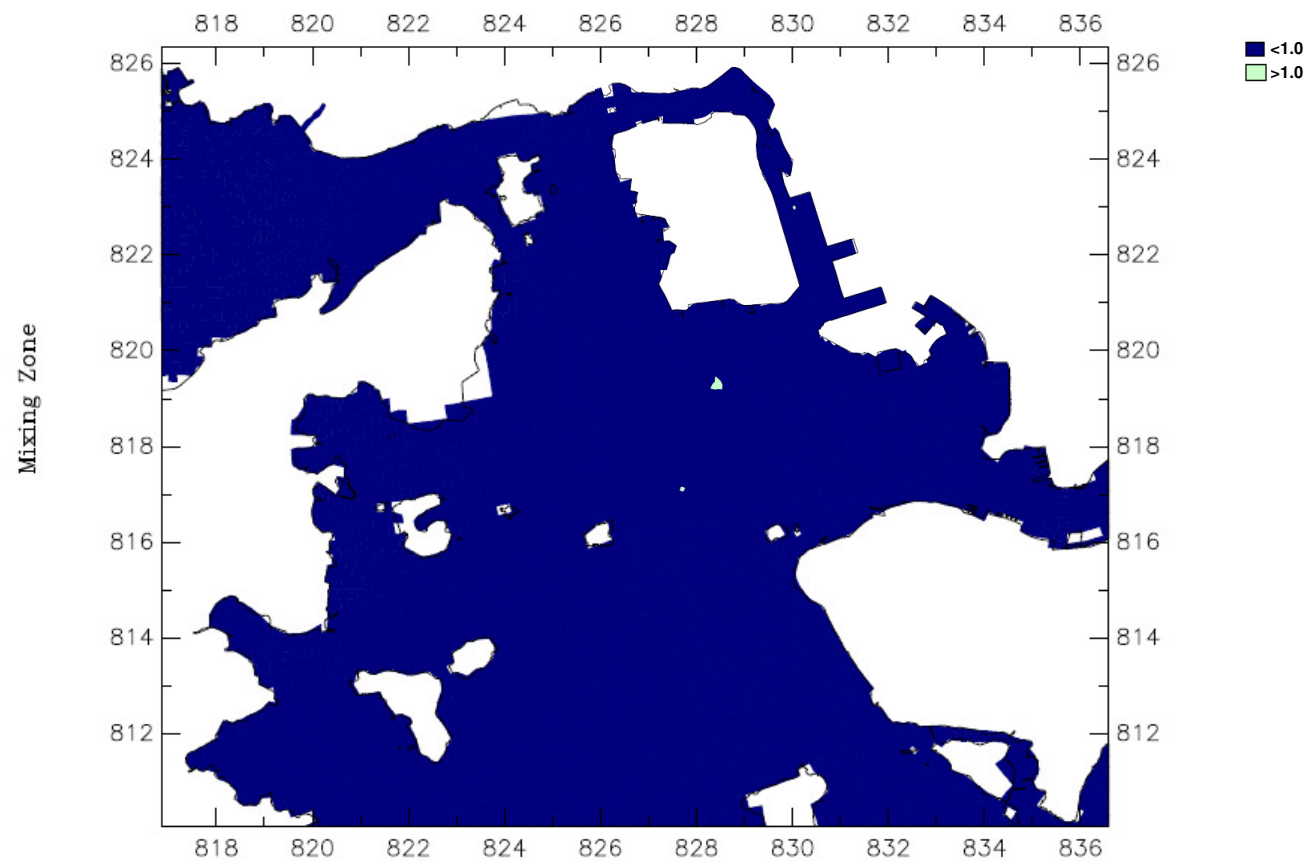
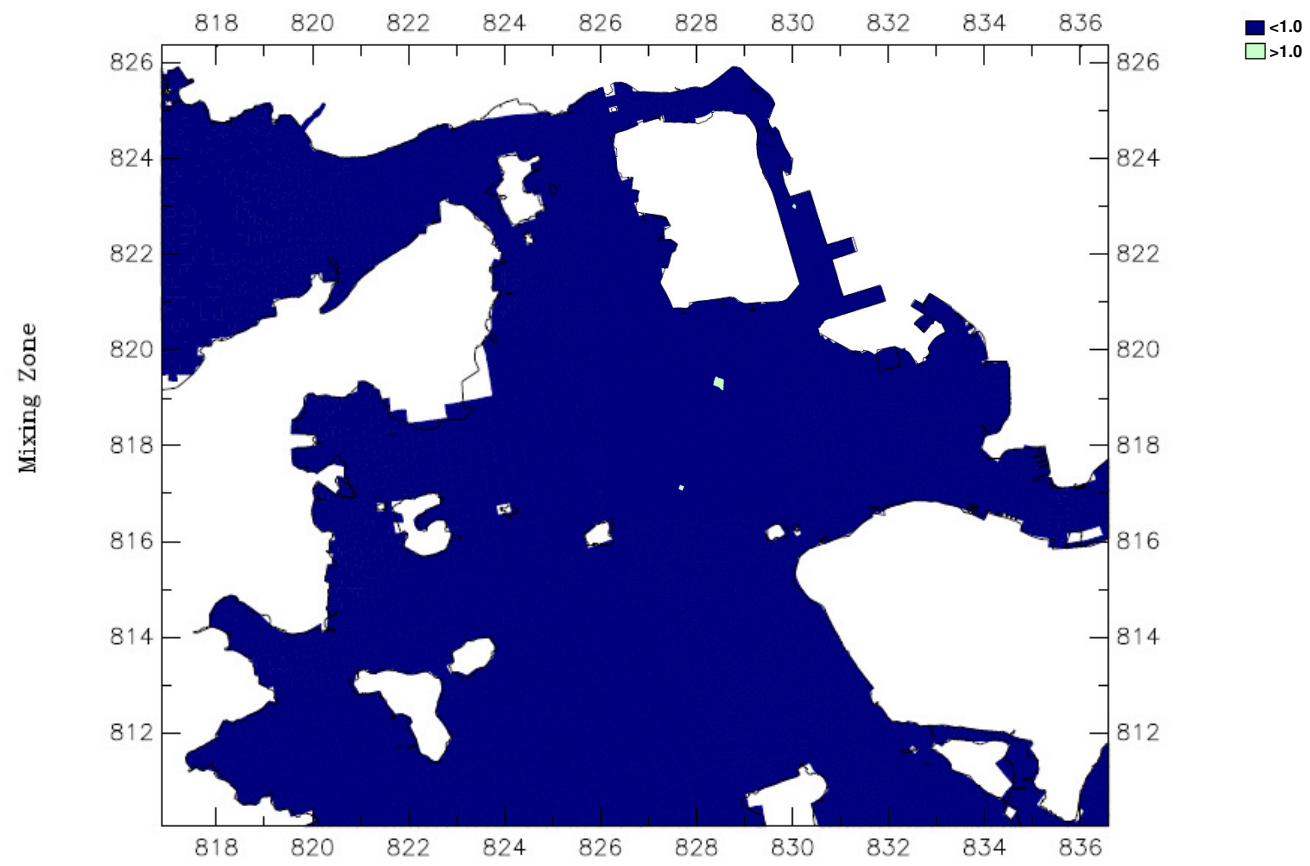
Mott MacDonald Hong Kong Ltd.



Mixing zone for Ammoniacal Nitrogen for Scenario 1 (Mitigated; Dredging rate: 65% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

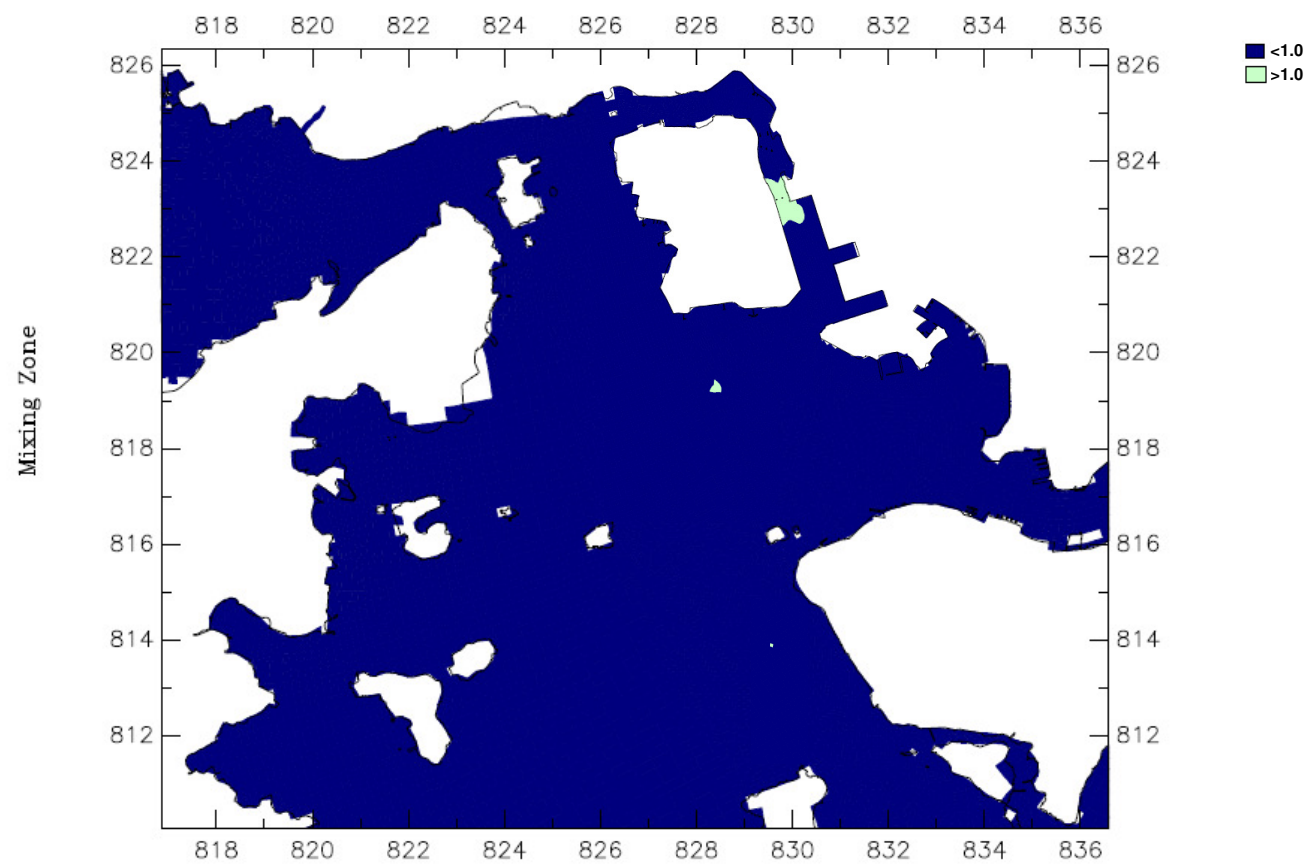
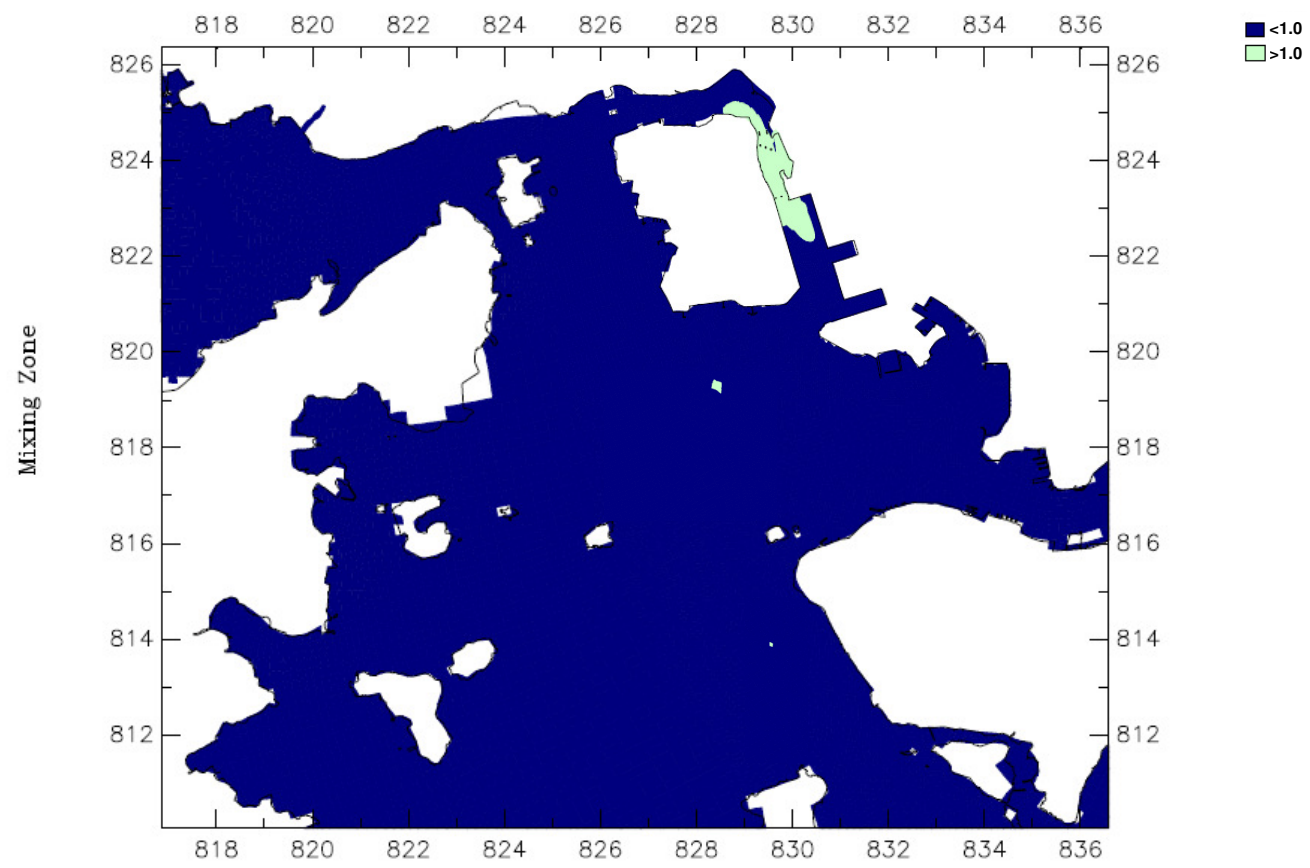


Mixing zone for Ammoniacal Nitrogen for Scenario 1 (Mitigated; Dredging rate: 70% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

