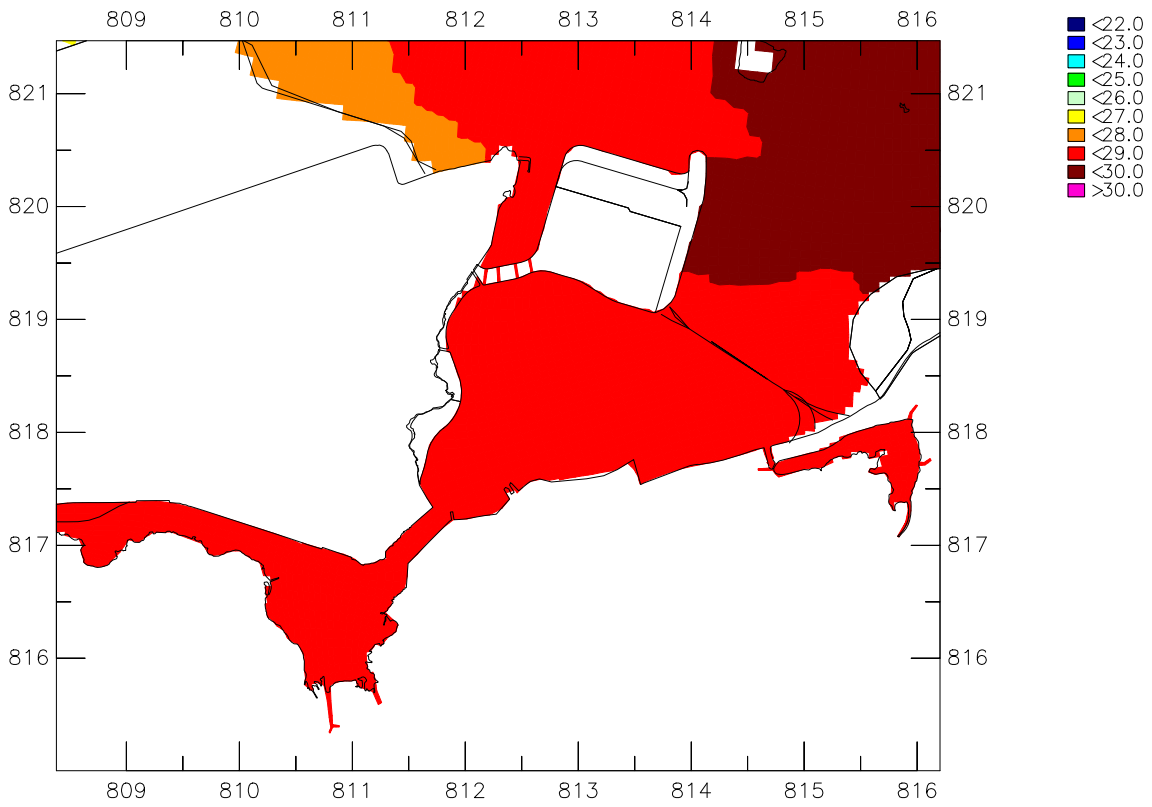
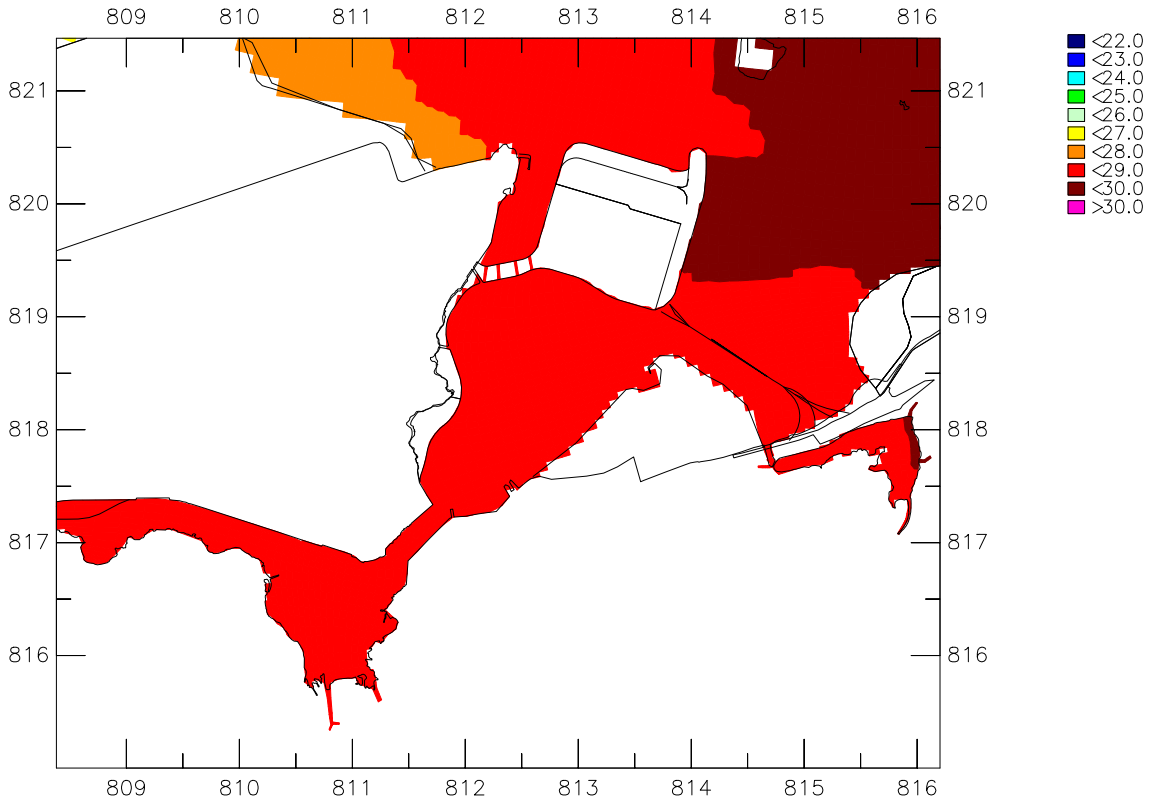
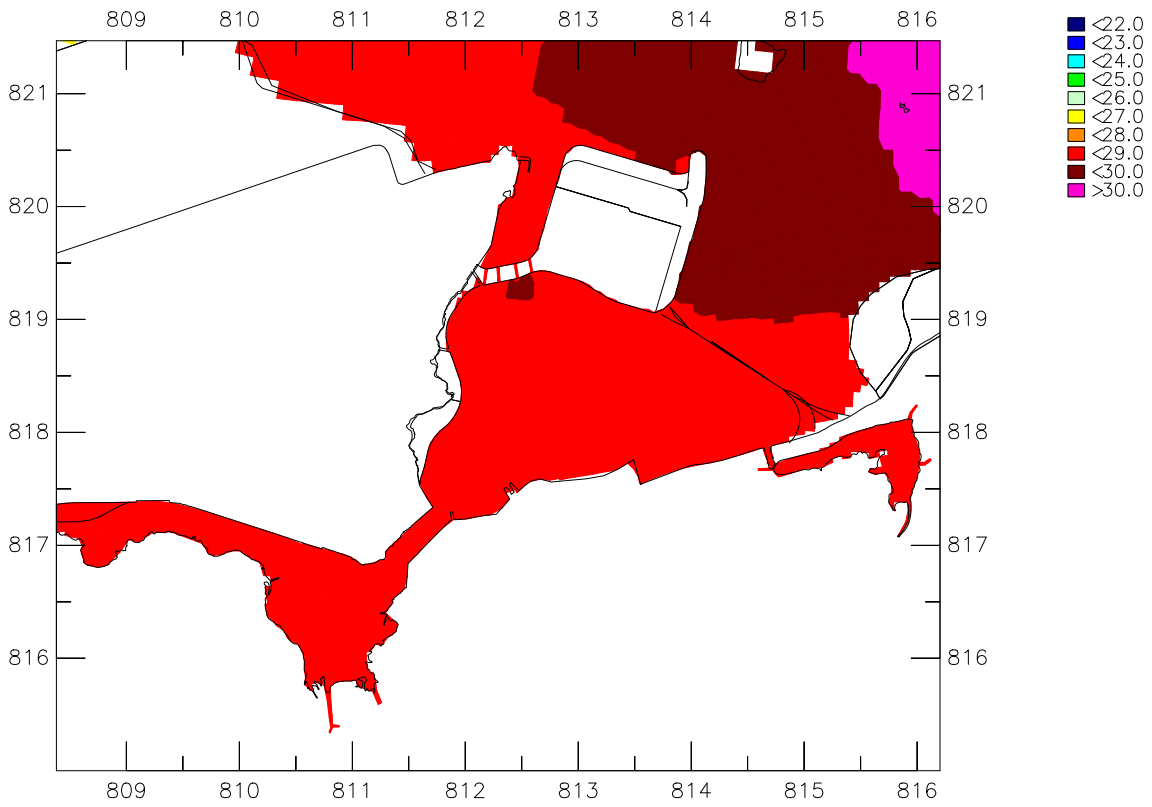
# Appendix 5.7

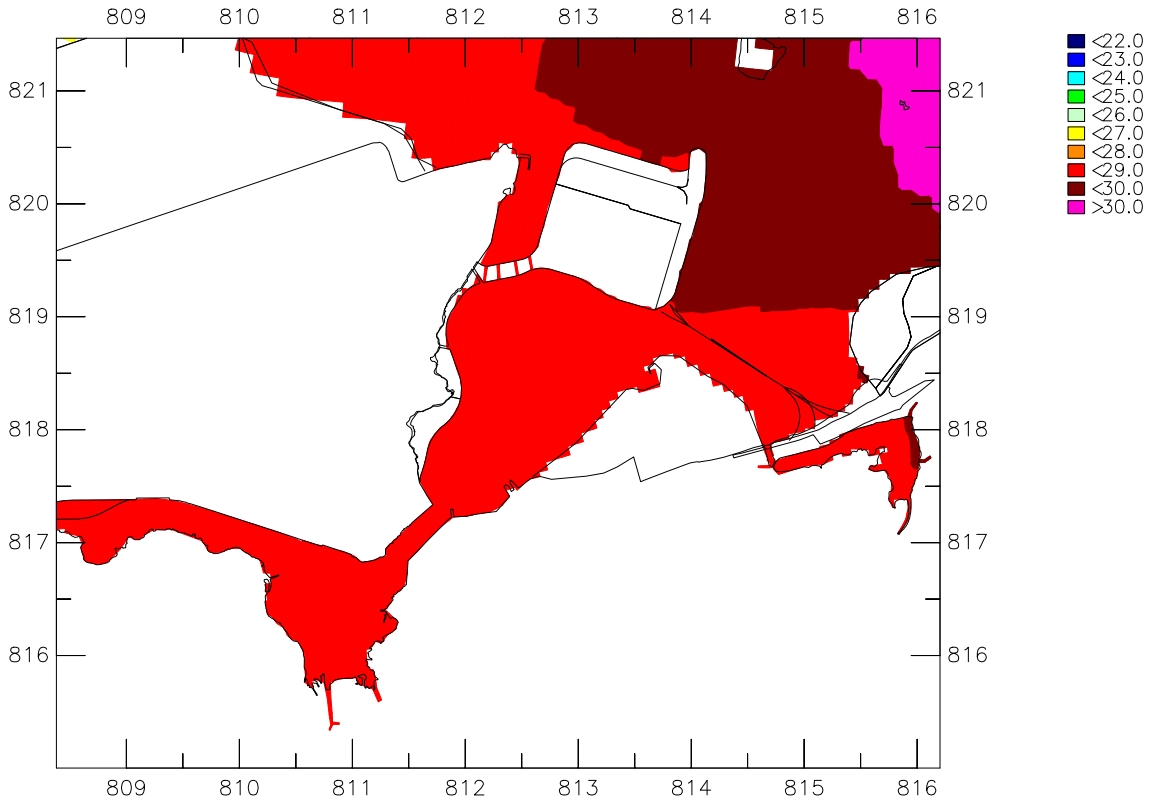
## Water Quality Modeling Results (Operational Phase)



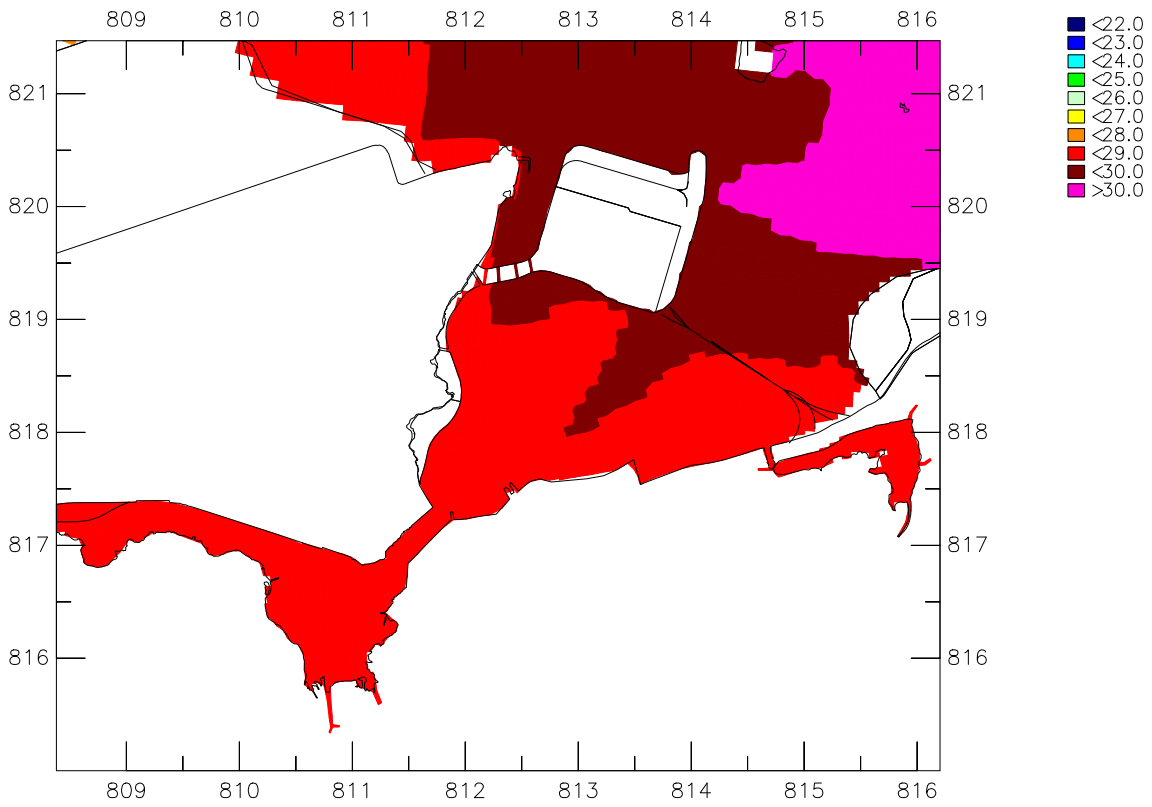



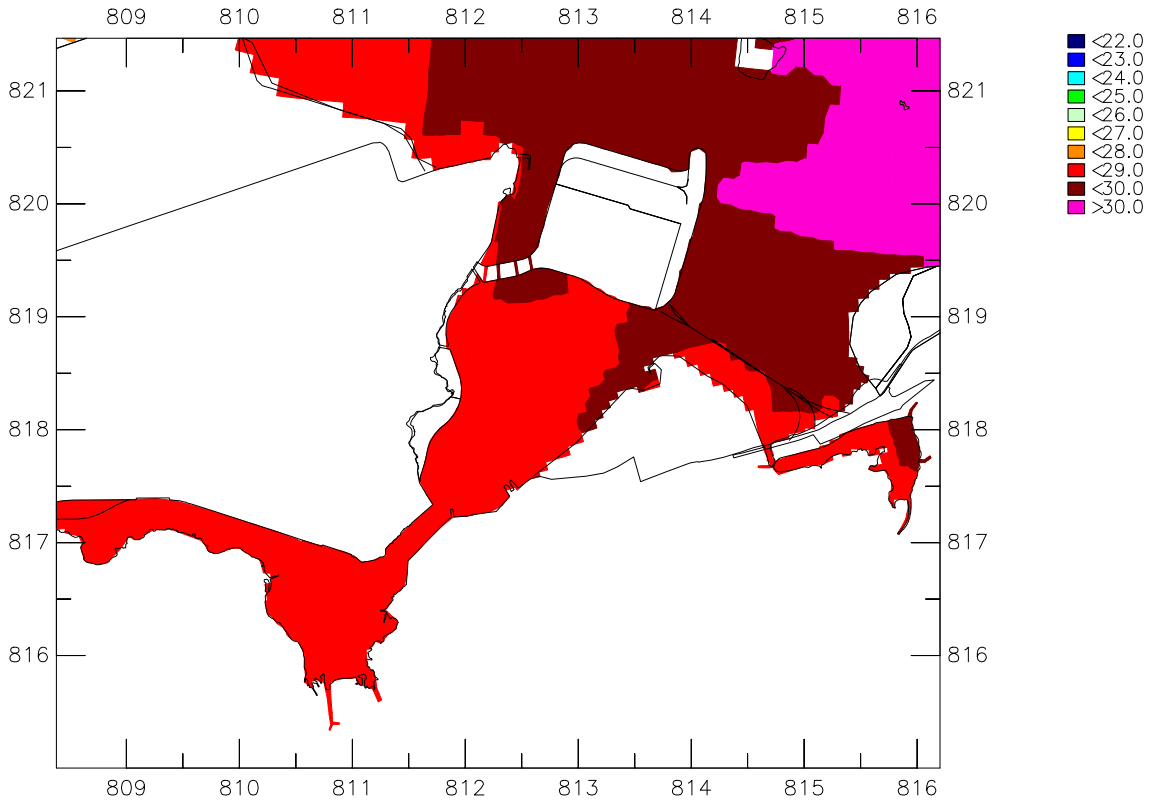

| | | |
|---|---|---|
| Salinity (psu), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | SA–S–Dry | |
| Arup | | |



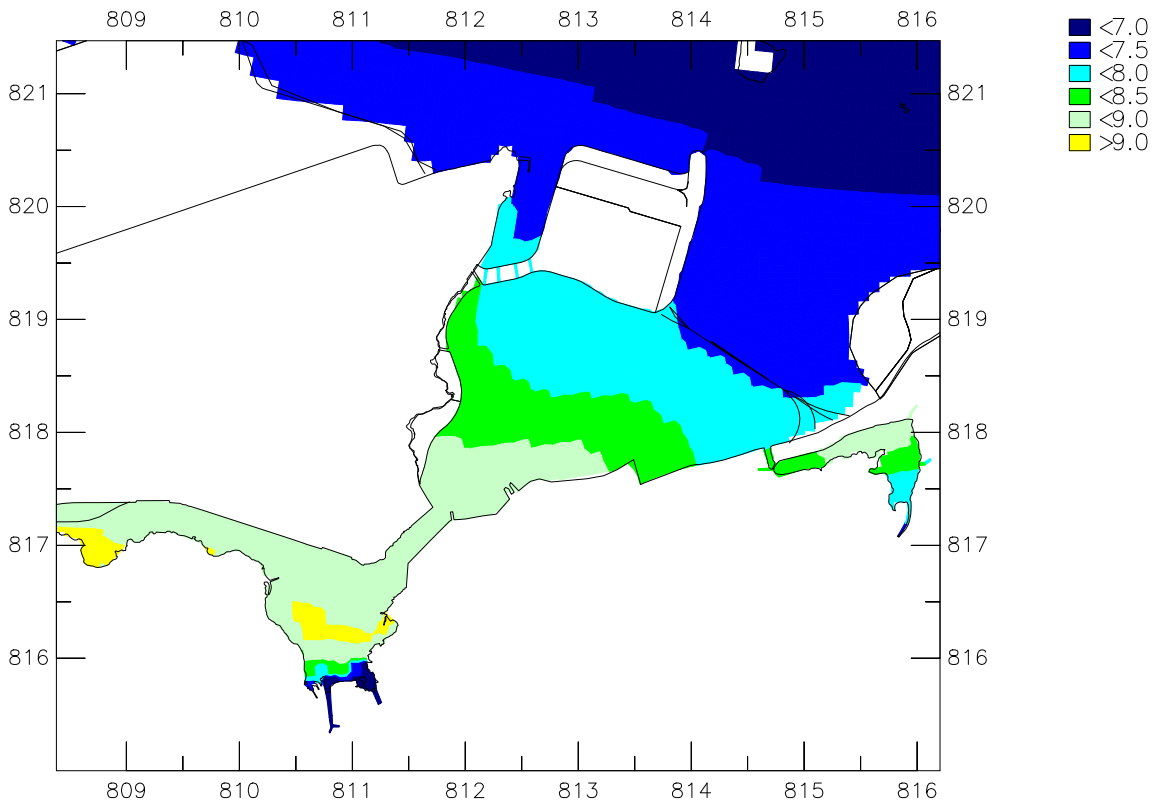



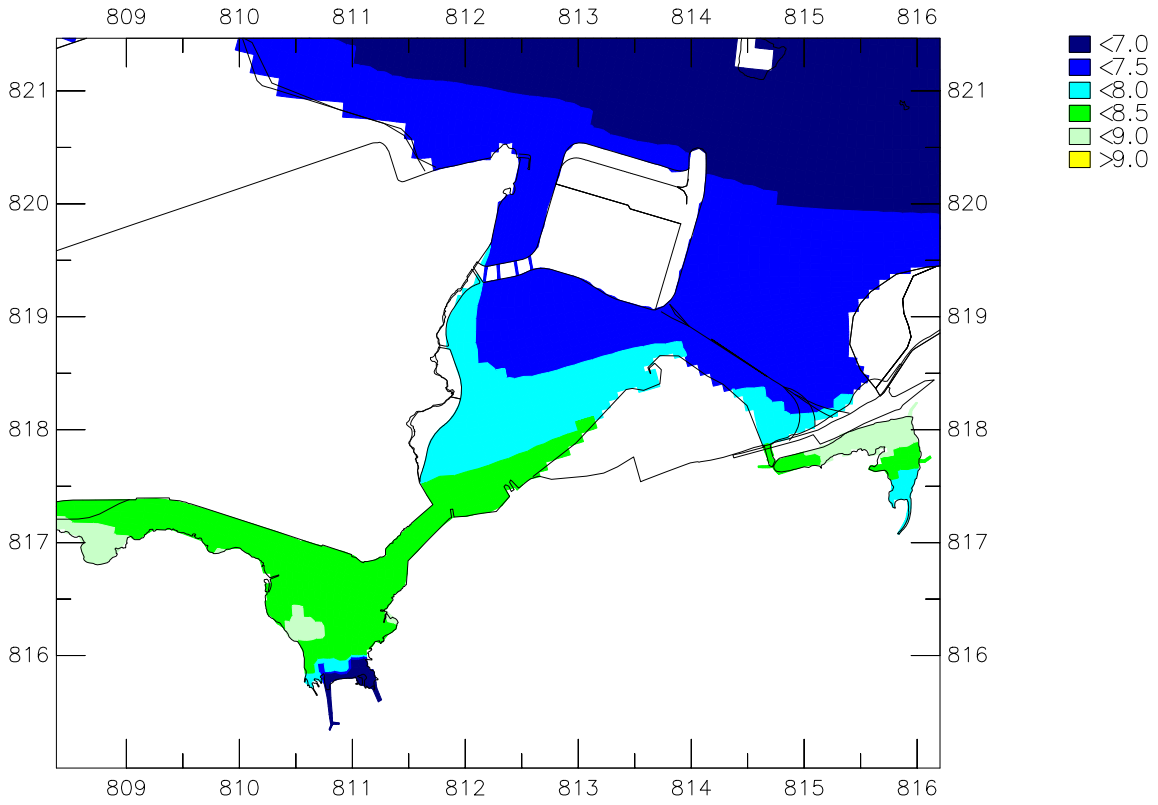

| | | |
|---|---|---|
| Salinity (psu), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | SA–M–Dry | |
| Arup | | |



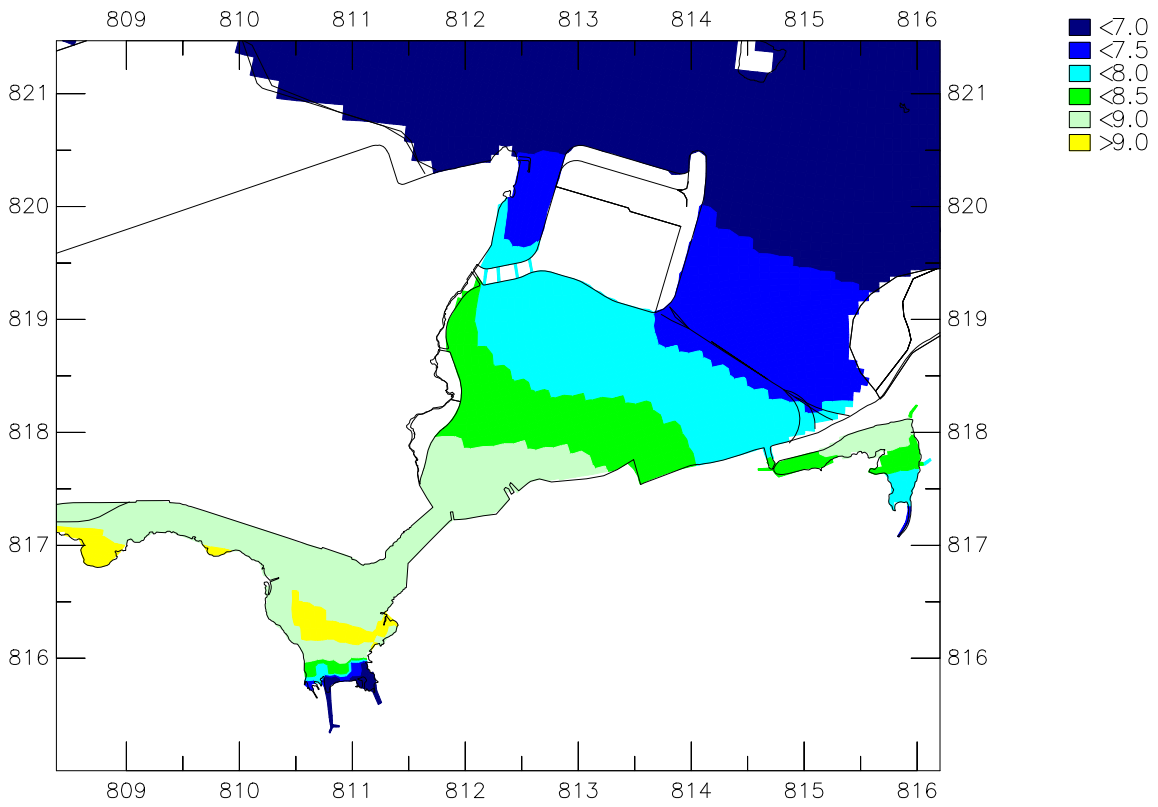



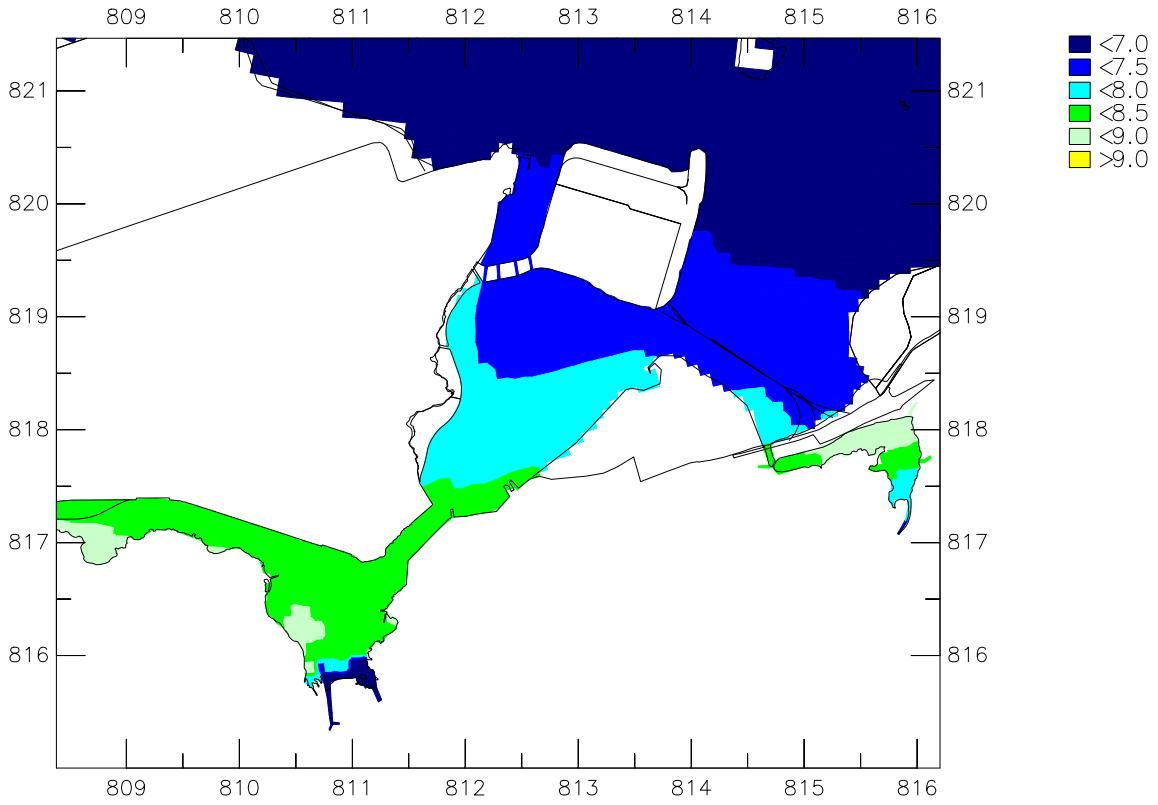

| | | |
|---|---|---|
| Salinity (psu), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | SA–B–Dry | |
| Arup | | |