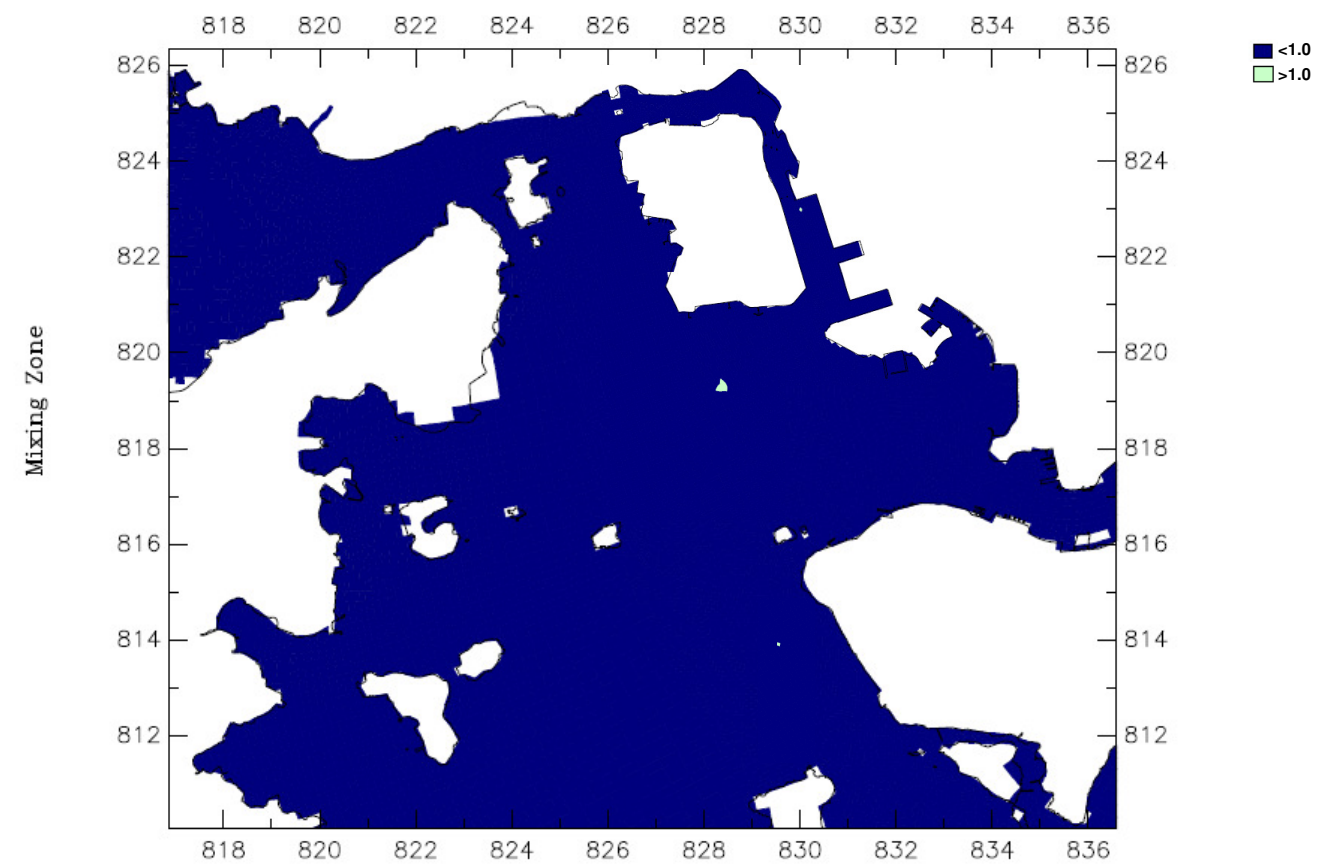
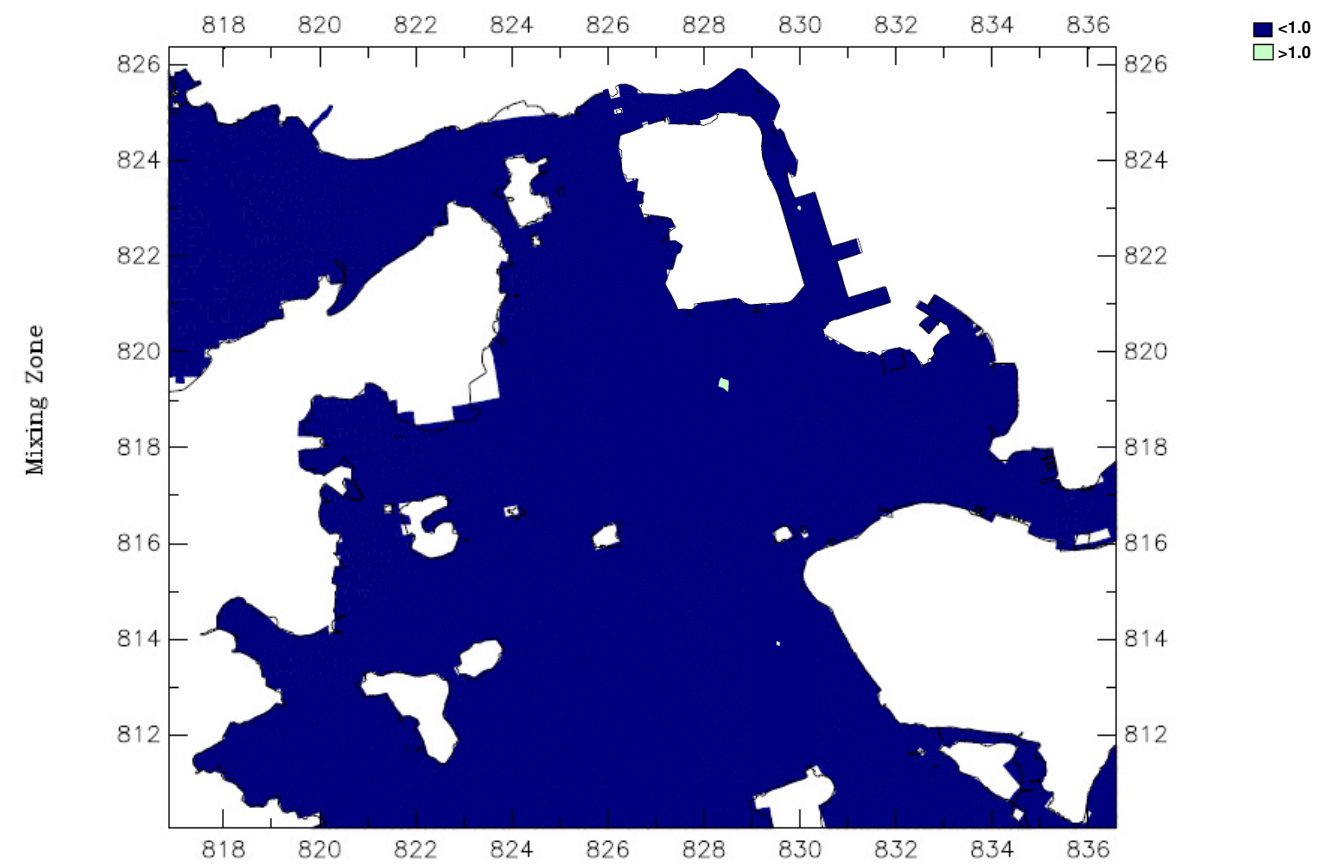




Mixing zone for Ammoniacal Nitrogen for Scenario 2 (Unmitigated)

Upper plot: Dry season; Lower plot: Wet season

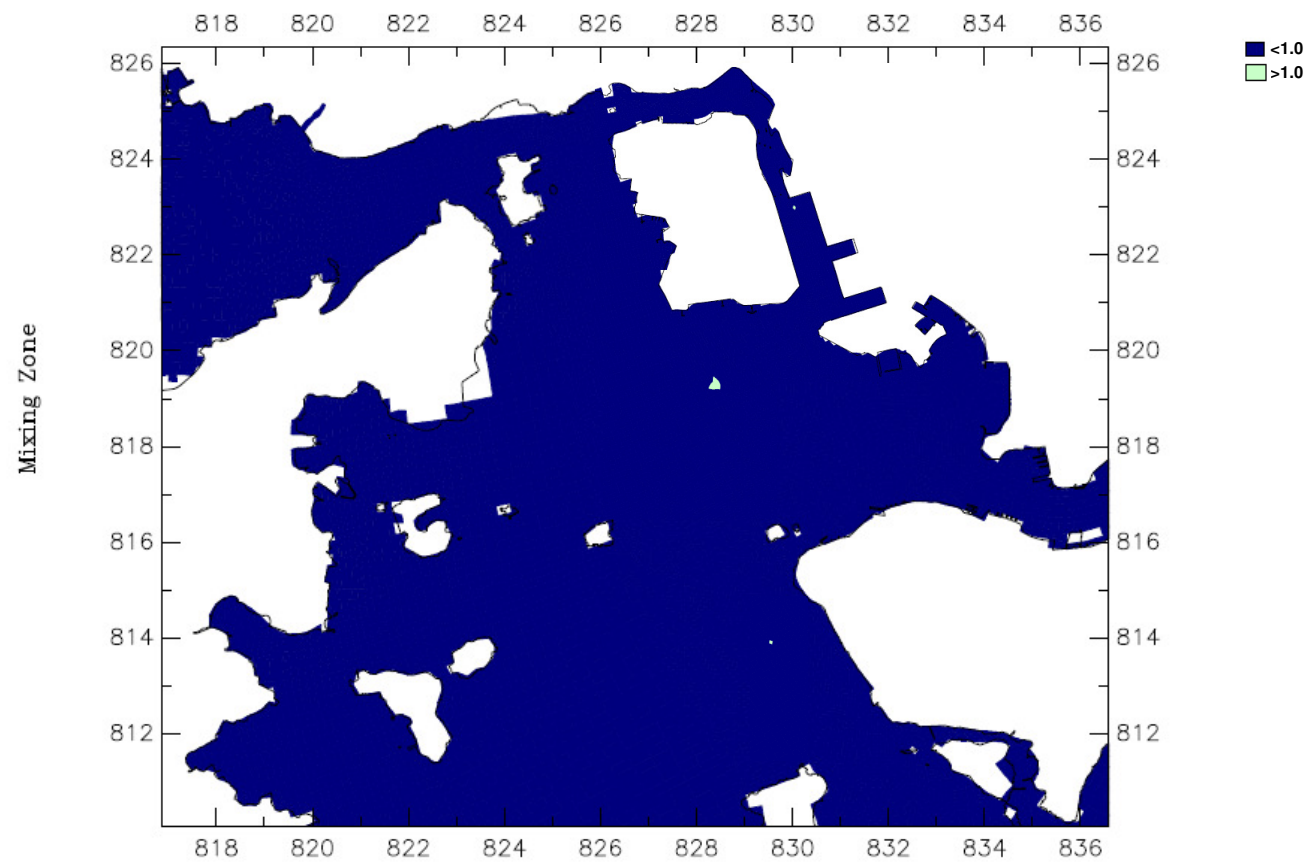
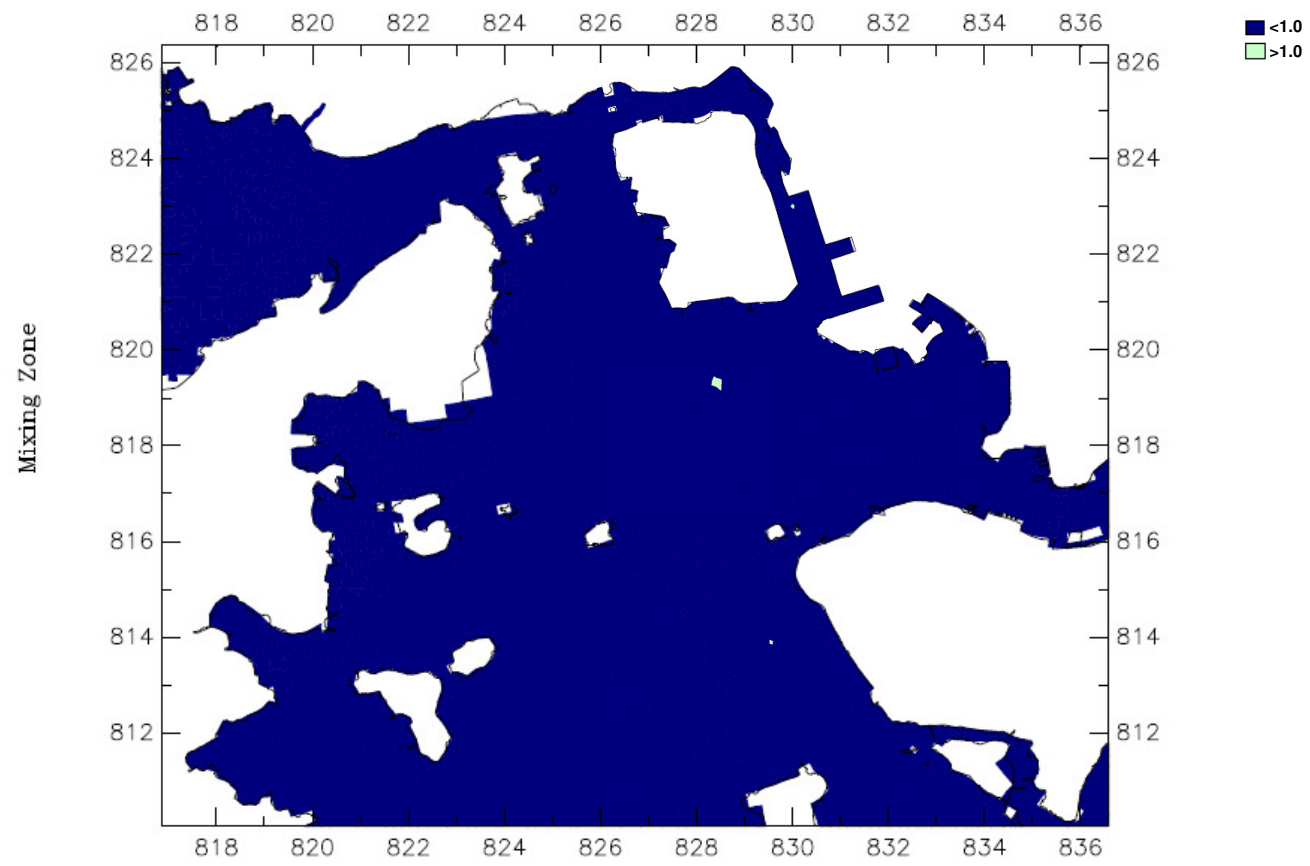
Mott MacDonald Hong Kong Ltd.