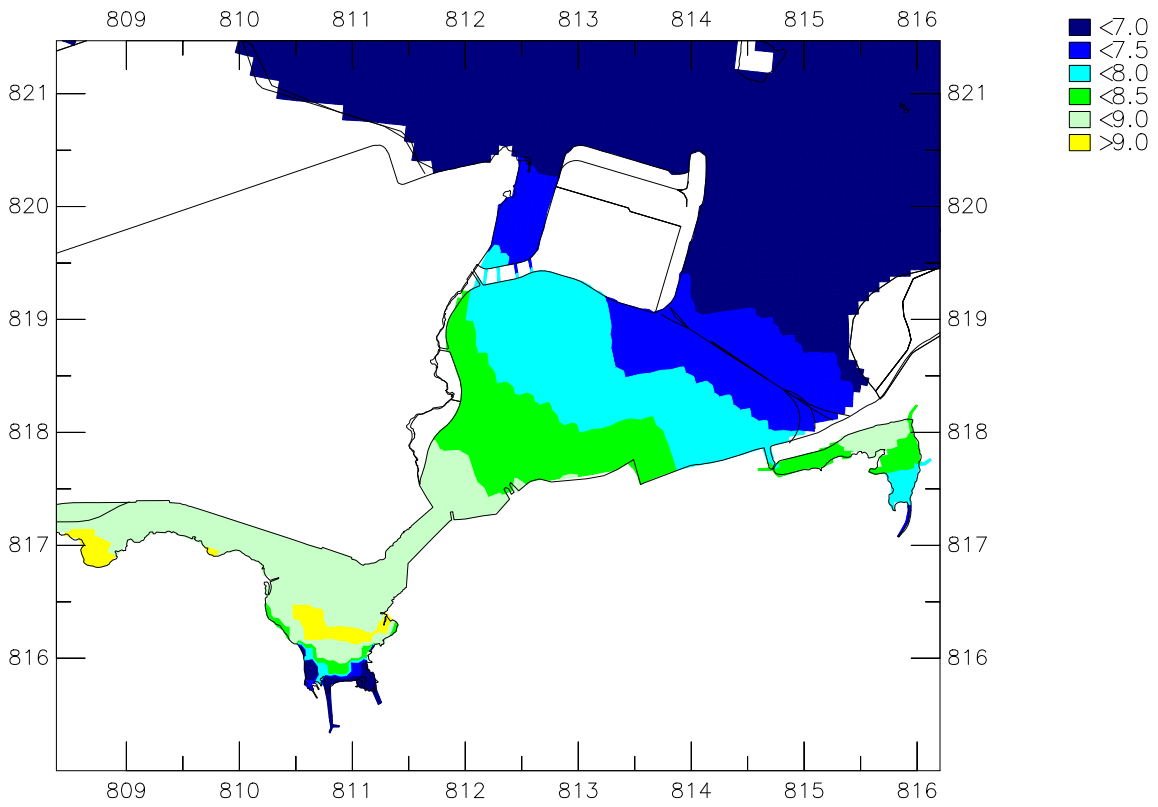



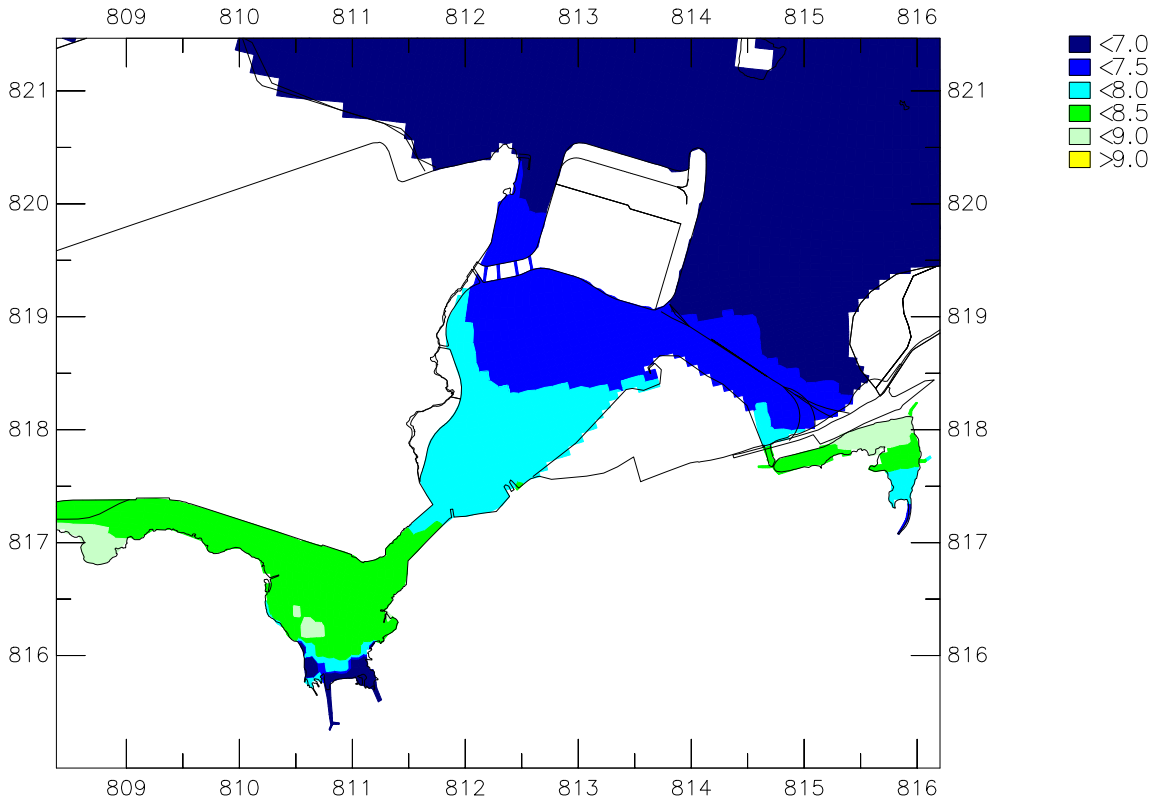

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | DO–S–Dry | |
| Arup | | |



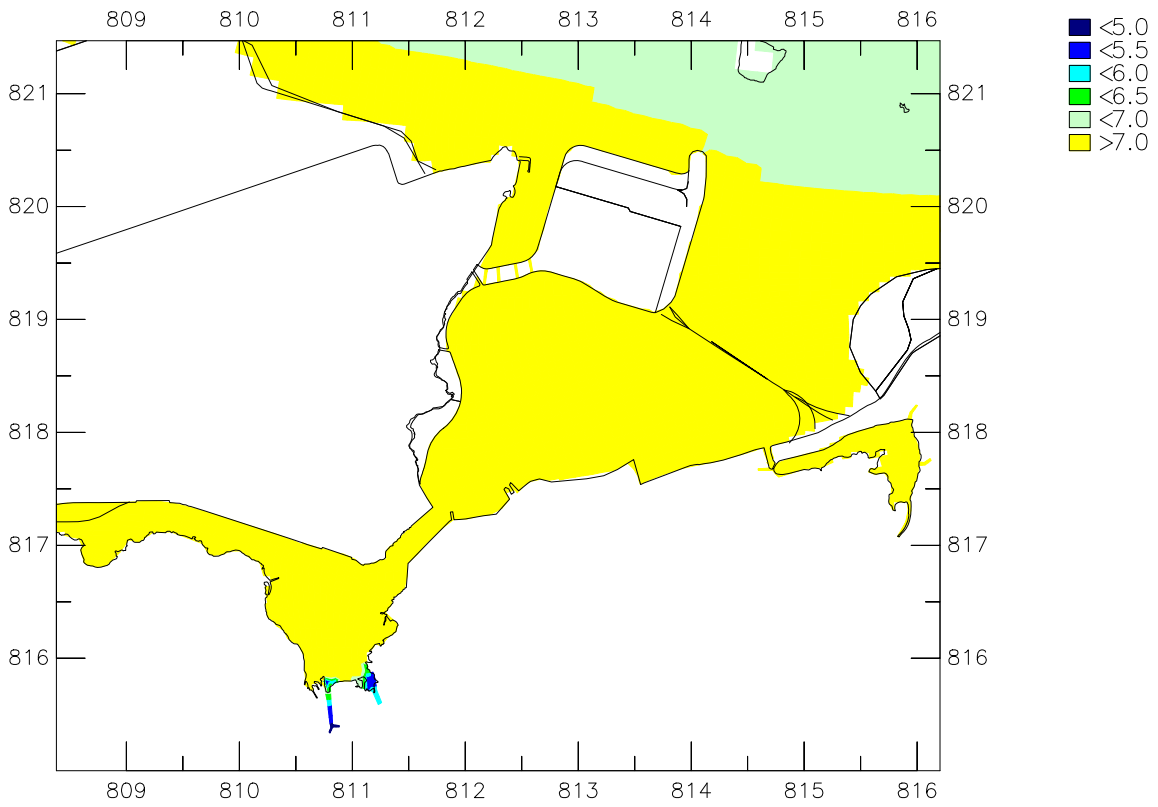



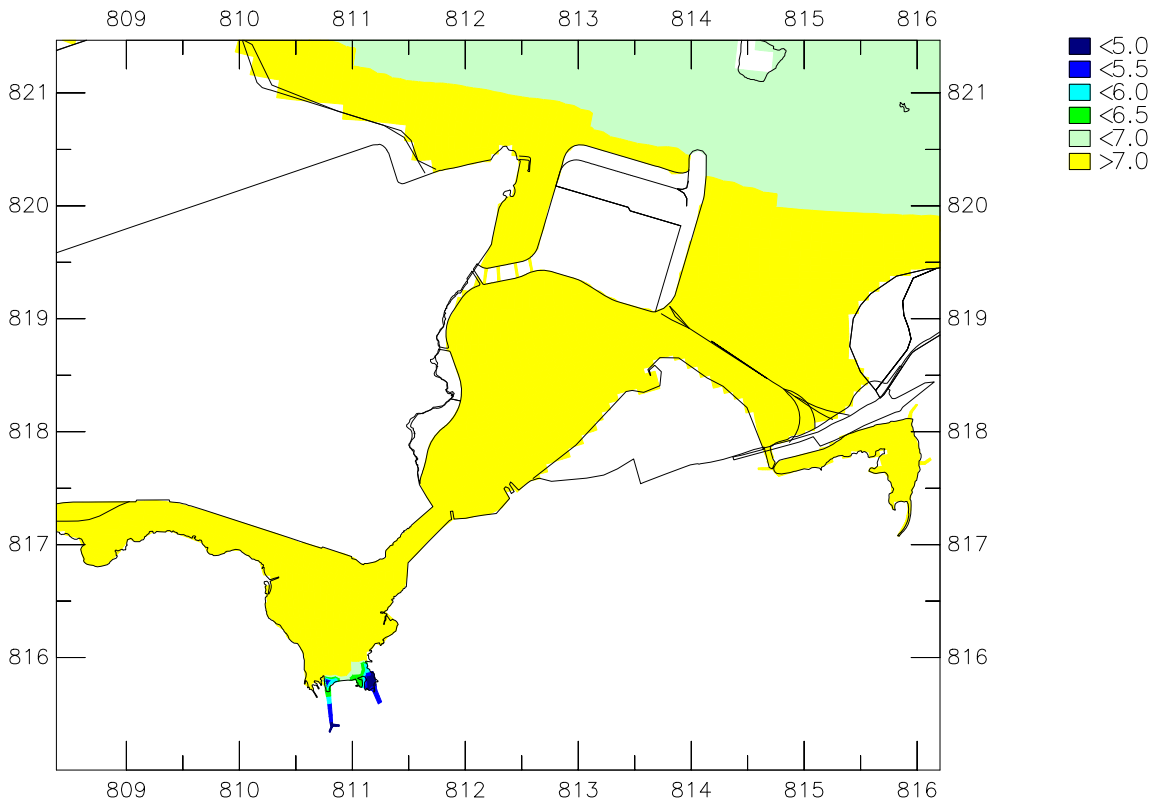

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | DO-M-Dry | |
| Arup | | |



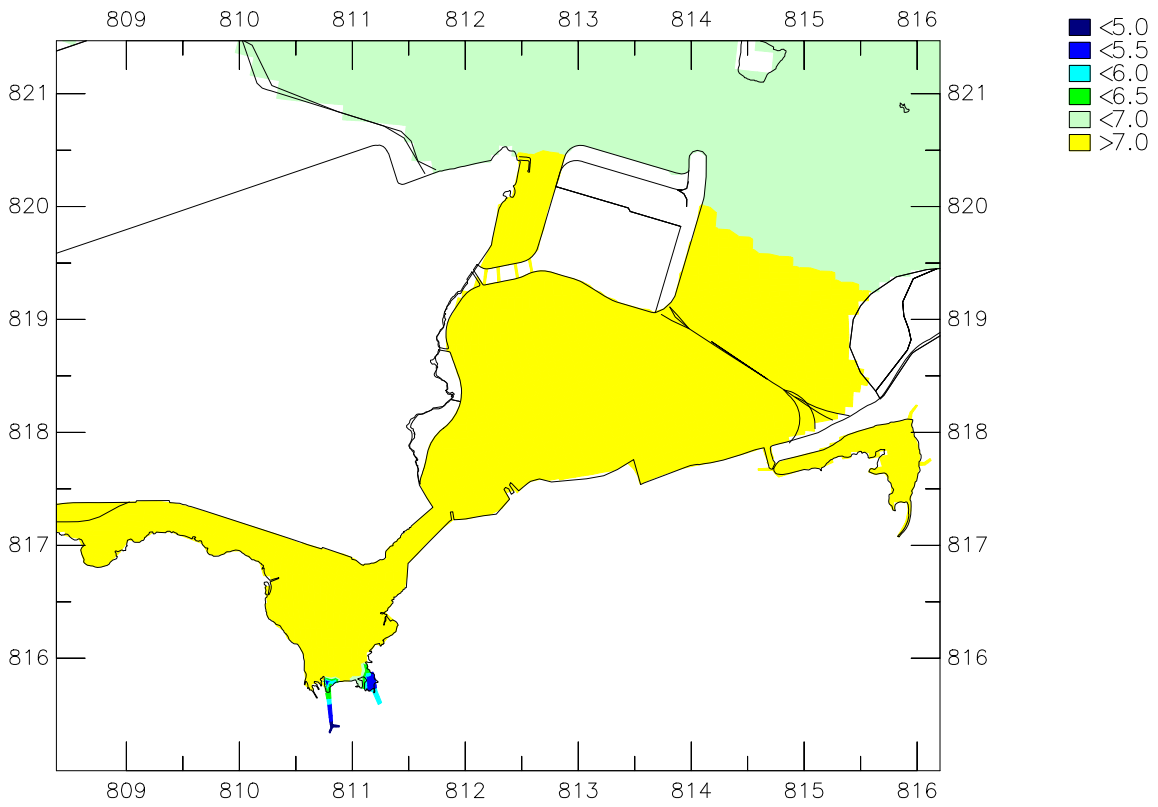



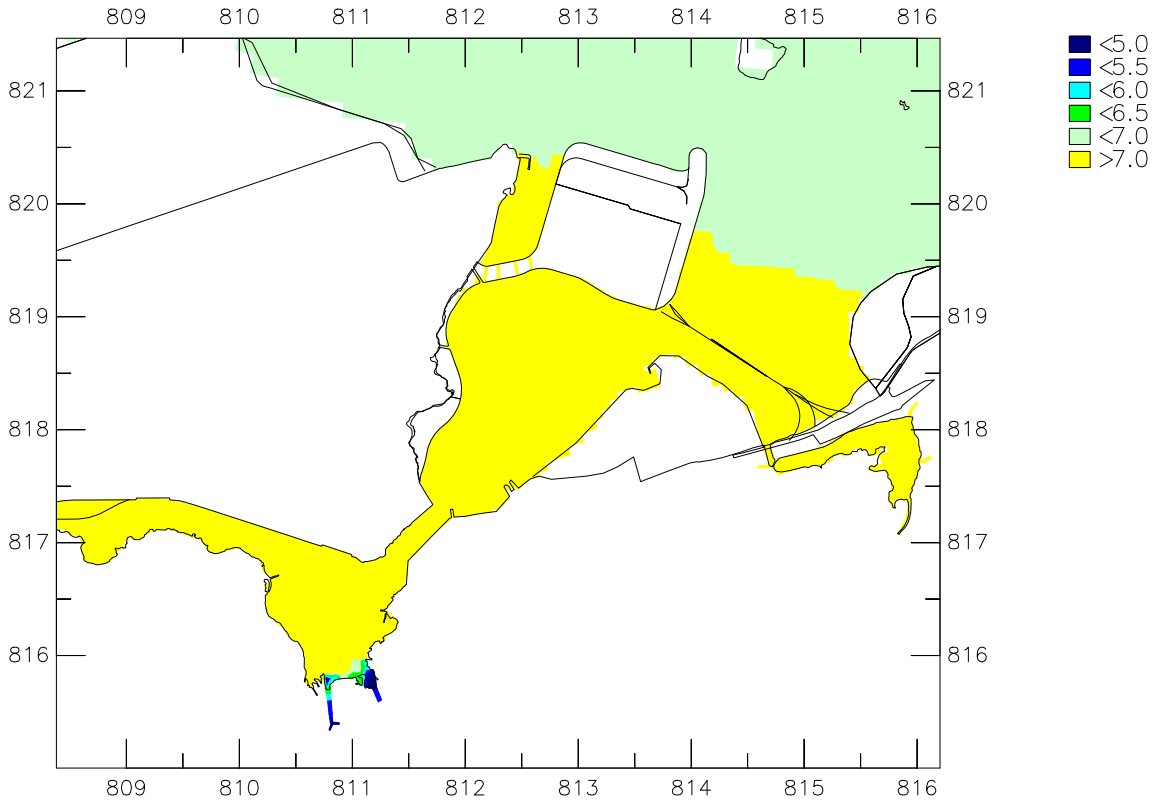

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | DO–B–Dry | |
| Arup | | |



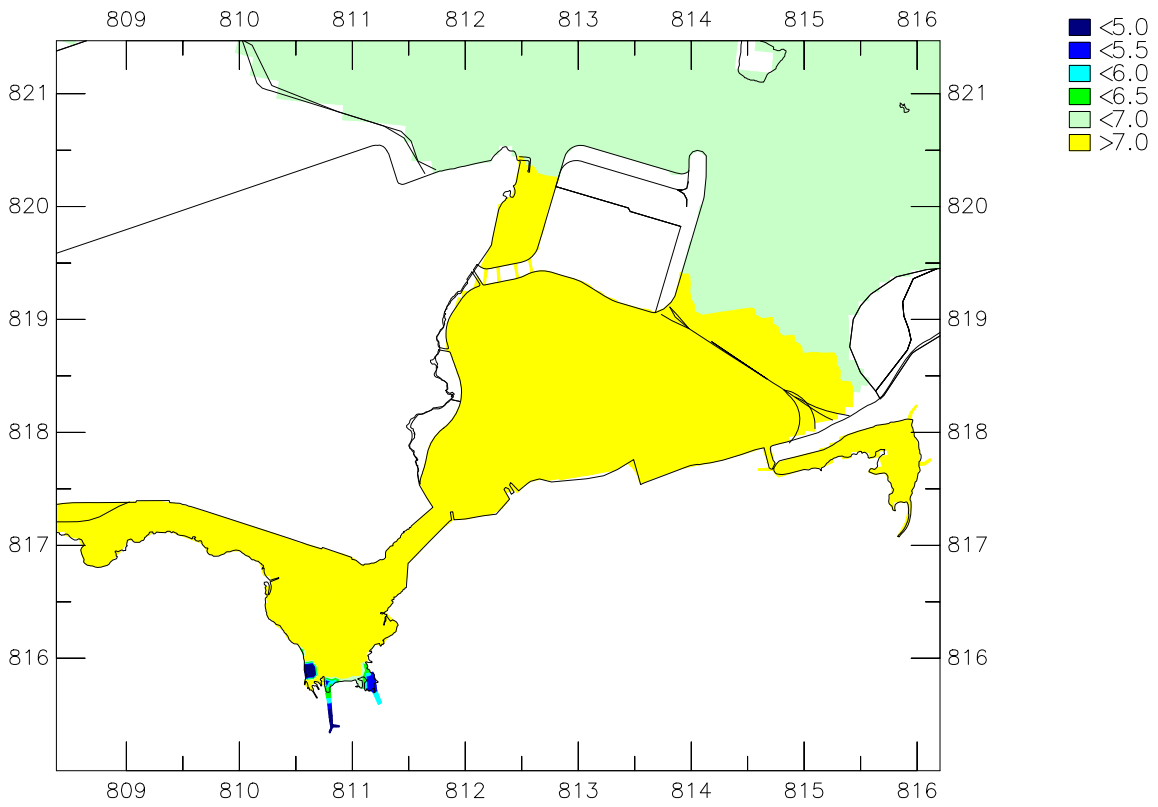



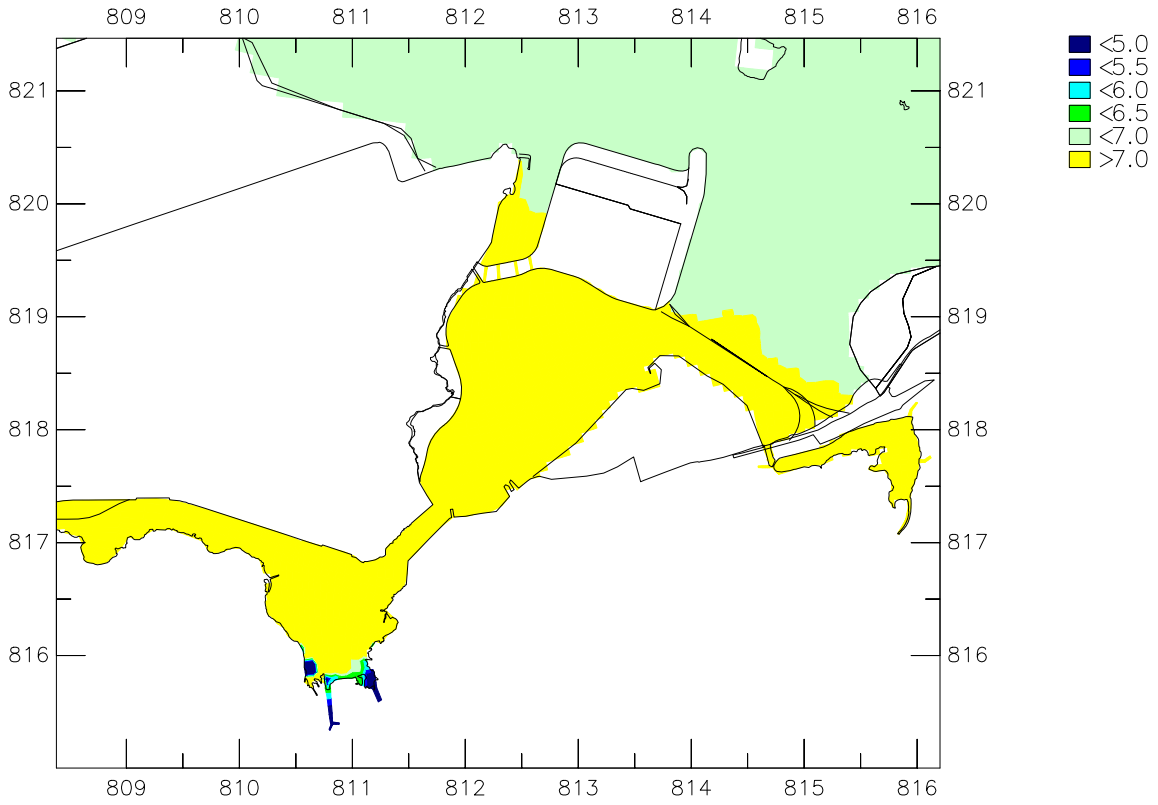

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | DO-S-Dry-2 | |
| Arup | | |



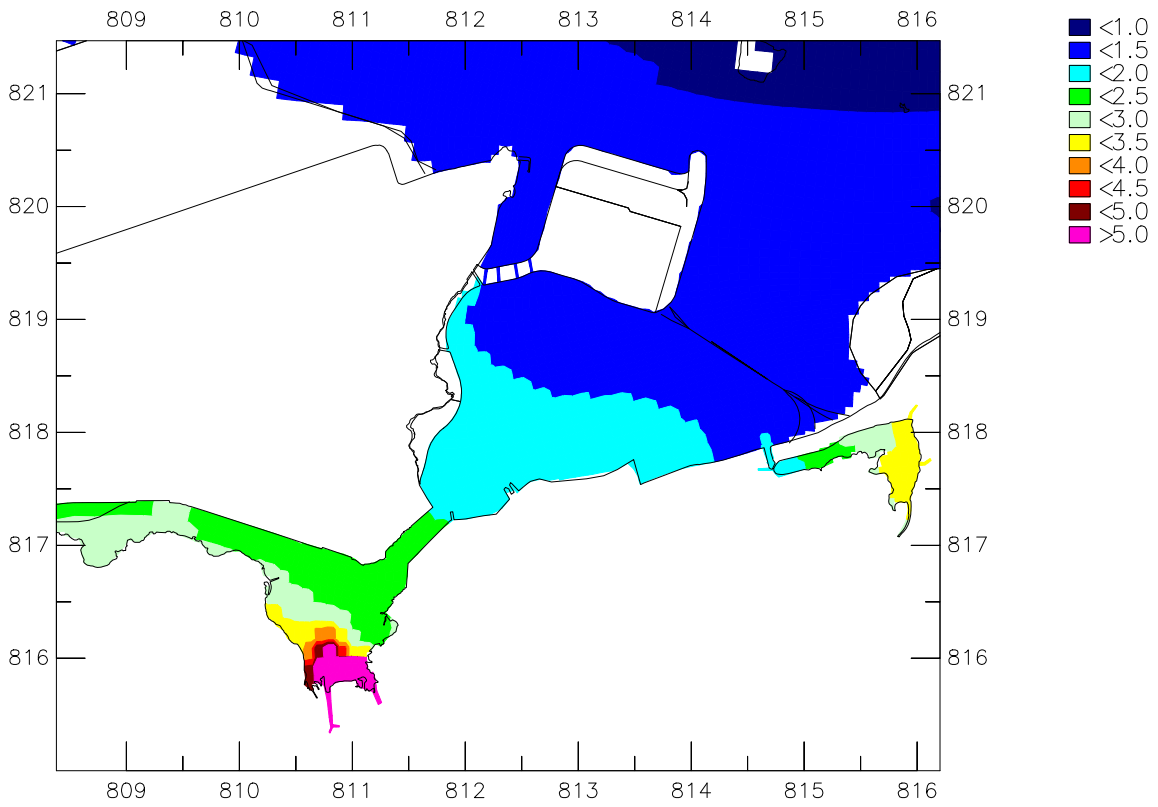



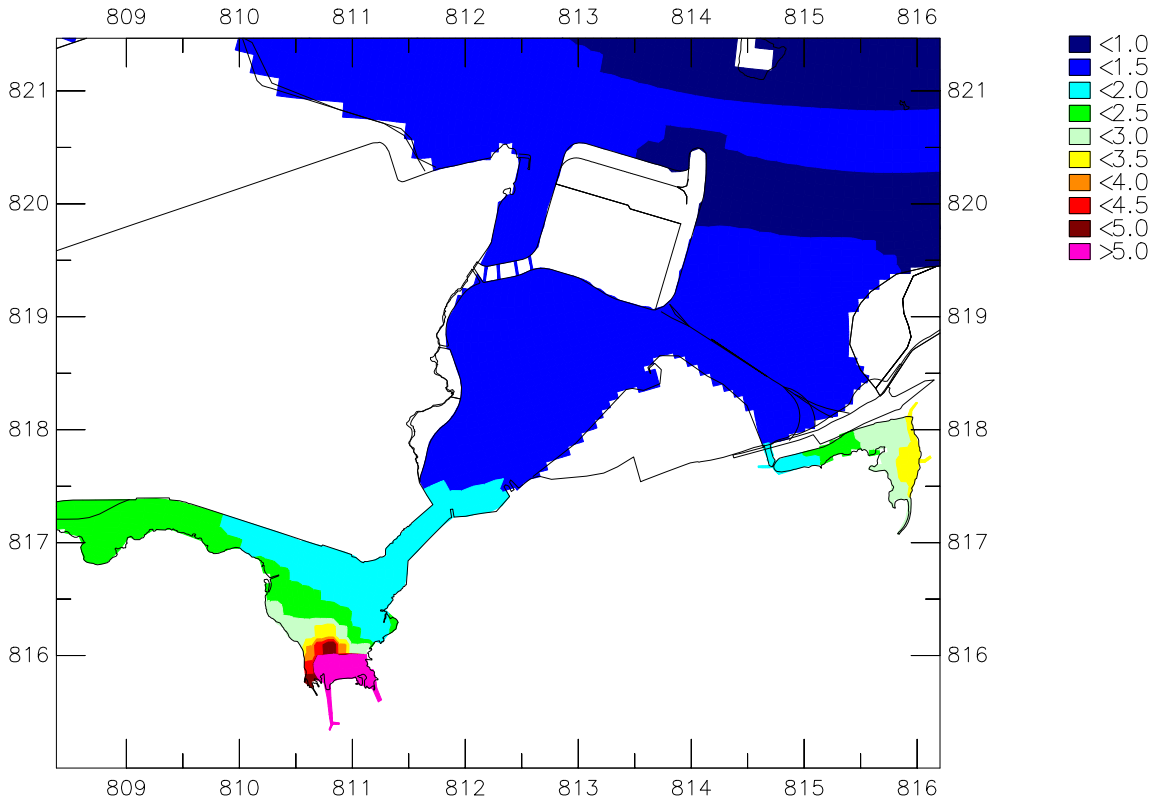

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | DO-M-Dry-2 | |
| Arup | | |



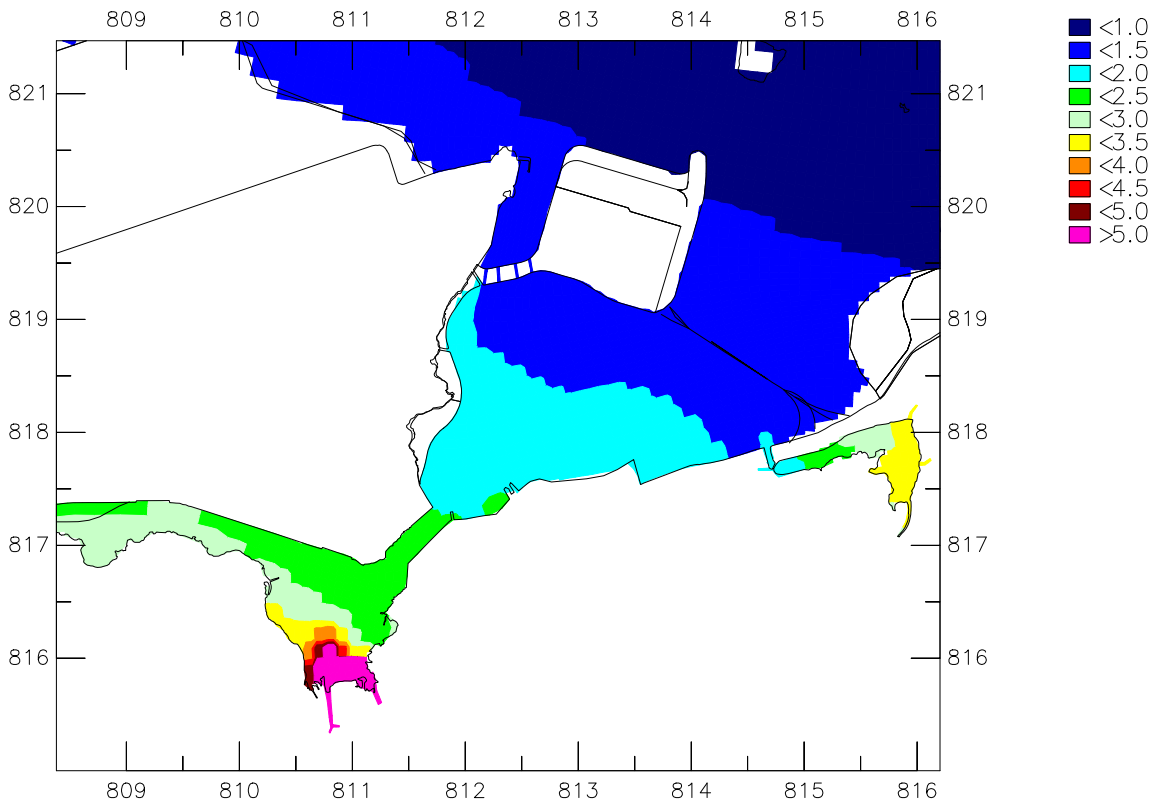



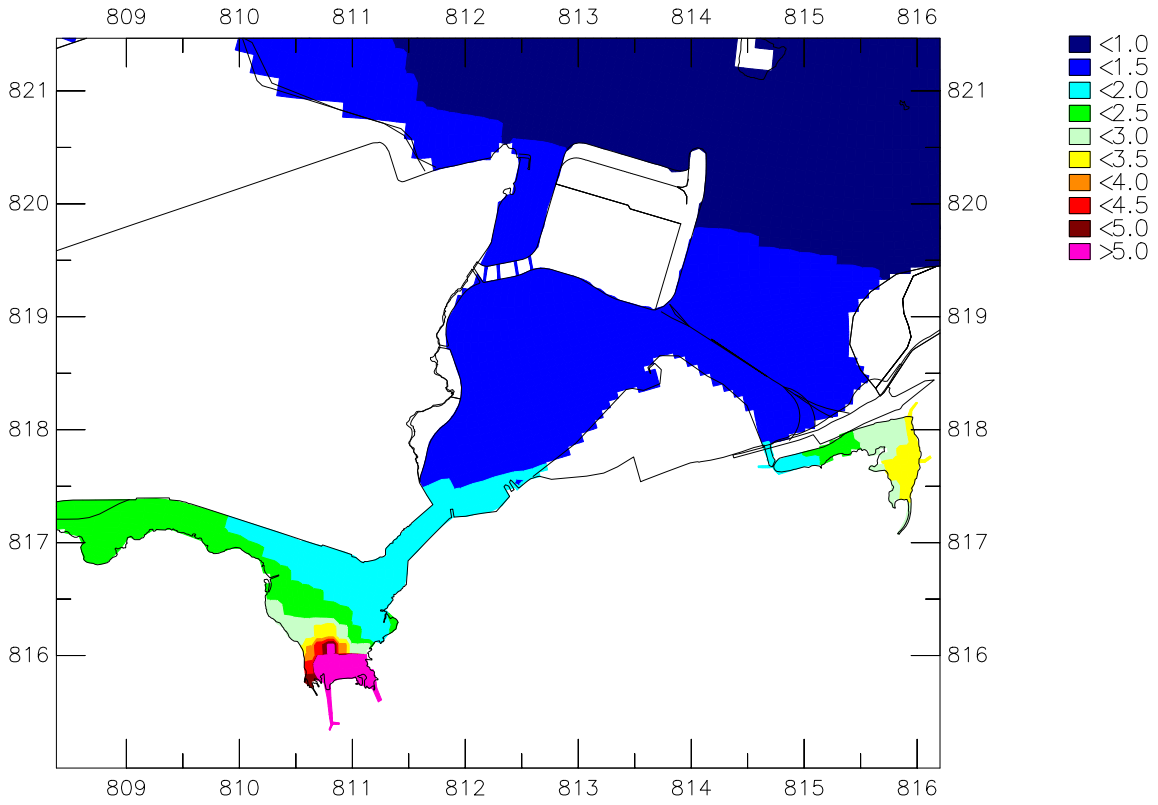

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | DO–B–Dry–2 | |
| Arup | | |



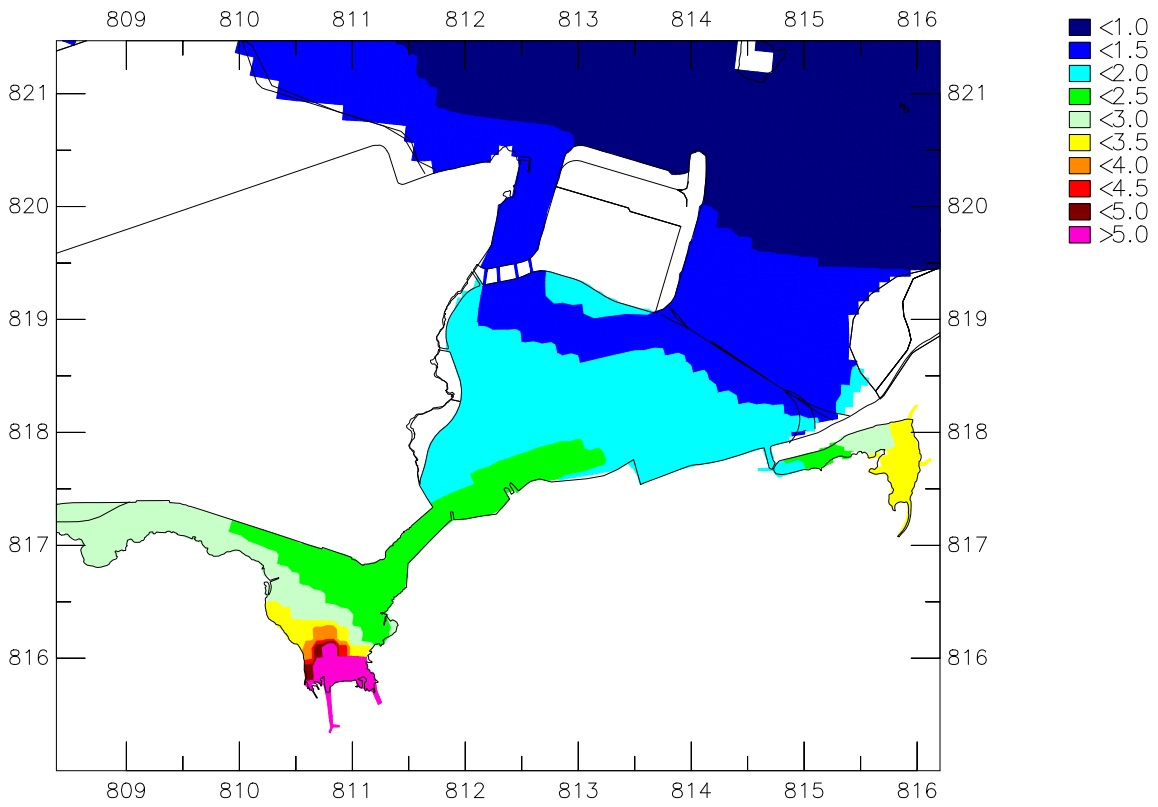



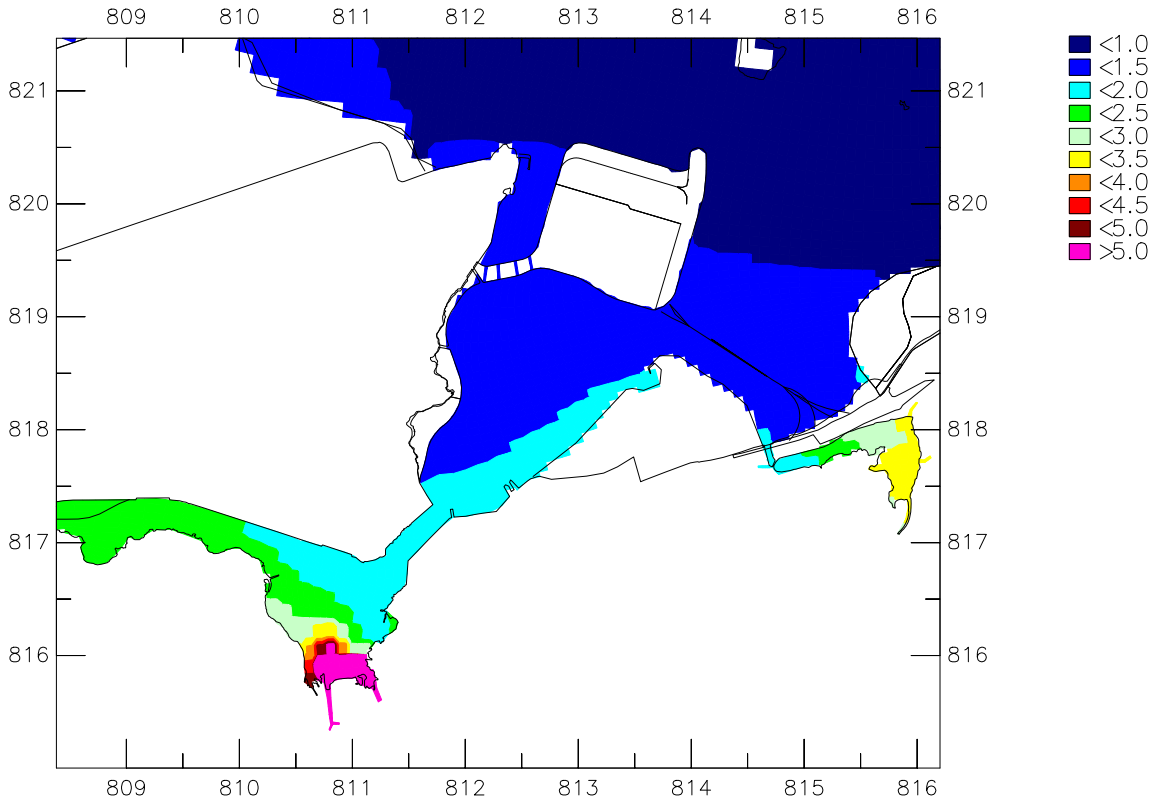

| | | |
|---|---|---|
| BOD5 (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | BOD5-S-Dry | |
| Arup | | |



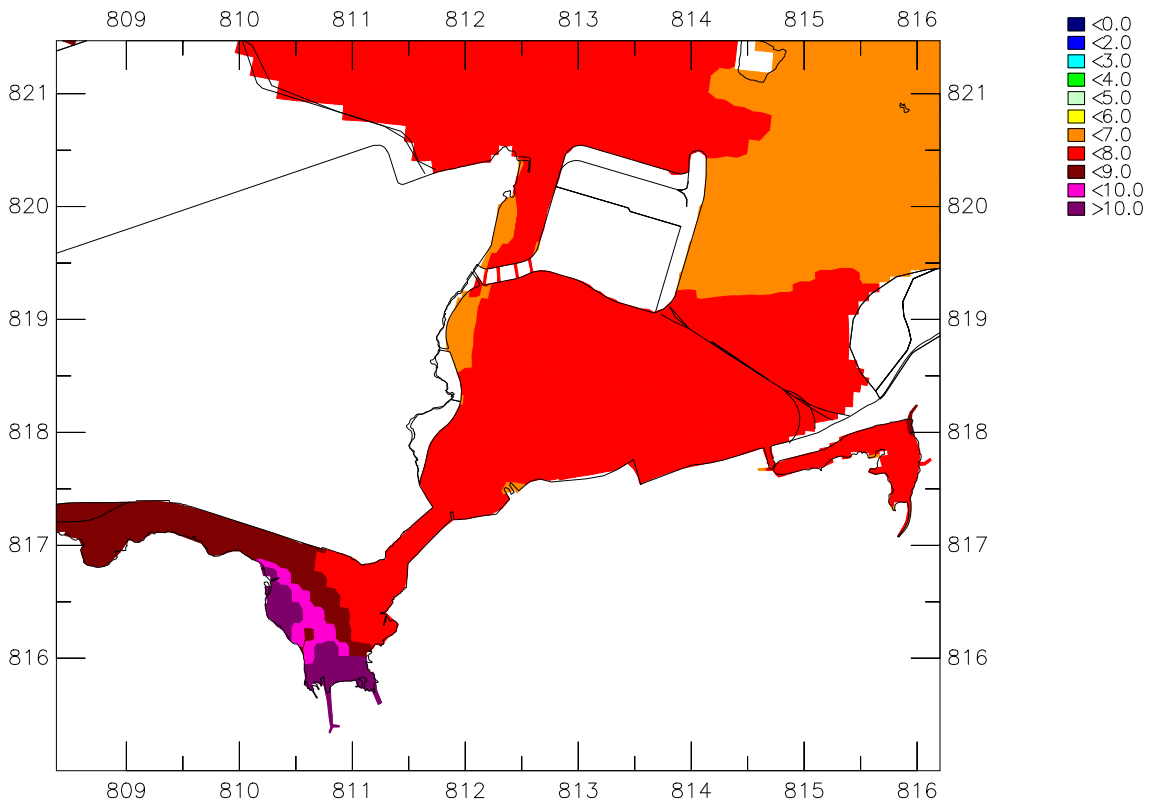



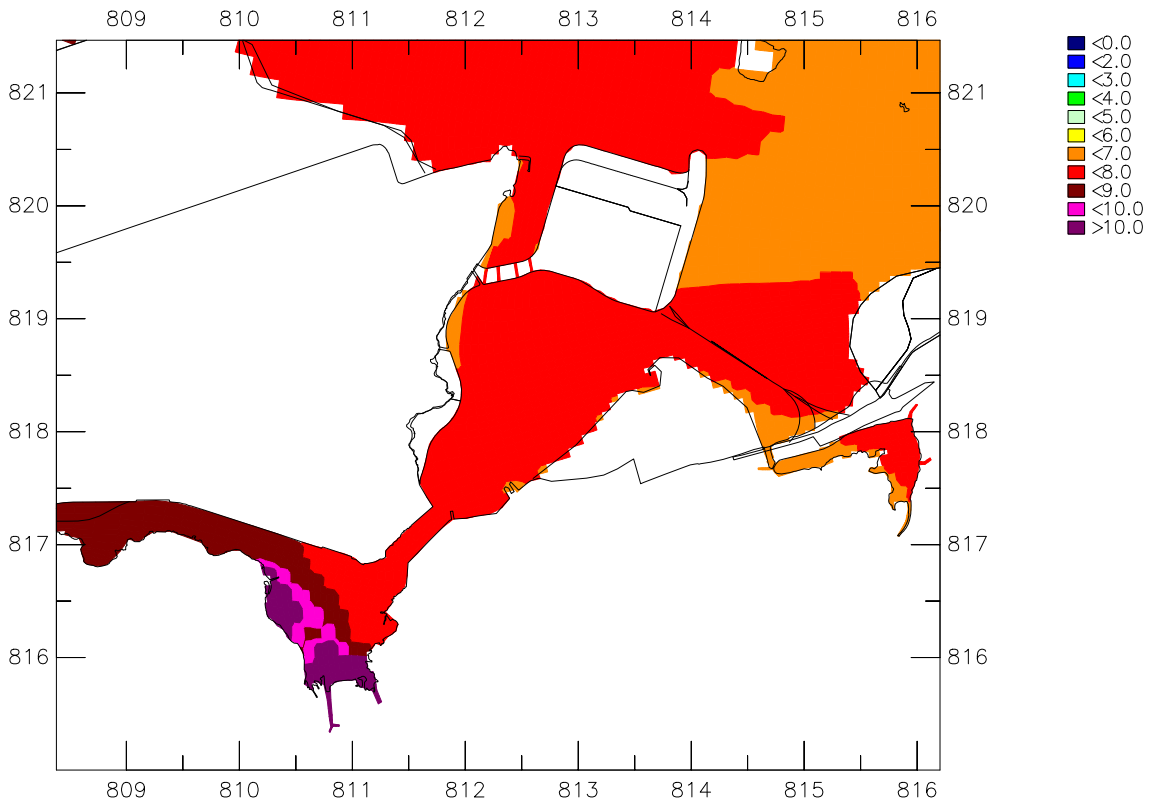

| | | |
|---|---|---|
| BOD5 (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | BOD5-M-Dry | |
| Arup | | |



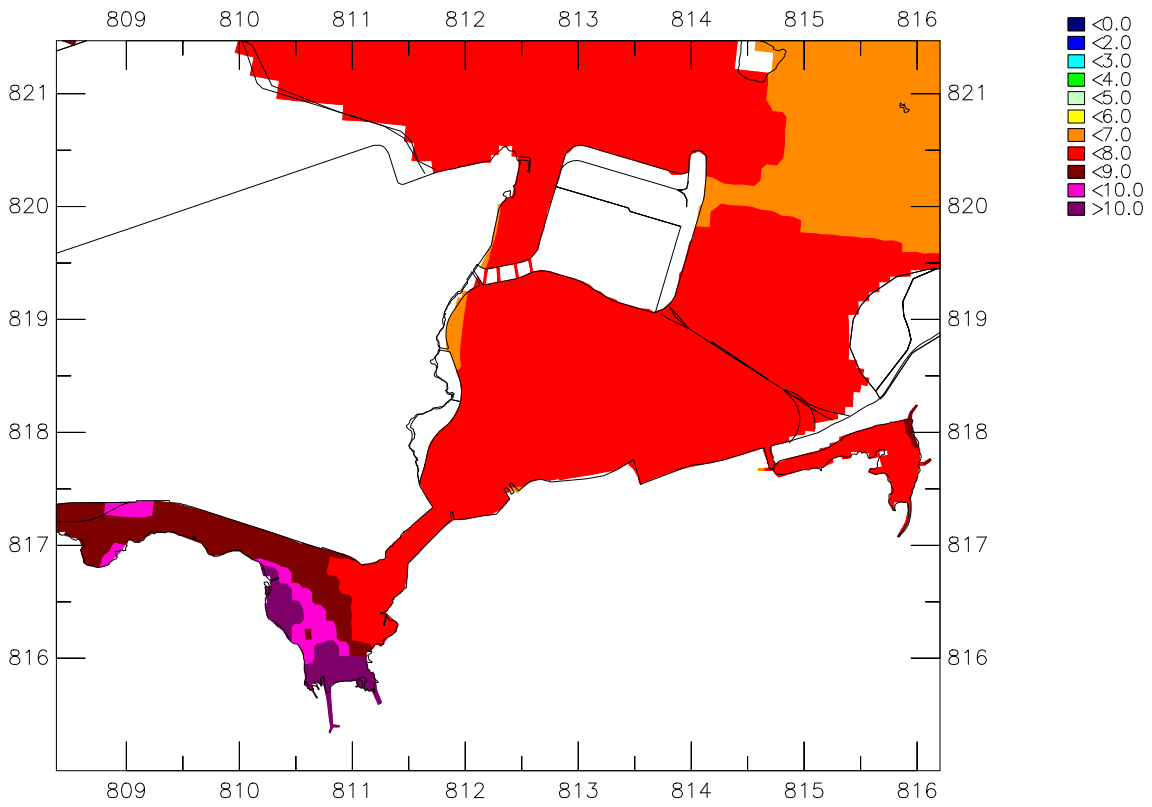



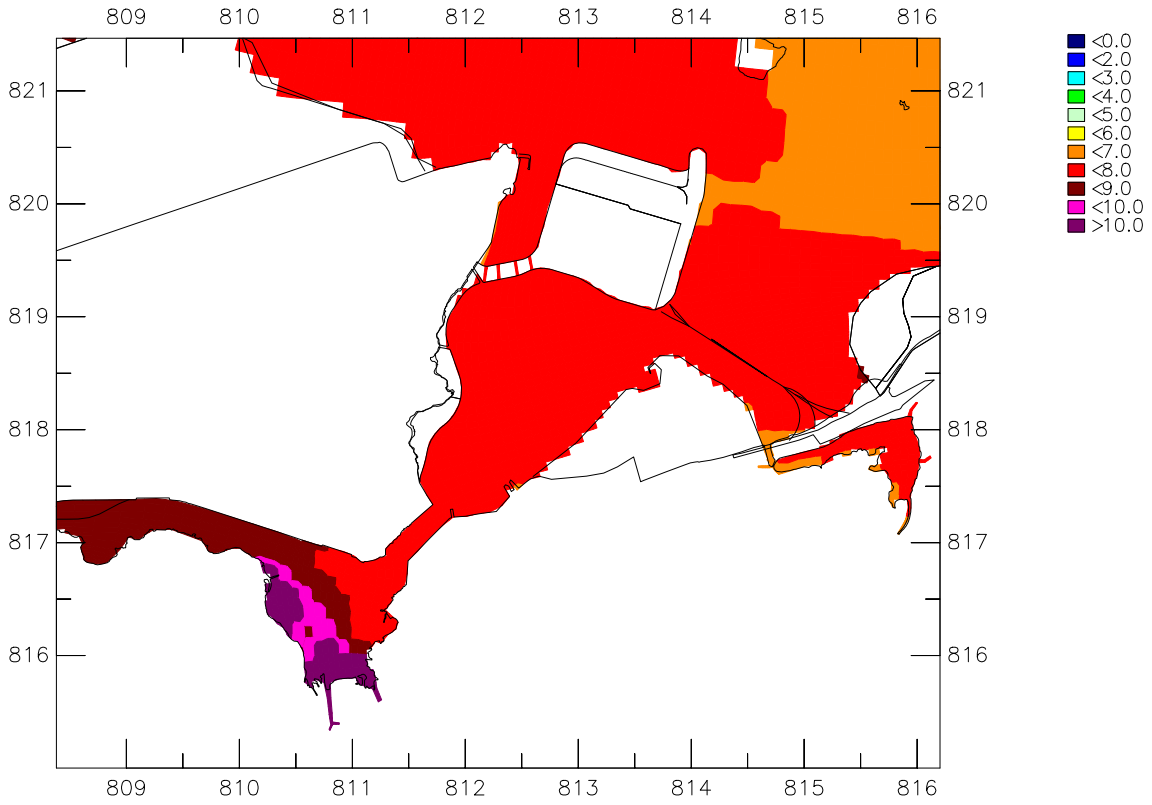

| | | |
|---|---|---|
| BOD5 (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | BOD5-B-Dry | |
| Arup | | |



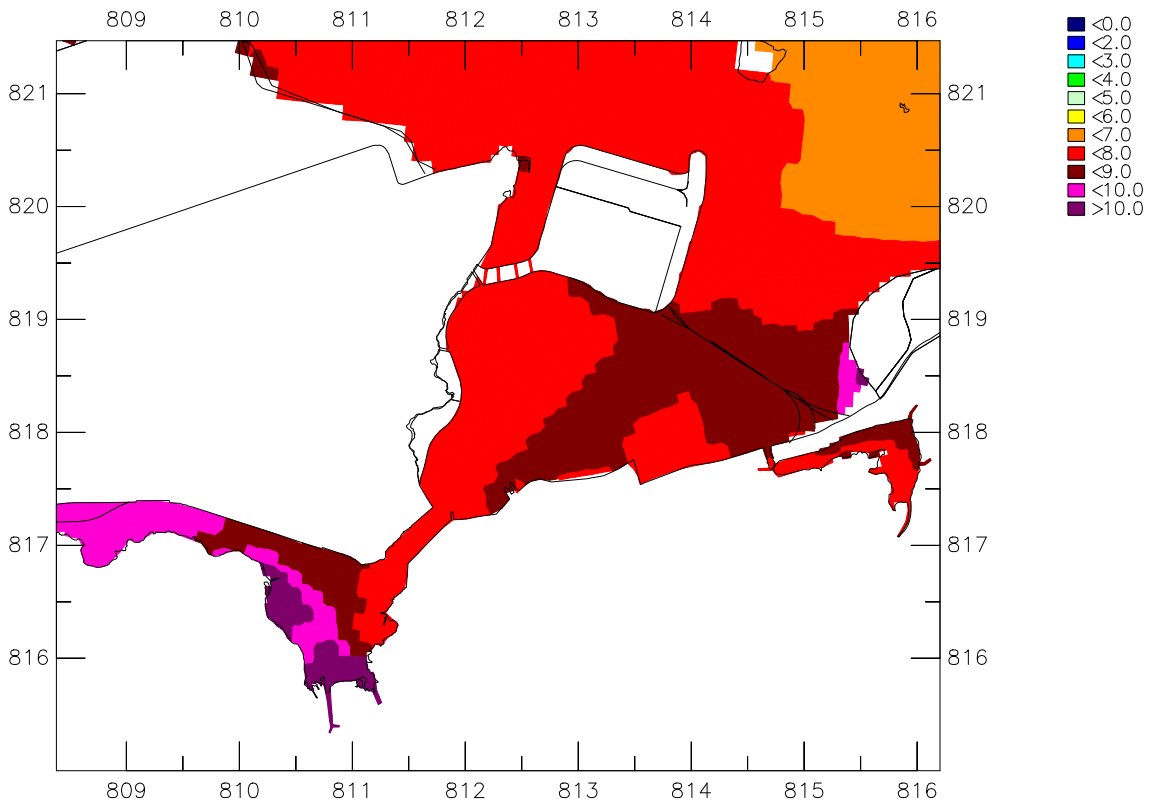



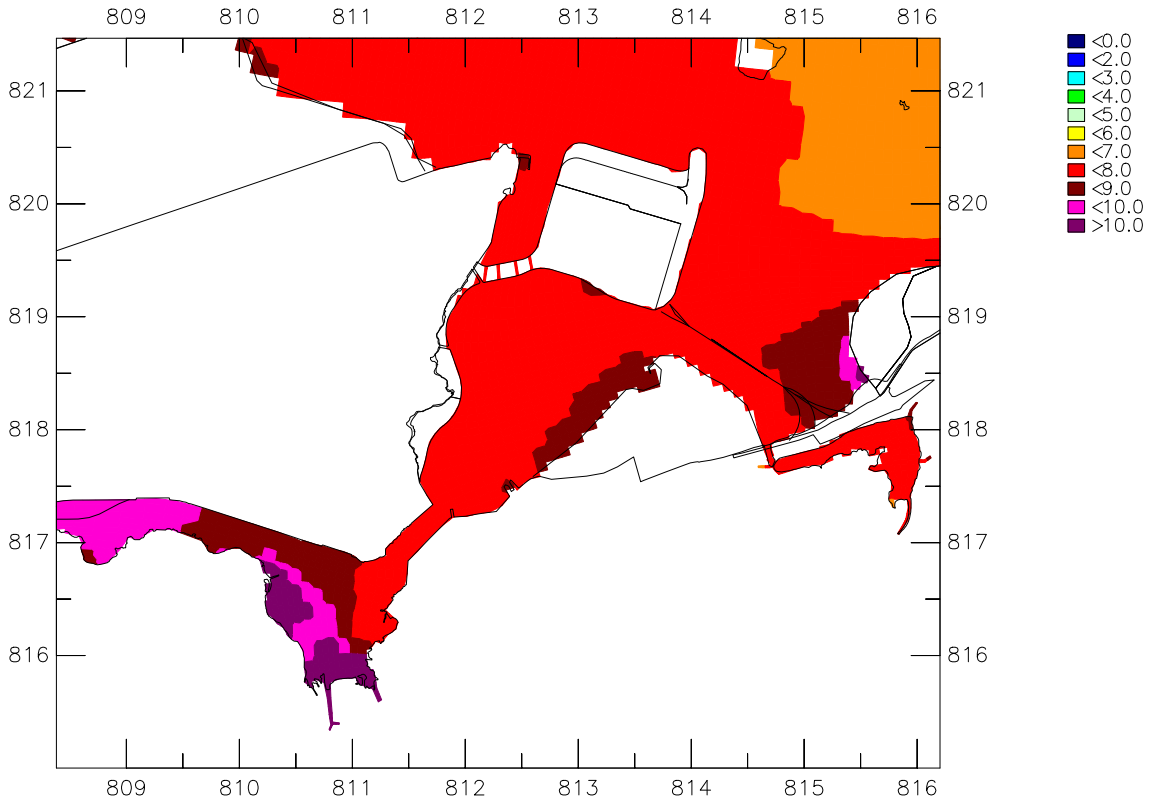

| | | |
|---|---|---|
| SS (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | SS-S-Dry | |
| Arup | | |



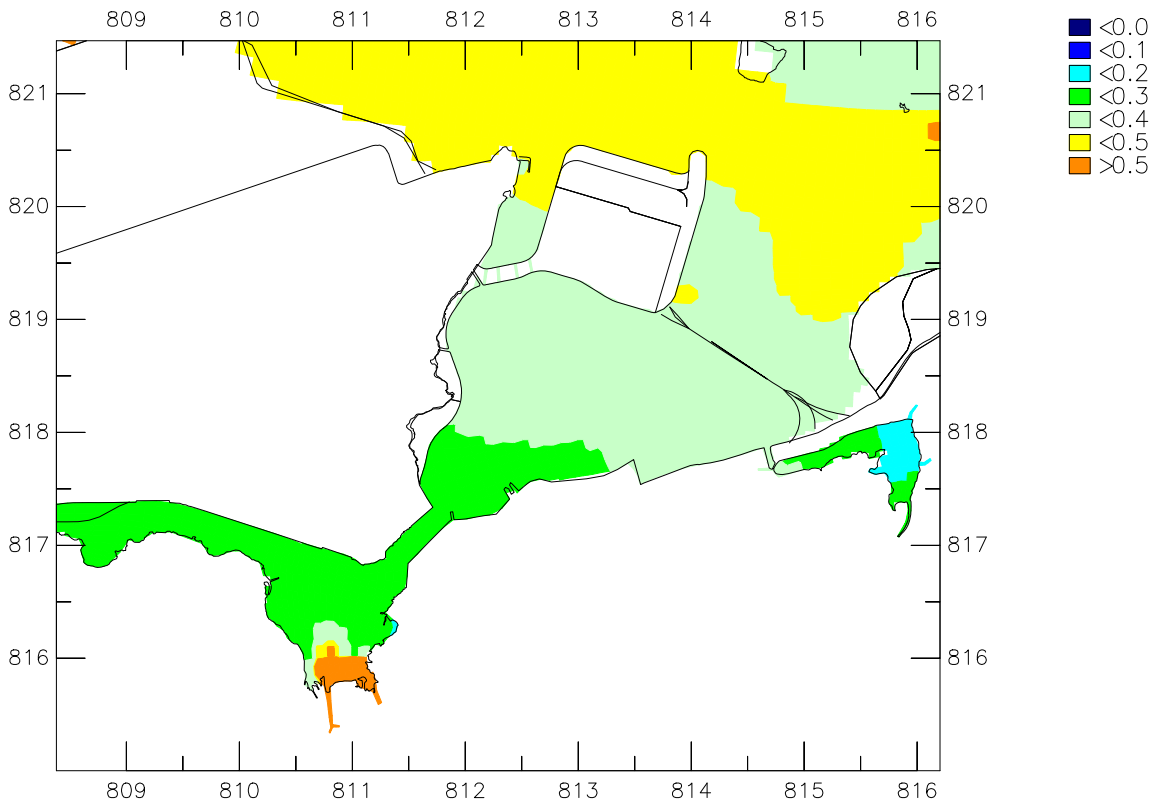



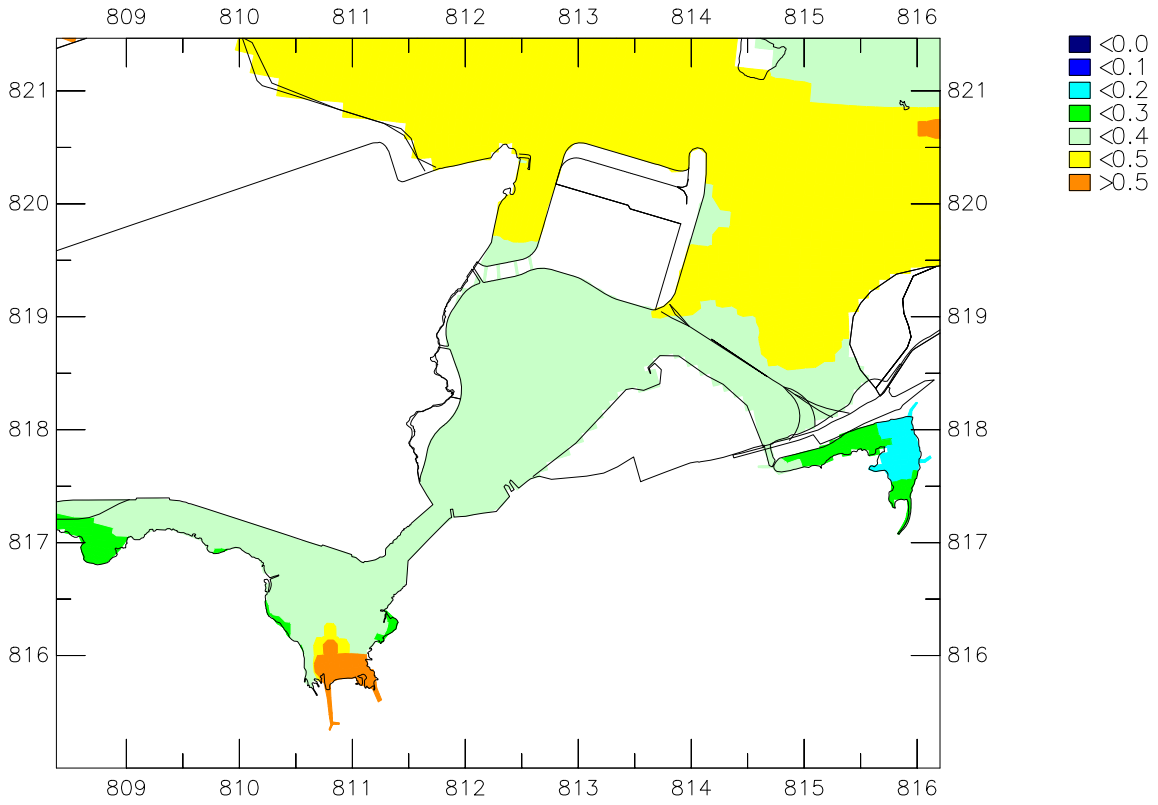

| | | |
|---|---|---|
| SS (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | SS-M-Dry | |
| Arup | | |



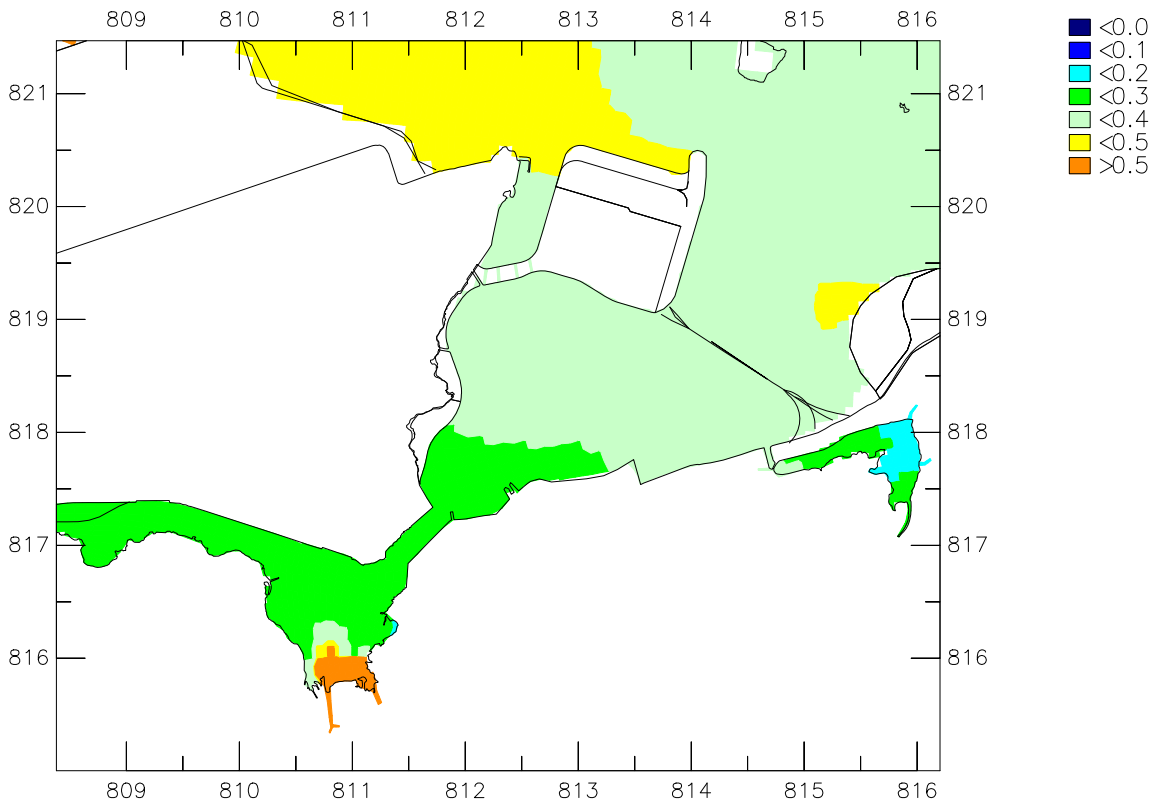



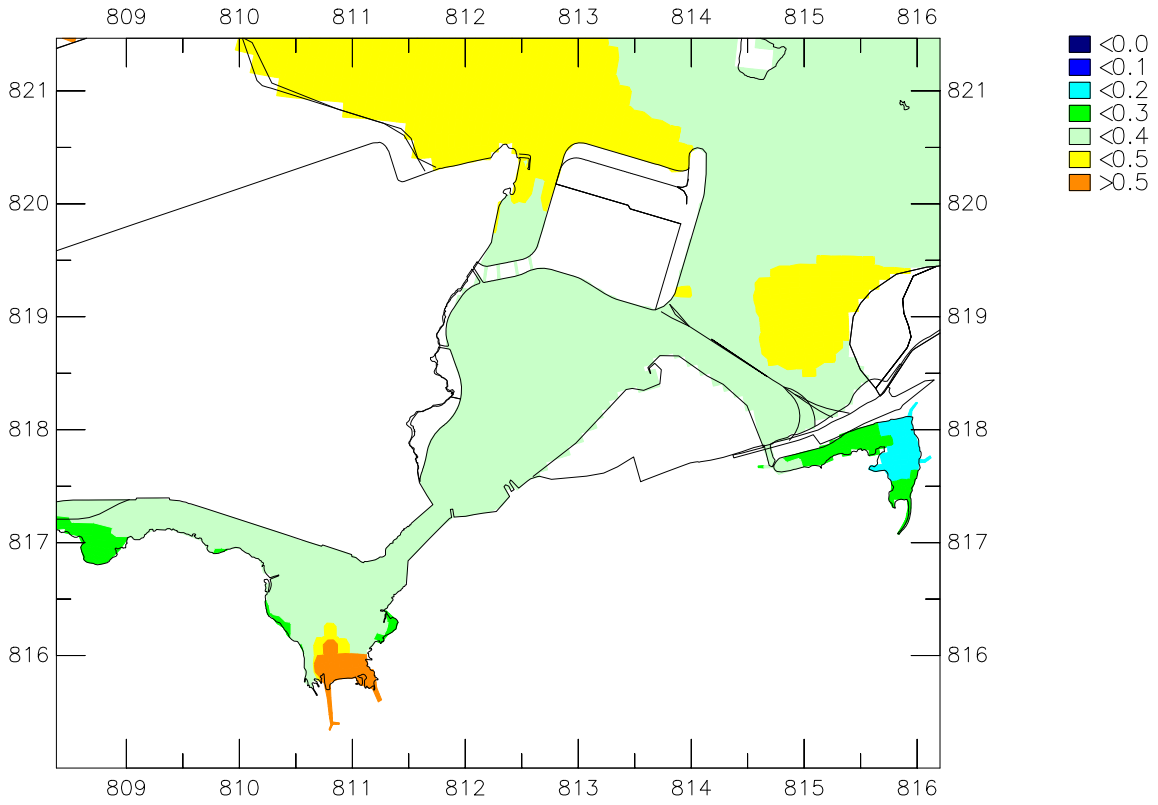

| | | |
|---|---|---|
| SS (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | SS-B-Dry | |
| Arup | | |



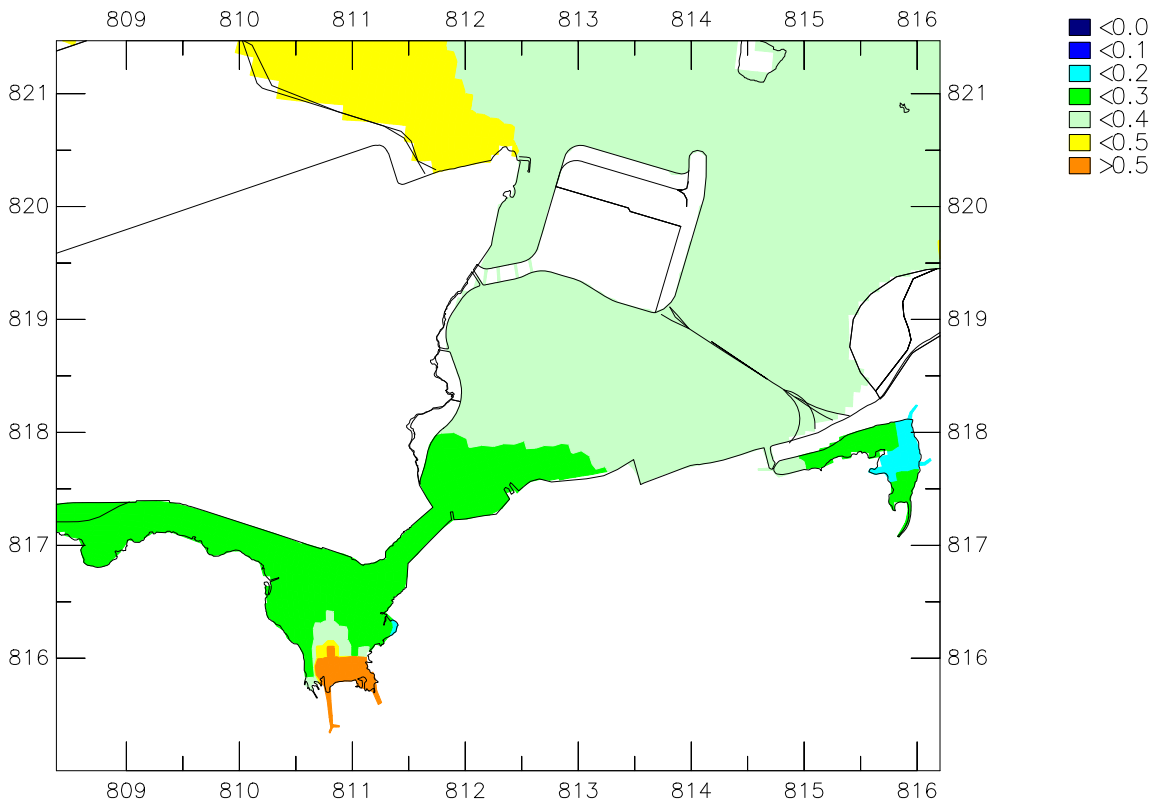



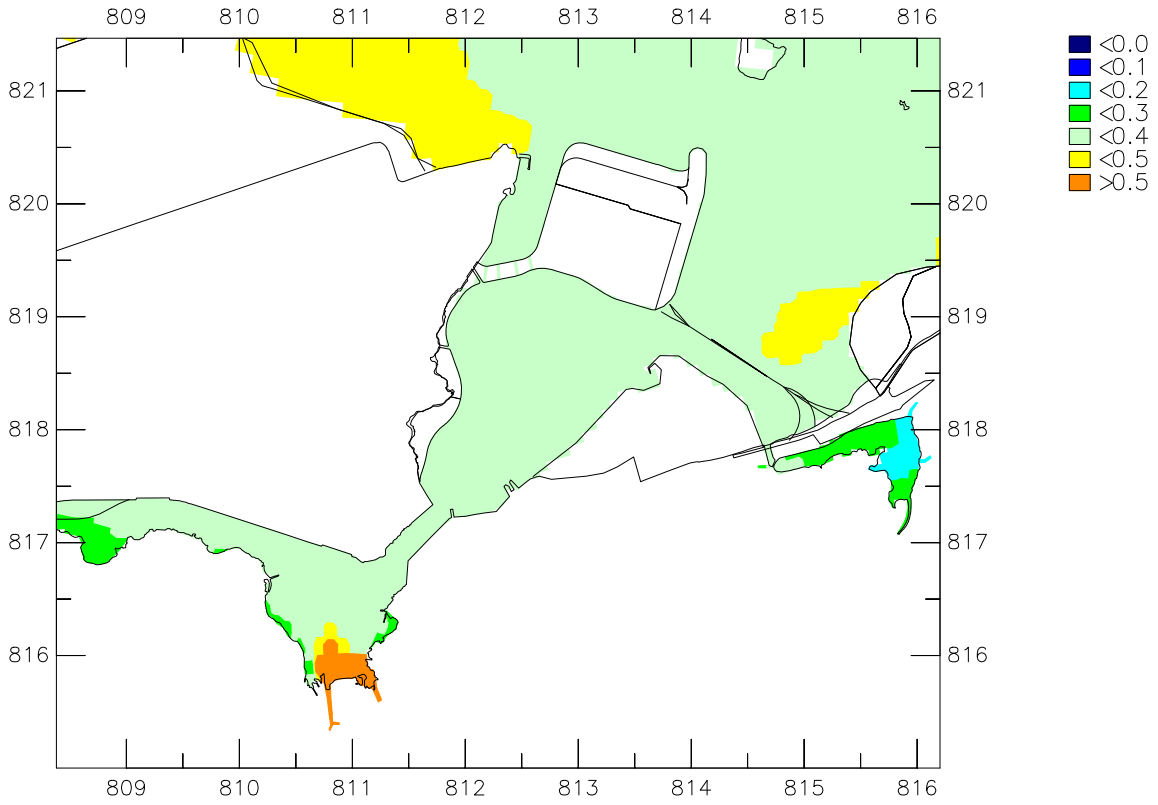

| | | |
|---|---|---|
| TIN (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | TIN–S–Dry | |
| Arup | | |



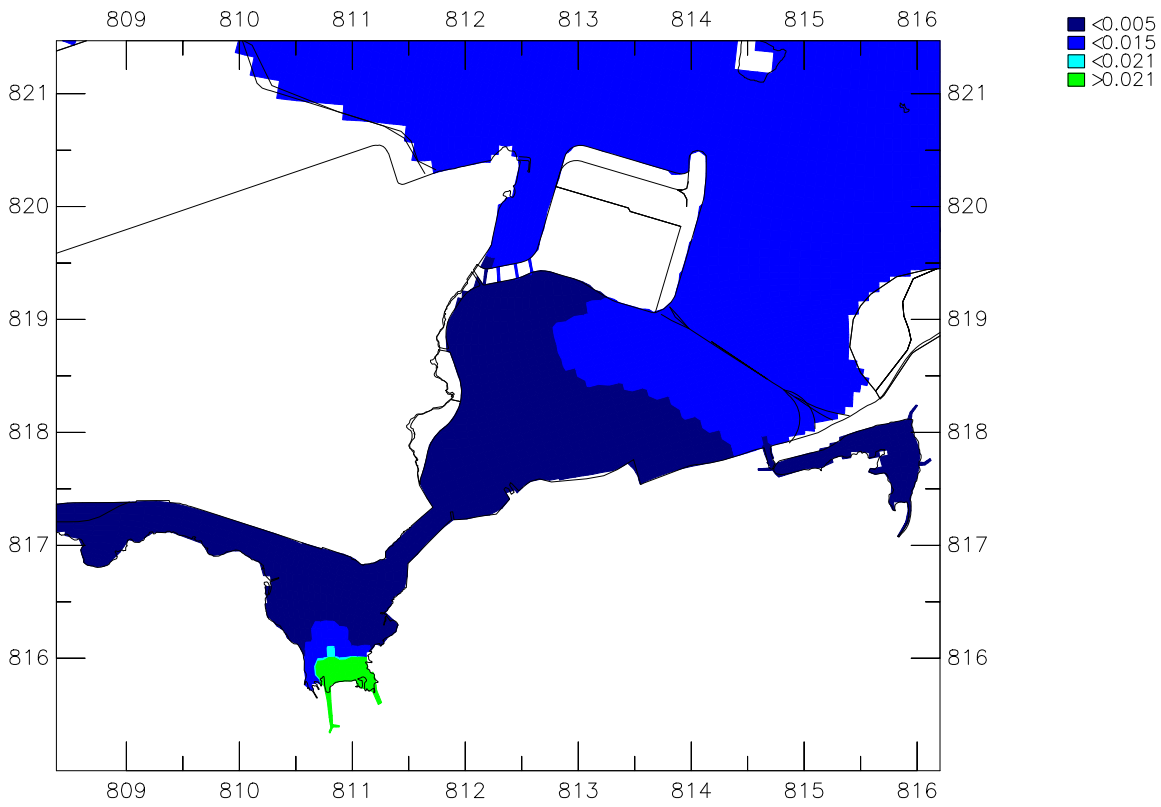



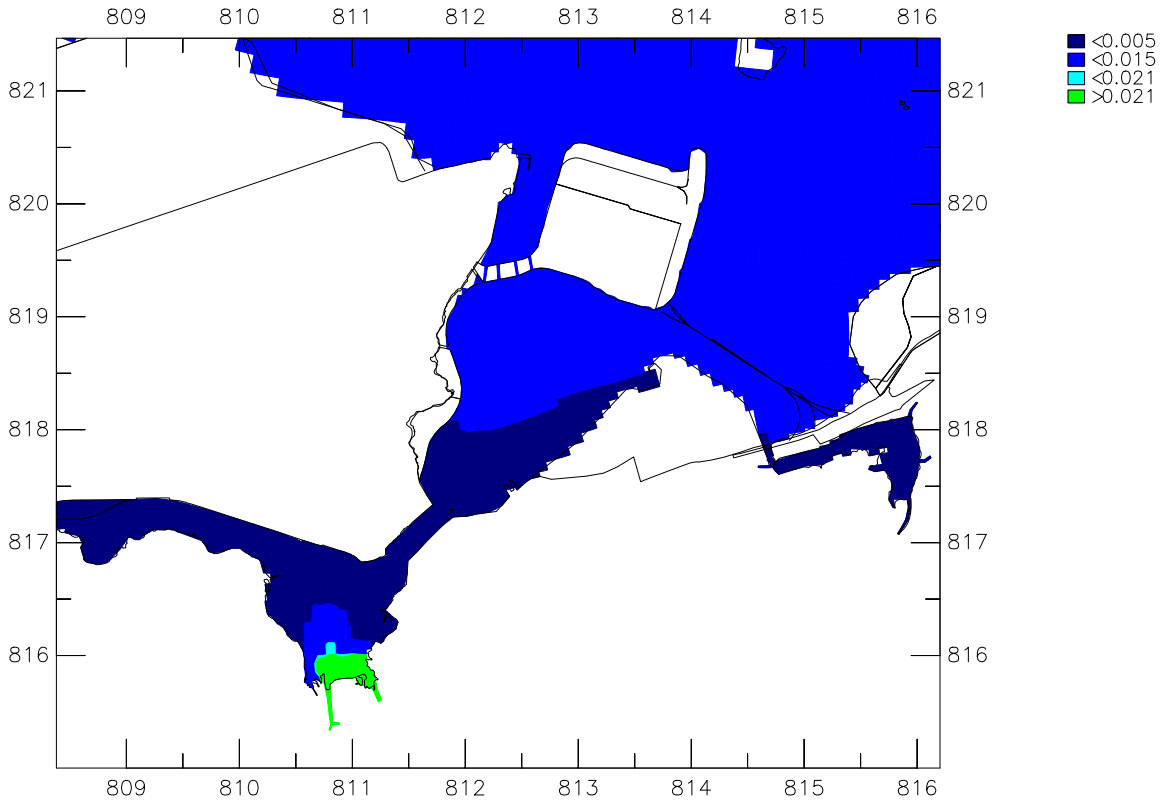

| | | |
|---|---|---|
| TIN (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | TIN–M–Dry | |
| Arup | | |



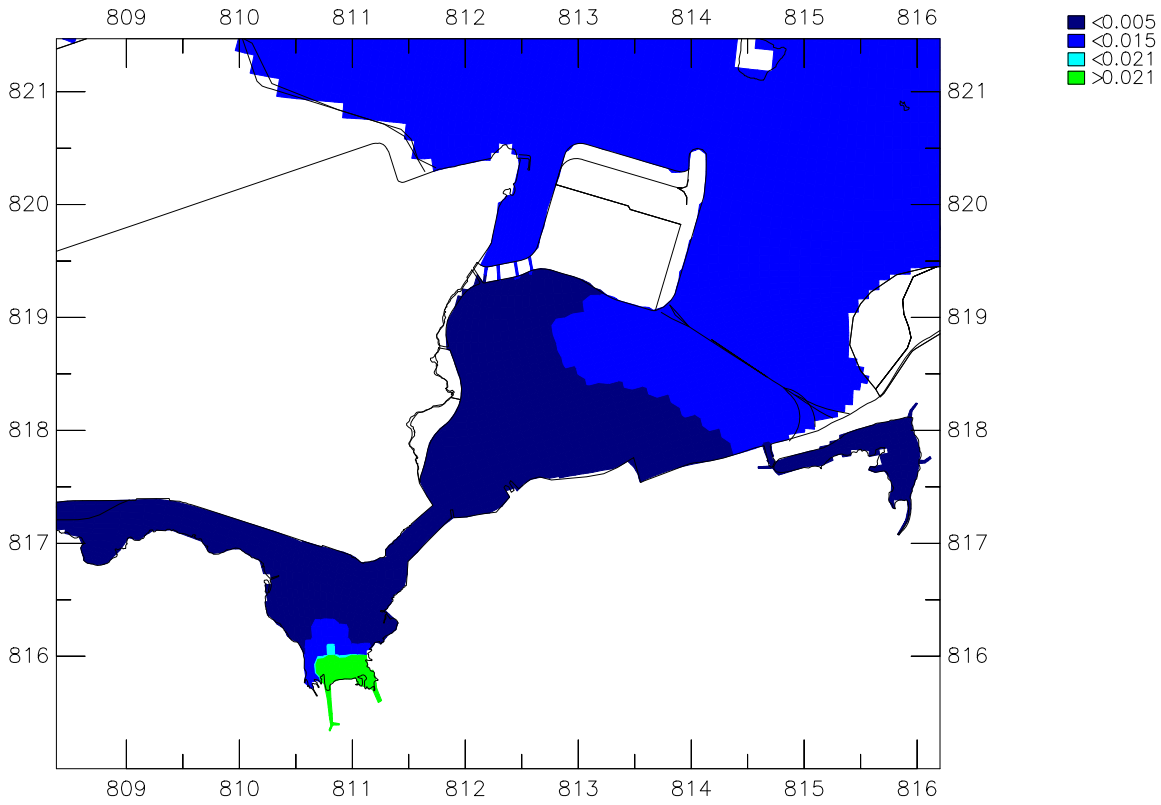



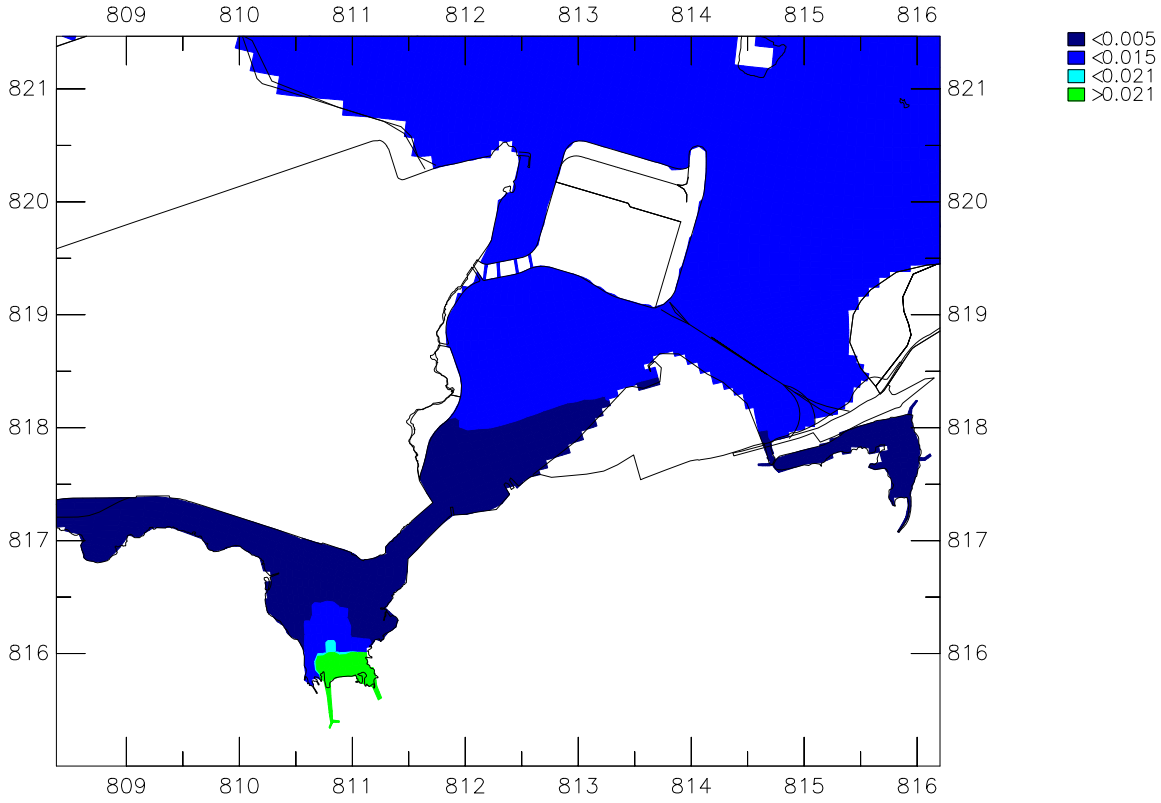

| | | |
|---|---|---|
| TIN (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | TIN–B–Dry | |
| Arup | | |