Mixing zone for Ammoniacal Nitrogen for Scenario 2 (Mitigated; Dredging rate: 65% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

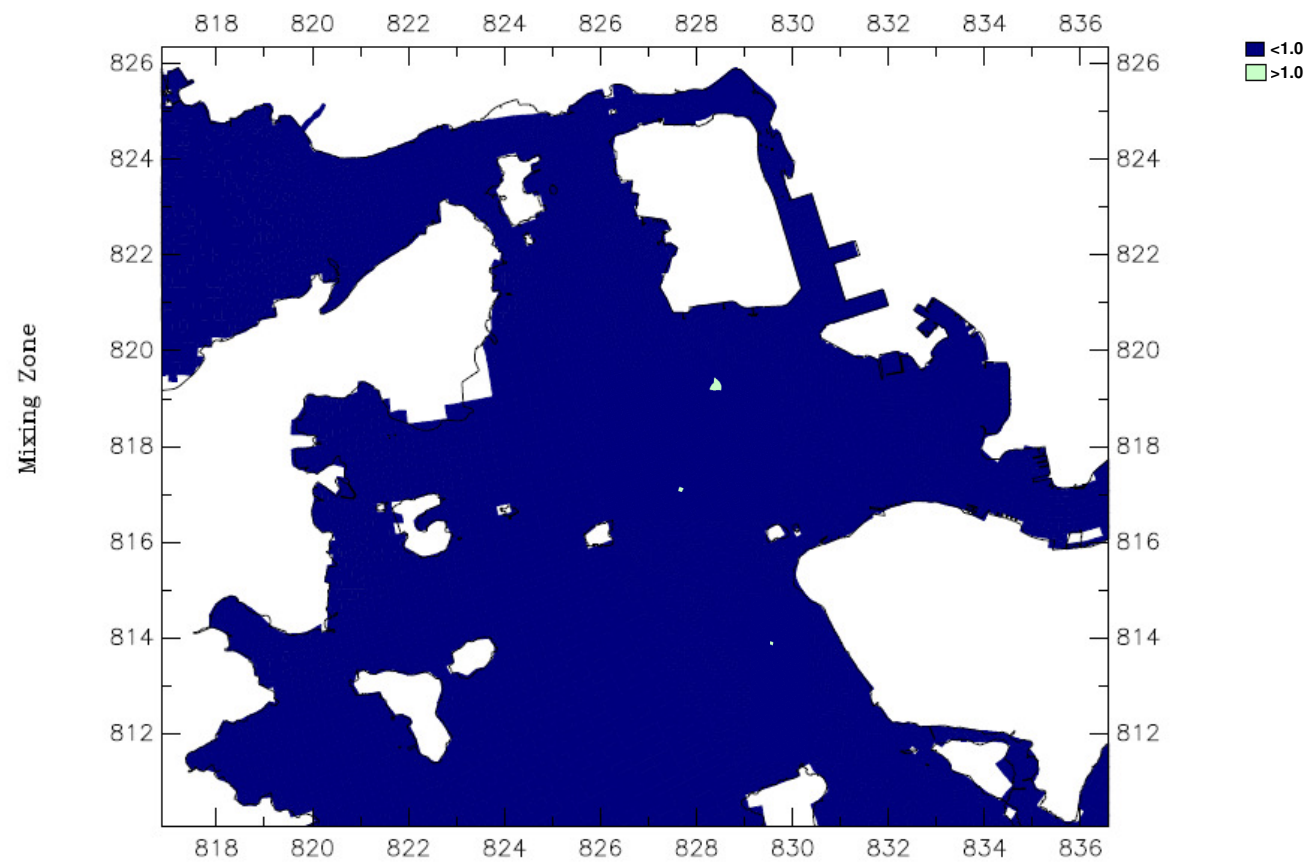
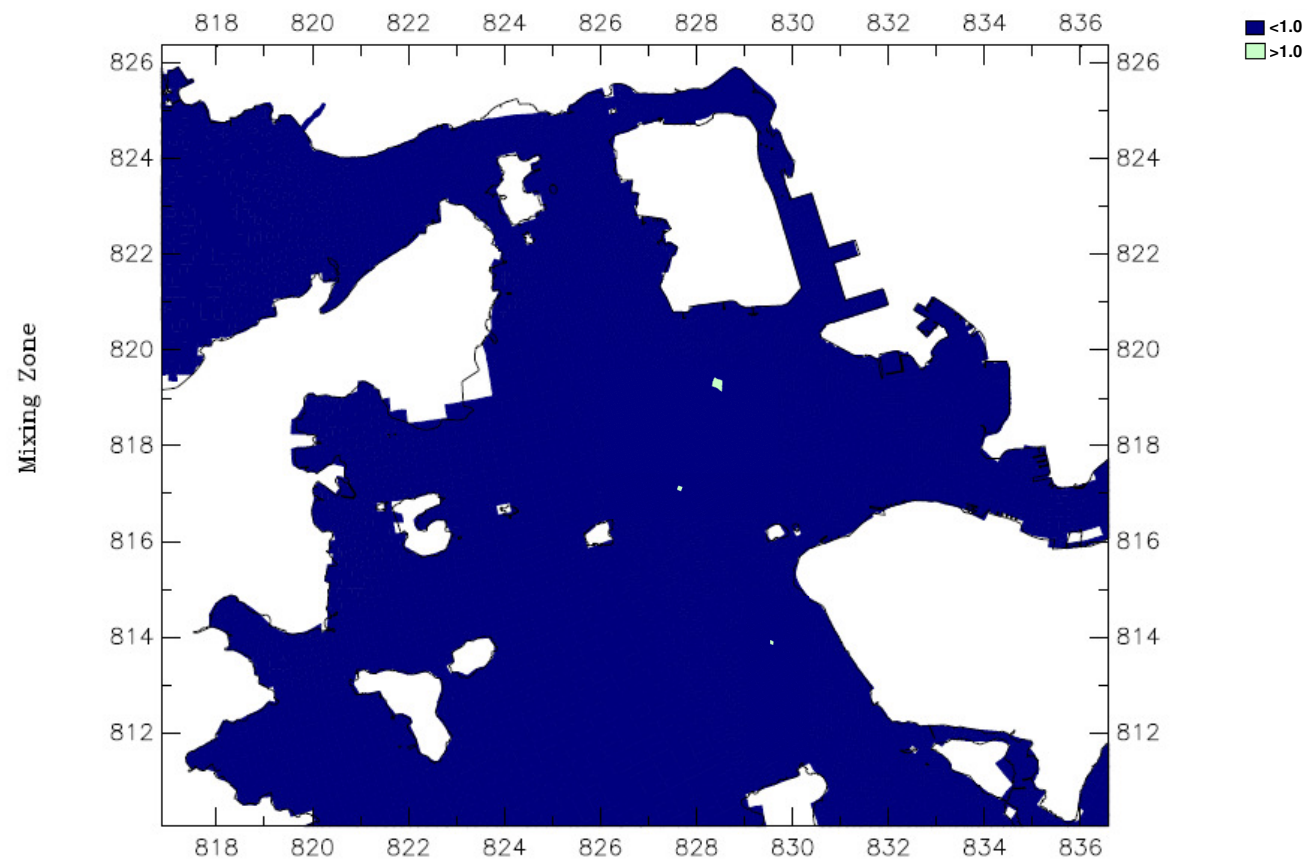


Mixing zone for Ammoniacal Nitrogen for Scenario 2 (Mitigated; Dredging rate: 70% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

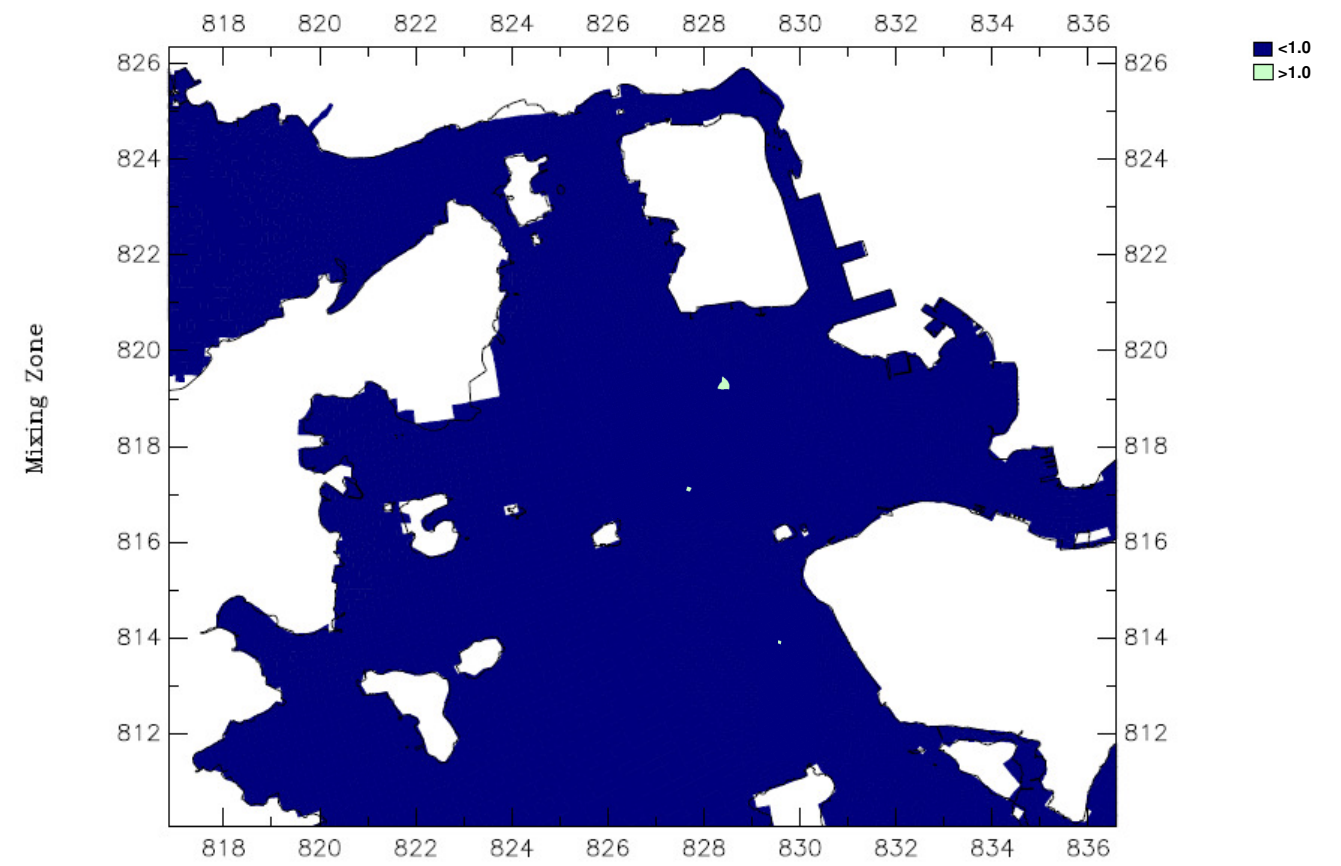
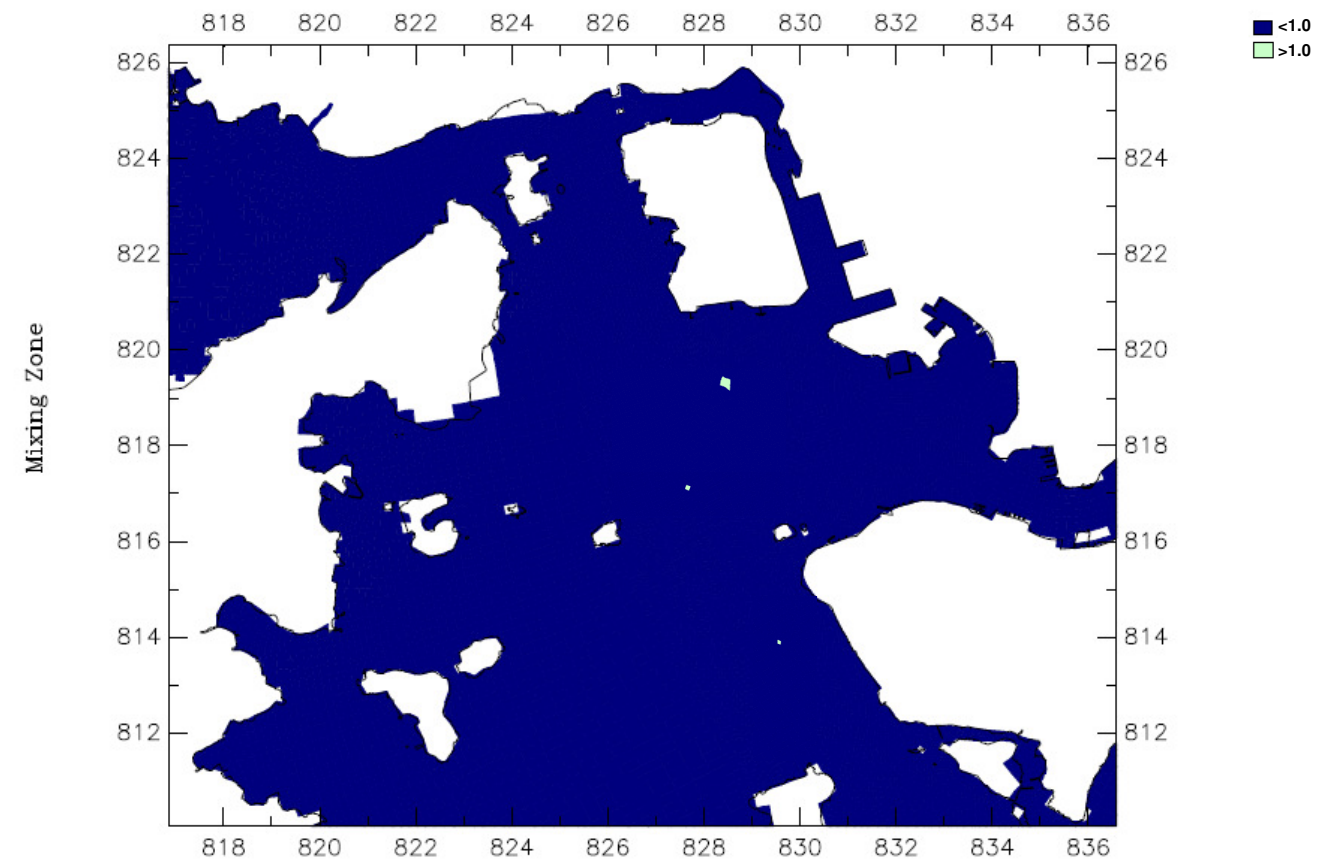




Mixing zone for Ammoniacal Nitrogen for Scenario 3 (Unmitigated)