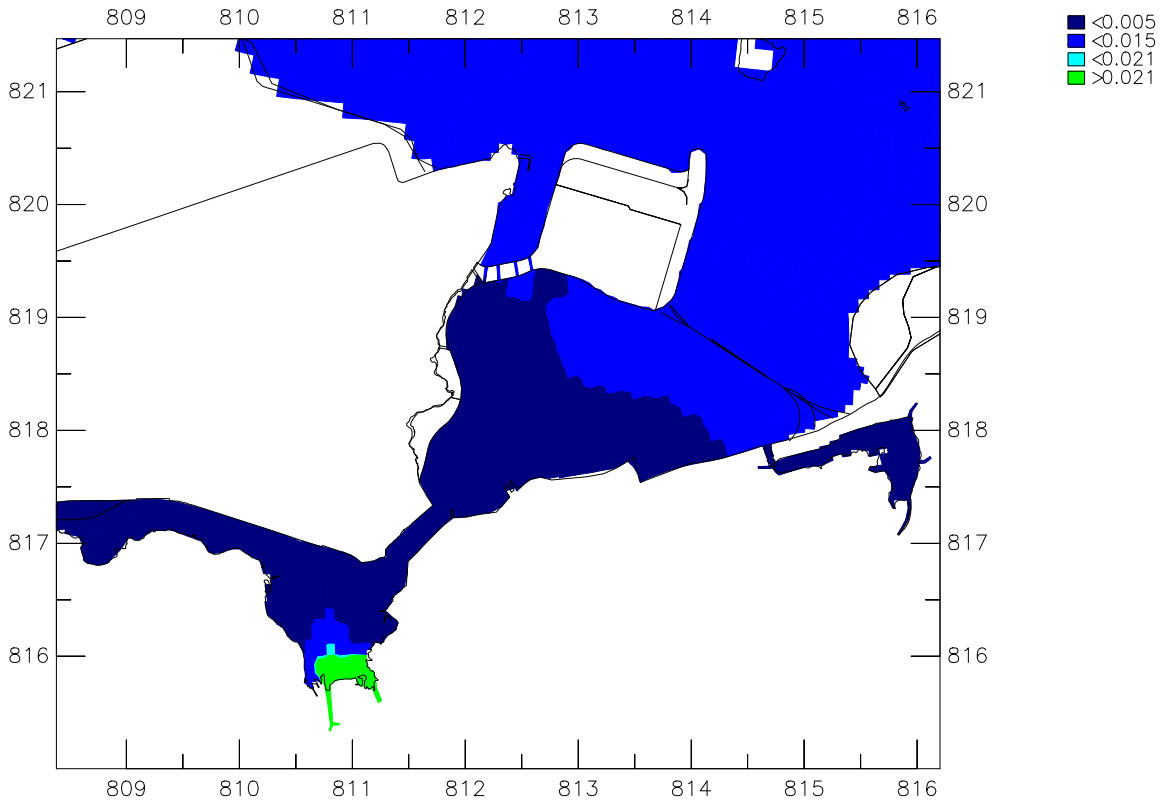



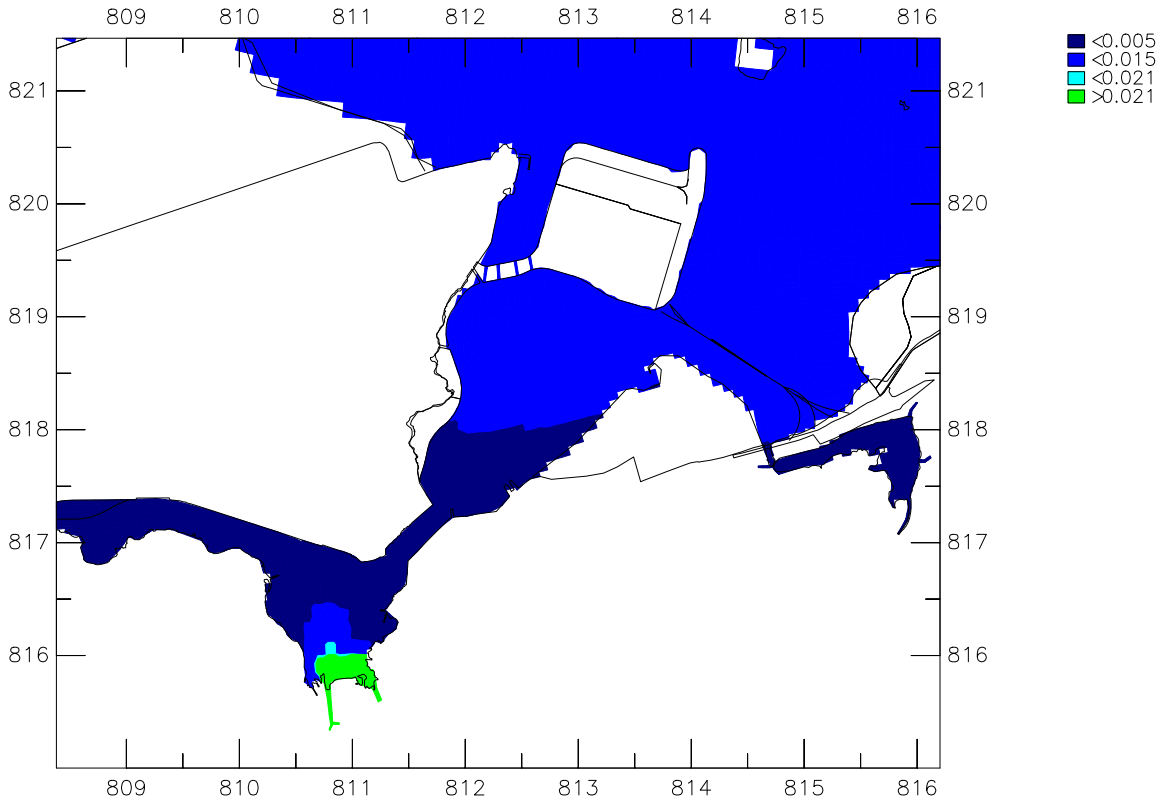

| | | |
|---|---|---|
| UIA (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | UIA–S–Dry | |
| Arup | | |



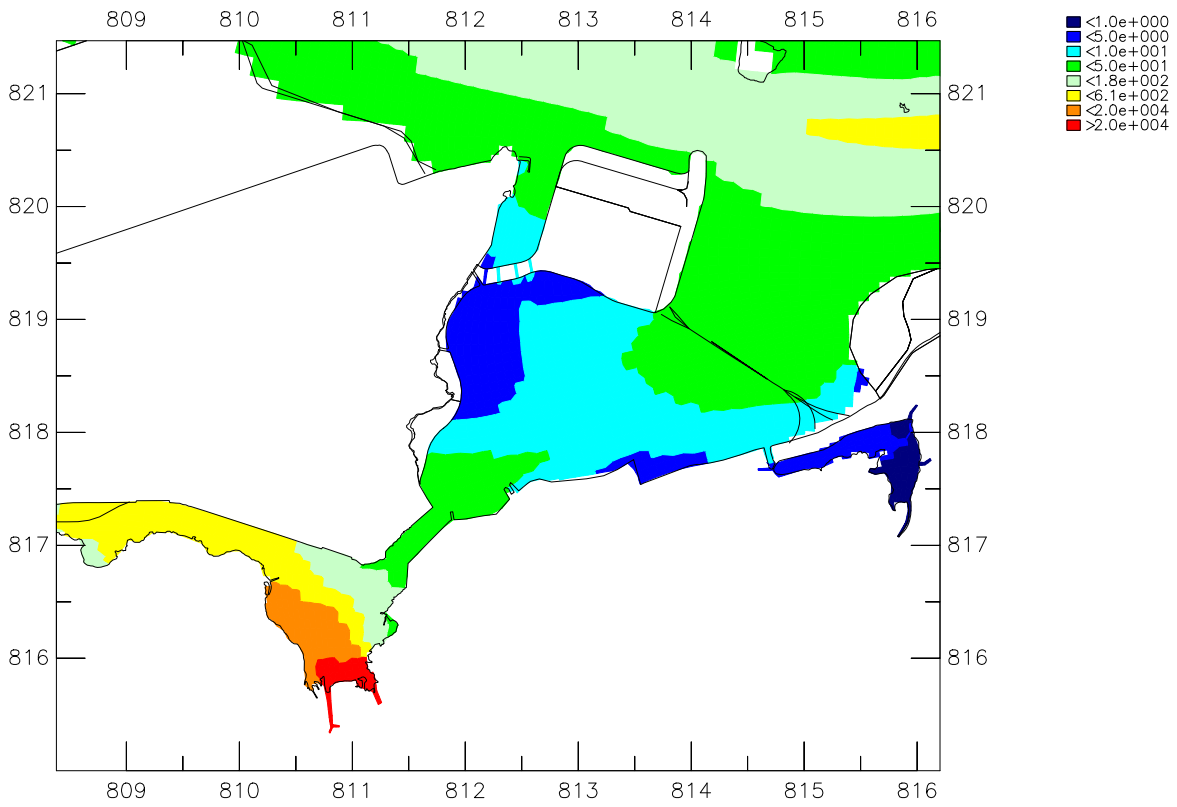



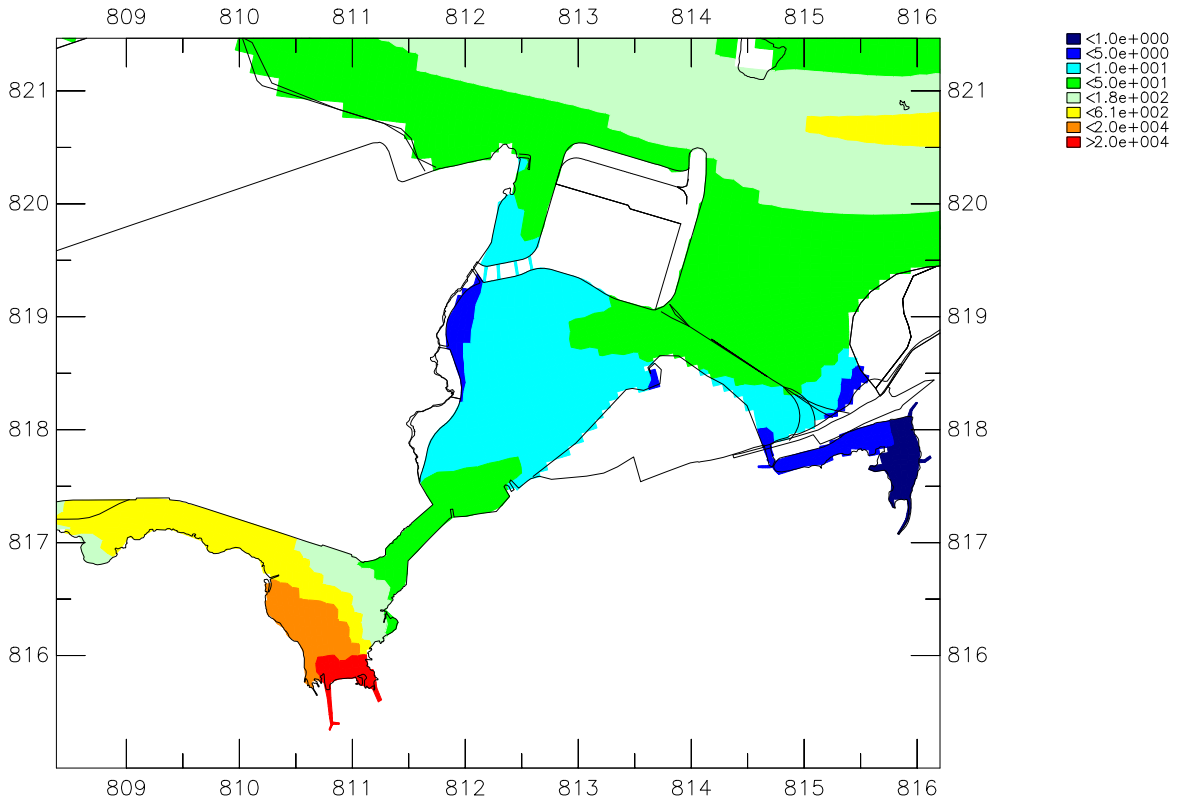

| | | |
|---|---|---|
| UIA (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | UIA–M–Dry | |
| Arup | | |



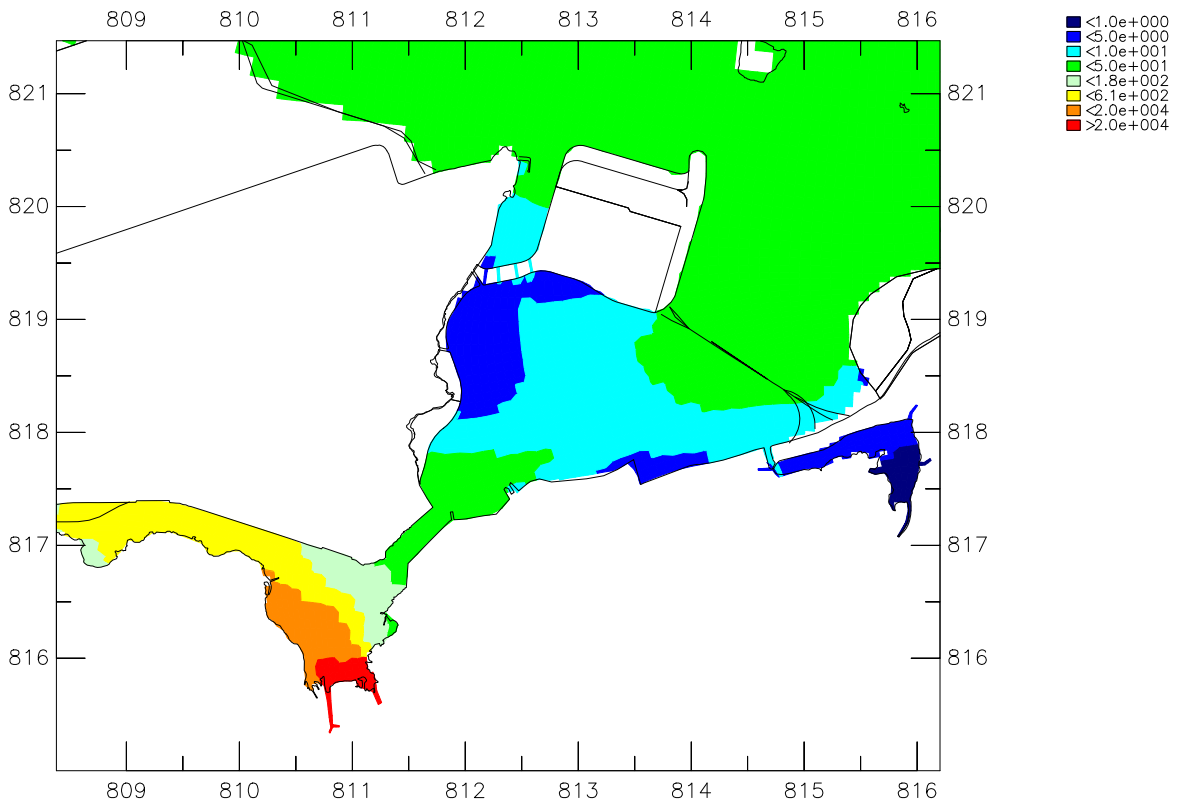



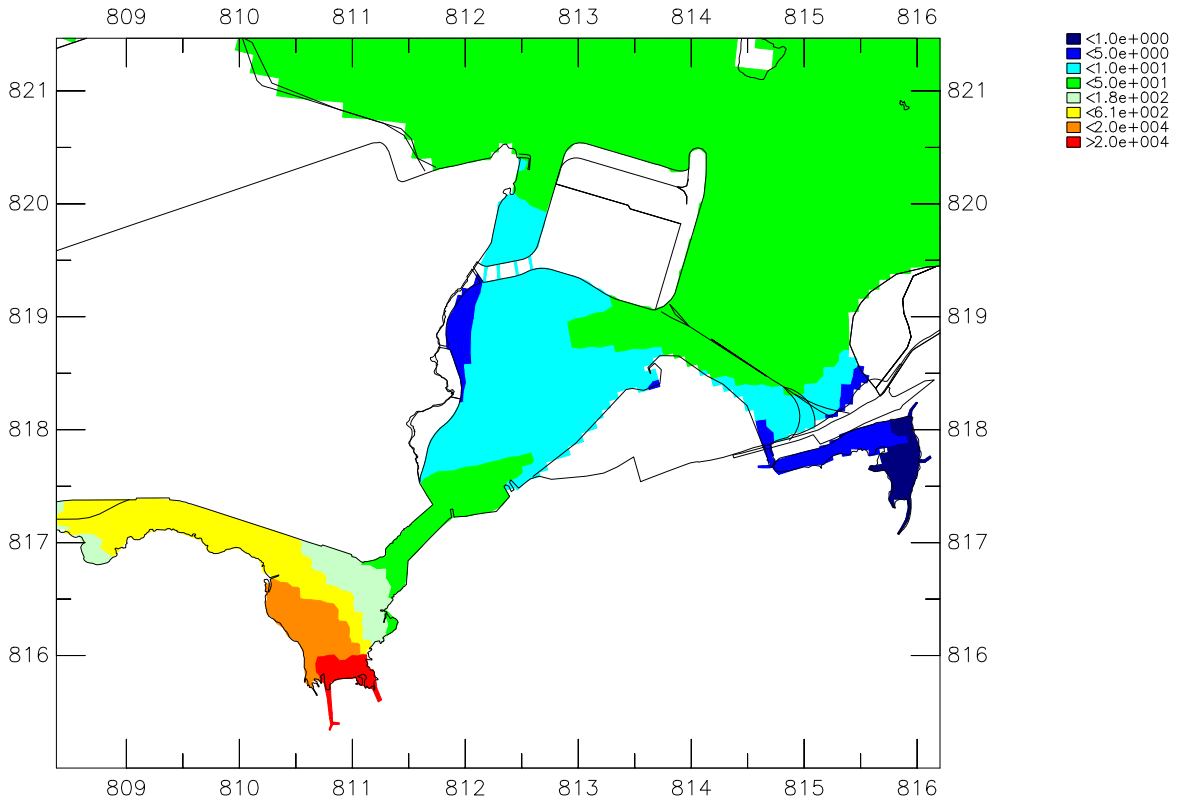

| | | |
|---|---|---|
| UIA (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | UIA–B–Dry | |
| Arup | | |



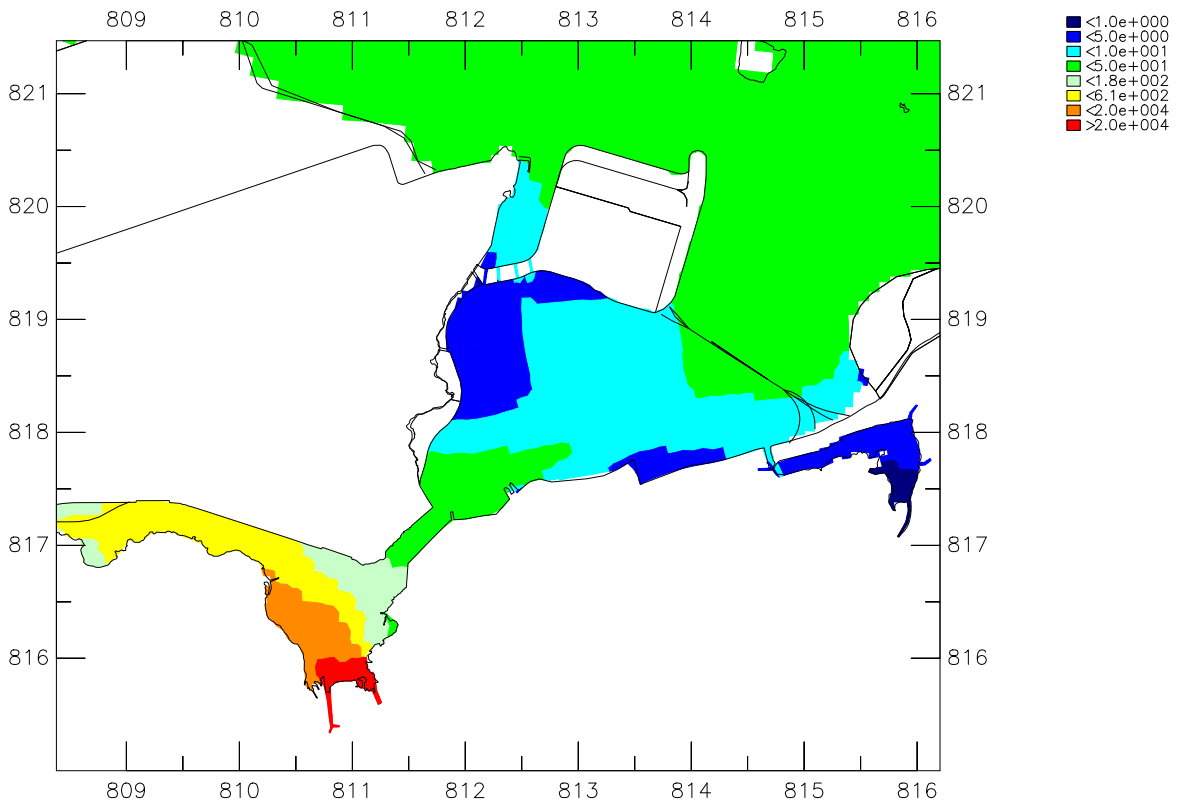



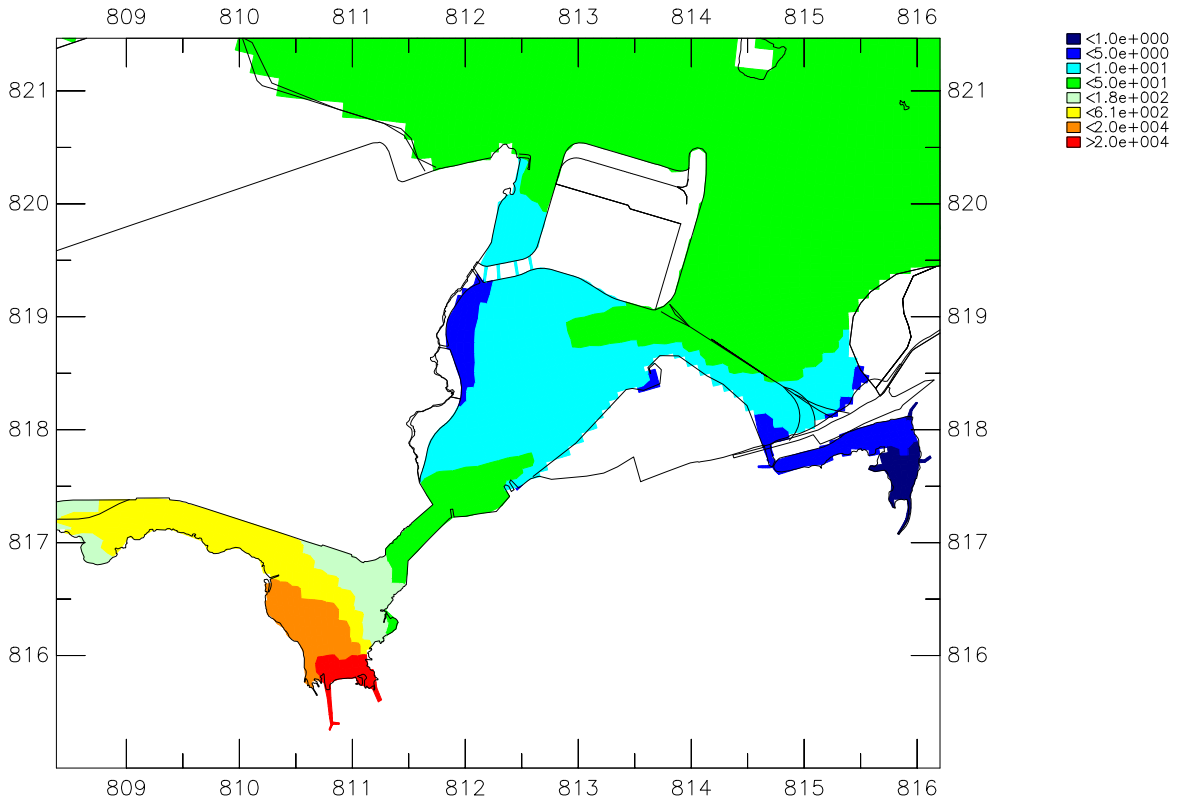

| | | |
|---|---|---|
| GM E. coli (Count/100mL), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | EColi-S-Wet | |
| Arup | | |



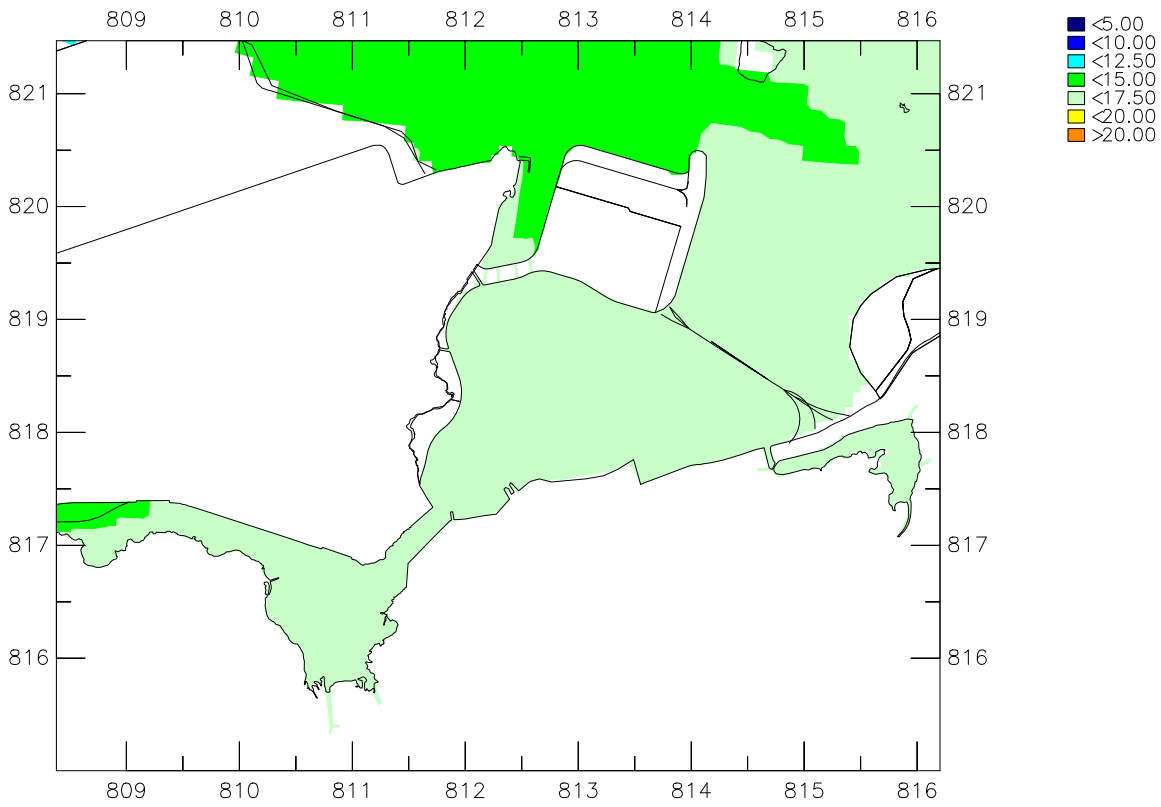



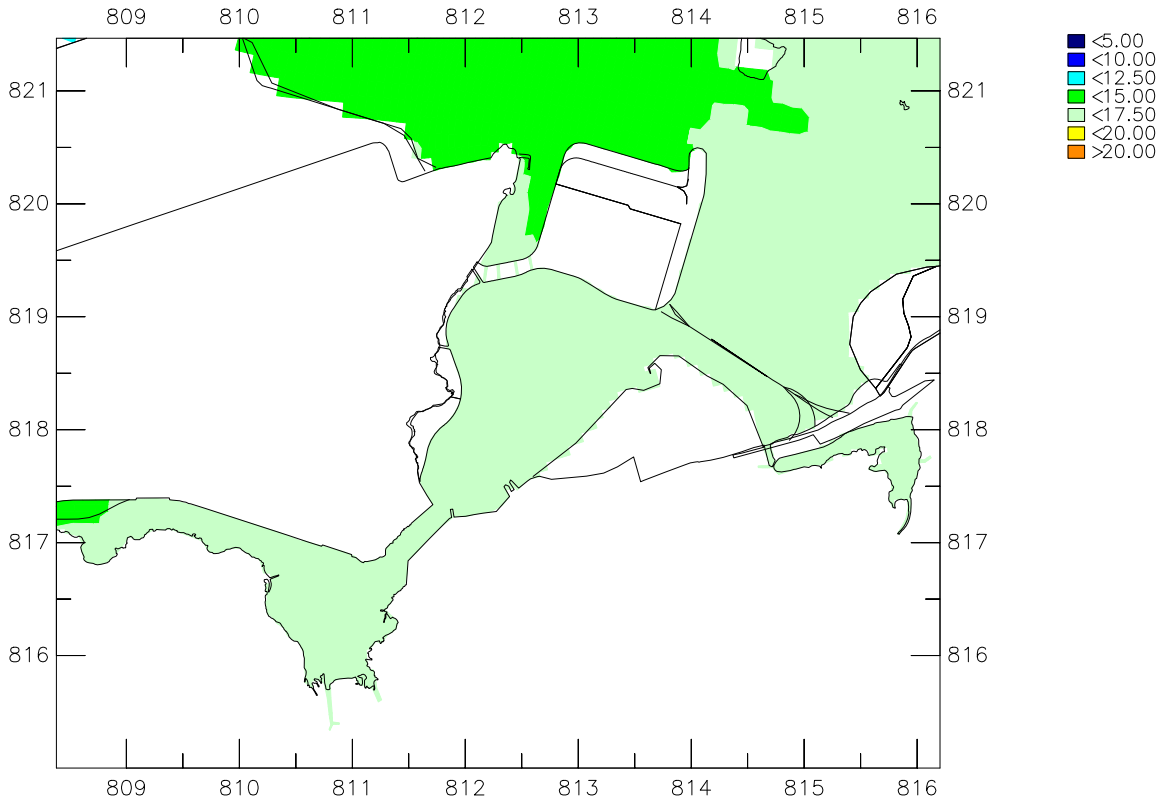

| | | |
|---|---|---|
| GM E. coli (Count/100mL), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | EColi-M-Wet | |
| Arup | | |



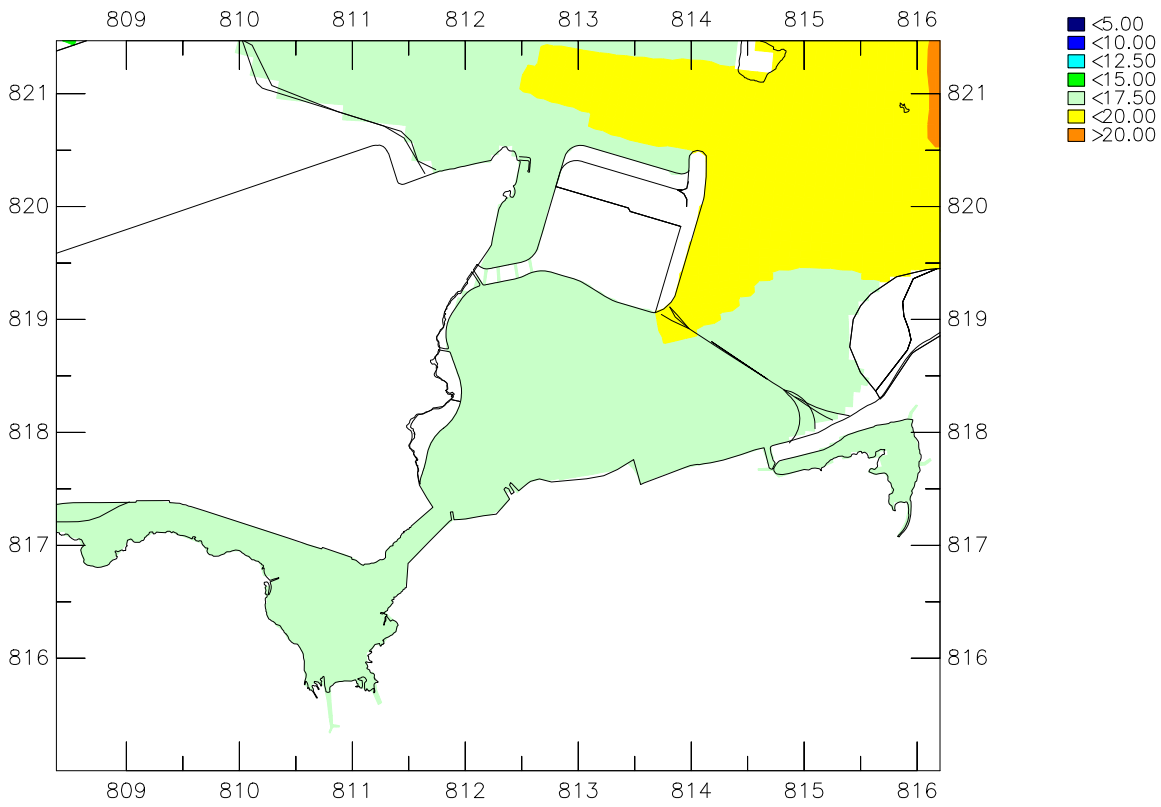



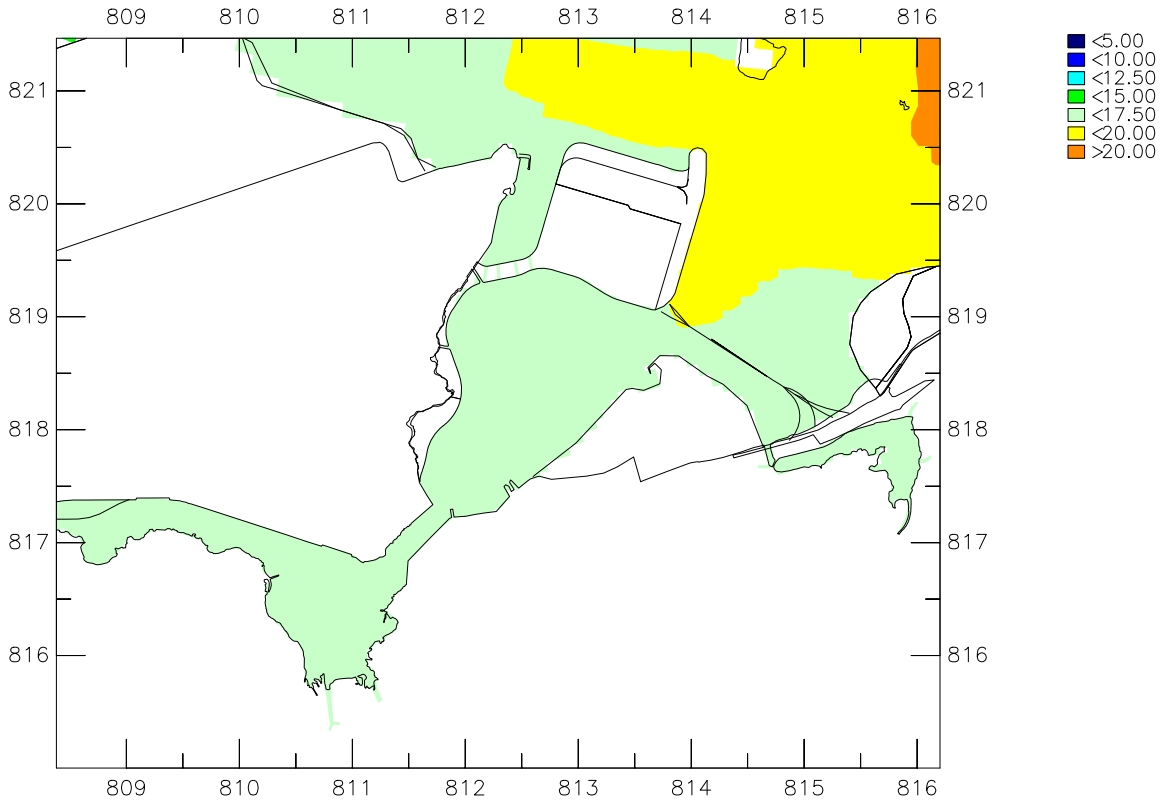

| | | |
|---|---|---|
| GM E. coli (Count/100mL), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Dry Season | |
| | EColi-B-Wet | |
| Arup | | |



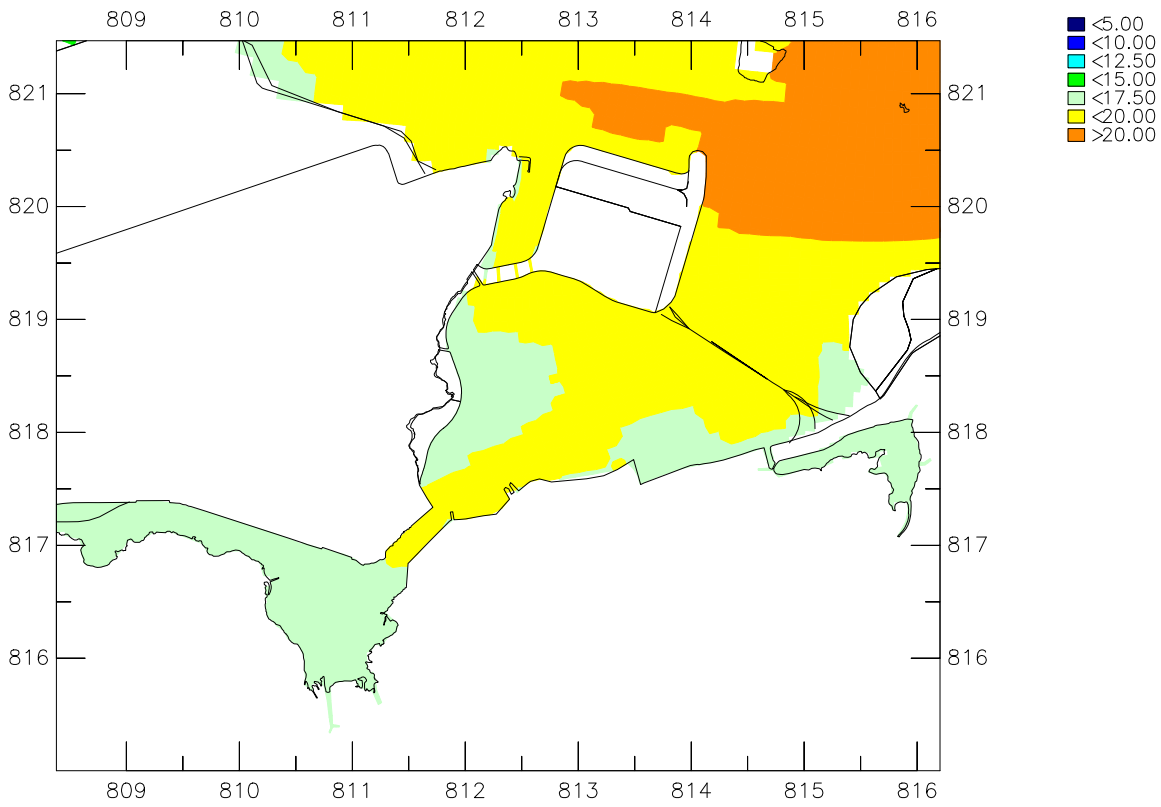



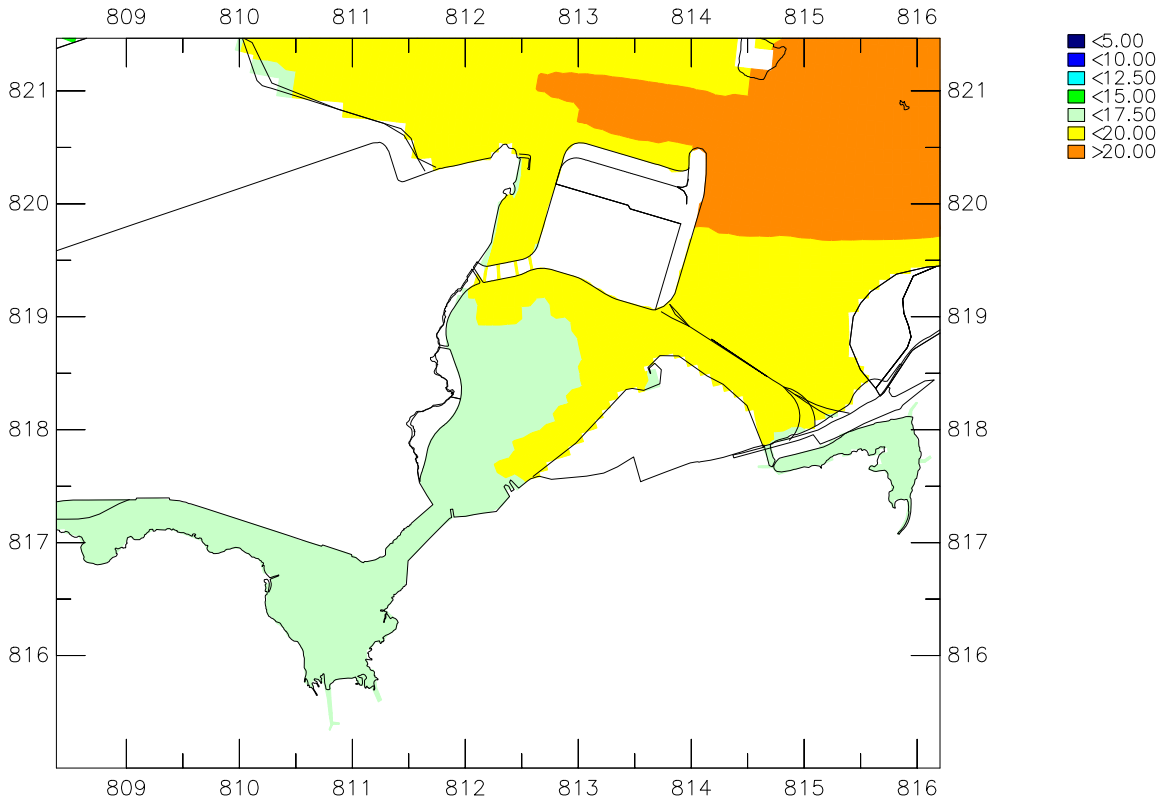

| | | |
|---|---|---|
| Salinity (psu), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | SA–S–Wet | |
| Arup | | |



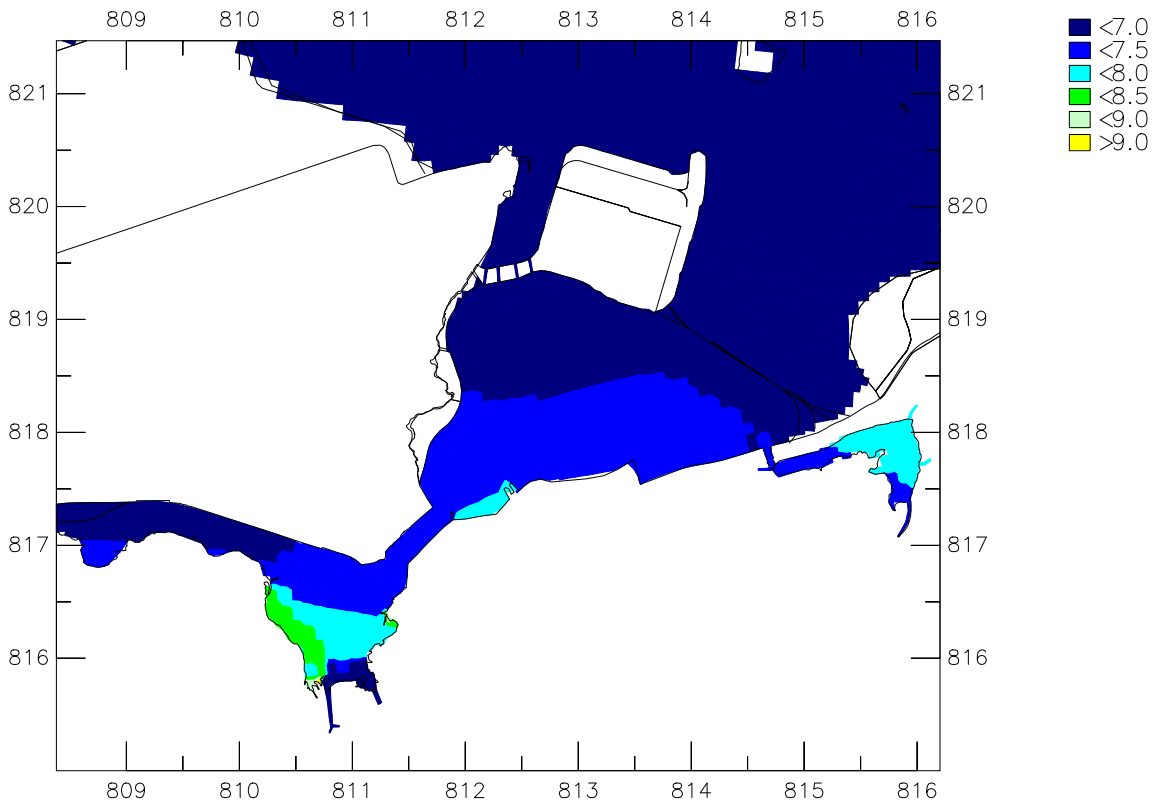



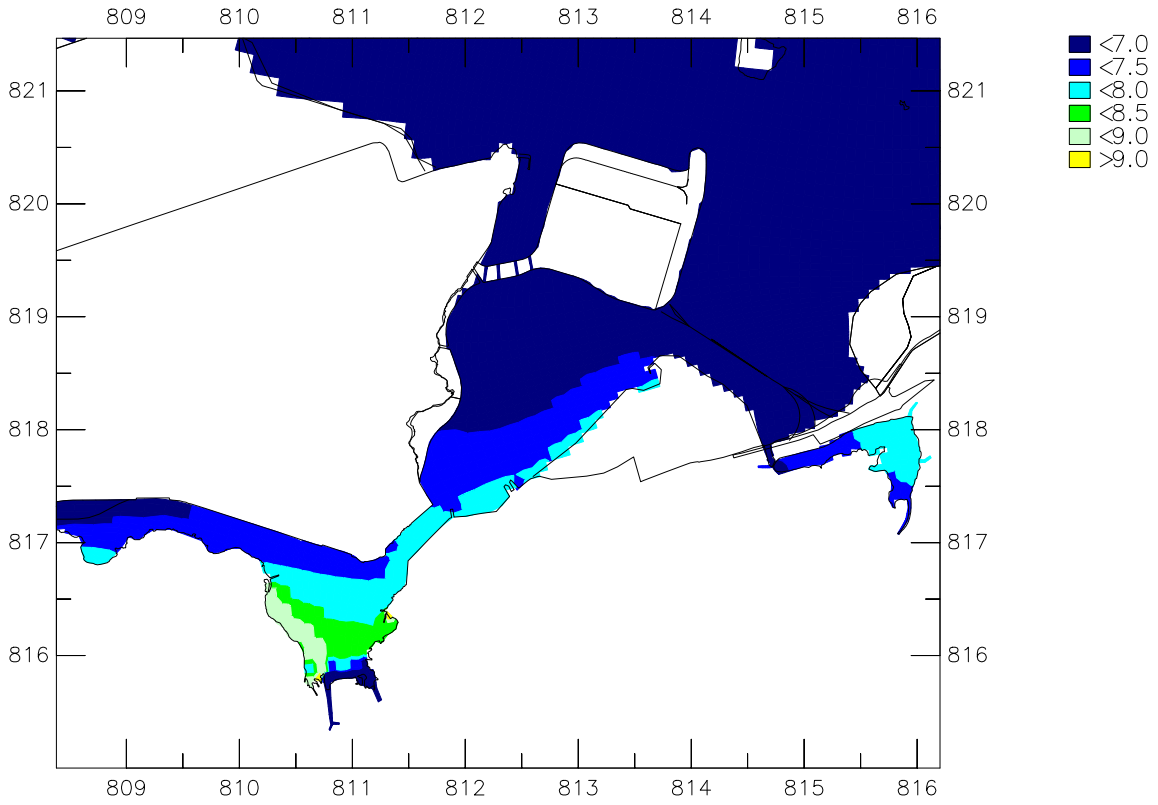

| | | |
|---|---|---|
| Salinity (psu), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | SA–M–Wet | |
| Arup | | |



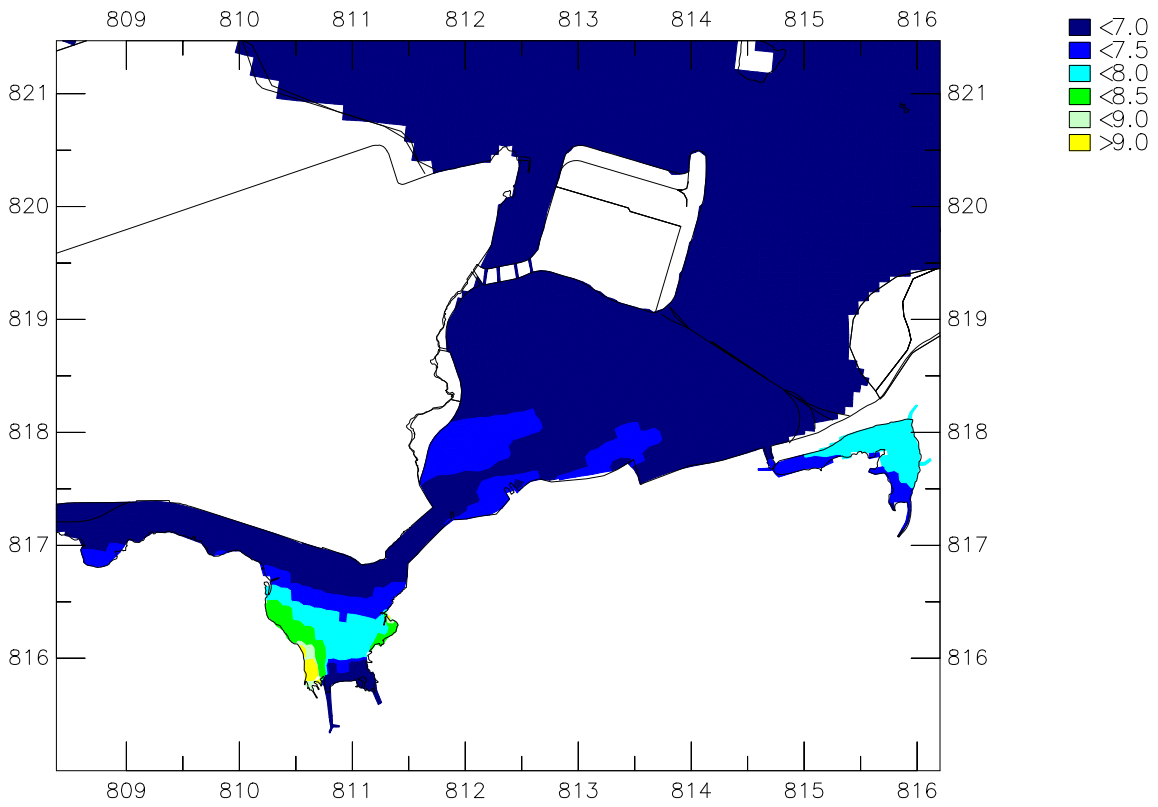



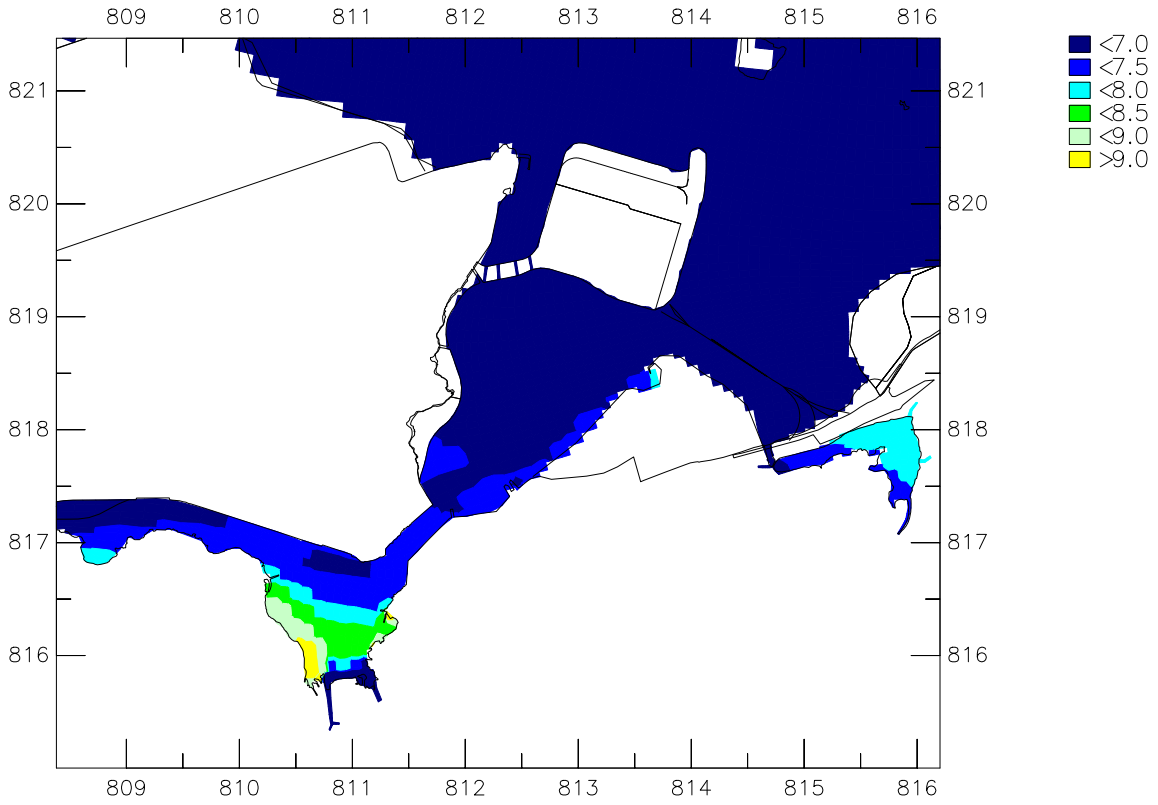

| | | |
|---|---|---|
| Salinity (psu), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | SA–B–Wet | |
| Arup | | |



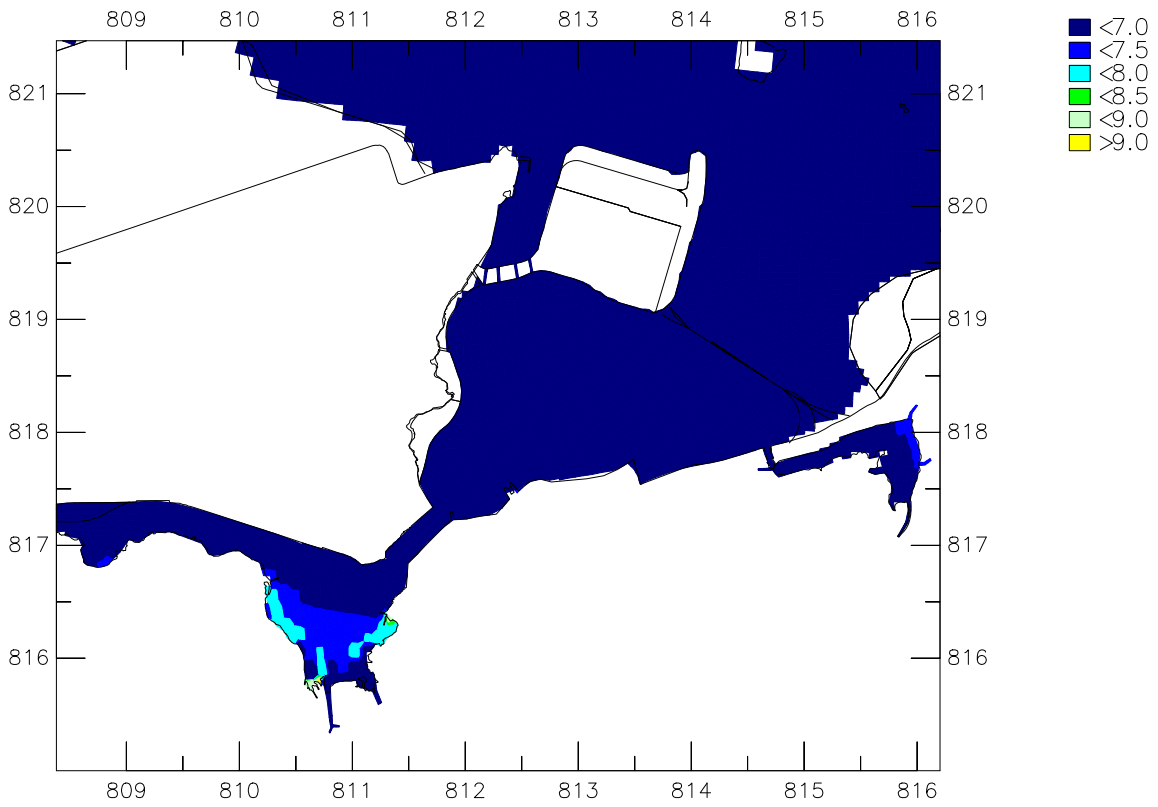



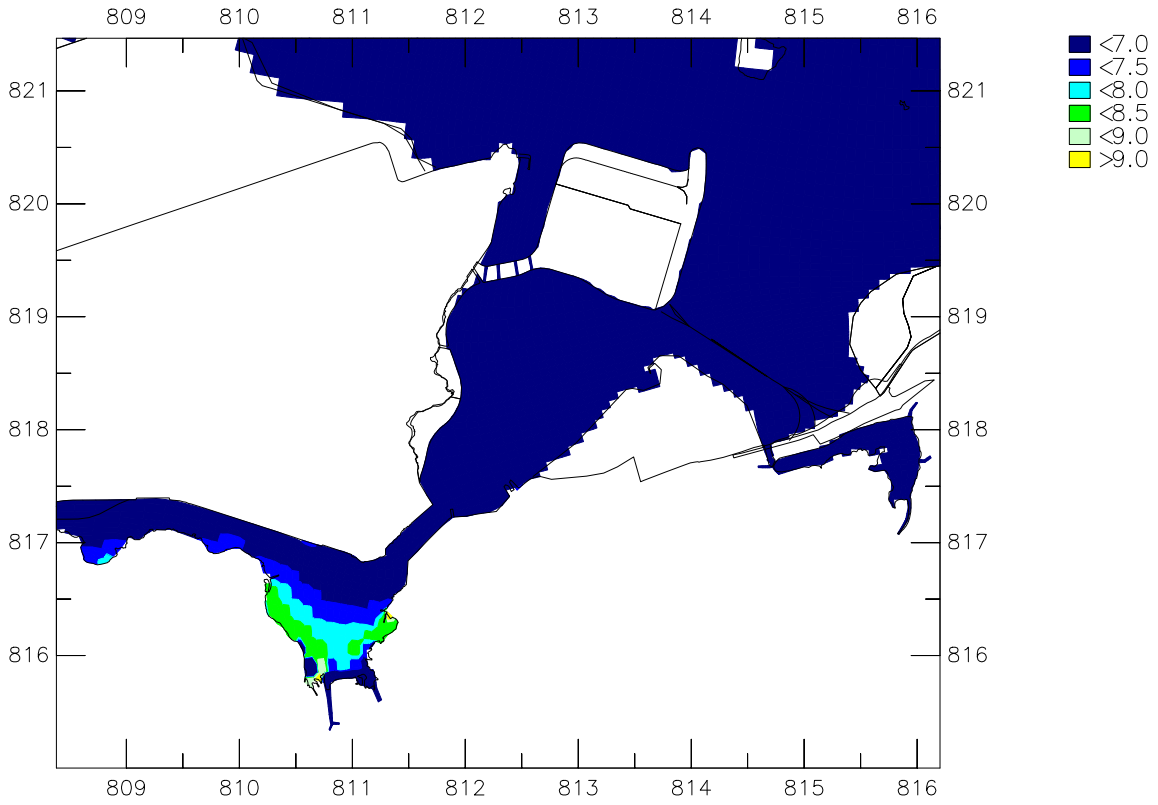

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | DO–S–Wet | |
| Arup | | |



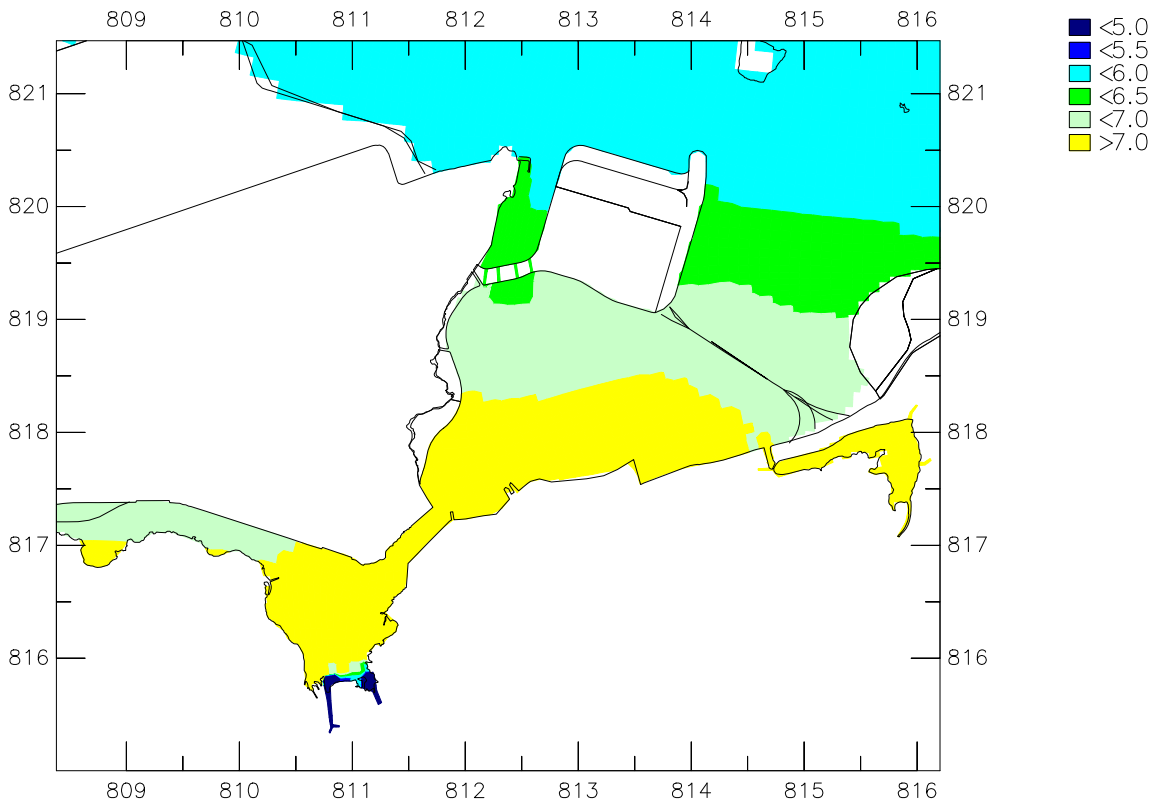



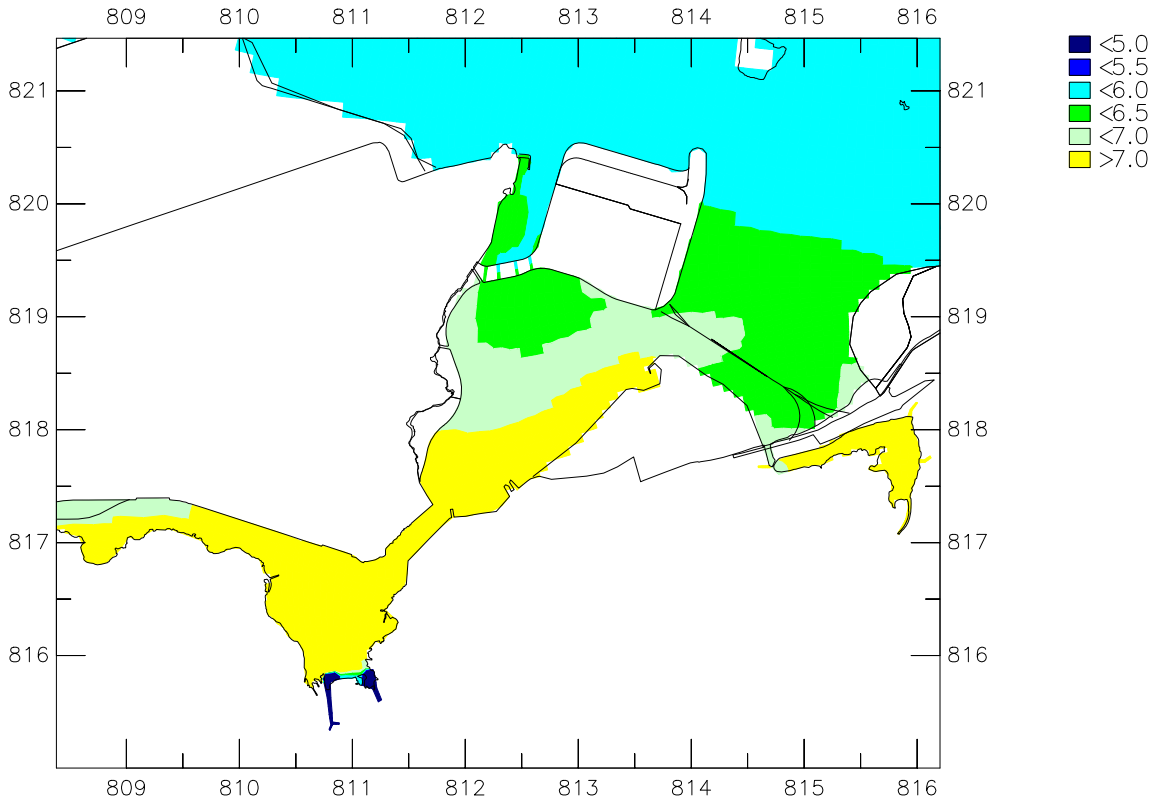

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | DO–M–Wet | |
| Arup | | |



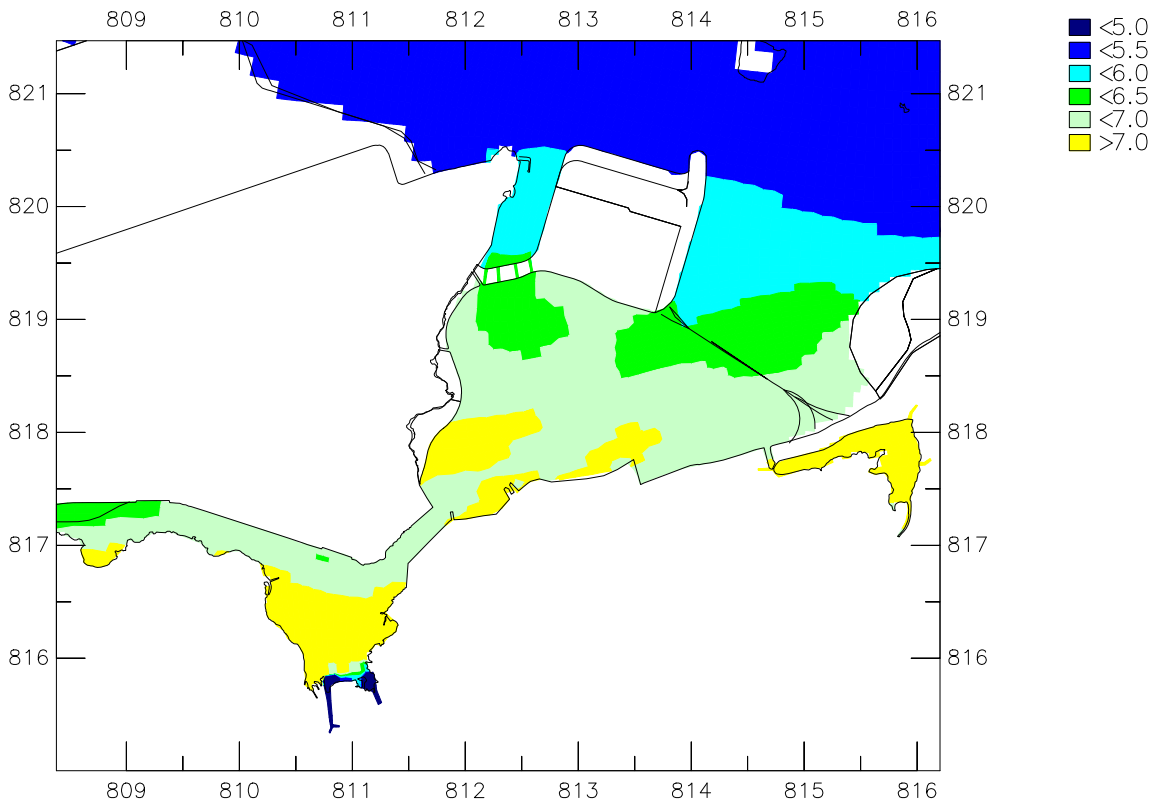



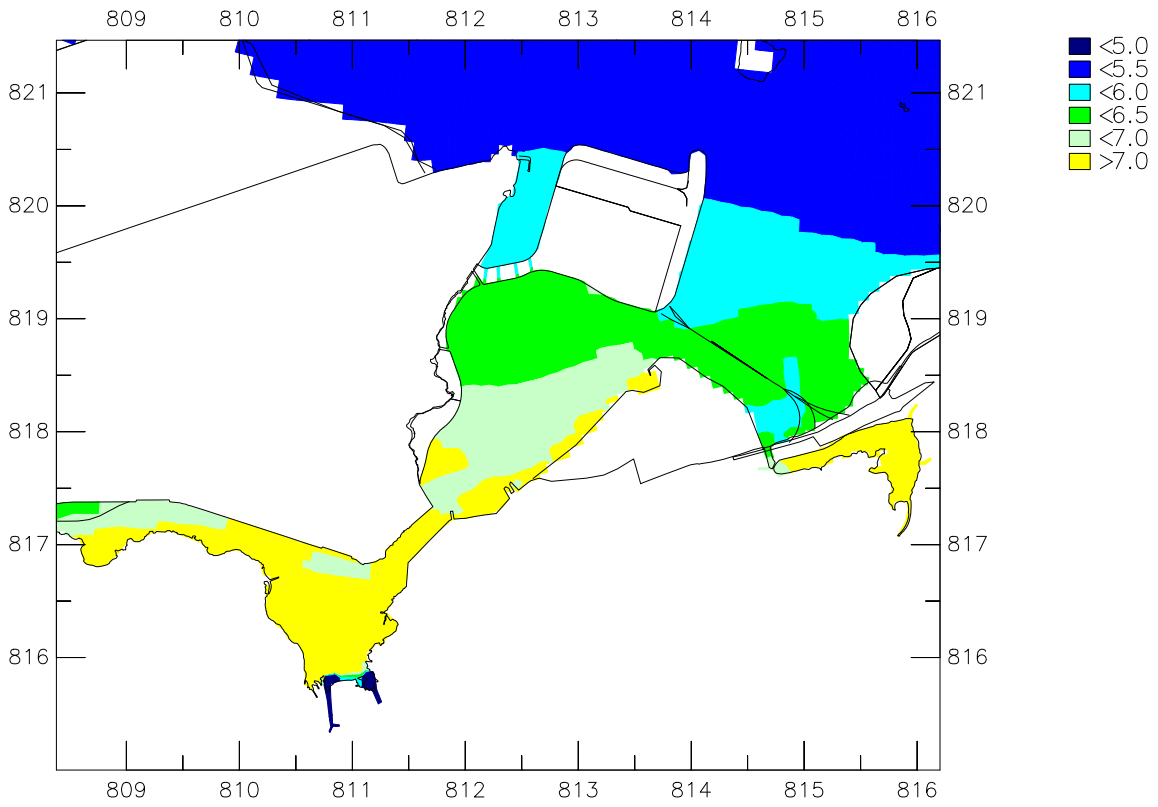

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | DO–B–Wet | |
| Arup | | |



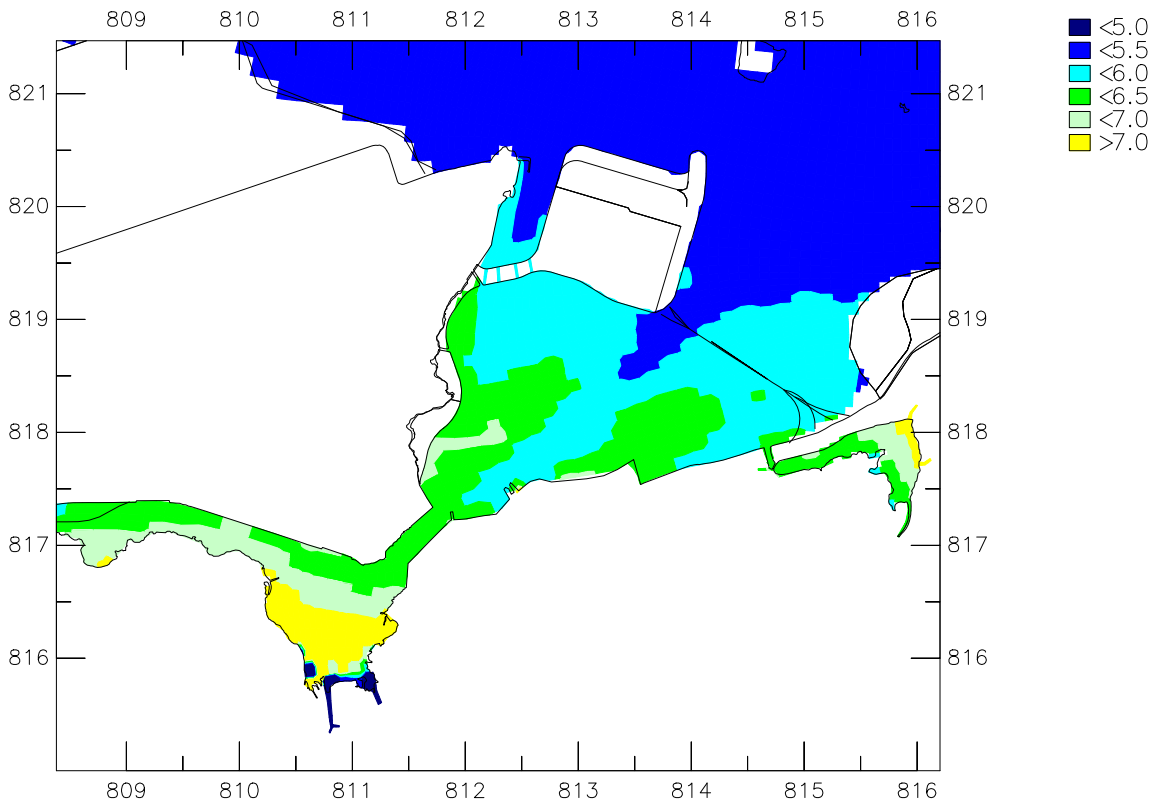



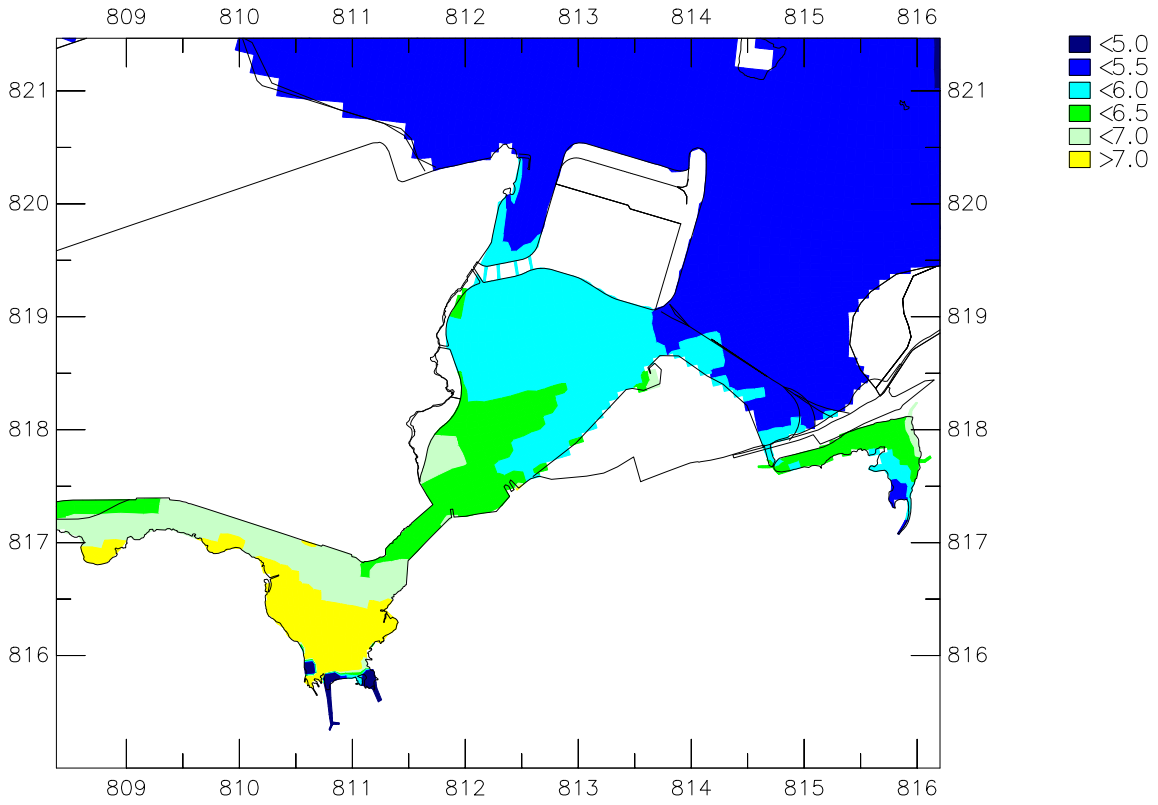

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | DO-S-Wet-2 | |
| Arup | | |