Upper plot: Dry season; Lower plot: Wet season

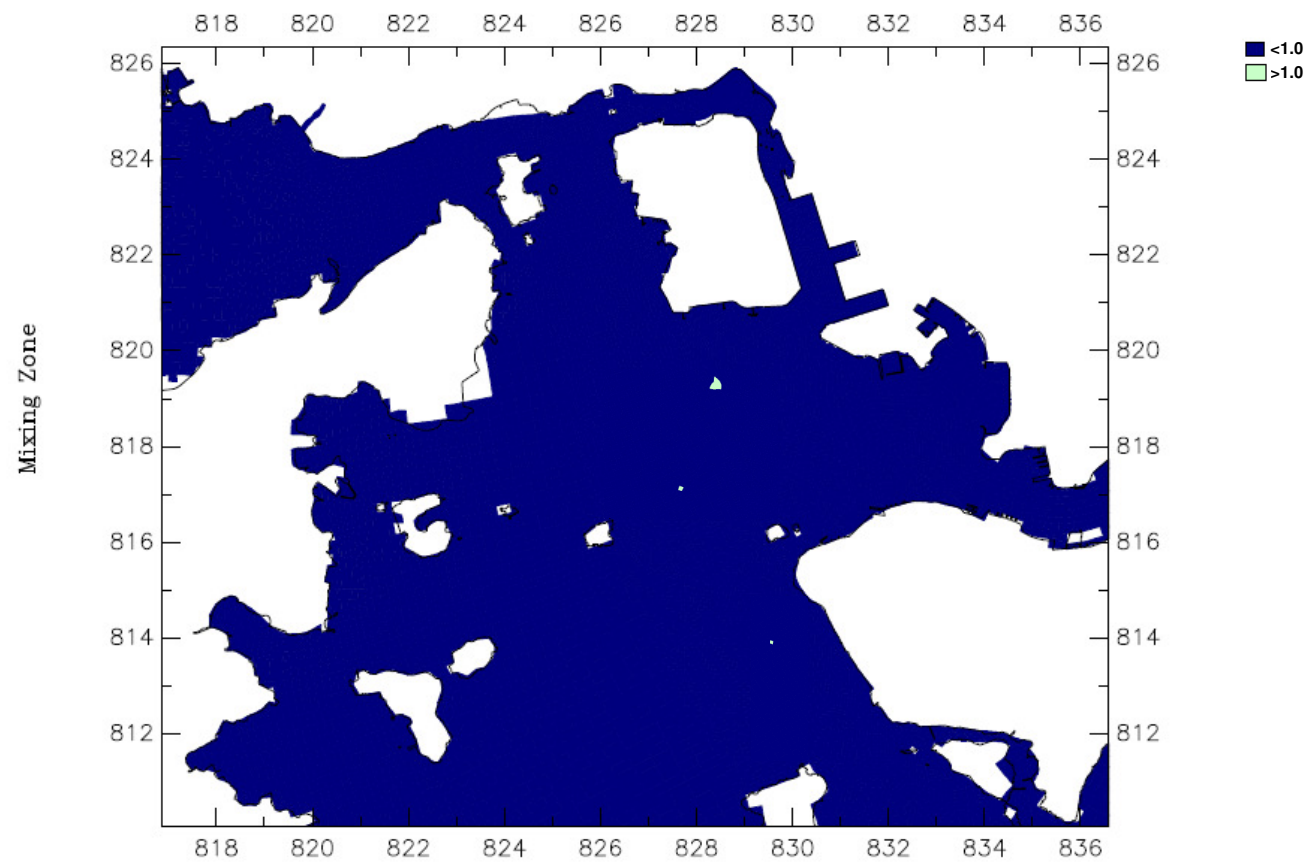
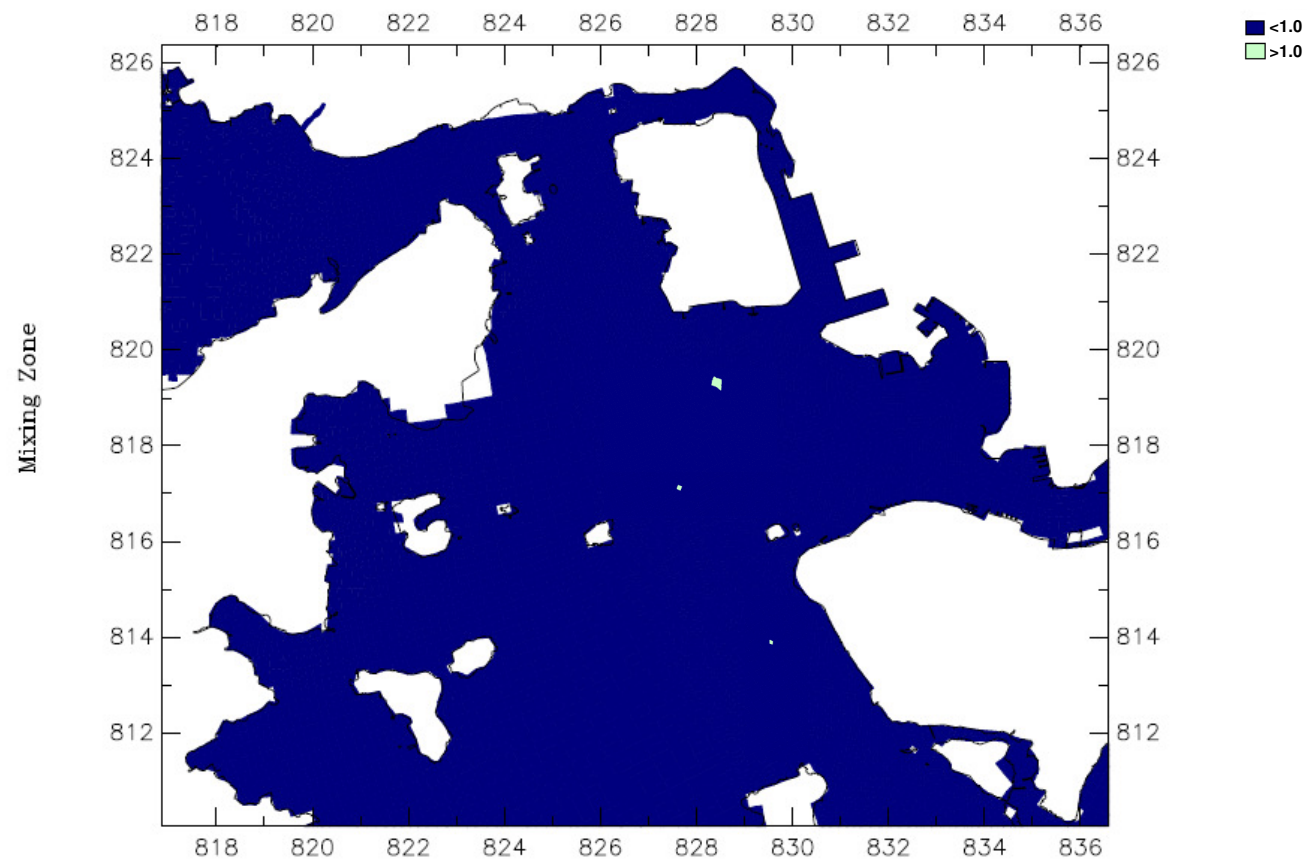
Mott MacDonald Hong Kong Ltd.



Mixing zone for Ammoniacal Nitrogen for Scenario 3 (Mitigated; Dredging rate: 65% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

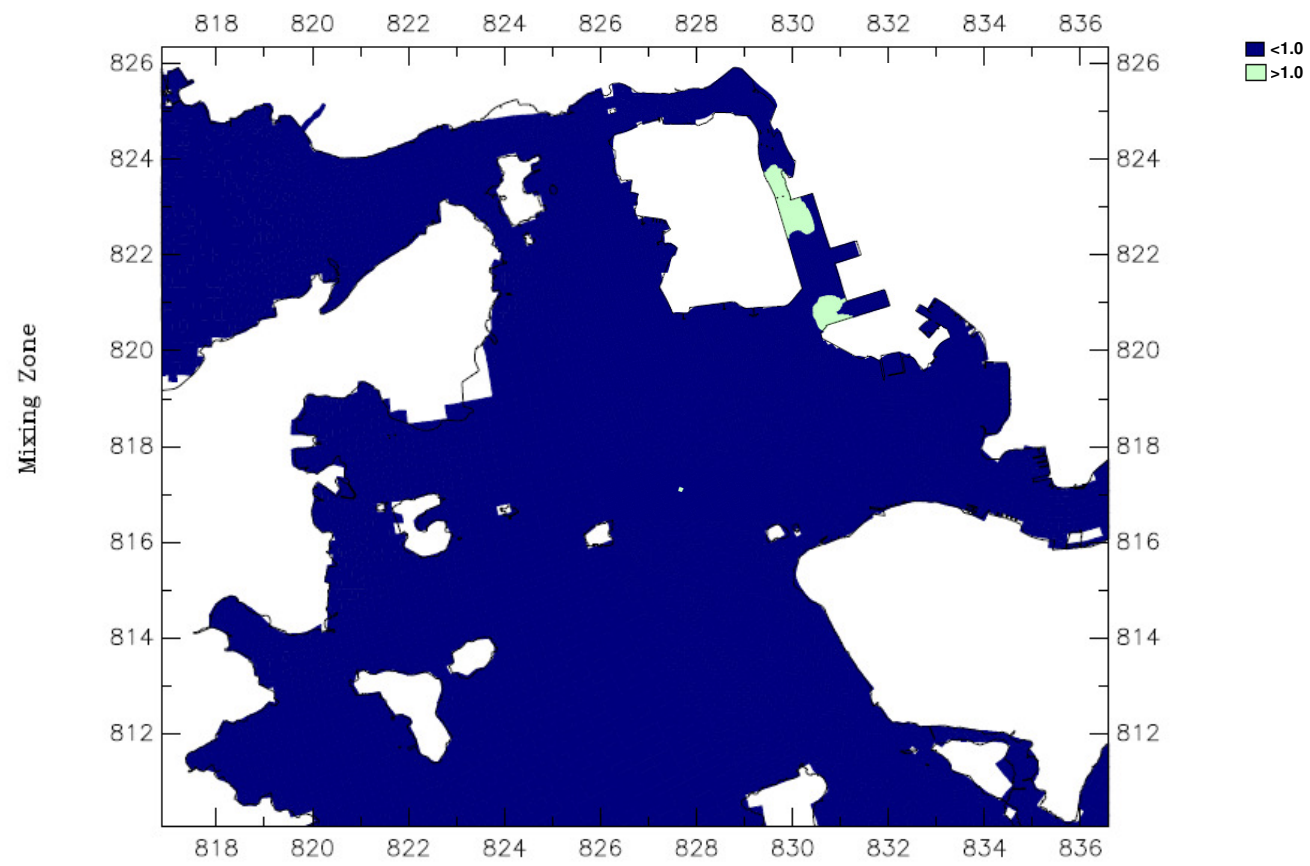
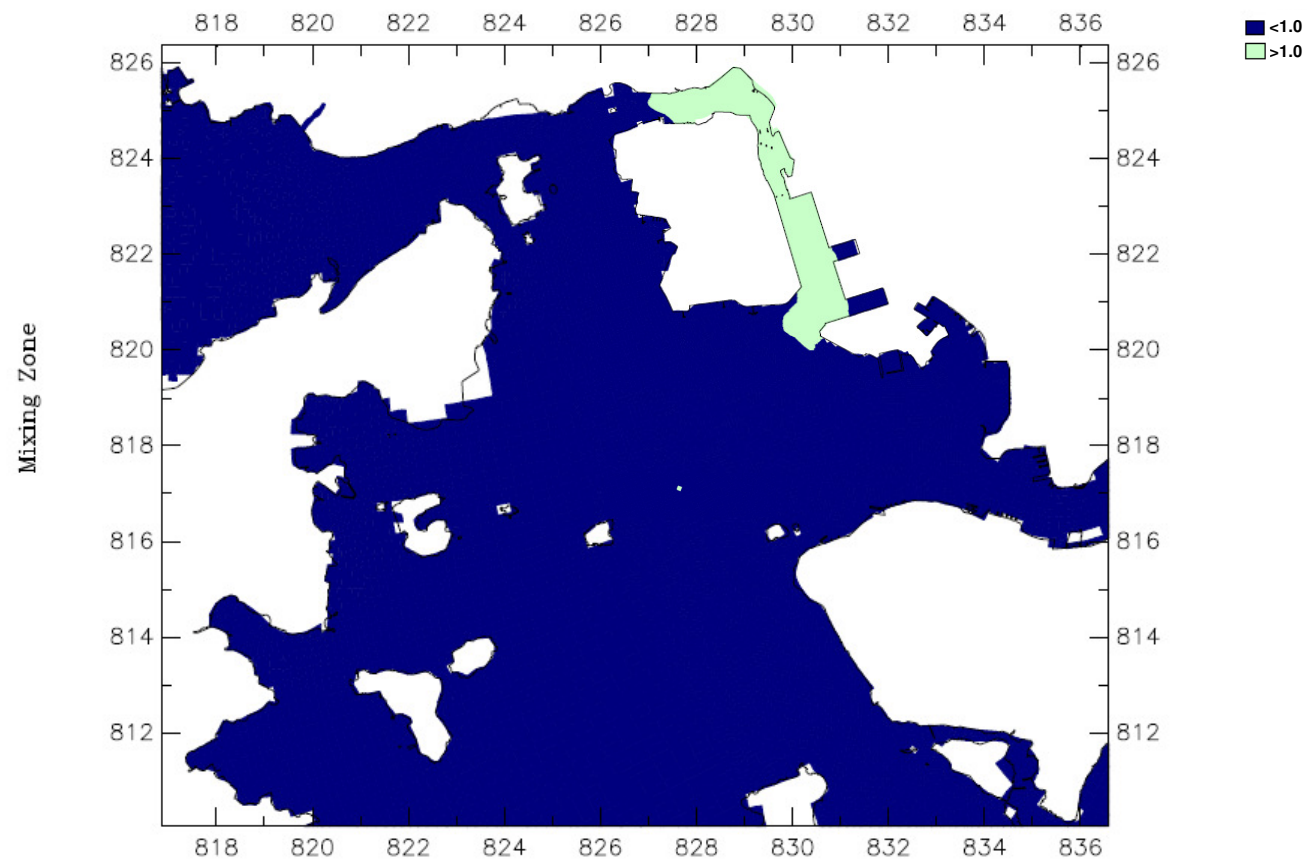


Mixing zone for Ammoniacal Nitrogen for Scenario 3 (Mitigated; Dredging rate: 70% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

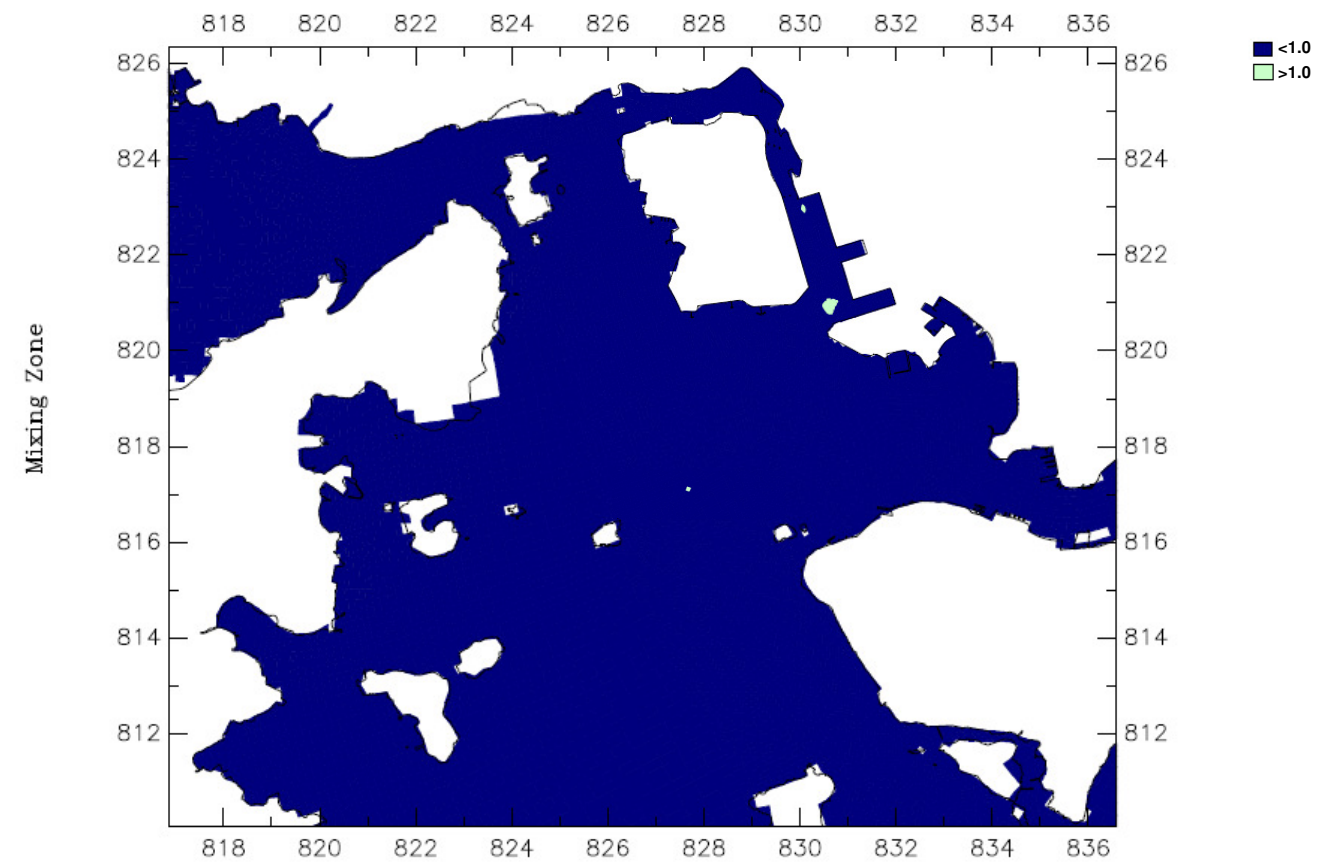
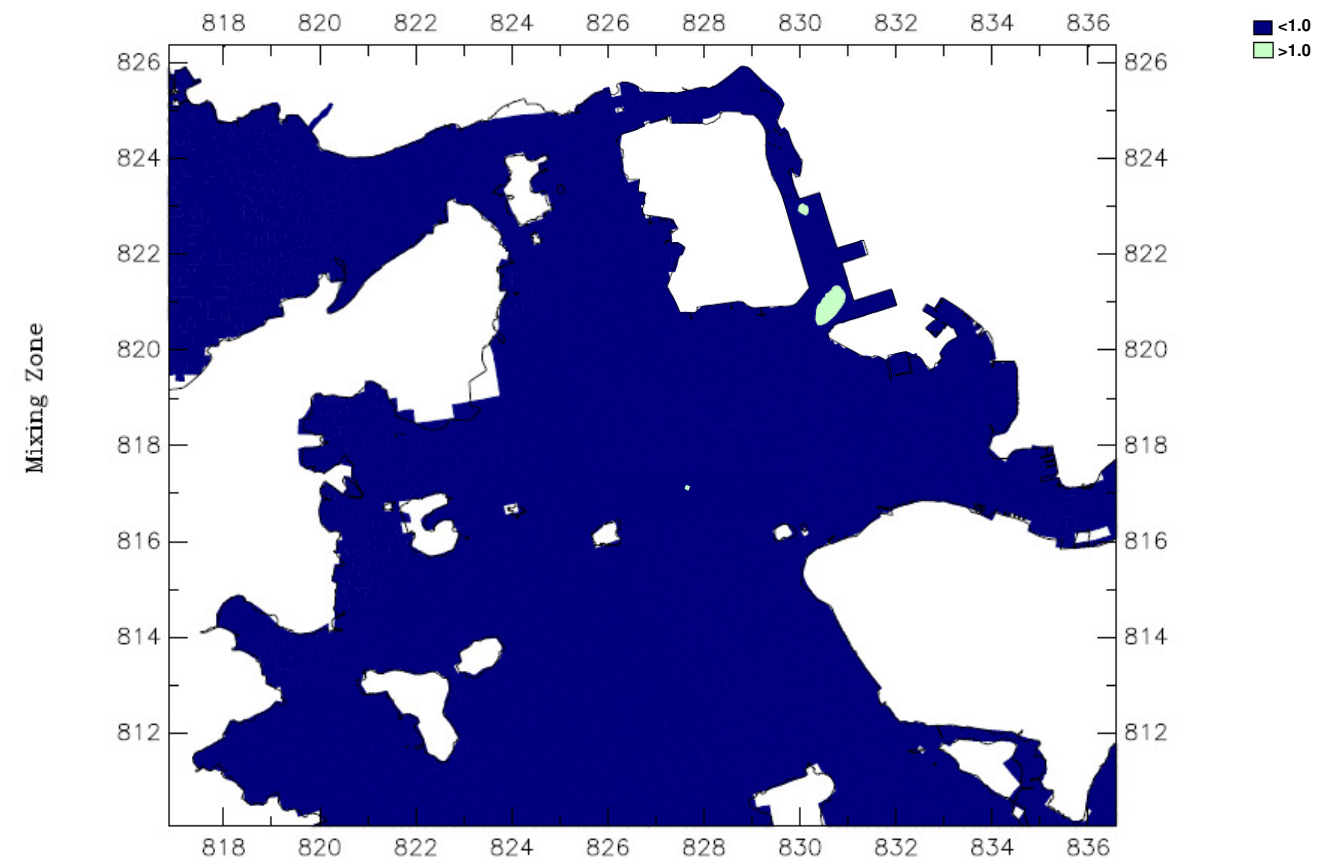