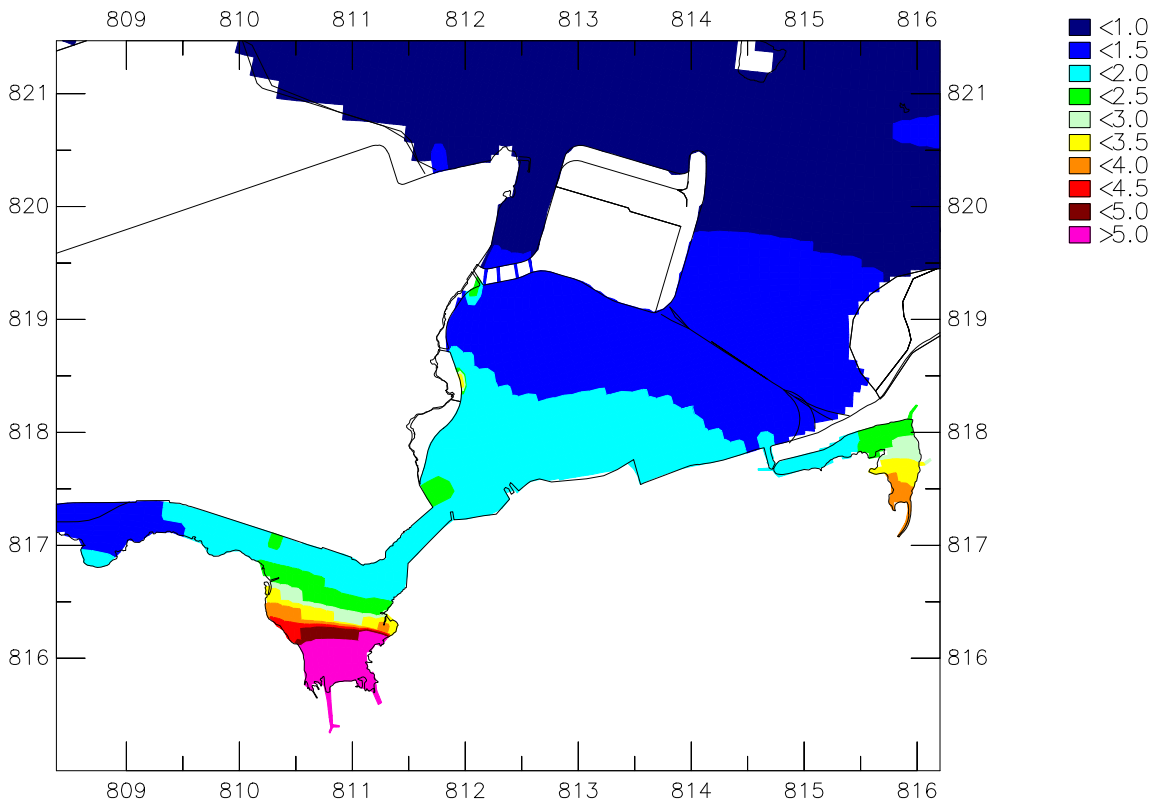



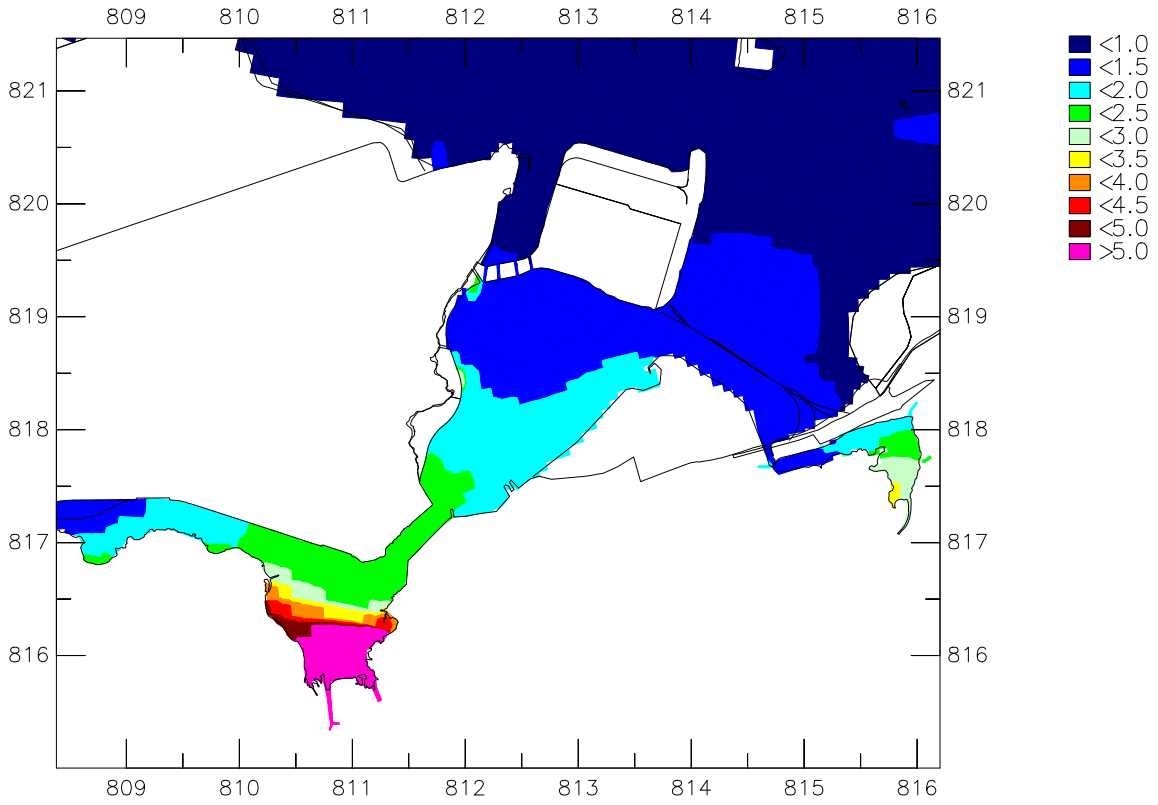

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | DO-M-Wet-2 | |
| Arup | | |



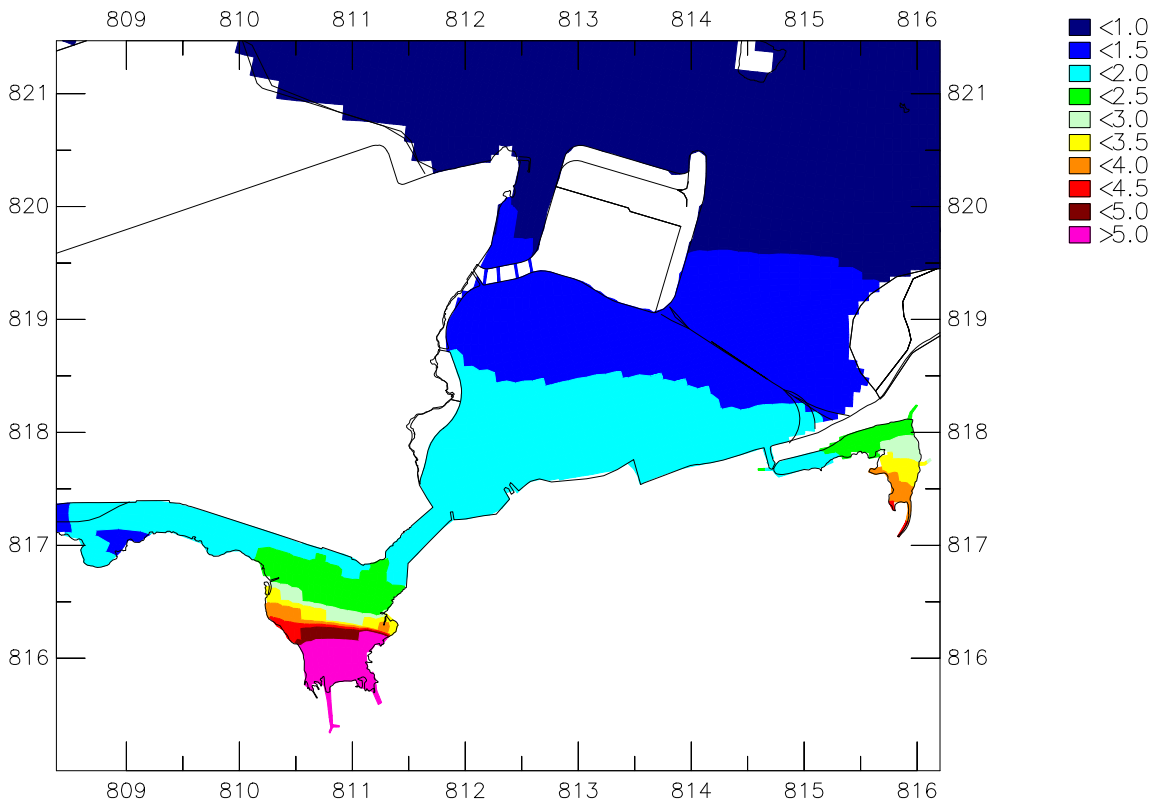



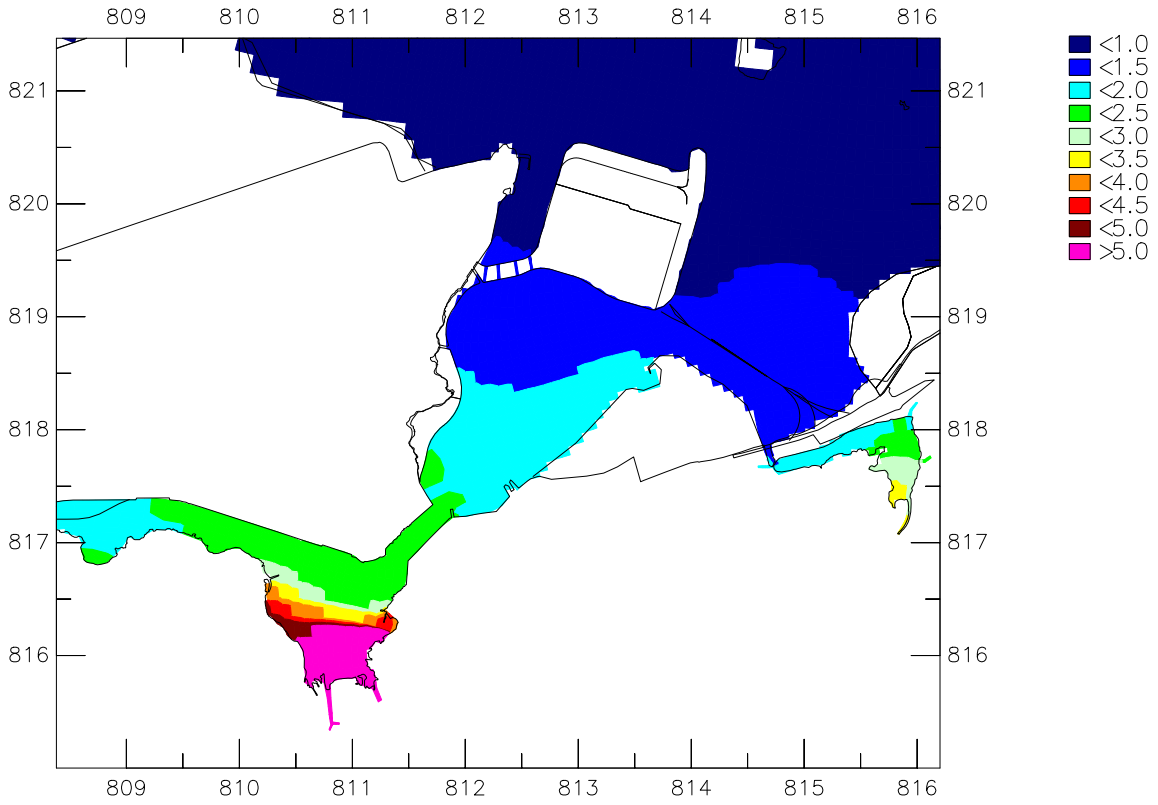

| | | |
|---|---|---|
| Dissolved Oxygen (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | DO–B–Wet–2 | |
| Arup | | |



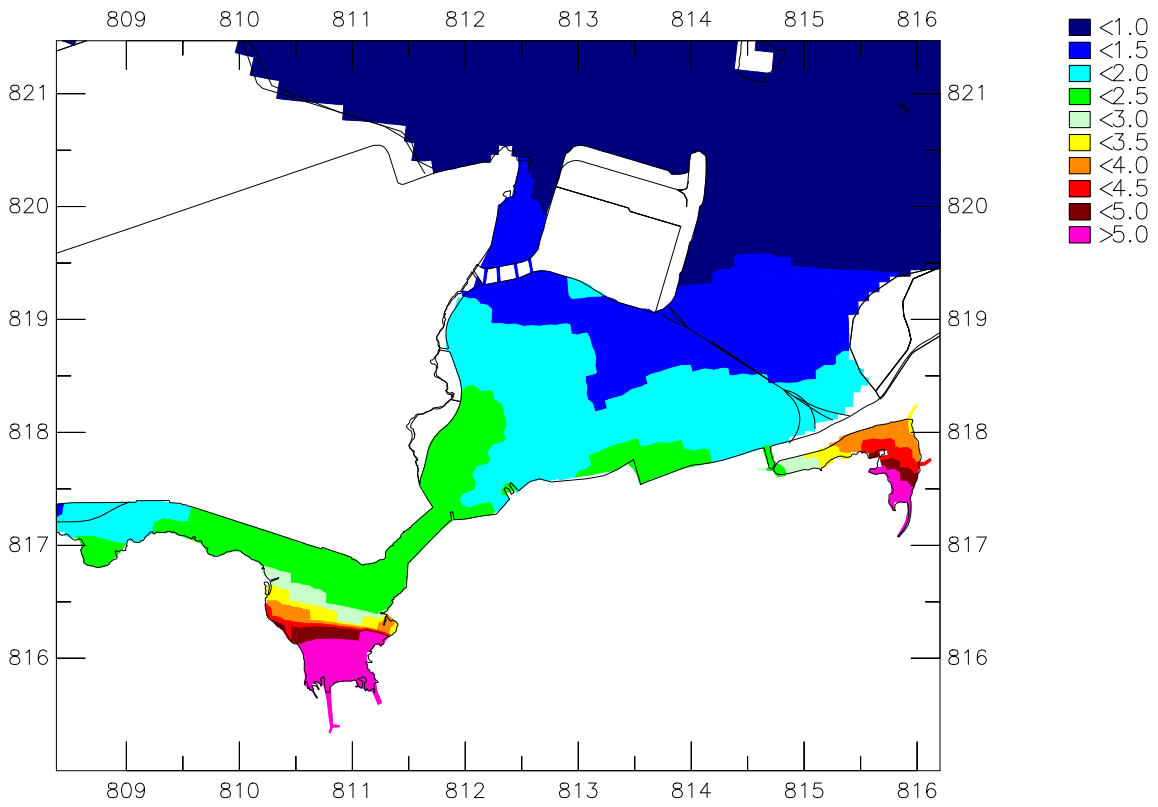



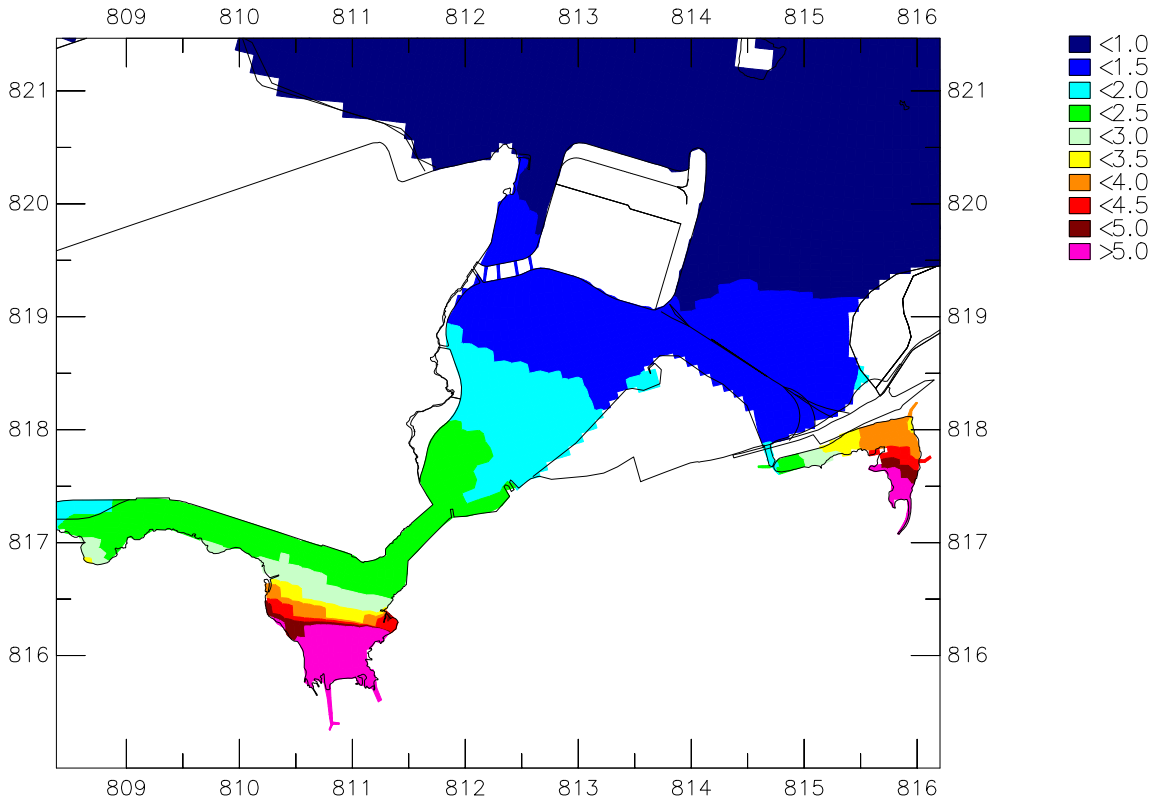

| | | |
|---|---|---|
| BOD5 (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | BOD5-S-Wet | |
| Arup | | |



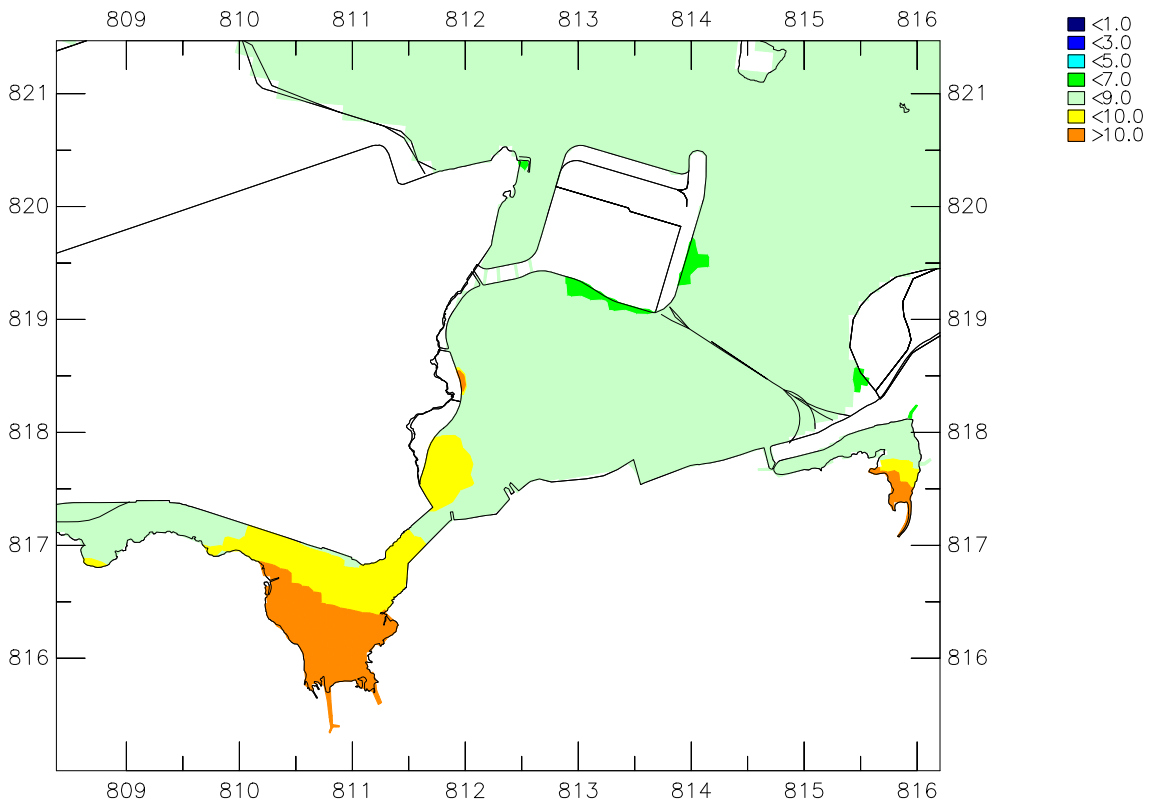



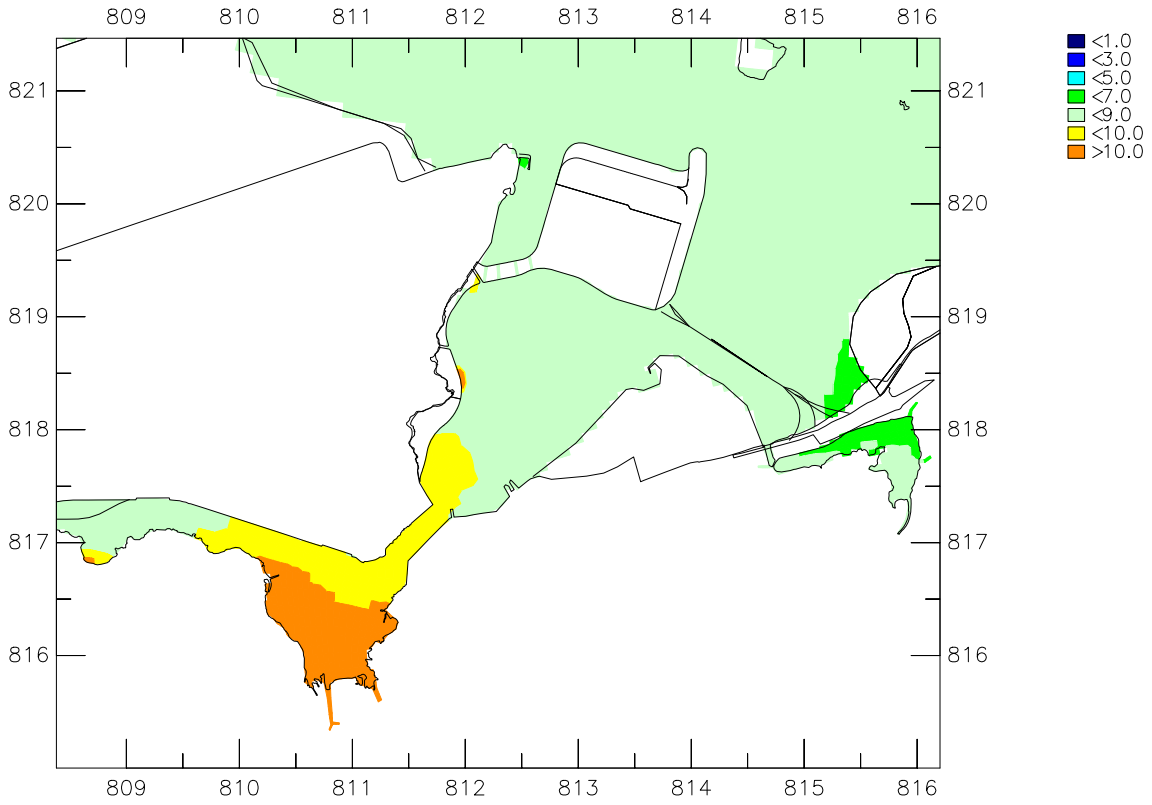

| | | |
|---|---|---|
| BOD5 (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | BOD5-M-Wet | |
| Arup | | |



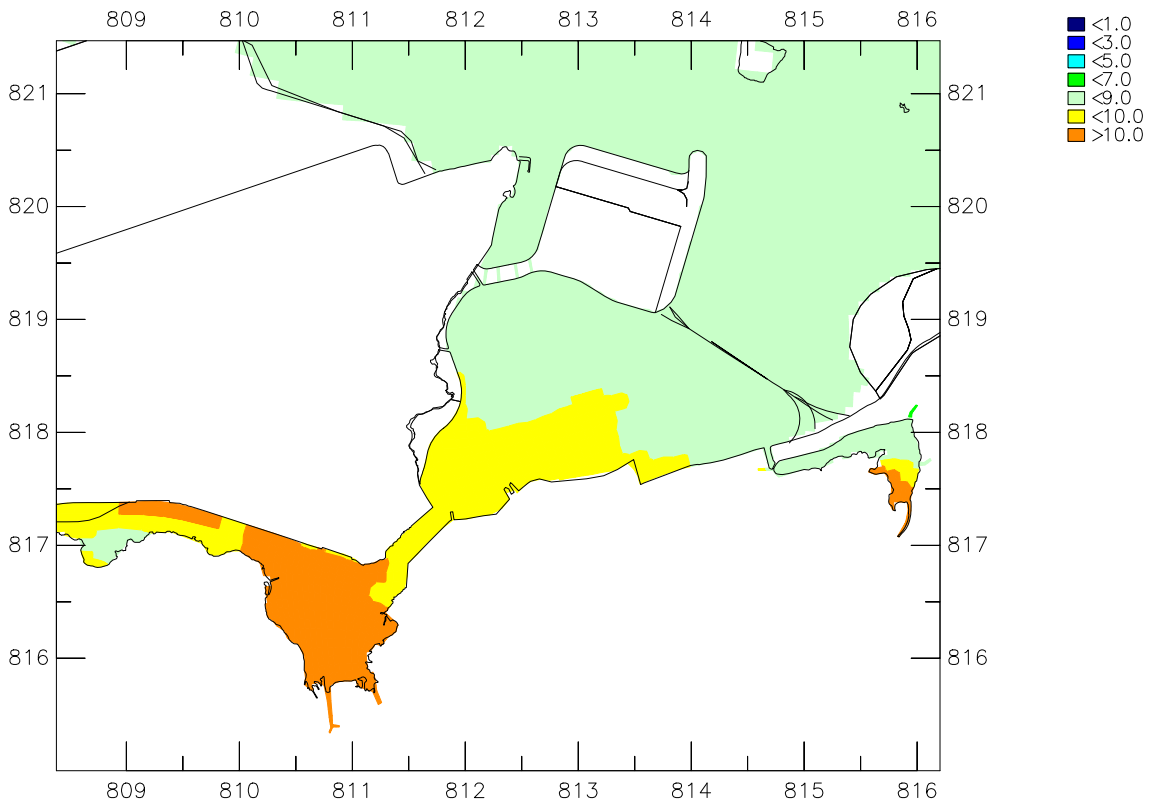



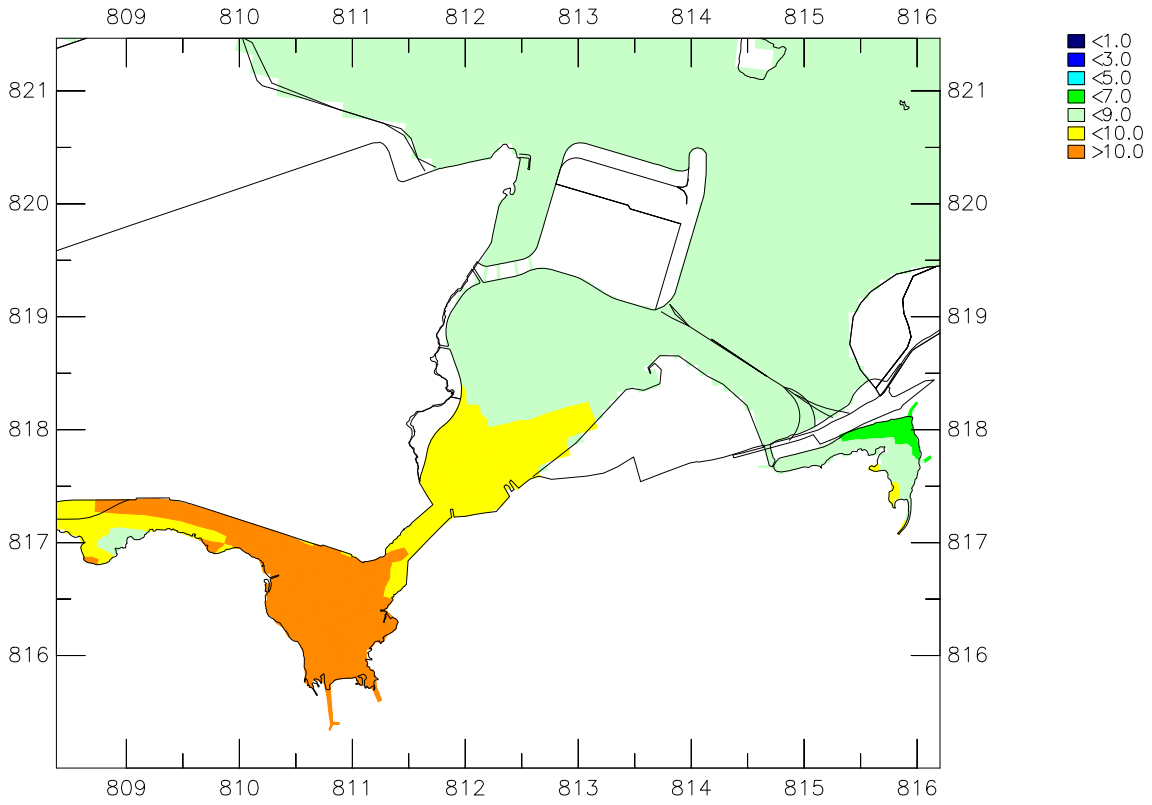

| | | |
|---|---|---|
| BOD5 (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | BOD5-B-Wet | |
| Arup | | |



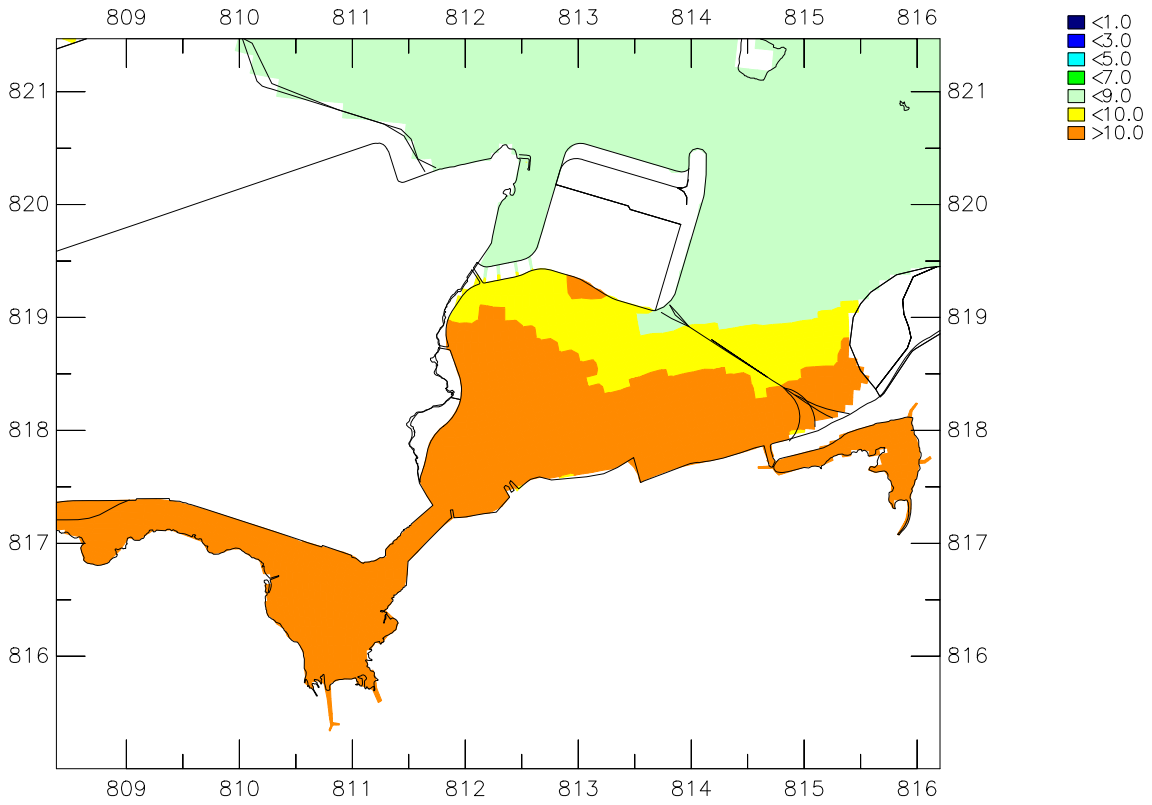



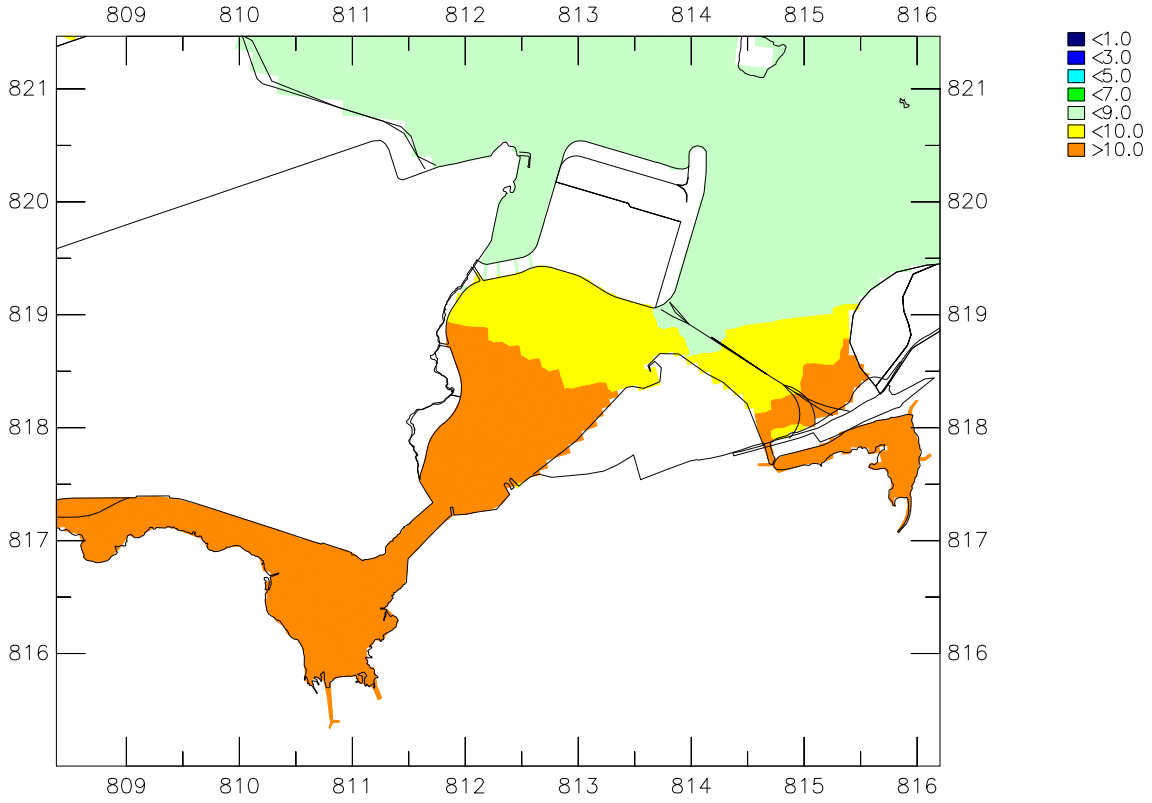

| | | |
|---|---|---|
| SS (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | SS-S-Wet | |
| Arup | | |



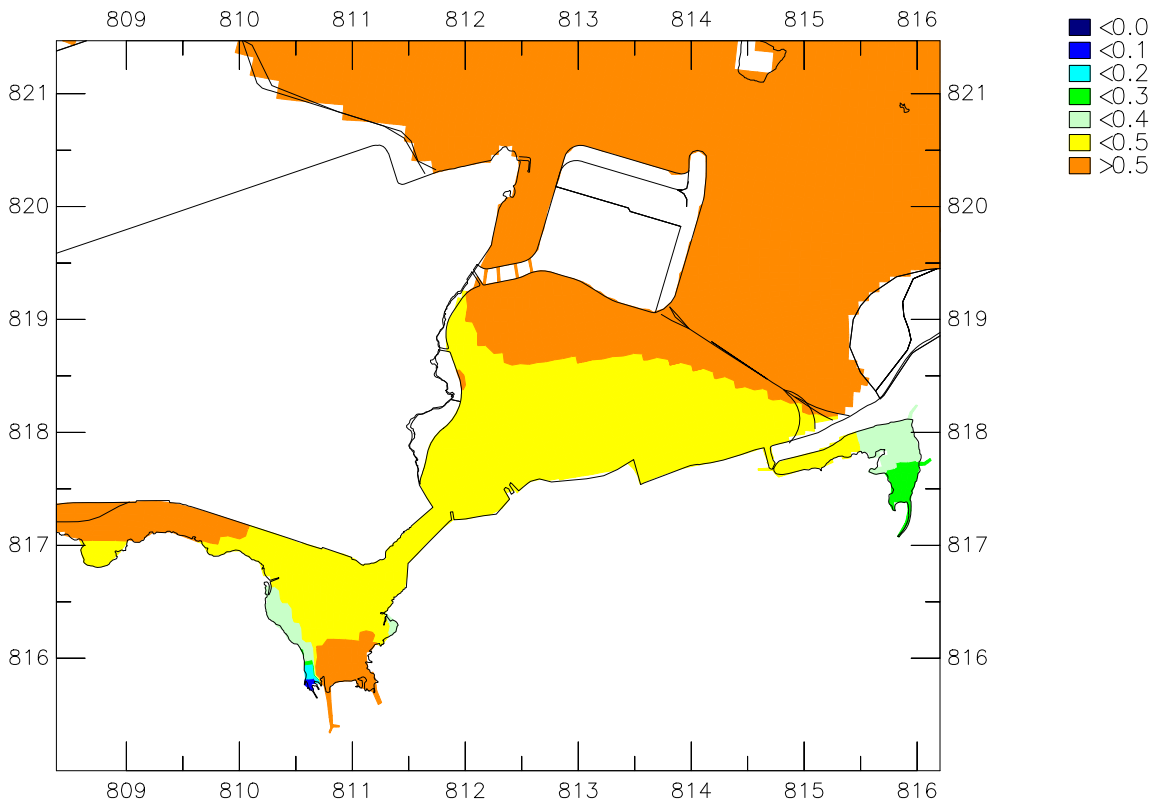



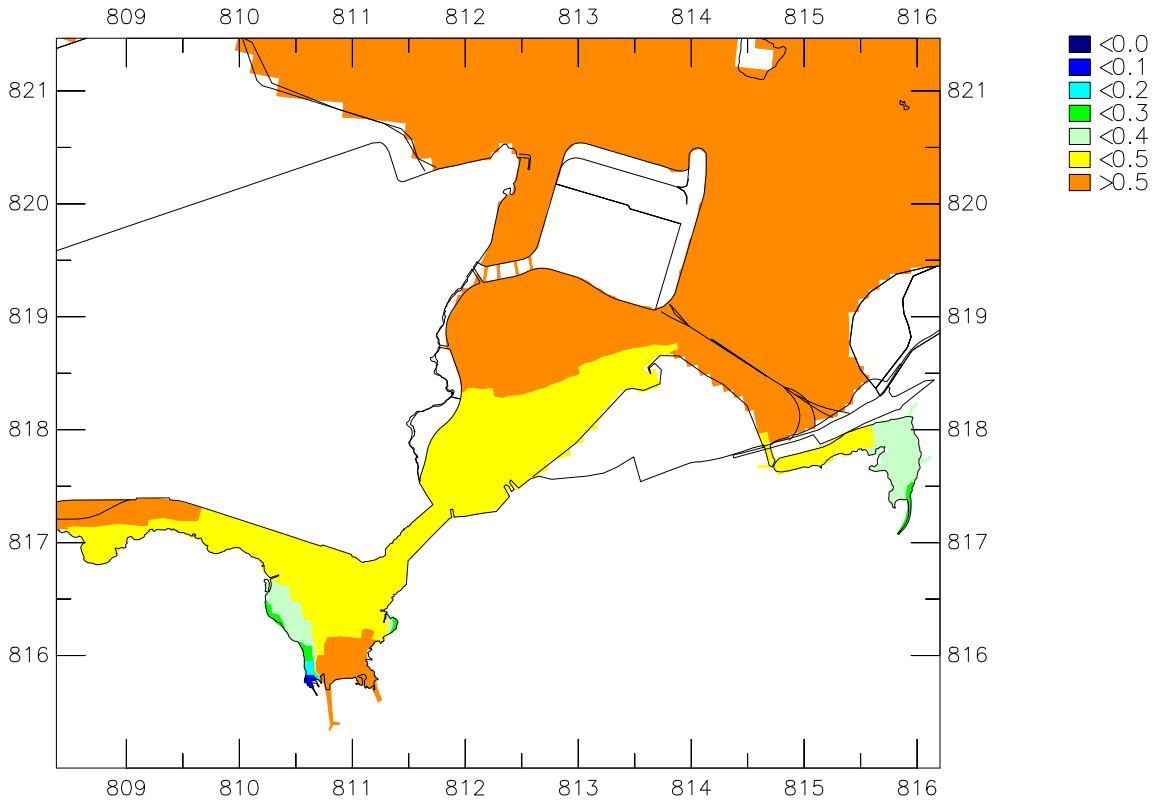

| | | |
|---|---|---|
| SS (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | SS-M-Wet | |
| Arup | | |



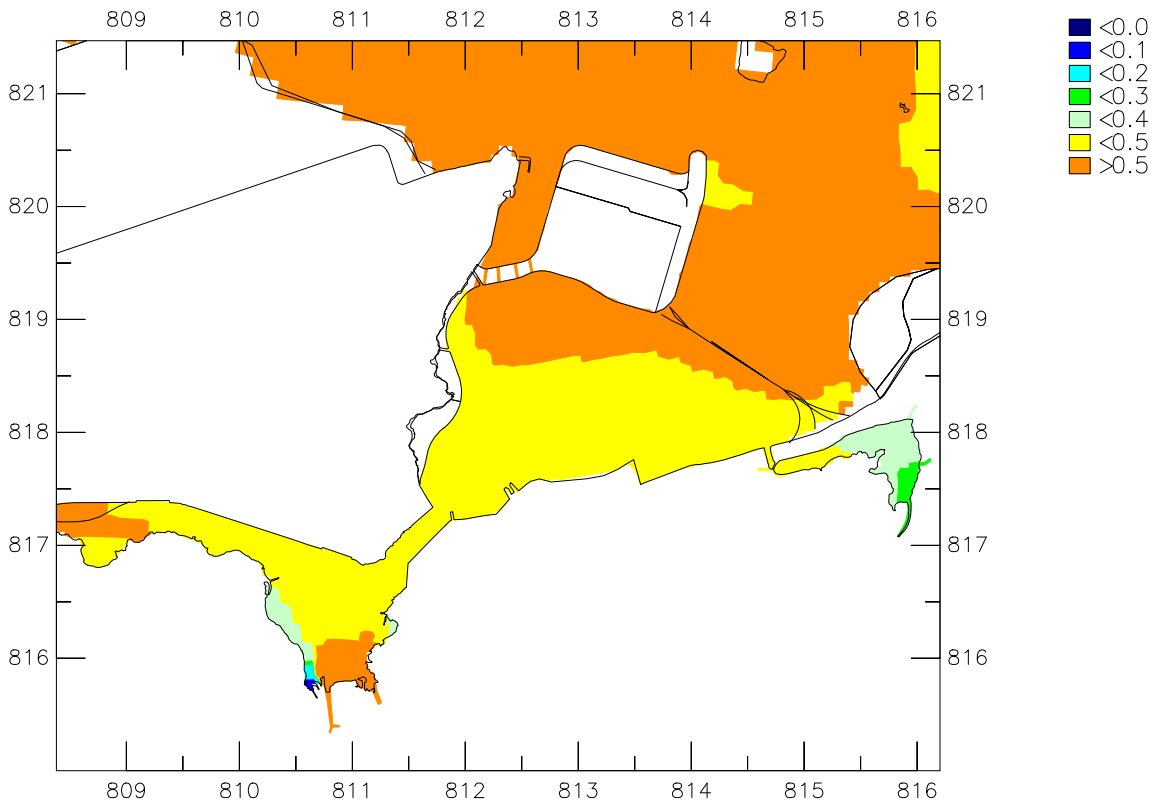



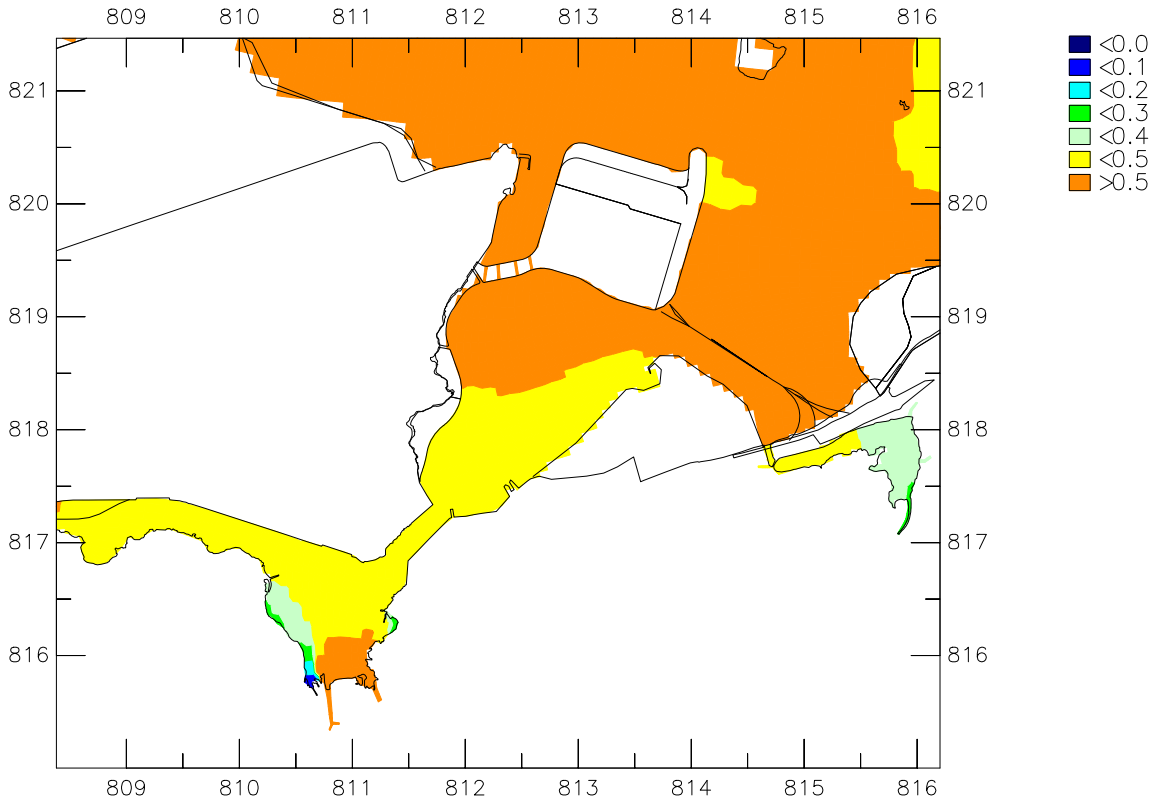

| | | |
|---|---|---|
| SS (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | SS–B–Wet | |
| Arup | | |



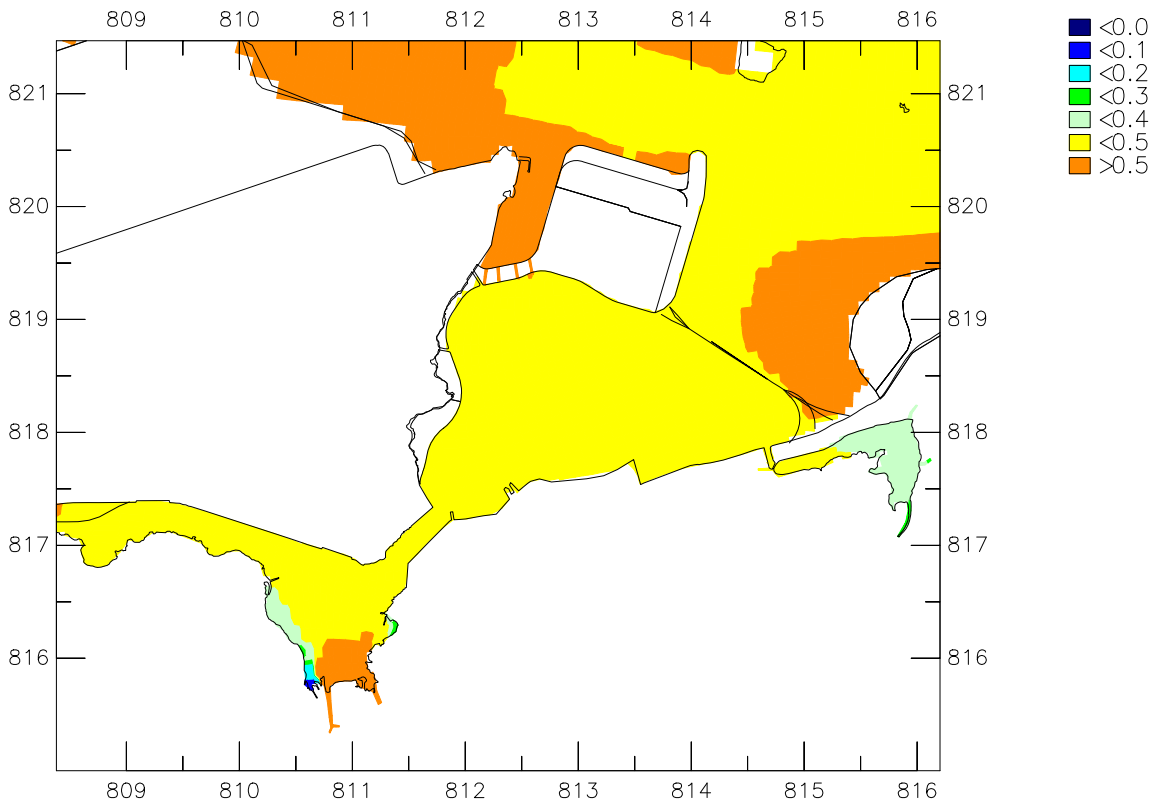



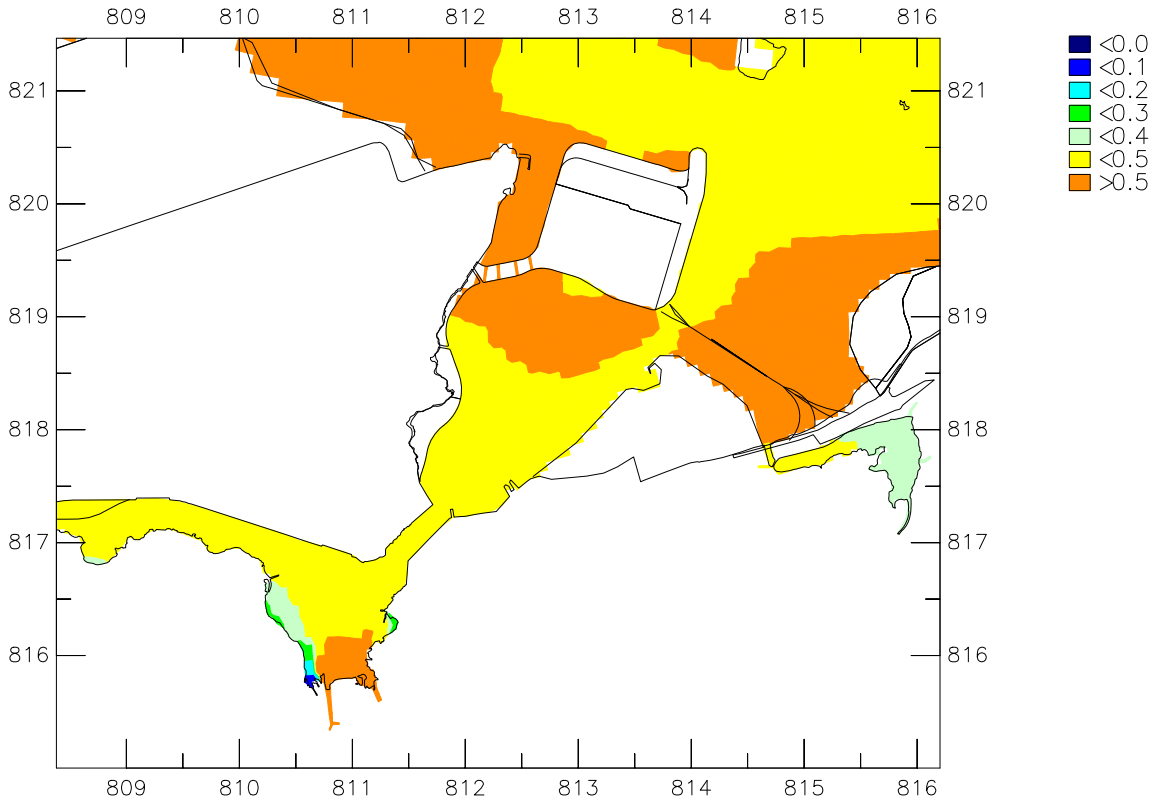

| | | |
|---|---|---|
| TIN (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | TIN–S–Wet | |
| Arup | | |



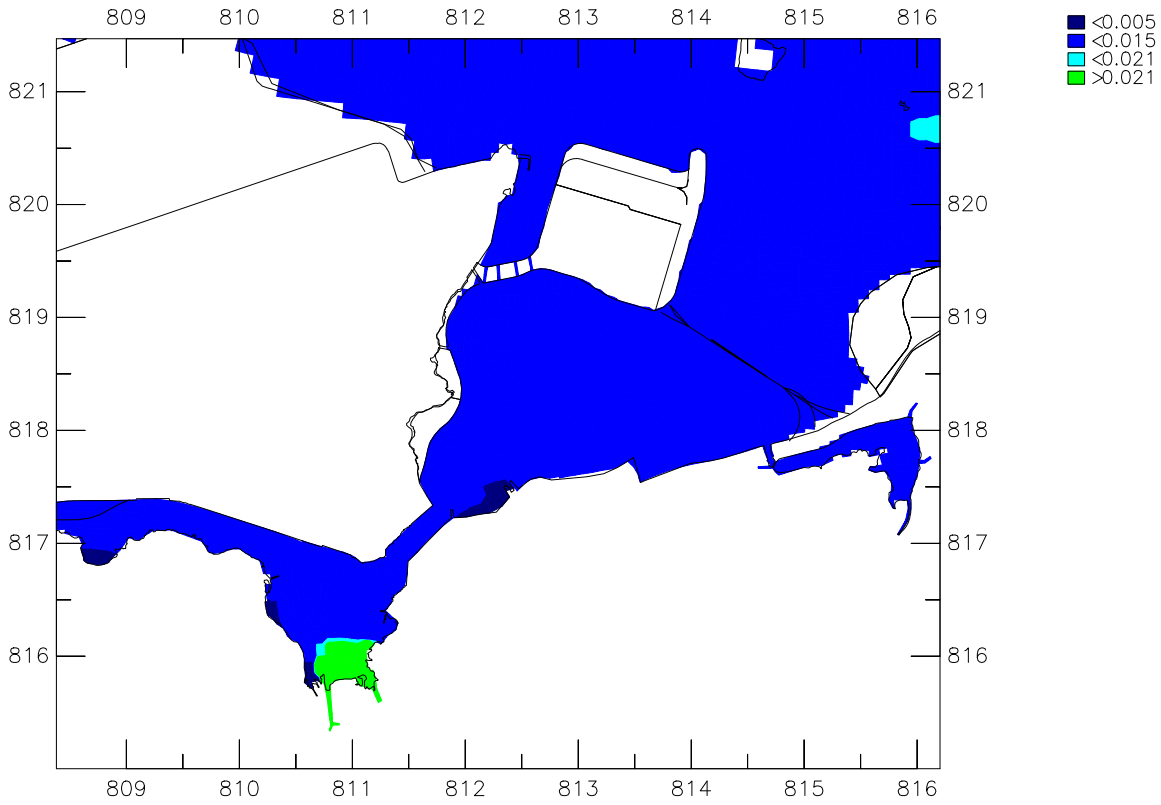



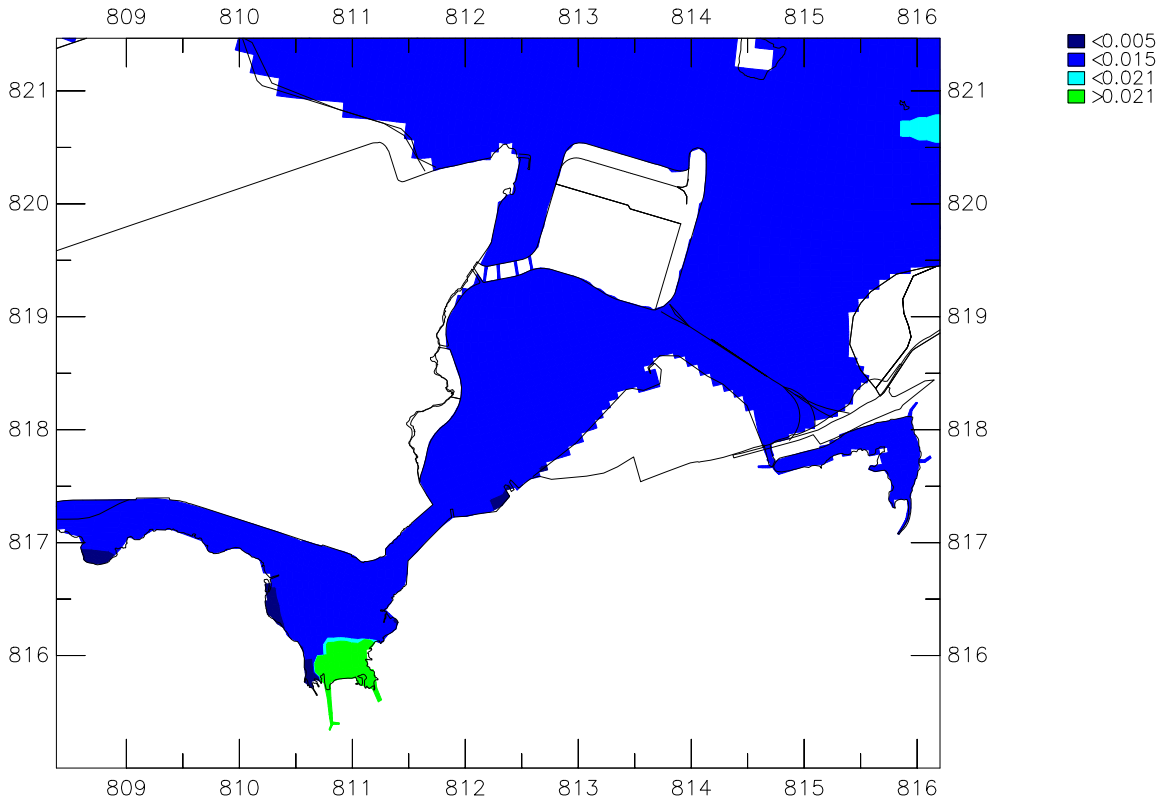

| | | |
|---|---|---|
| TIN (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | TIN–M–Wet | |
| Arup | | |



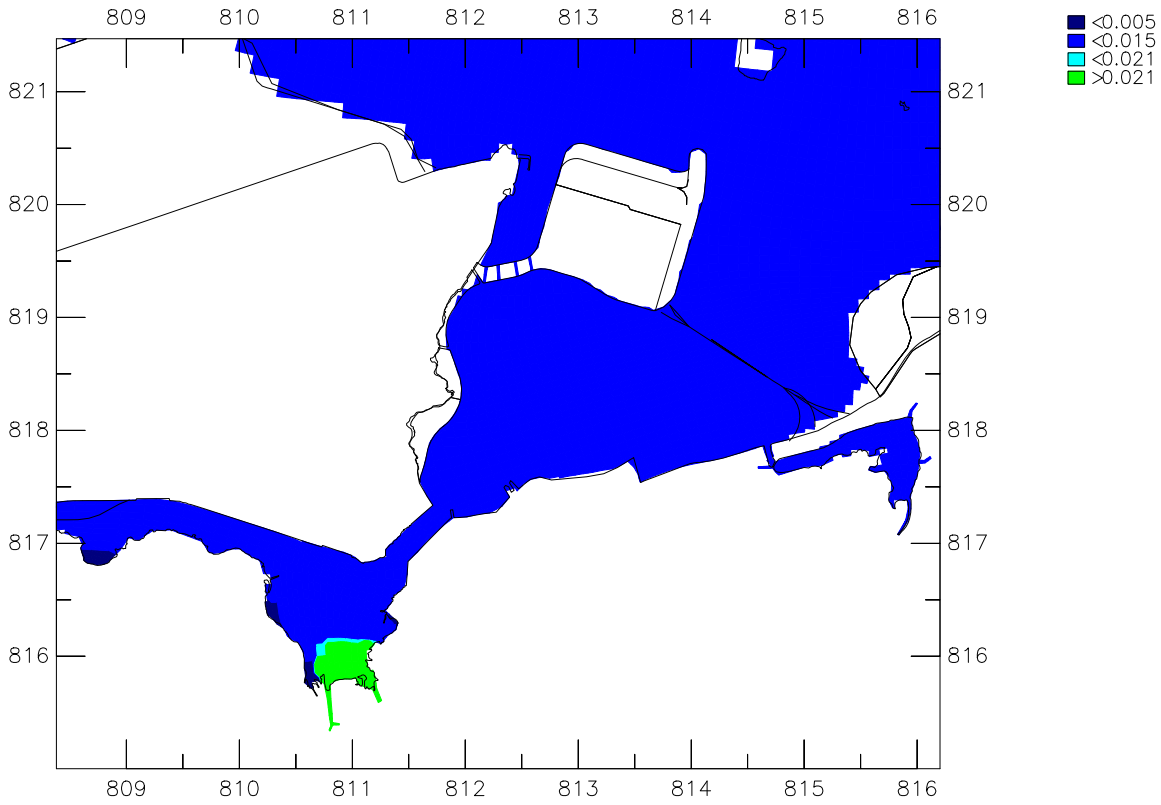



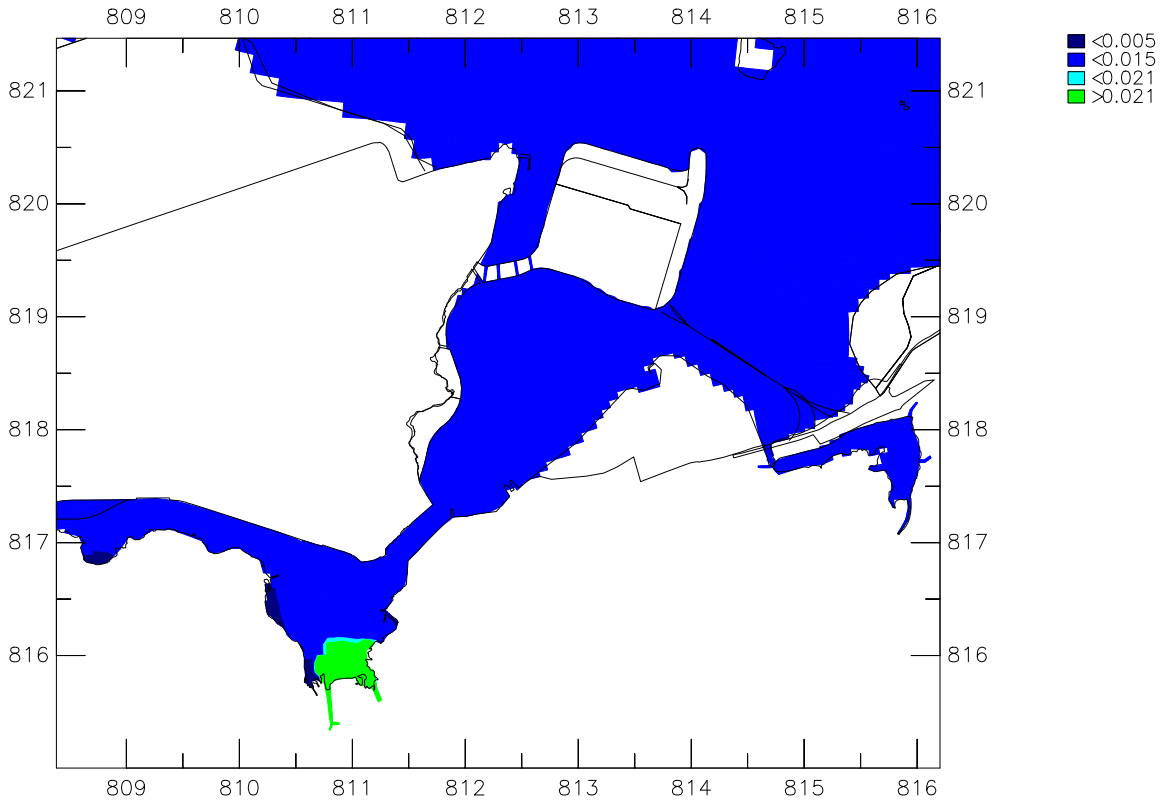

| | | |
|---|---|---|
| TIN (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | TIN–B–Wet | |
| Arup | | |



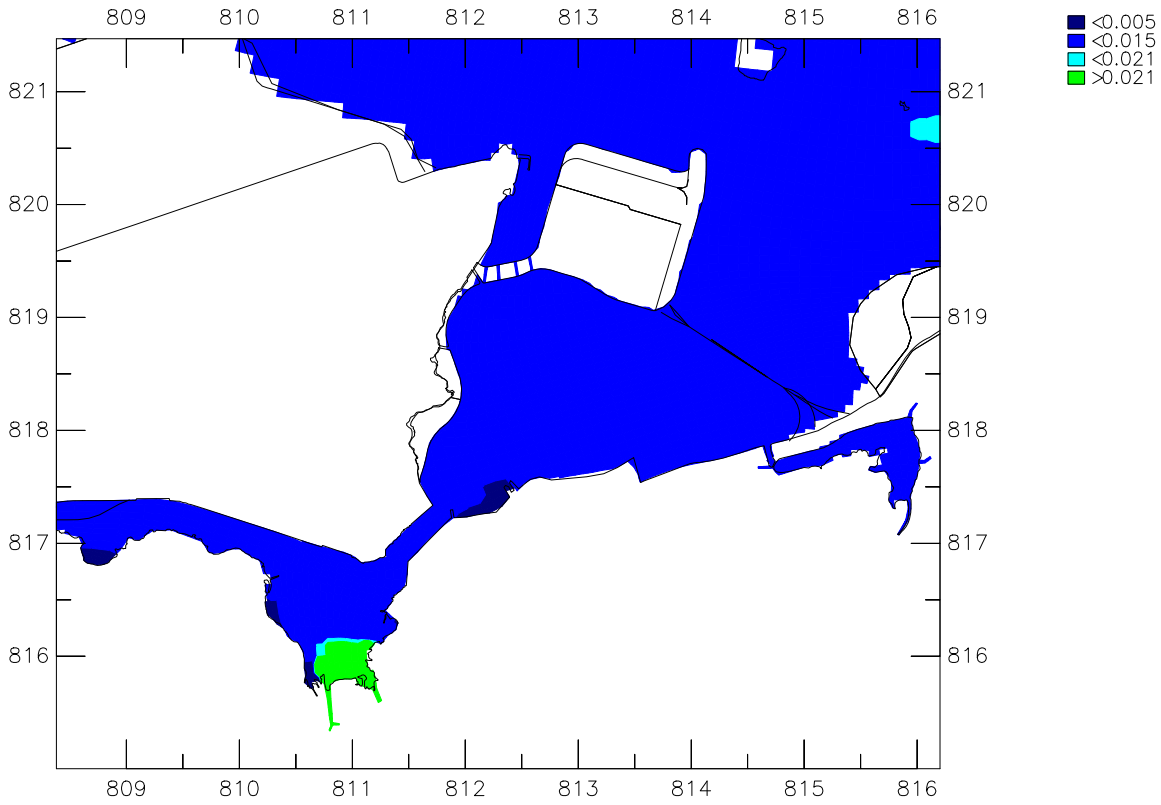



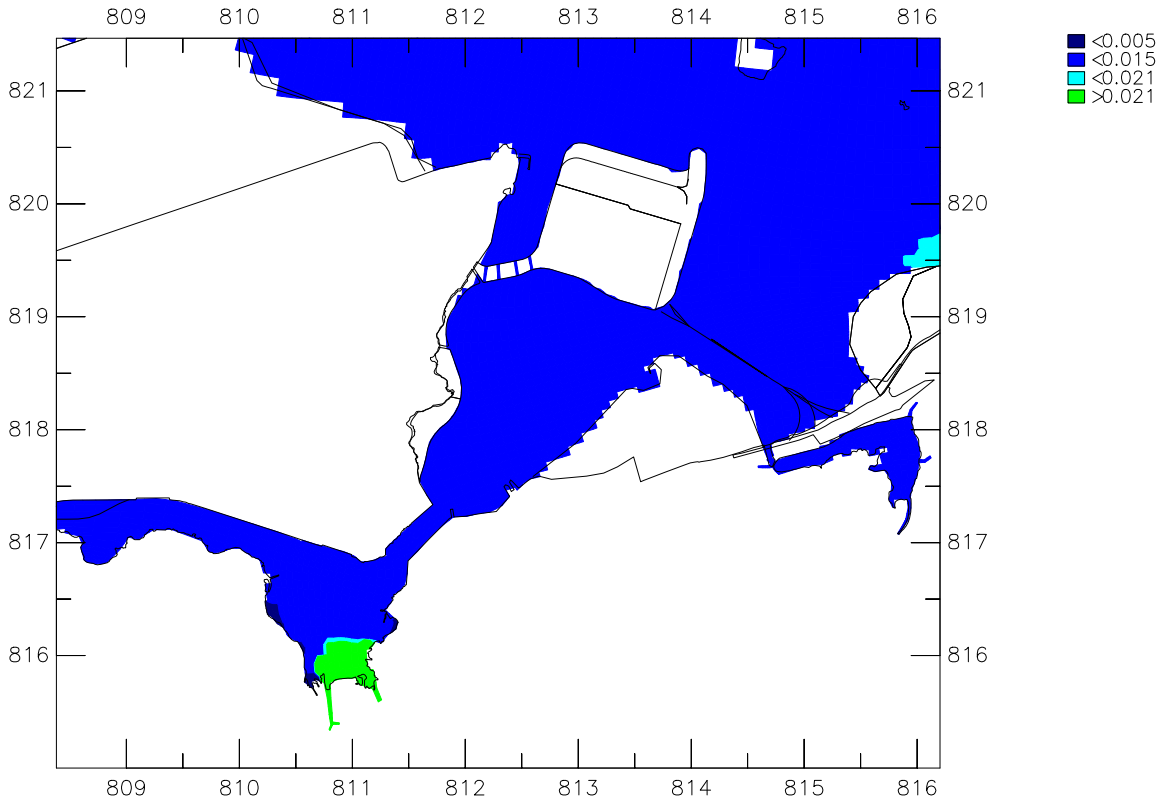

| | | |
|---|---|---|
| UIA (mg/L), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | UIA–S–Wet | |
| Arup | | |



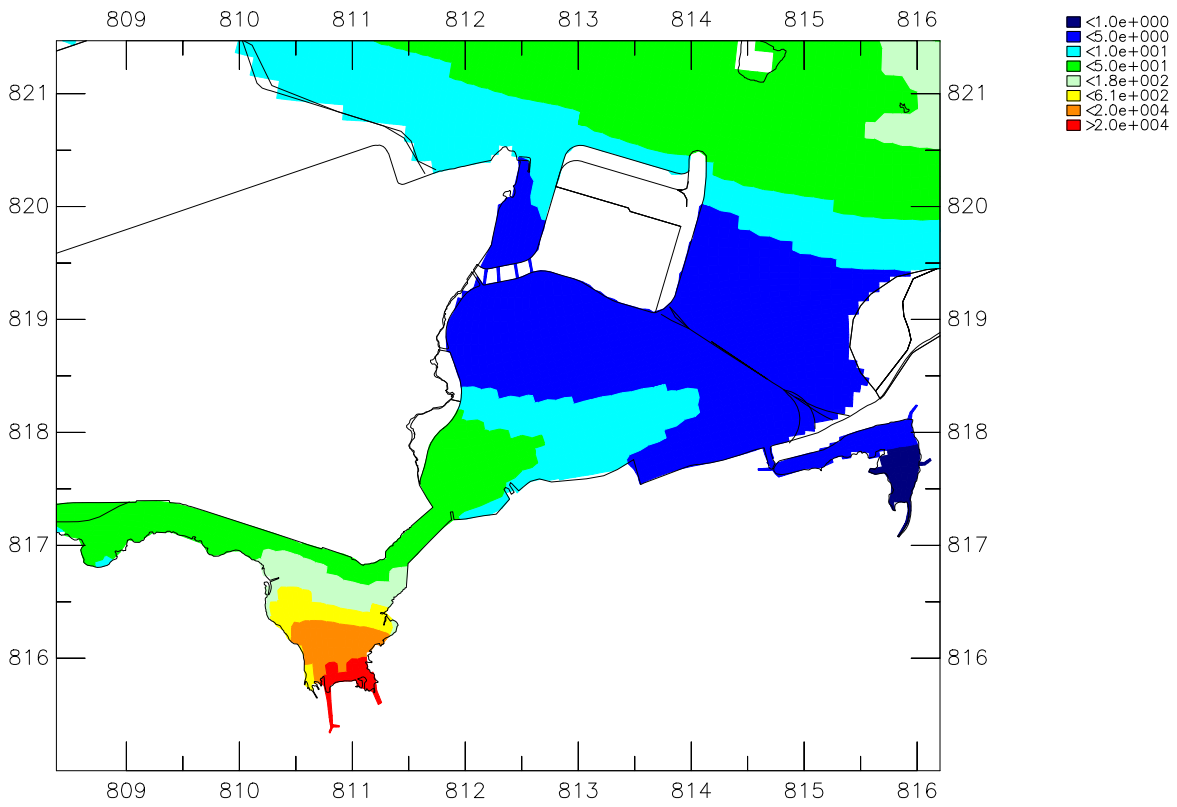



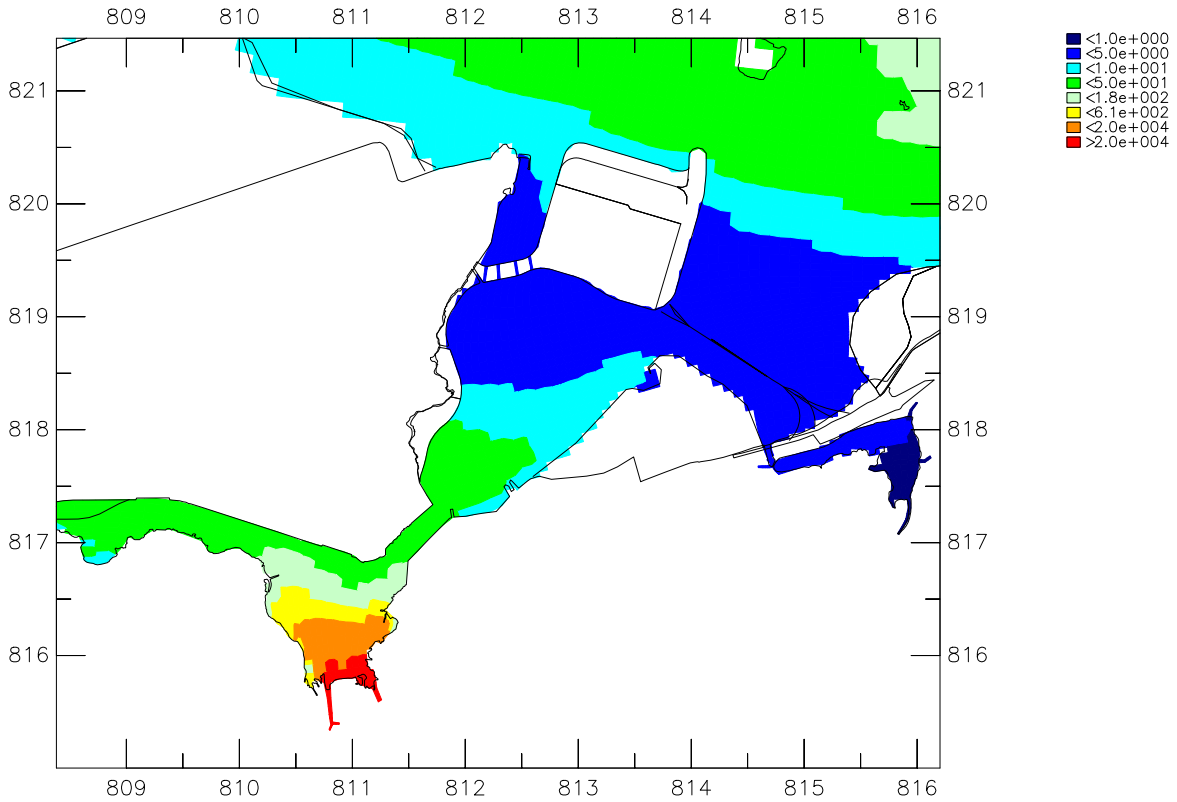

| | | |
|---|---|---|
| UIA (mg/L), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | UIA–M–Wet | |
| Arup | | |



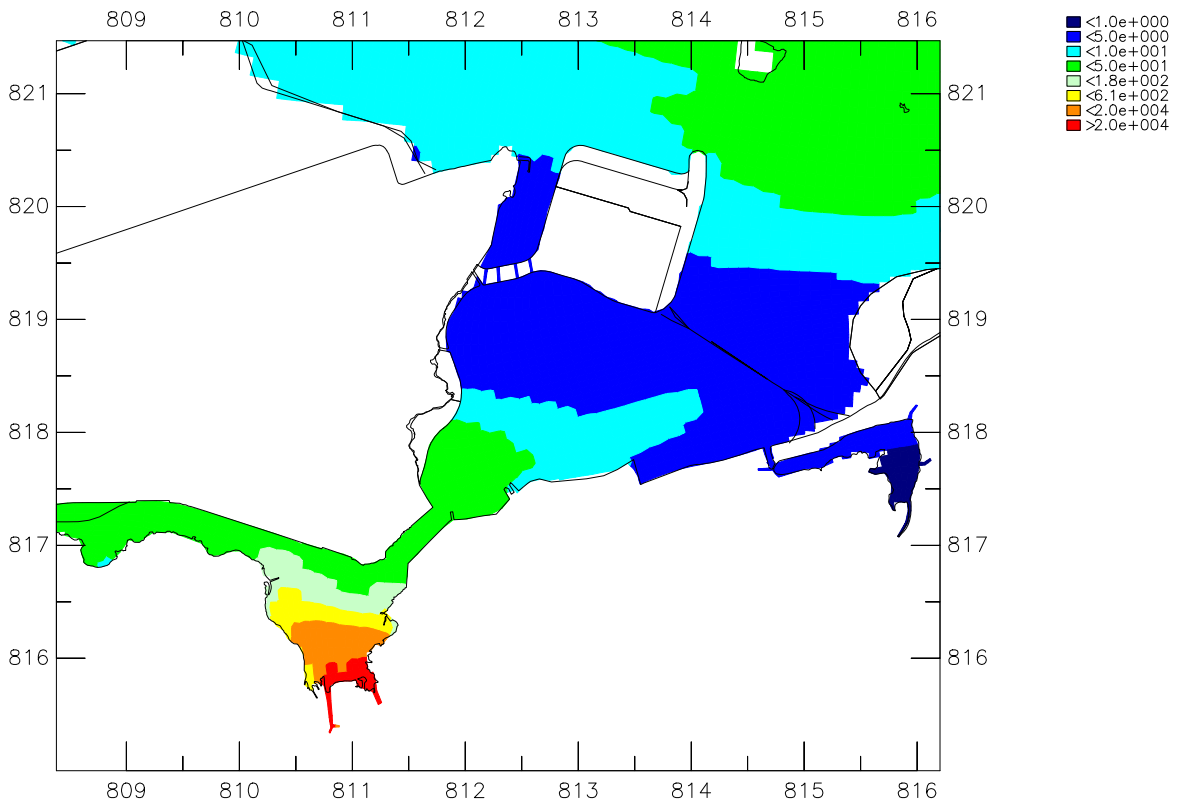



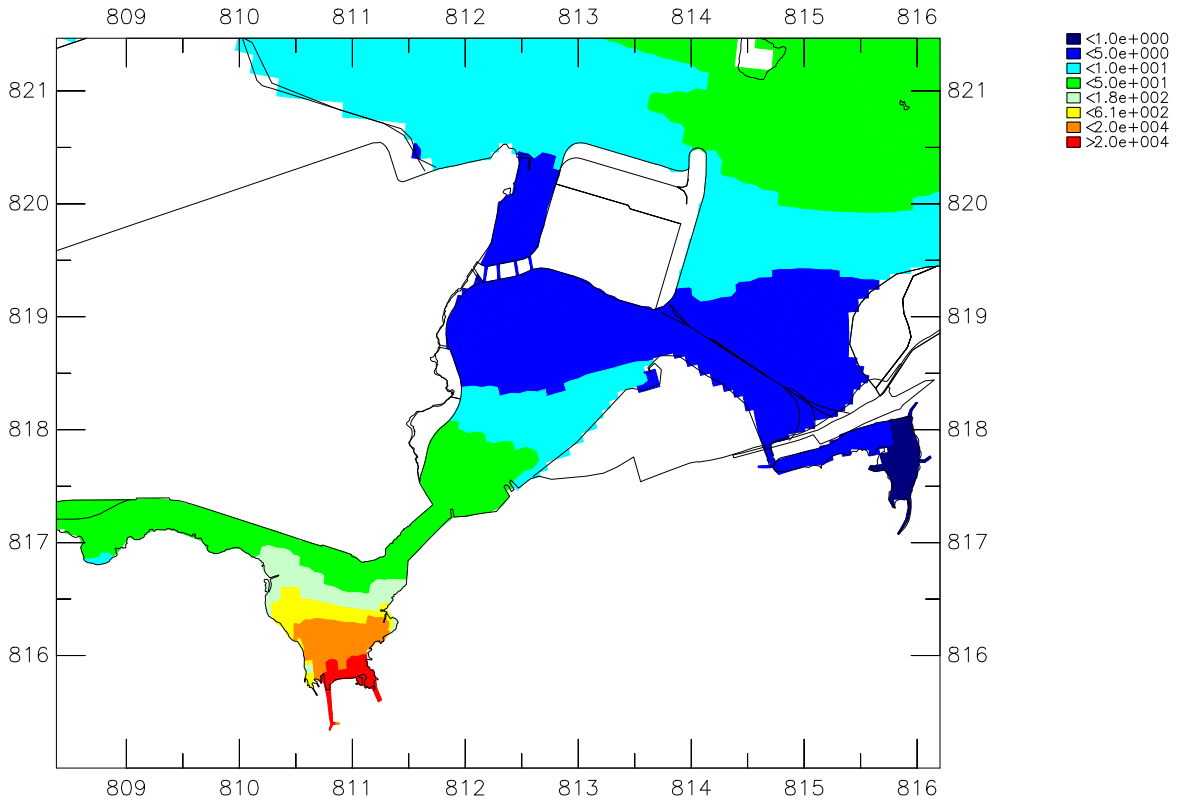

| | | |
|---|---|---|
| UIA (mg/L), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | UIA–B–Wet | |
| Arup | | |