Mixing zone for Ammoniacal Nitrogen for Scenario 4 (Unmitigated)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

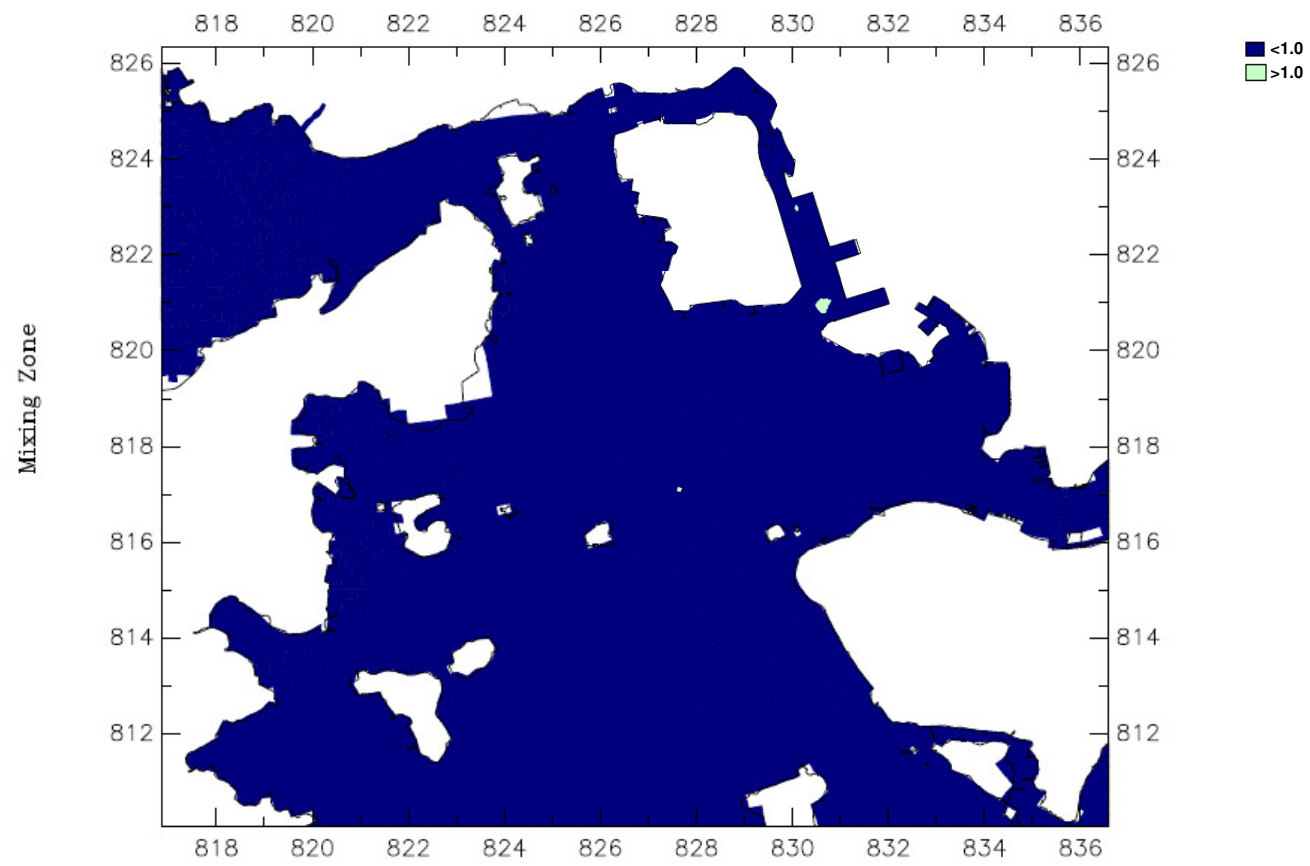
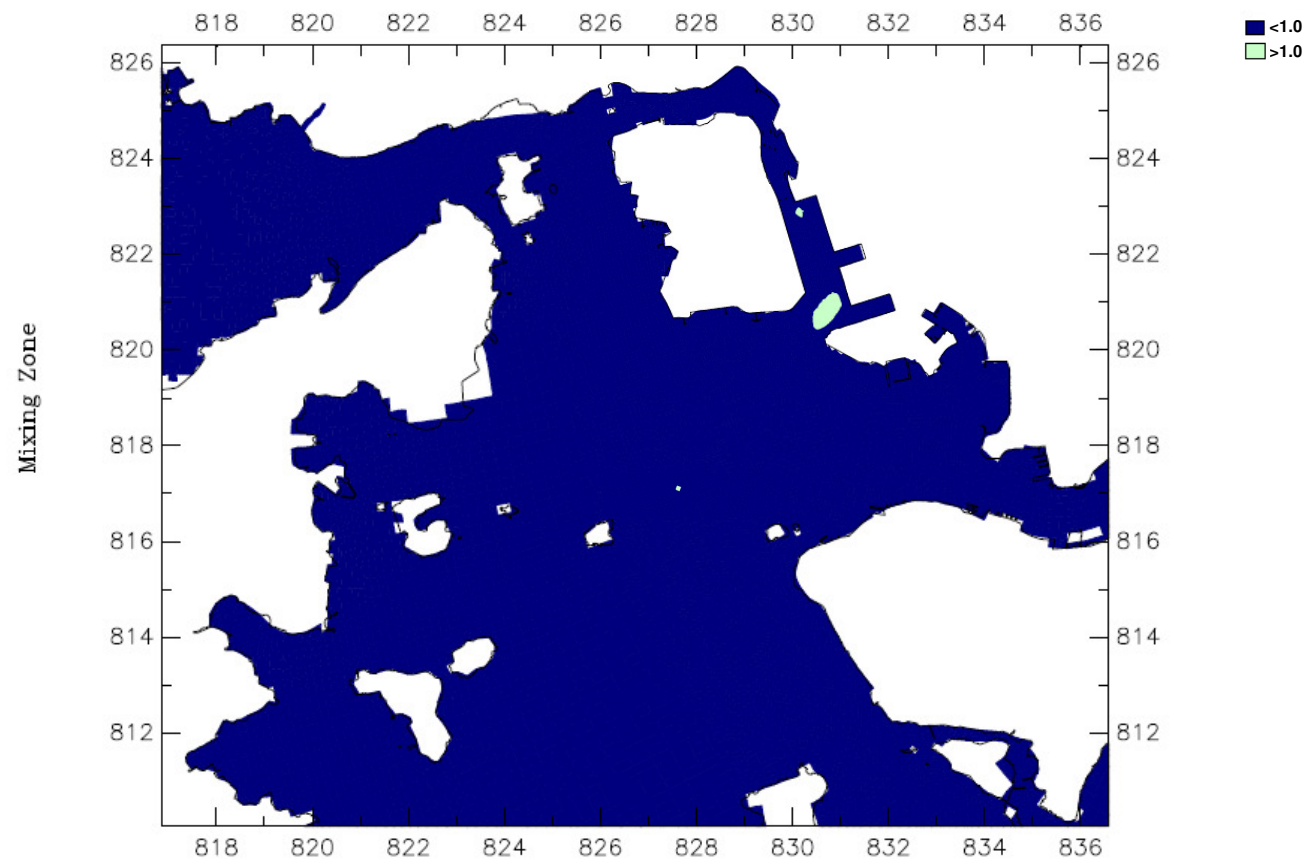


Mixing zone for Ammoniacal Nitrogen for Scenario 4 (Mitigated; Dredging rate: 65% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

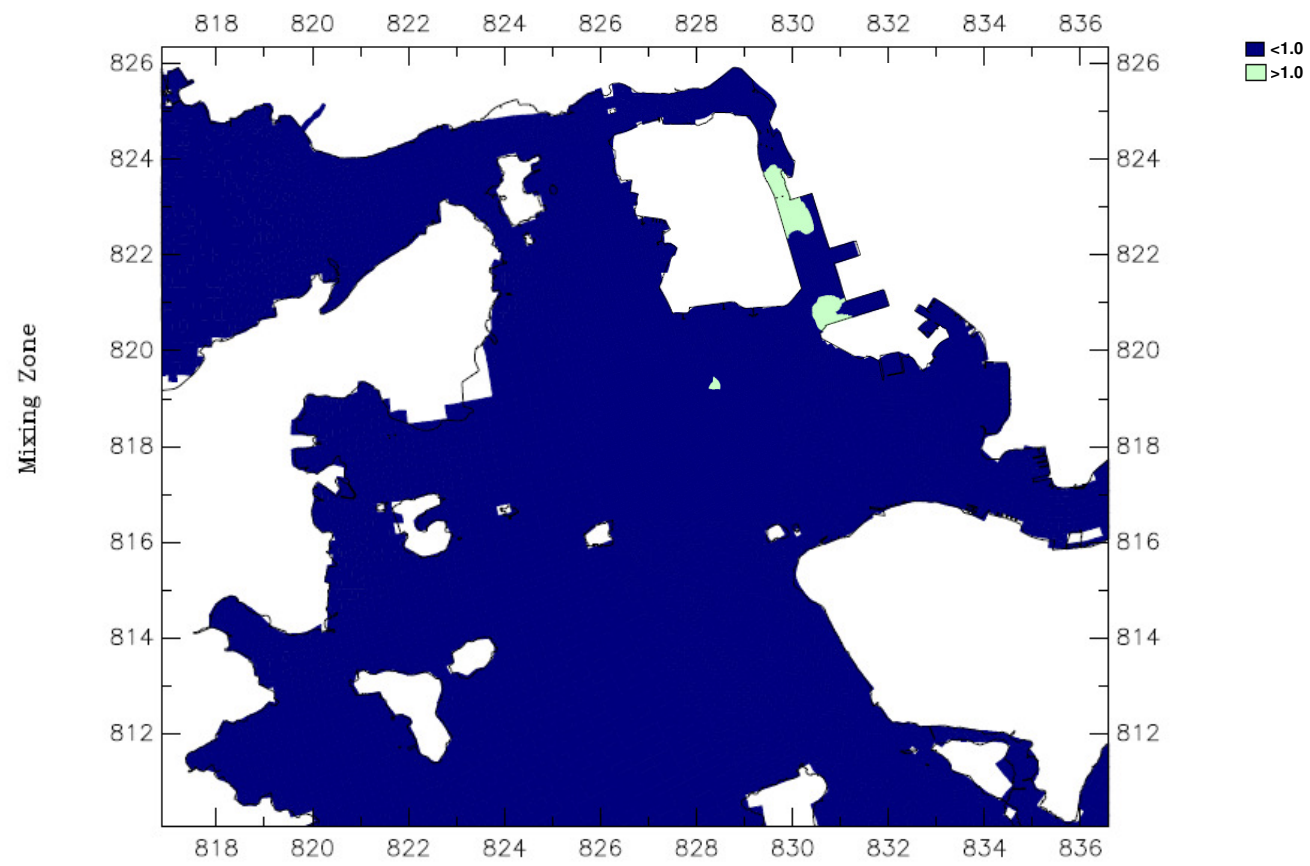
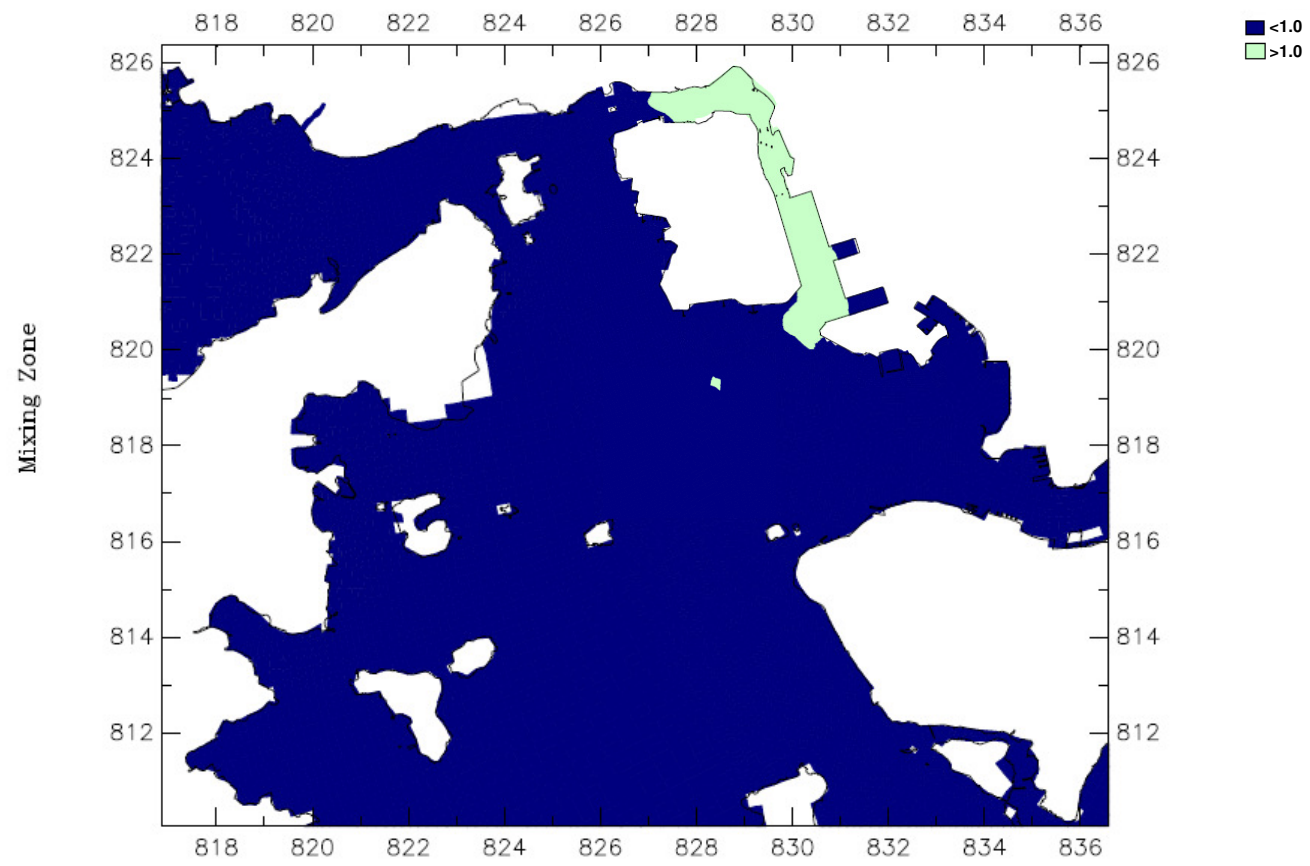




Mixing zone for Ammoniacal Nitrogen for Scenario 4 (Mitigated; Dredging rate: 70% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

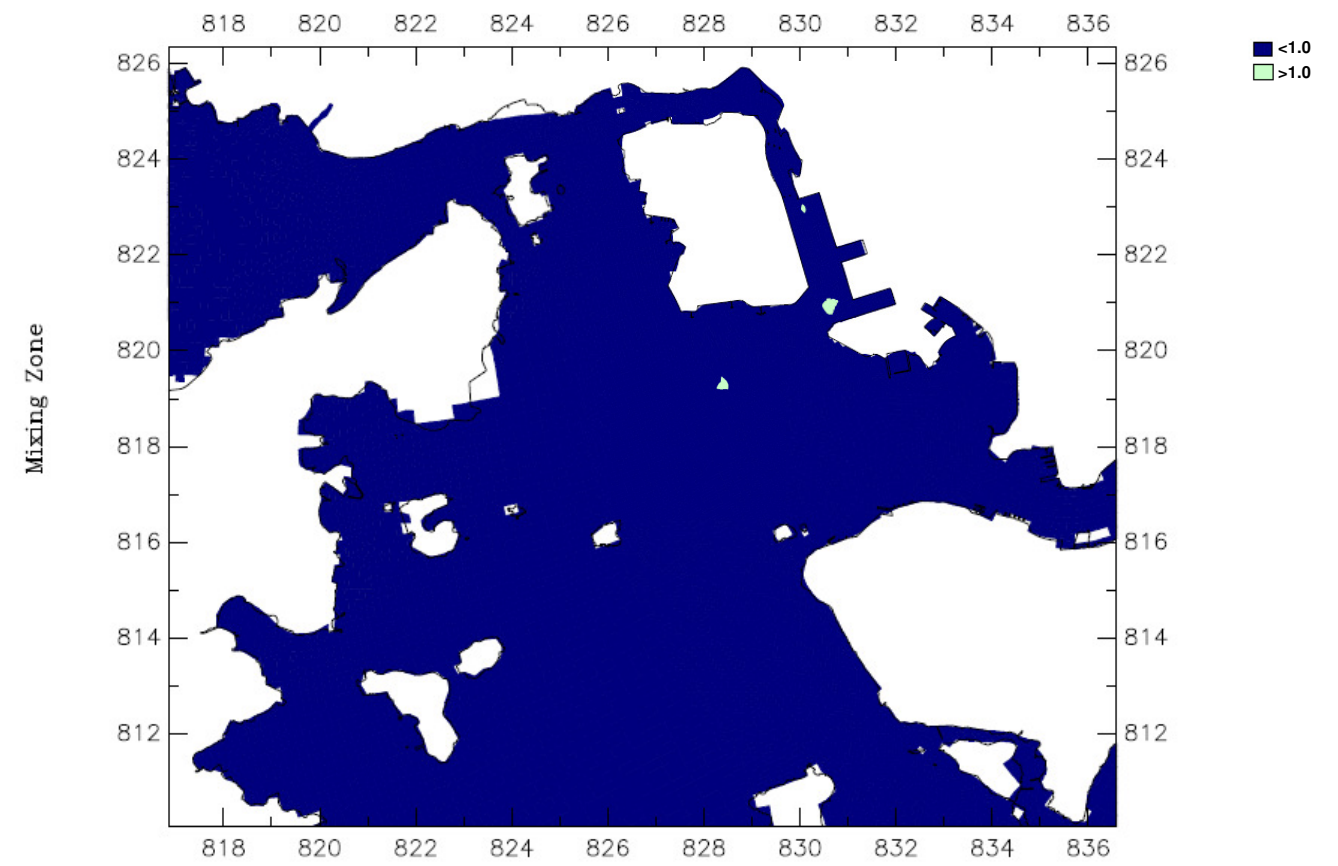
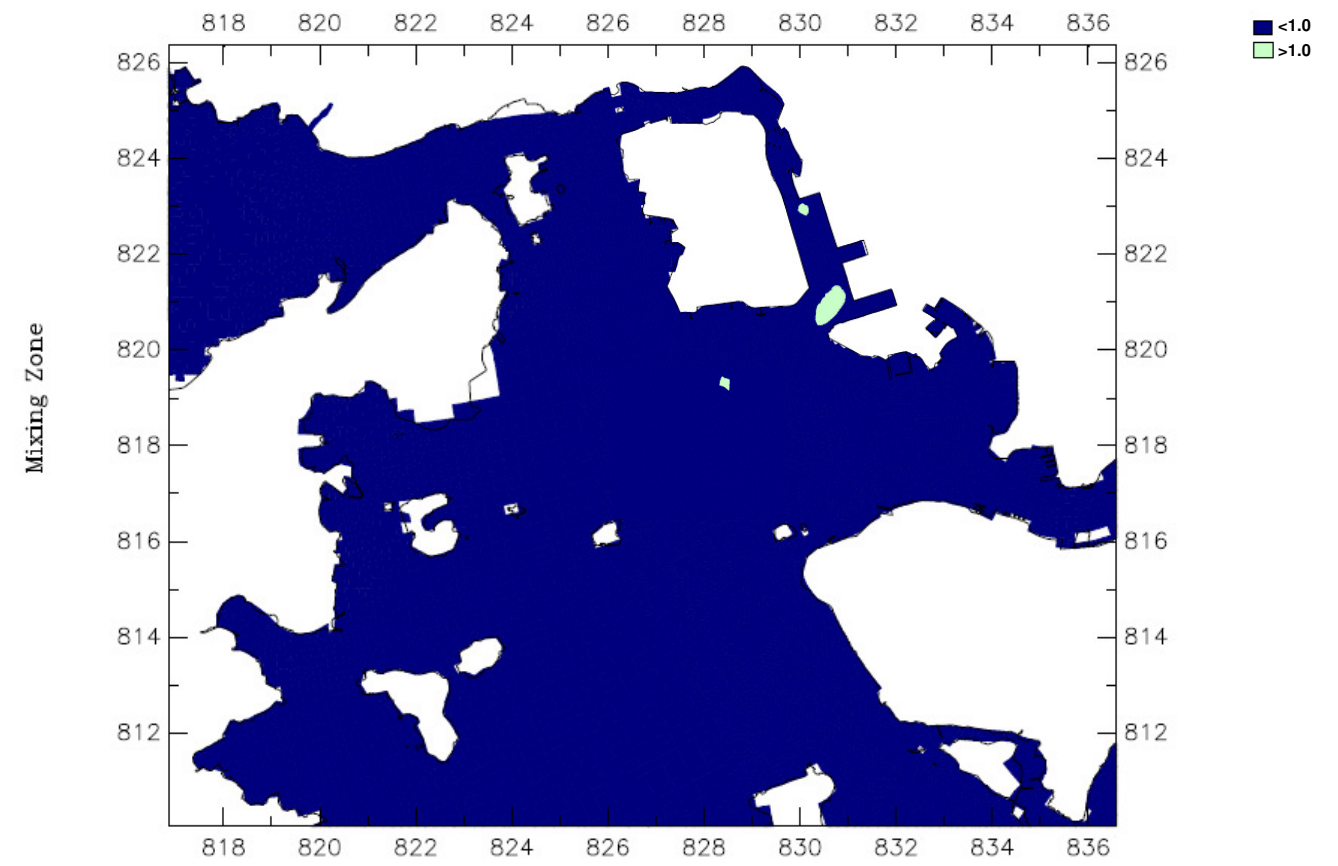
Mott MacDonald Hong Kong Ltd.



Mixing zone for Ammoniacal Nitrogen for Scenario 5 (Unmitigated)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

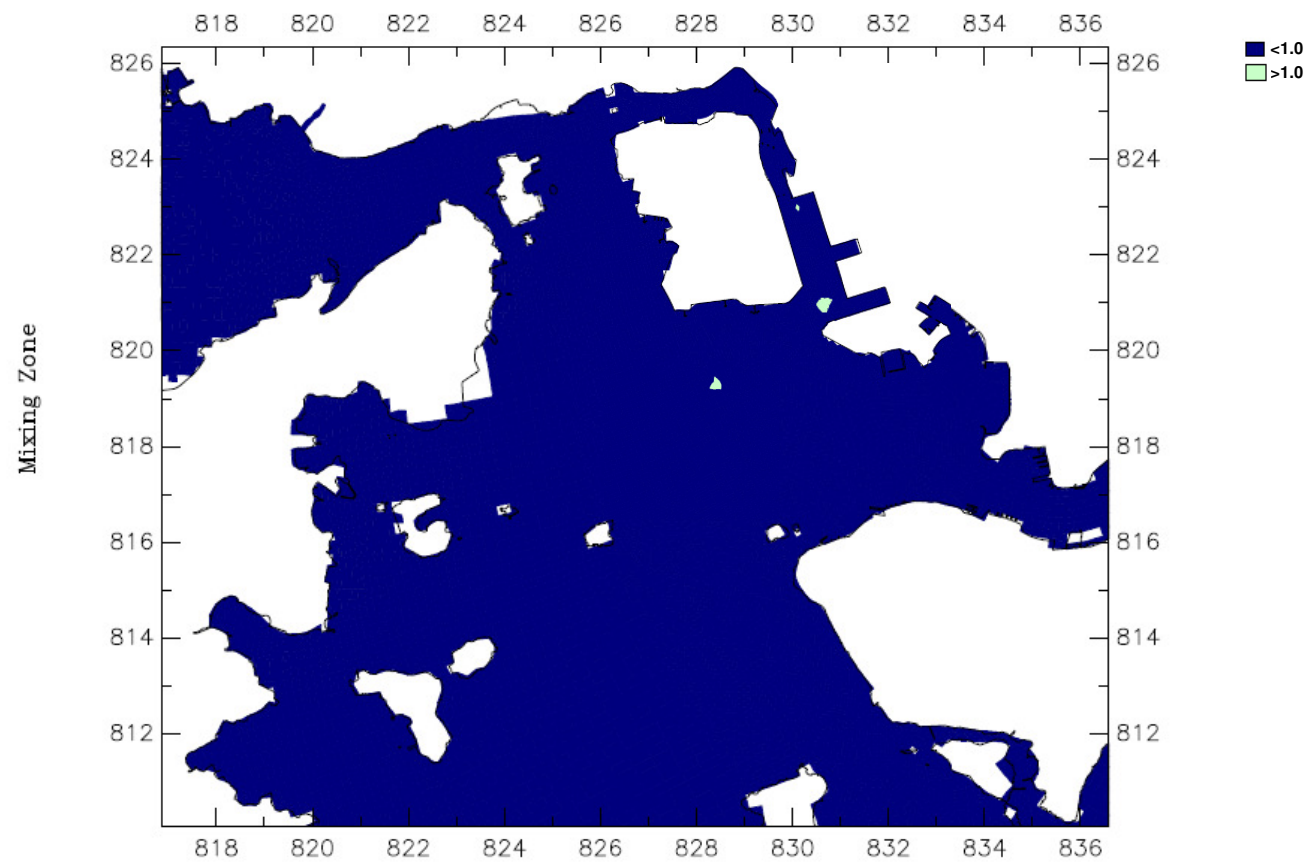
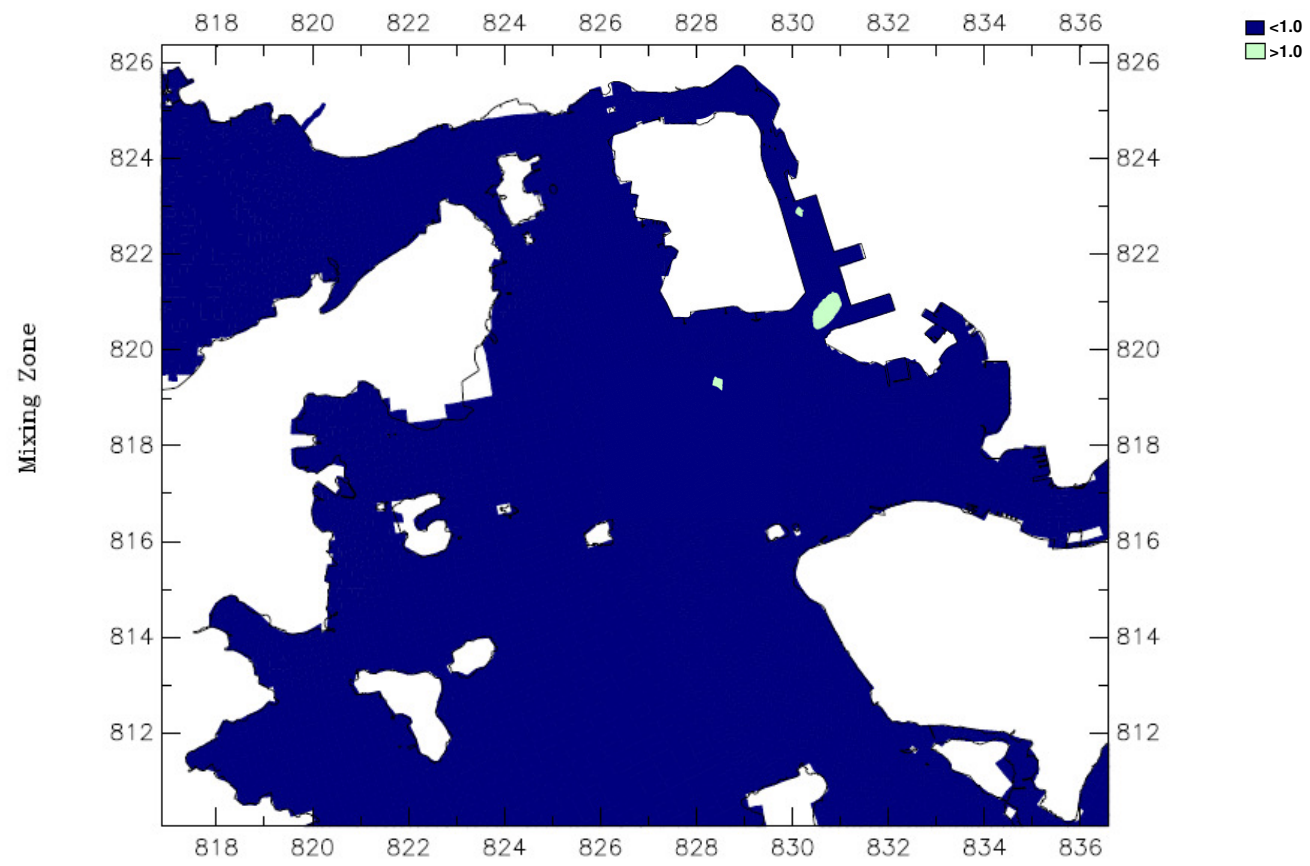


Mixing zone for Ammoniacal Nitrogen for Scenario 5 (Mitigated; Dredging rate: 65% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.





Mixing zone for Ammoniacal Nitrogen for Scenario 5 (Mitigated; Dredging rate: 70% reduction at Source A)

Upper plot: Dry season; Lower plot: Wet season

Mott MacDonald Hong Kong Ltd.

**Appendix 3.11b**

**Mixing Zone for Unionized Ammonia**

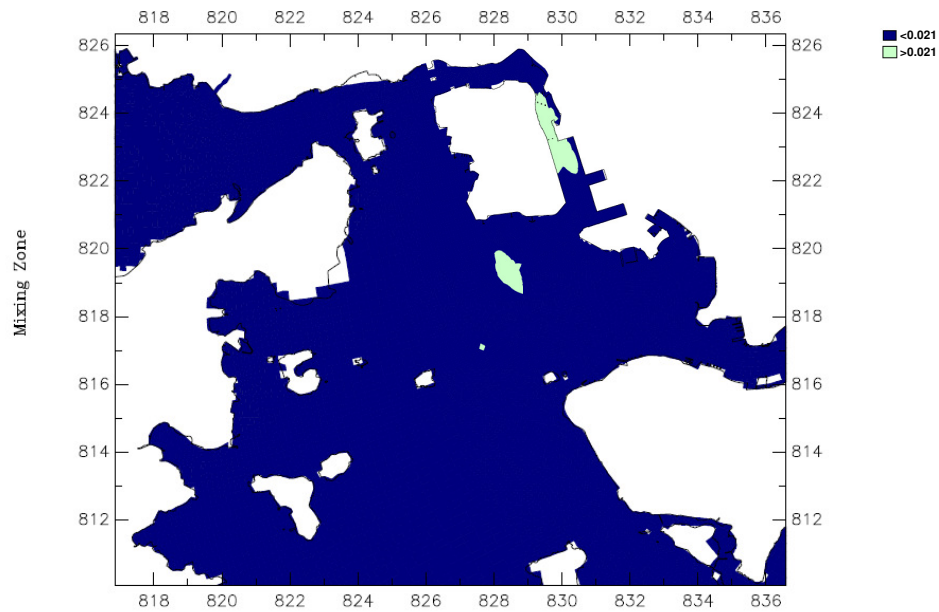
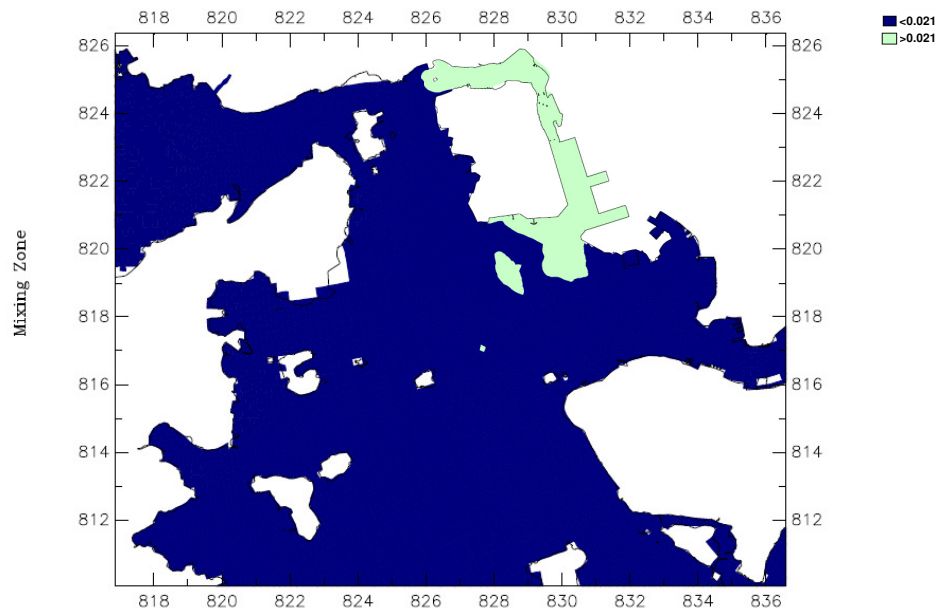
**for Scenario 1-5**

**(Annual Average)**

**(Unmitigated and Mitigated at Source A with  
65% and 70% reduction in dredging rate)**

**(with the excision of S2)**

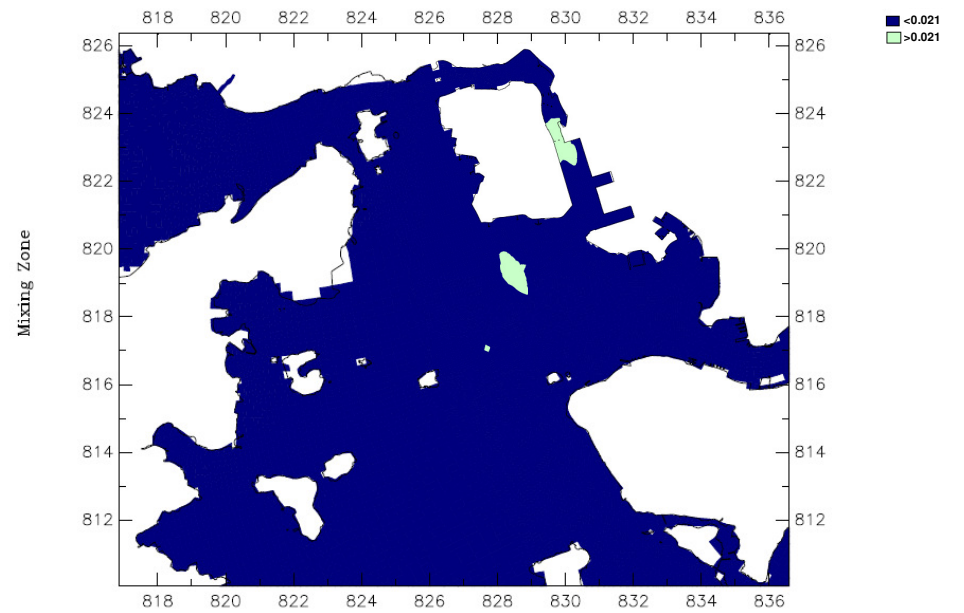




Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 1 (Unmitigated); Lower plot: Scenario 1 (Dredging rate: 65% reduction at Source A)

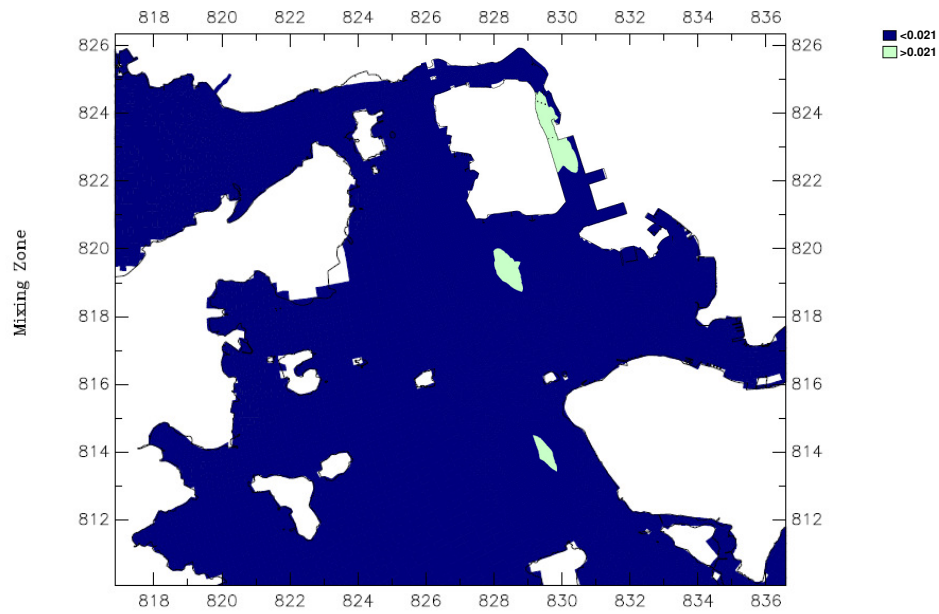
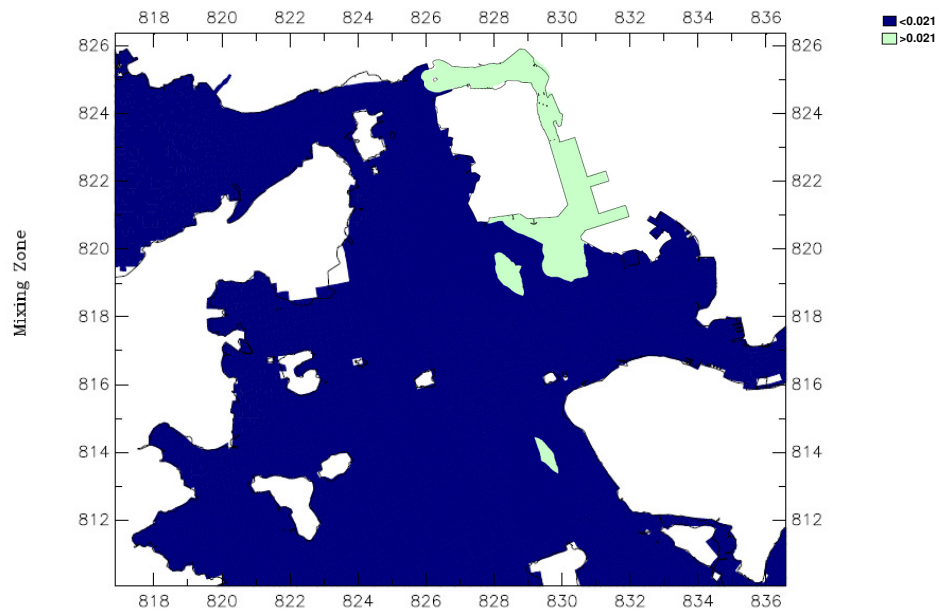
Mott MacDonald Hong Kong Ltd.



Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 1 (Dredging rate: 70% reduction at Source A)

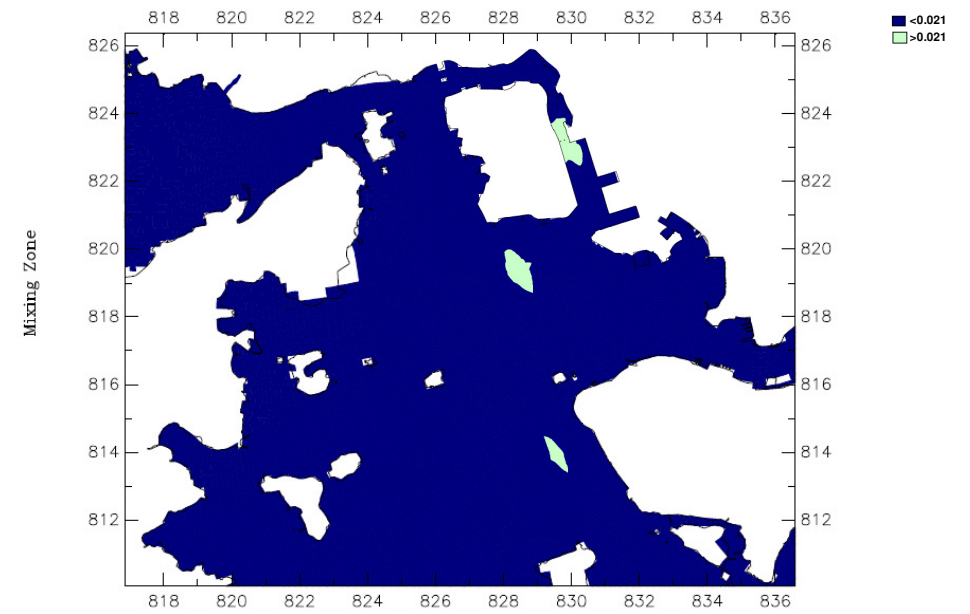
Mott MacDonald Hong Kong Ltd.



Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 2 (Unmitigated); Lower plot: Scenario 2 (Dredging rate: 65% reduction at Source A)

Mott MacDonald Hong Kong Ltd.

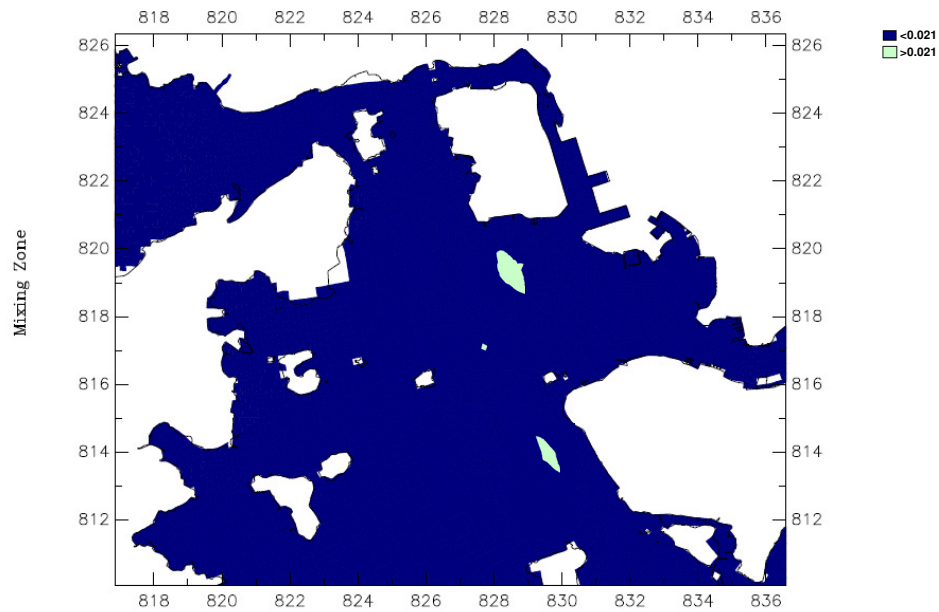
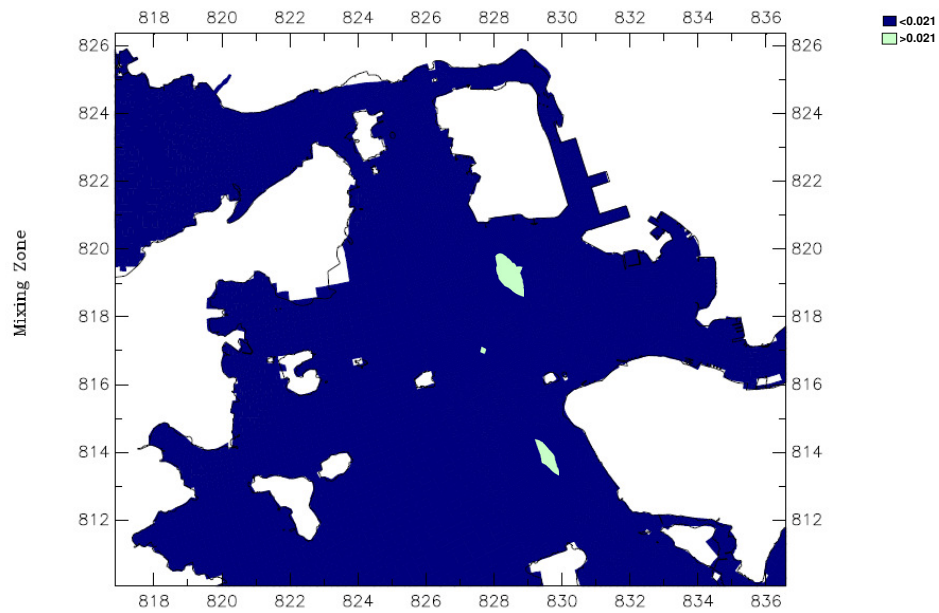


Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 2 (Dredging rate: 70% reduction at Source A)

Mott MacDonald Hong Kong Ltd.

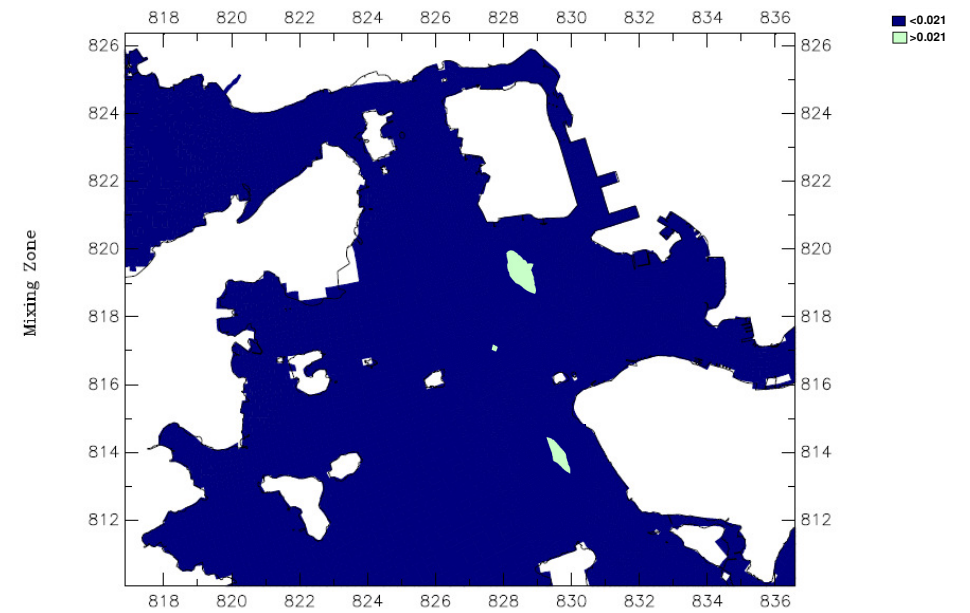




Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 3 (Unmitigated); Lower plot: Scenario 3 (Dredging rate: 65% reduction at Source A)

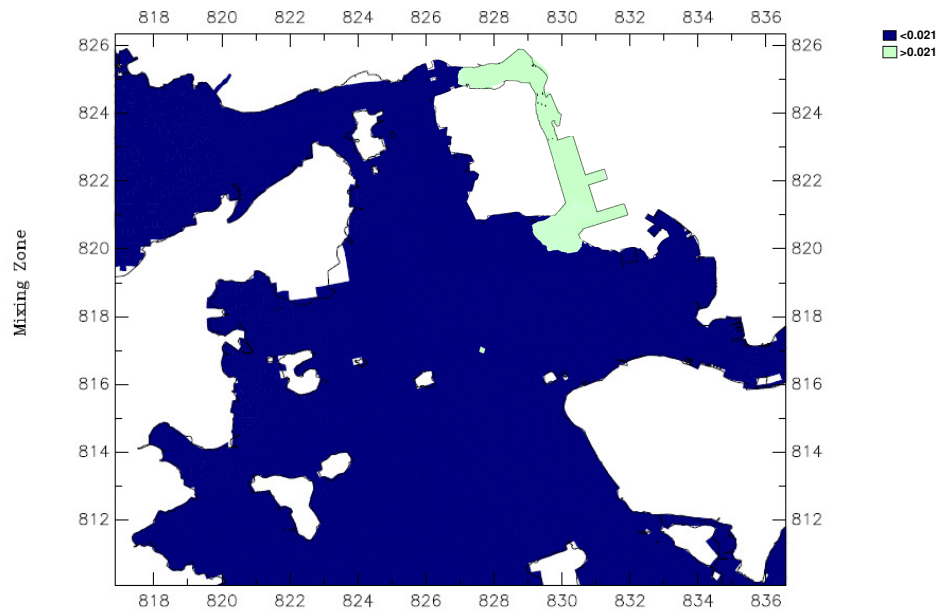
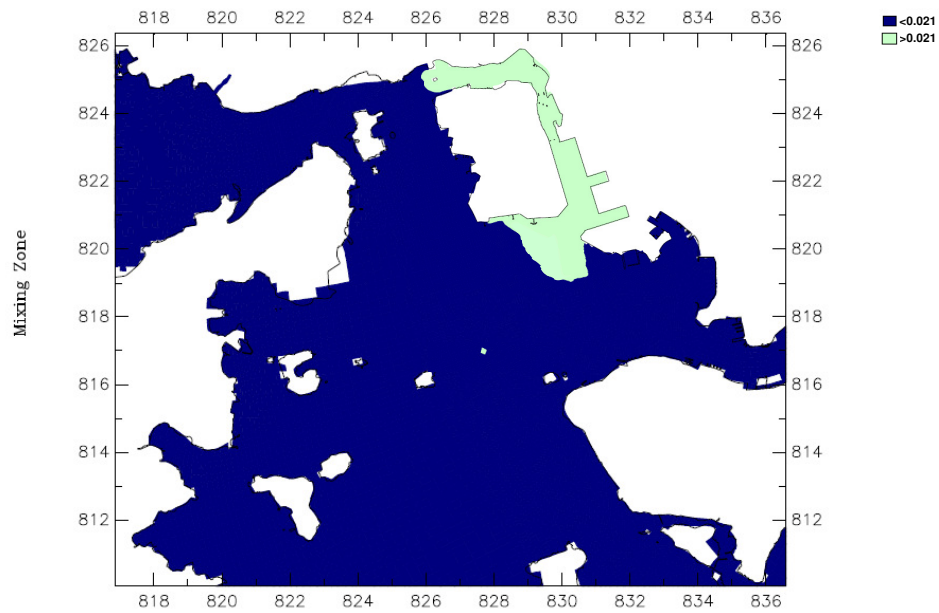
Mott MacDonald Hong Kong Ltd.



Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 3 (Dredging rate: 70% reduction at Source A)

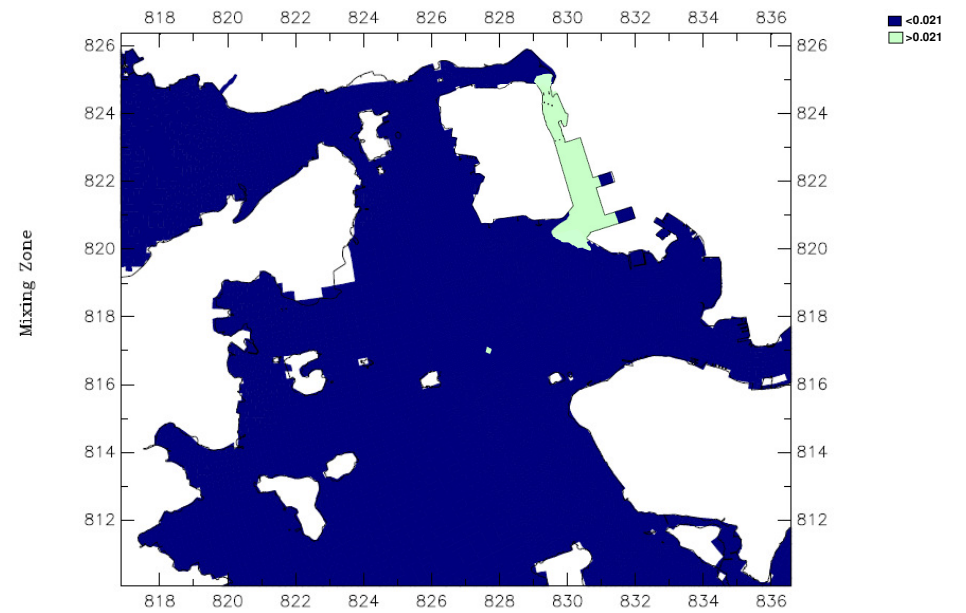
Mott MacDonald Hong Kong Ltd.



Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 4 (Unmitigated); Lower plot: Scenario 4 (Dredging rate: 65% reduction at Source A)

Mott MacDonald Hong Kong Ltd.

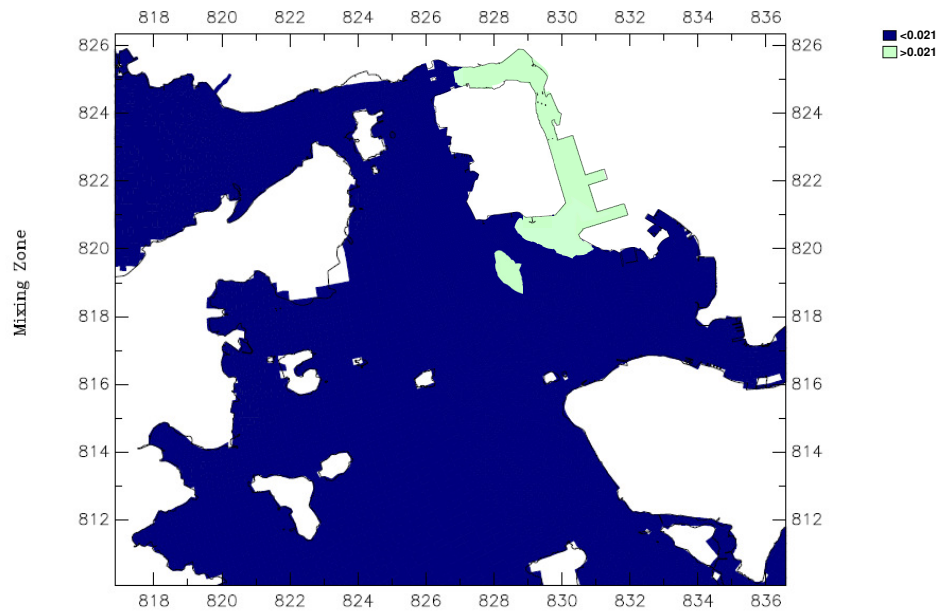
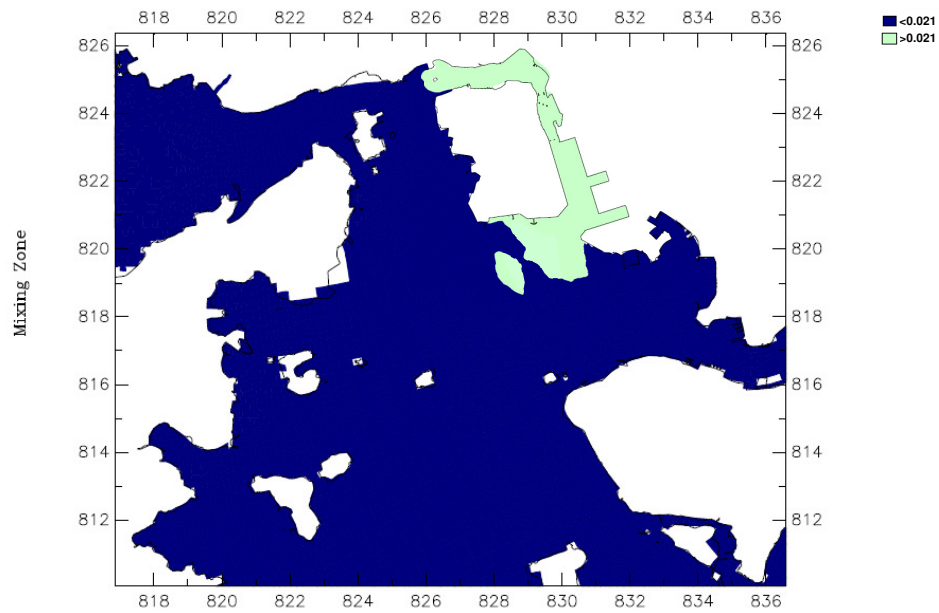


Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 4 (Dredging rate: 70% reduction at Source A)

Mott MacDonald Hong Kong Ltd.

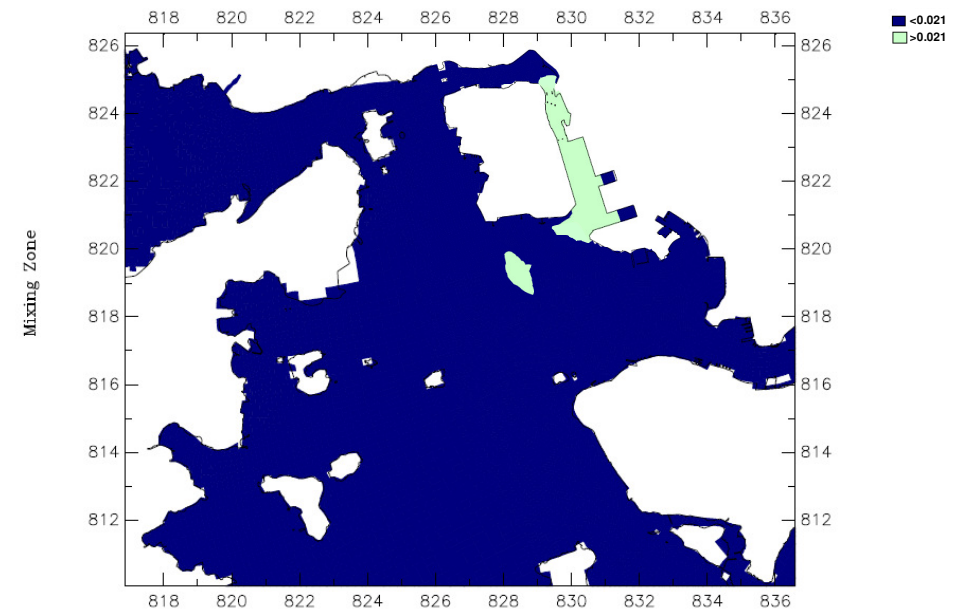




Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 5 (Unmitigated); Lower plot: Scenario 5 (Dredging rate: 65% reduction at Source A)

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Mixing zone for Unionized Ammonia (annual average)

Upper plot: Scenario 5 (Dredging rate: 70% reduction at Source A)

Mott MacDonald Hong Kong Ltd.