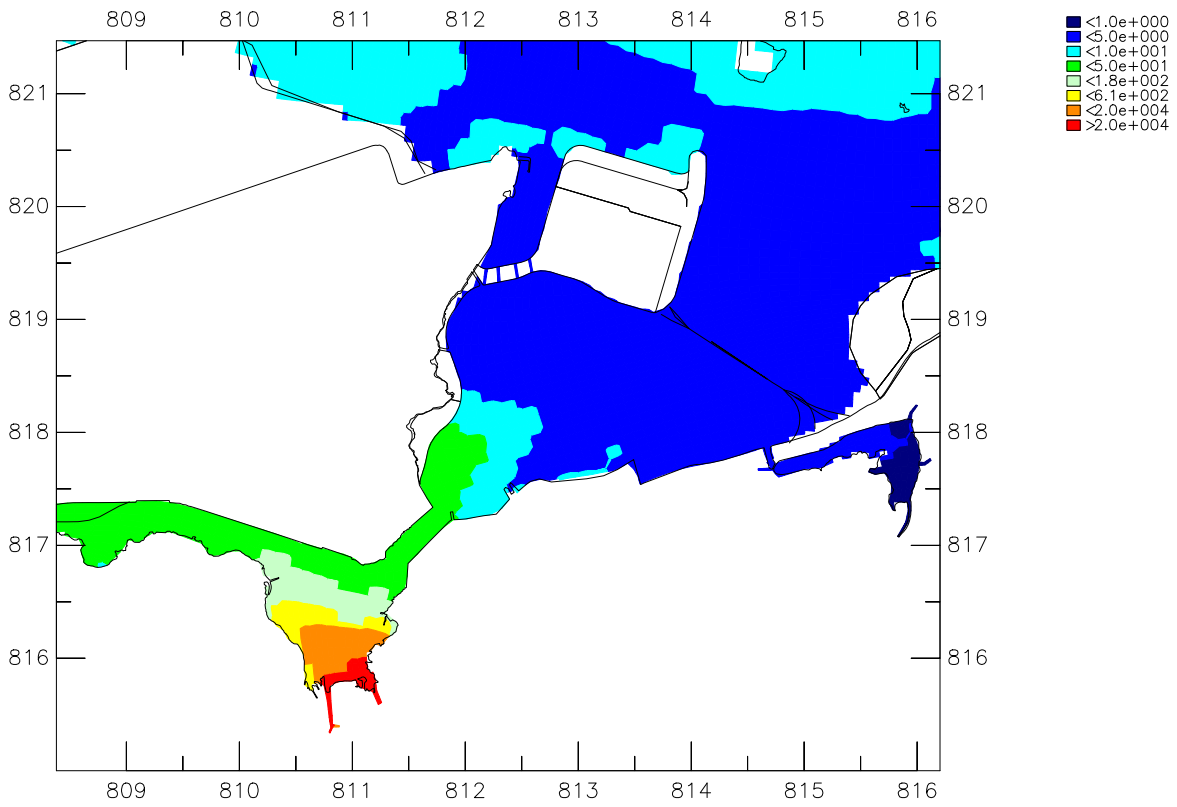



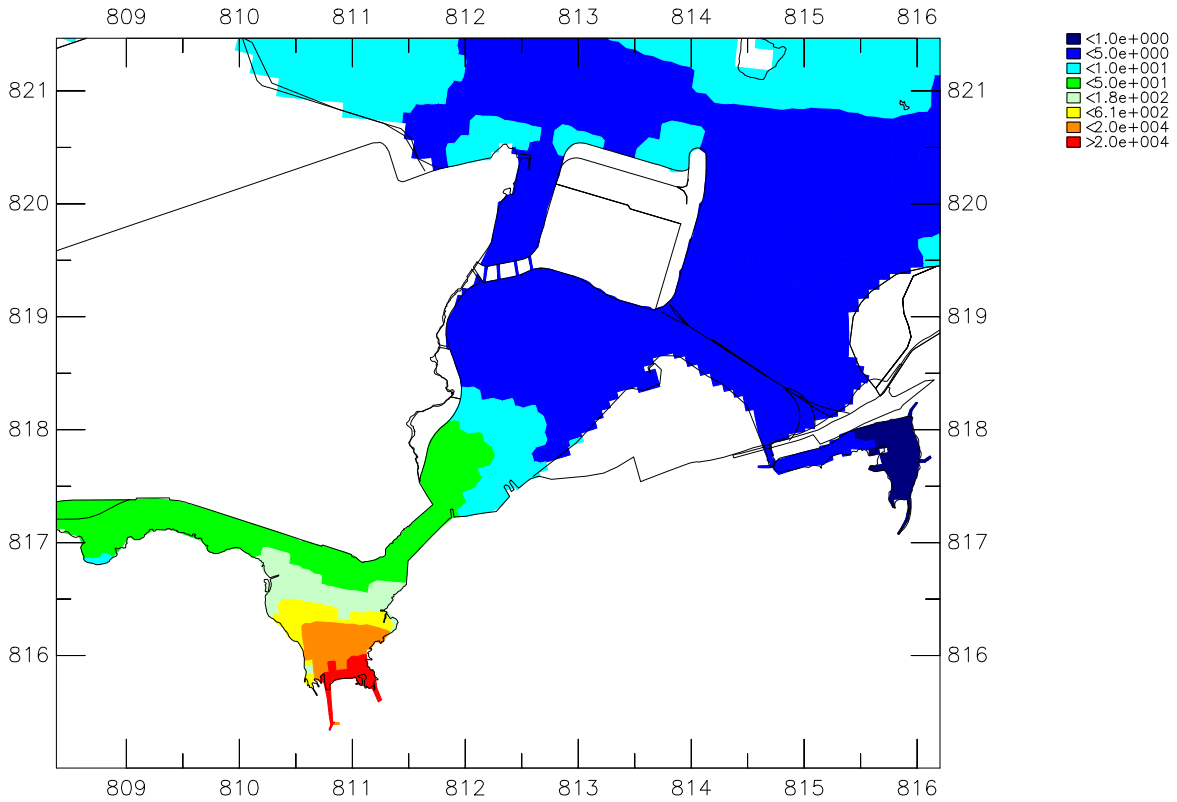

| | | |
|---|---|---|
| GM E. coli (Count/100mL), Surface Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | EColi-S-Wet | |
| Arup | | |



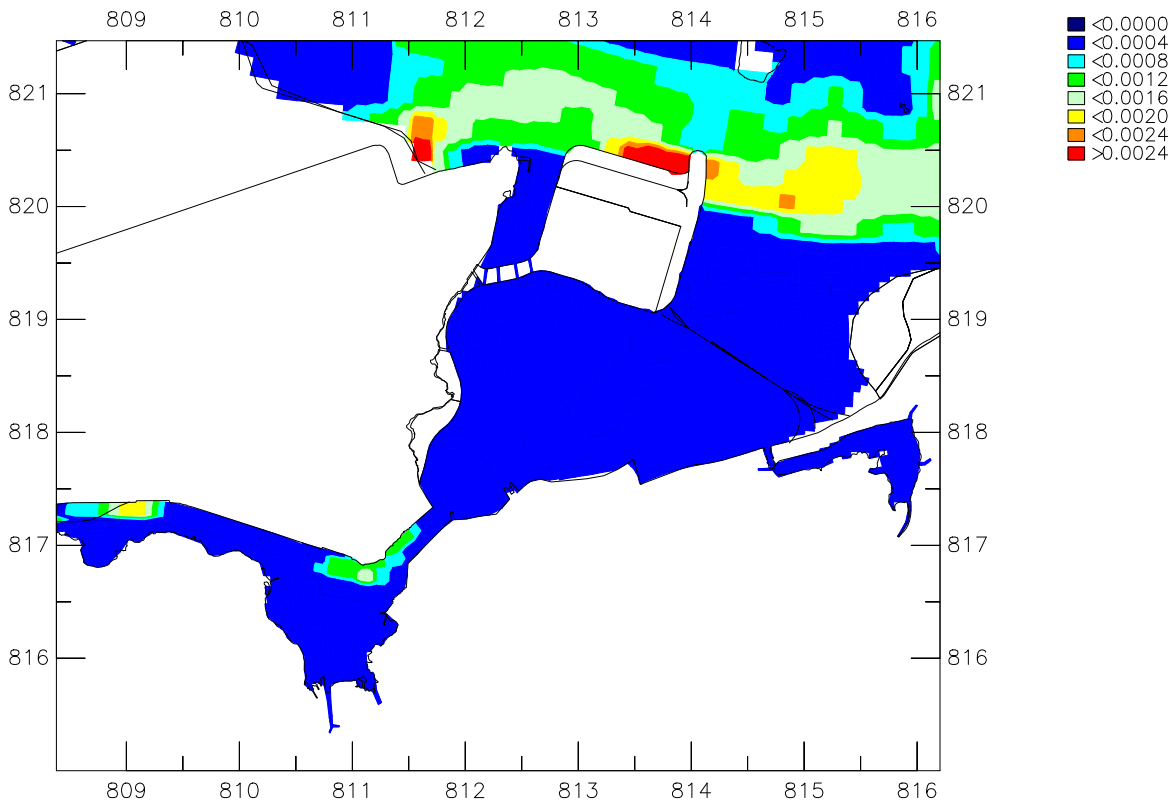



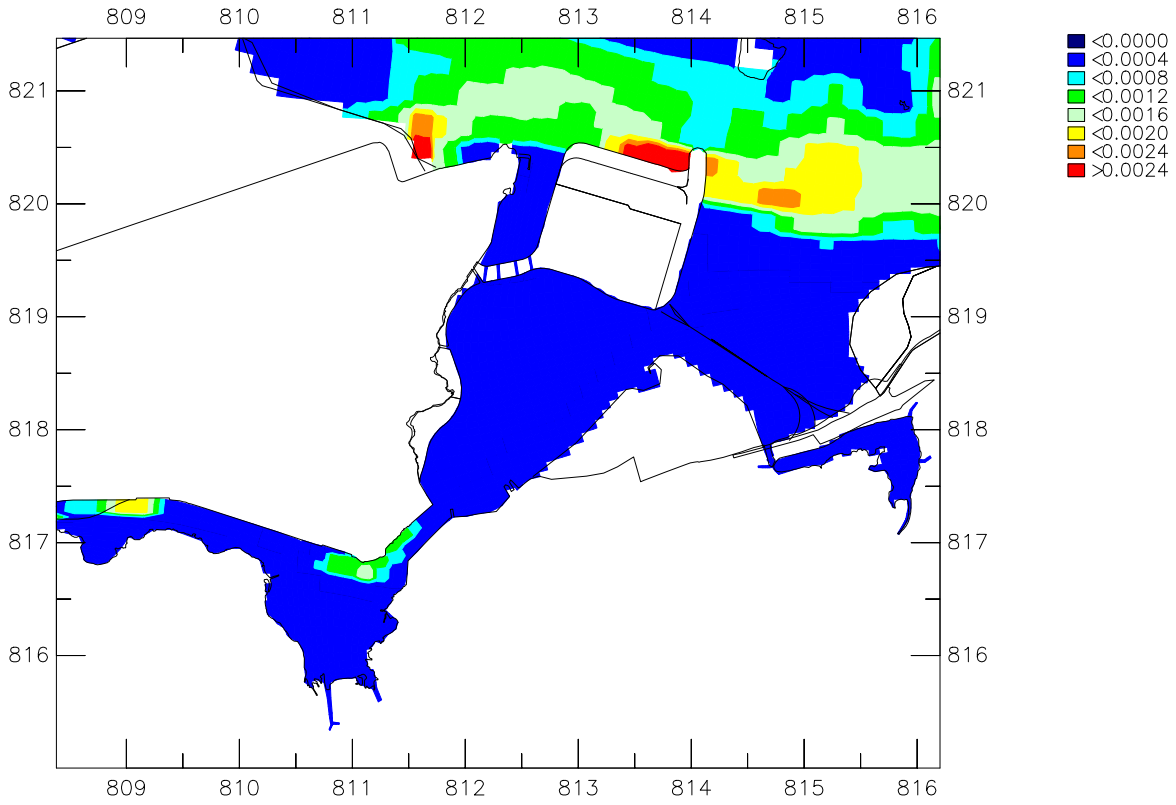

| | | |
|---|---|---|
| GM E. coli (Count/100mL), Middle Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | EColi-M-Wet | |
| Arup | | |




| | | |
|---|---|---|
| GM E. coli (Count/100mL), Bottom Layer<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | Wet Season | |
| | EColi-B-Wet | |
| Arup | | |




| | | |
|---|---|---|
| Annual sedimentation rate (m/year)<br>Without Project Scenario (upper)<br>With Project Scenario (lower) | | |
| | Annual–Sed | |
| Arup | | |

Table A.1 Depth averaged salinity of operational phase

| | | Scenario 01 (Without Project ) | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | Difference (SCN02-SCN01) (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WSR** | **Criteria (ppt)** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** |
| WSR01 | + - 10% | 28.7 | 28.9 | 28.8 | 28.9 | 25.4 | 17.2 | 15.7 | 18.3 | 25.8 | 28.3 | 28.7 | 28.9 | 28.8 | 28.9 | 28.9 | 28.9 | 25.2 | 17.0 | 15.5 | 18.5 | 26.0 | 28.4 | 28.8 | 28.9 | 0.2 | 0.1 | 0.2 | 0.2 | -0.5 | -1.1 | -1.1 | 1.2 | 1.0 | 0.3 | 0.2 | 0.2 |
| WSR02 | + - 10% | 28.7 | 28.9 | 28.8 | 28.9 | 25.4 | 17.3 | 15.8 | 18.3 | 25.8 | 28.3 | 28.7 | 28.9 | 28.8 | 28.9 | 28.9 | 28.9 | 25.3 | 17.1 | 15.6 | 18.5 | 26.0 | 28.3 | 28.8 | 28.9 | 0.2 | 0.1 | 0.2 | 0.2 | -0.5 | -1.2 | -1.2 | 1.1 | 1.0 | 0.3 | 0.2 | 0.2 |
| WSR03 | + - 10% | 28.7 | 28.9 | 28.8 | 28.9 | 25.5 | 17.5 | 16.0 | 18.2 | 25.7 | 28.2 | 28.7 | 28.9 | 28.7 | 28.9 | 28.9 | 28.9 | 25.4 | 17.2 | 15.7 | 18.4 | 25.9 | 28.3 | 28.7 | 28.9 | 0.2 | 0.1 | 0.2 | 0.2 | -0.5 | -1.6 | -1.7 | 1.0 | 1.0 | 0.3 | 0.2 | 0.2 |
| WSR04 | + - 10% | 29.8 | 29.7 | 29.9 | 29.9 | 26.3 | 19.3 | 18.3 | 21.3 | 27.6 | 29.4 | 29.7 | 29.9 | 29.8 | 29.7 | 29.9 | 29.9 | 26.3 | 19.4 | 18.5 | 21.4 | 27.7 | 29.4 | 29.7 | 29.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR05a | + - 10% | 29.4 | 29.3 | 29.5 | 29.5 | 26.2 | 18.4 | 17.5 | 21.1 | 27.2 | 29.0 | 29.4 | 29.5 | 29.4 | 29.3 | 29.5 | 29.5 | 26.2 | 18.5 | 17.6 | 21.3 | 27.2 | 29.0 | 29.4 | 29.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 0.9 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR05b | + - 10% | 30.1 | 30.0 | 30.2 | 30.1 | 26.9 | 20.0 | 19.0 | 21.9 | 28.0 | 29.7 | 30.0 | 30.1 | 30.1 | 30.0 | 30.2 | 30.1 | 26.9 | 20.1 | 19.2 | 22.1 | 28.0 | 29.7 | 30.0 | 30.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR06 | + - 10% | 29.9 | 29.8 | 30.0 | 30.0 | 26.2 | 19.1 | 18.1 | 21.1 | 27.8 | 29.6 | 29.9 | 30.0 | 29.9 | 29.8 | 30.0 | 30.0 | 26.2 | 19.2 | 18.2 | 21.3 | 27.9 | 29.6 | 29.9 | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.8 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR07 | N/A | 24.8 | 24.8 | 25.1 | 25.1 | 20.7 | 12.0 | 10.9 | 14.2 | 21.2 | 24.2 | 24.8 | 25.0 | 24.8 | 24.9 | 25.1 | 25.1 | 20.7 | 12.1 | 11.1 | 14.3 | 21.3 | 24.2 | 24.8 | 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.8 | 1.2 | 1.0 | 0.3 | 0.1 | 0.1 | 0.0 |
| WSR10 | + - 10% | 26.1 | 26.2 | 26.3 | 26.3 | 22.0 | 13.9 | 12.9 | 15.7 | 22.8 | 25.5 | 26.1 | 26.3 | 26.1 | 26.2 | 26.3 | 26.3 | 22.0 | 14.0 | 13.0 | 15.9 | 22.9 | 25.5 | 26.1 | 26.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.0 | 0.8 | 0.2 | 0.0 | 0.0 | 0.0 |
| WSR11 | N/A | 28.6 | 28.5 | 28.7 | 28.7 | 25.2 | 16.7 | 15.7 | 19.9 | 26.1 | 28.1 | 28.5 | 28.7 | 28.6 | 28.5 | 28.7 | 28.7 | 25.2 | 16.9 | 15.9 | 20.0 | 26.1 | 28.1 | 28.5 | 28.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.7 | 1.1 | 0.9 | 0.2 | 0.0 | 0.0 | 0.0 |
| WSR12 | + - 10% | 30.2 | 30.1 | 30.3 | 30.3 | 27.0 | 19.7 | 18.7 | 22.2 | 28.2 | 29.8 | 30.1 | 30.2 | 30.2 | 30.1 | 30.3 | 30.2 | 27.0 | 19.8 | 18.9 | 22.4 | 28.2 | 29.8 | 30.1 | 30.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.5 | 0.9 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR13 | N/A | 30.2 | 30.2 | 30.3 | 30.3 | 27.2 | 19.7 | 18.7 | 22.4 | 28.3 | 29.9 | 30.2 | 30.3 | 30.2 | 30.2 | 30.3 | 30.3 | 27.2 | 19.8 | 18.9 | 22.6 | 28.3 | 29.9 | 30.2 | 30.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR14 | + - 10% | 30.4 | 30.4 | 30.5 | 30.5 | 27.4 | 19.2 | 18.0 | 22.0 | 28.2 | 30.0 | 30.3 | 30.5 | 30.4 | 30.4 | 30.5 | 30.5 | 27.4 | 19.3 | 18.2 | 22.2 | 28.3 | 30.0 | 30.3 | 30.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.0 | 0.9 | 0.2 | 0.0 | 0.0 | 0.0 |
| WSR15 | + - 10% | 30.3 | 30.2 | 30.4 | 30.4 | 27.1 | 18.8 | 17.8 | 22.4 | 28.4 | 30.0 | 30.3 | 30.4 | 30.3 | 30.2 | 30.4 | 30.4 | 27.2 | 18.9 | 18.0 | 22.6 | 28.4 | 30.0 | 30.3 | 30.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.0 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR16 | + - 10% | 30.5 | 30.4 | 30.6 | 30.6 | 27.6 | 19.4 | 18.5 | 23.0 | 28.6 | 30.2 | 30.5 | 30.6 | 30.5 | 30.4 | 30.6 | 30.6 | 27.6 | 19.5 | 18.6 | 23.1 | 28.7 | 30.2 | 30.5 | 30.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.5 | 0.9 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR17 | N/A | 30.7 | 30.7 | 30.8 | 30.8 | 27.7 | 20.4 | 19.5 | 23.3 | 29.0 | 30.4 | 30.7 | 30.8 | 30.7 | 30.7 | 30.8 | 30.8 | 27.7 | 20.5 | 19.7 | 23.5 | 29.0 | 30.4 | 30.7 | 30.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR18 | + - 10% | 32.0 | 31.9 | 32.1 | 32.0 | 29.9 | 24.6 | 23.8 | 26.5 | 30.8 | 31.8 | 32.0 | 32.0 | 32.0 | 31.9 | 32.1 | 32.0 | 29.9 | 24.7 | 24.0 | 26.6 | 30.8 | 31.8 | 32.0 | 32.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.5 | 0.8 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR19 | + - 10% | 32.6 | 32.5 | 32.6 | 32.6 | 30.9 | 26.2 | 25.6 | 28.0 | 31.7 | 32.4 | 32.5 | 32.6 | 32.6 | 32.5 | 32.6 | 32.6 | 30.9 | 26.3 | 25.7 | 28.1 | 31.7 | 32.4 | 32.5 | 32.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.7 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR20 | + - 10% | 31.8 | 31.8 | 31.9 | 31.9 | 29.6 | 24.5 | 23.8 | 26.1 | 30.6 | 31.6 | 31.8 | 31.9 | 31.8 | 31.8 | 31.9 | 31.9 | 29.6 | 24.6 | 23.9 | 26.2 | 30.6 | 31.6 | 31.8 | 31.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.7 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR21 | N/A | 30.7 | 30.6 | 30.8 | 30.8 | 27.6 | 20.8 | 19.8 | 23.1 | 28.9 | 30.4 | 30.6 | 30.7 | 30.7 | 30.6 | 30.8 | 30.8 | 27.6 | 20.9 | 20.0 | 23.2 | 28.9 | 30.4 | 30.6 | 30.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR22a | + - 10% | 28.6 | 28.7 | 28.8 | 28.8 | 24.9 | 17.1 | 15.7 | 18.2 | 25.6 | 28.2 | 28.6 | 28.8 | 28.7 | 28.8 | 28.8 | 28.9 | 25.0 | 17.4 | 16.0 | 18.5 | 25.8 | 28.3 | 28.7 | 28.9 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.3 | 2.2 | 2.1 | 0.7 | 0.4 | 0.3 | 0.3 |
| WSR22b | + - 10% | 28.7 | 28.8 | 28.8 | 28.9 | 25.5 | 17.2 | 15.4 | 17.7 | 25.1 | 28.1 | 28.7 | 28.8 | 28.8 | 28.9 | 28.9 | 29.0 | 25.5 | 17.4 | 15.8 | 18.1 | 25.4 | 28.2 | 28.8 | 28.9 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 1.3 | 2.2 | 2.2 | 1.0 | 0.4 | 0.3 | 0.3 |
| WSR22c | + - 10% | 28.7 | 28.7 | 28.8 | 28.8 | 24.8 | 17.4 | 16.1 | 18.4 | 25.9 | 28.2 | 28.6 | 28.8 | 28.7 | 28.8 | 28.9 | 28.9 | 24.9 | 17.7 | 16.5 | 18.8 | 26.0 | 28.3 | 28.7 | 28.9 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 1.7 | 2.6 | 2.1 | 0.6 | 0.3 | 0.3 | 0.3 |
| WSR23 | N/A | 29.7 | 29.7 | 29.9 | 29.8 | 26.0 | 18.6 | 17.6 | 20.8 | 27.6 | 29.4 | 29.7 | 29.8 | 29.7 | 29.7 | 29.8 | 29.8 | 26.0 | 18.7 | 17.7 | 20.9 | 27.6 | 29.4 | 29.7 | 29.8 | -0.1 | 0.0 | -0.1 | -0.1 | -0.1 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | -0.1 |
| WSR25 | + - 10% | 28.4 | 28.4 | 28.5 | 28.5 | 24.5 | 17.2 | 16.2 | 18.8 | 25.7 | 27.9 | 28.3 | 28.5 | 28.4 | 28.3 | 28.5 | 28.5 | 24.5 | 17.3 | 16.3 | 18.9 | 25.8 | 27.9 | 28.3 | 28.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR26 | + - 10% | 28.1 | 28.1 | 28.2 | 28.2 | 23.9 | 16.4 | 15.3 | 18.1 | 25.4 | 27.6 | 28.0 | 28.2 | 28.1 | 28.1 | 28.2 | 28.2 | 23.9 | 16.5 | 15.5 | 18.2 | 25.4 | 27.6 | 28.0 | 28.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.0 | 0.8 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR27 | + - 10% | 28.7 | 28.9 | 28.8 | 28.9 | 25.4 | 17.4 | 15.9 | 18.2 | 25.6 | 28.2 | 28.7 | 28.8 | 28.7 | 28.9 | 28.9 | 28.9 | 25.3 | 17.1 | 15.6 | 18.4 | 25.9 | 28.3 | 28.7 | 28.9 | 0.2 | 0.1 | 0.2 | 0.2 | -0.4 | -1.6 | -1.7 | 1.1 | 1.0 | 0.3 | 0.2 | 0.2 |
| WSR28 | + - 10% | 28.7 | 28.9 | 28.8 | 28.9 | 25.2 | 16.5 | 15.1 | 18.0 | 25.6 | 28.2 | 28.7 | 28.8 | 28.7 | 28.9 | 28.9 | 28.9 | 25.2 | 16.4 | 15.0 | 18.3 | 25.9 | 28.3 | 28.7 | 28.9 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | -0.4 | -0.4 | 1.2 | 1.1 | 0.4 | 0.3 | 0.3 |
| WSR29 | + - 10% | 28.6 | 28.9 | 28.8 | 28.9 | 25.1 | 16.0 | 14.6 | 17.8 | 25.5 | 28.2 | 28.7 | 28.8 | 28.7 | 28.9 | 28.9 | 28.9 | 25.1 | 16.0 | 14.7 | 18.1 | 25.8 | 28.3 | 28.7 | 28.9 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 1.3 | 1.1 | 0.4 | 0.3 | 0.3 |
| WSR30 | + - 10% | 28.6 | 28.7 | 28.7 | 28.8 | 24.7 | 15.4 | 14.1 | 17.7 | 25.5 | 28.1 | 28.6 | 28.7 | 28.7 | 28.8 | 28.8 | 28.9 | 24.7 | 15.5 | 14.2 | 17.9 | 25.7 | 28.2 | 28.7 | 28.8 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.7 | 1.1 | 1.1 | 0.5 | 0.4 | 0.4 |
| WSR31 | + - 10% | 28.4 | 28.4 | 28.5 | 28.5 | 24.7 | 16.1 | 14.9 | 18.2 | 25.5 | 27.9 | 28.4 | 28.5 | 28.4 | 28.4 | 28.5 | 28.5 | 24.7 | 16.2 | 15.1 | 18.4 | 25.6 | 27.9 | 28.4 | 28.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.2 | 0.0 | 0.0 | 0.0 |
| WSR32 | + - 10% | 30.0 | 30.0 | 30.1 | 30.1 | 26.1 | 17.3 | 16.3 | 20.3 | 27.8 | 29.6 | 30.0 | 30.1 | 30.0 | 30.0 | 30.1 | 30.1 | 26.1 | 17.4 | 16.4 | 20.5 | 27.8 | 29.6 | 30.0 | 30.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.8 | 0.5 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR33 | + - 10% | 29.7 | 29.7 | 29.8 | 29.8 | 25.5 | 17.1 | 16.1 | 19.7 | 27.4 | 29.3 | 29.7 | 29.8 | 29.7 | 29.7 | 29.8 | 29.8 | 25.5 | 17.1 | 16.2 | 19.8 | 27.5 | 29.3 | 29.7 | 29.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.5 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR34 | + - 10% | 29.7 | 29.8 | 29.9 | 29.9 | 25.5 | 17.2 | 16.2 | 19.7 | 27.5 | 29.4 | 29.7 | 29.8 | 29.7 | 29.8 | 29.9 | 29.9 | 25.5 | 17.3 | 16.3 | 19.8 | 27.5 | 29.4 | 29.7 | 29.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR35 | + - 10% | 31.5 | 31.5 | 31.6 | 31.5 | 28.0 | 21.2 | 20.5 | 23.4 | 30.1 | 31.3 | 31.5 | 31.5 | 31.5 | 31.5 | 31.6 | 31.5 | 27.9 | 21.2 | 20.6 | 23.5 | 30.1 | 31.3 | 31.5 | 31.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.6 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR41 | + - 10% | 28.7 | 28.7 | 28.9 | 28.8 | 24.9 | 17.6 | 16.5 | 19.3 | 26.2 | 28.3 | 28.7 | 28.8 | 28.7 | 28.7 | 28.9 | 28.8 | 24.9 | 17.6 | 16.6 | 19.5 | 26.2 | 28.3 | 28.7 | 28.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.8 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR42 | + - 10% | 26.3 | 26.4 | 26.5 | 26.5 | 22.0 | 13.7 | 12.6 | 15.6 | 23.0 | 25.8 | 26.3 | 26.5 | 26.3 | 26.4 | 26.5 | 26.5 | 22.0 | 13.8 | 12.8 | 15.7 | 23.1 | 25.8 | 26.3 | 26.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.1 | 0.9 | 0.2 | 0.0 | 0.0 | 0.0 |
| WSR43 | N/A | 28.7 | 28.8 | 28.9 | 28.9 | 25.4 | 18.0 | 16.7 | 18.6 | 25.9 | 28.3 | 28.7 | 28.9 | 28.8 | 28.9 | 28.9 | 28.9 | 25.2 | 17.6 | 16.3 | 18.9 | 26.1 | 28.4 | 28.8 | 28.9 | 0.2 | 0.1 | 0.2 | 0.2 | -0.6 | -2.3 | -2.2 | 1.2 | 0.9 | 0.3 | 0.2 | 0.2 |
| WSR44 | N/A | 28.7 | 28.7 | 28.8 | 28.8 | 24.6 | 16.8 | 15.7 | 18.8 | 26.1 | 28.3 | 28.7 | 28.8 | 28.7 | 28.7 | 28.8 | 28.8 | 24.6 | 16.9 | 15.8 | 18.9 | 26.1 | 28.2 | 28.6 | 28.8 | -0.1 | -0.2 | -0.1 | -0.2 | -0.2 | 0.5 | 0.9 | 0.5 | 0.0 | -0.1 | -0.2 | -0.2 |
| WSR45 | + - 10% | 30.3 | 30.2 | 30.4 | 30.3 | 26.9 | 19.9 | 18.9 | 22.1 | 28.3 | 29.9 | 30.2 | 30.3 | 30.3 | 30.2 | 30.4 | 30.3 | 26.9 | 20.0 | 19.1 | 22.3 | 28.3 | 29.9 | 30.2 | 30.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR46 | + - 10% | 28.8 | 28.8 | 28.9 | 28.9 | 25.3 | 18.1 | 16.9 | 18.9 | 26.0 | 28.3 | 28.8 | 28.9 | 28.8 | 28.8 | 28.9 | 28.9 | 25.2 | 17.7 | 16.4 | 18.9 | 26.1 | 28.4 | 28.8 | 28.9 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4 | -2.4 | -2.4 | 0.3 | 0.3 | 0.1 | 0.0 | 0.0 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | + - 10% | 29.5 | 29.4 | 29.6 | 29.6 | 26.1 | 19.1 | 18.0 | 20.6 | 27.2 | 29.1 | 29.4 | 29.6 | 29.5 | 29.5 | 29.6 | 29.6 | 26.1 | 19.3 | 18.3 | 20.9 | 27.2 | 29.1 | 29.5 | 29.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 1.2 | 1.6 | 1.3 | 0.3 | 0.1 | 0.1 | 0.1 |
| M02 | + - 10% | 29.5 | 29.4 | 29.6 | 29.6 | 25.9 | 18.6 | 17.6 | 20.8 | 27.3 | 29.1 | 29.4 | 29.5 | 29.5 | 29.4 | 29.6 | 29.6 | 25.9 | 18.7 | 17.8 | 20.9 | 27.3 | 29.1 | 29.4 | 29.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| M03 | + - 10% | 30.4 | 30.3 | 30.5 | 30.5 | 27.8 | 21.6 | 20.8 | 23.4 | 28.6 | 30.1 | 30.4 | 30.5 | 30.4 | 30.3 | 30.5 | 30.5 | 27.8 | 21.7 | 20.9 | 23.5 | 28.6 | 30.1 | 30.4 | 30.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.8 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| M04 | + - 10% | 31.0 | 30.9 | 31.1 | 31.1 | 28.3 | 22.3 | 21.4 | 24.1 | 29.4 | 30.7 | 31.0 | 31.0 | 31.0 | 30.9 | 31.1 | 31.1 | 28.3 | 22.4 | 21.6 | 24.2 | 29.4 | 30.7 | 31.0 | 31.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.5 | 0.8 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| M05 | + - 10% | 30.5 | 30.4 | 30.6 | 30.5 | 27.3 | 20.5 | 19.5 | 22.6 | 28.6 | 30.1 | 30.4 | 30.5 | 30.5 | 30.4 | 30.6 | 30.5 | 27.3 | 20.6 | 19.7 | 22.8 | 28.6 | 30.1 | 30.4 | 30.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 0.7 | 0.1 | 0.0 | 0.0 | 0.0 |
| M06 | + - 10% | 26.9 | 27.0 | 27.1 | 27.1 | 22.6 | 14.2 | 13.1 | 16.1 | 23.7 | 26.4 | 26.9 | 27.1 | 26.9 | 27.0 | 27.1 | 27.1 | 22.6 | 14.3 | 13.2 | 16.3 | 23.8 | 26.4 | 26.9 | 27.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 0.8 | 0.2 | 0.0 | 0.0 | 0.0 |
| M07 | + - 10% | 24.6 | 24.7 | 24.8 | 24.8 | 20.1 | 11.9 | 10.8 | 13.7 | 21.0 | 23.9 | 24.6 | 24.8 | 24.6 | 24.7 | 24.8 | 24.8 | 20.2 | 11.9 | 10.9 | 13.9 | 21.0 | 23.9 | 24.6 | 24.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.1 | 0.9 | 0.2 | 0.0 | 0.0 | 0.0 |
| M08 | + - 10% | 25.6 | 25.6 | 25.8 | 25.8 | 21.8 | 13.9 | 12.9 | 15.7 | 22.3 | 25.0 | 25.6 | 25.7 | 25.6 | 25.6 | 25.8 | 25.8 | 21.8 | 14.0 | 13.0 | 15.8 | 22.3 | 25.0 | 25.6 | 25.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.0 | 0.9 | 0.2 | 0.0 | 0.0 | 0.0 |
| M09 | + - 10% | 26.5 | 26.5 | 26.7 | 26.7 | 21.8 | 13.7 | 12.6 | 15.5 | 23.3 | 25.9 | 26.4 | 26.6 | 26.5 | 26.5 | 26.7 | 26.7 | 21.8 | 13.8 | 12.7 | 15.7 | 23.3 | 25.9 | 26.4 | 26.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.0 | 0.8 | 0.2 | 0.0 | 0.0 | 0.0 |
| M10 | + - 10% | 26.4 | 26.5 | 26.6 | 26.6 | 21.9 | 13.6 | 12.4 | 15.4 | 23.2 | 25.9 | 26.4 | 26.6 | 26.4 | 26.5 | 26.6 | 26.6 | 21.9 | 13.6 | 12.5 | 15.6 | 23.2 | 25.9 | 26.4 | 26.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.0 | 0.9 | 0.2 | 0.0 | 0.0 | 0.0 |

Table A.2 Bottom layer dissolved oxygen of operational phase

| WSR | Criteria (mg/L) | Scenario 01 (Without Project ) | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | Difference (SCN02 - SCN01) (mg/L) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| WSR01 | 2 | 9.0 | 8.8 | 9.2 | 9.0 | 8.7 | 7.6 | 7.8 | 8.1 | 8.2 | 8.2 | 8.2 | 8.6 | 8.2 | 8.1 | 8.6 | 8.8 | 9.0 | 8.1 | 8.4 | 8.2 | 8.0 | 7.9 | 7.6 | 7.9 | -0.7 | -0.7 | -0.6 | -0.3 | 0.2 | 0.5 | 0.5 | 0.0 | -0.2 | -0.3 | -0.6 | -0.7 |
| WSR02 | 2 | 8.9 | 8.8 | 9.2 | 9.0 | 8.7 | 7.4 | 7.6 | 8.2 | 8.2 | 8.2 | 8.2 | 8.6 | 8.2 | 8.1 | 8.6 | 8.7 | 8.9 | 7.8 | 8.2 | 8.3 | 8.0 | 7.9 | 7.6 | 7.8 | -0.7 | -0.7 | -0.6 | -0.2 | 0.2 | 0.5 | 0.5 | 0.1 | -0.2 | -0.2 | -0.6 | -0.7 |
| WSR03 | 2 | 7.9 | 7.8 | 7.8 | 7.0 | 7.4 | 7.2 | 7.6 | 8.9 | 7.3 | 6.7 | 7.2 | 7.6 | 7.6 | 7.5 | 7.7 | 7.3 | 7.7 | 7.9 | 8.2 | 9.2 | 7.4 | 7.0 | 7.1 | 7.3 | -0.3 | -0.3 | -0.1 | 0.3 | 0.3 | 0.7 | 0.7 | 0.2 | 0.2 | 0.3 | -0.1 | -0.3 |
| WSR04 | 2 | 6.5 | 6.6 | 6.7 | 6.5 | 6.1 | 5.2 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.6 | 6.6 | 6.5 | 6.1 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR05a | 2 | 6.5 | 6.5 | 6.6 | 6.4 | 5.9 | 5.1 | 4.8 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 6.4 | 6.5 | 6.6 | 6.4 | 5.9 | 5.0 | 4.8 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR05b | 2 | 6.5 | 6.5 | 6.6 | 6.5 | 6.3 | 5.3 | 5.1 | 5.0 | 5.5 | 5.6 | 5.6 | 6.1 | 6.5 | 6.5 | 6.6 | 6.5 | 6.3 | 5.3 | 5.0 | 5.0 | 5.5 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR06 | 2 | 6.5 | 6.6 | 6.7 | 6.5 | 6.2 | 5.2 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.5 | 6.1 | 5.2 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR07 | N/A | 6.7 | 6.8 | 6.8 | 6.5 | 6.0 | 5.3 | 4.9 | 5.0 | 5.6 | 5.7 | 5.8 | 6.2 | 6.7 | 6.8 | 6.8 | 6.5 | 6.0 | 5.2 | 4.9 | 5.0 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR10 | 2 | 6.7 | 6.7 | 6.8 | 6.5 | 6.0 | 5.2 | 5.0 | 5.0 | 5.6 | 5.7 | 5.8 | 6.2 | 6.7 | 6.7 | 6.8 | 6.5 | 6.0 | 5.2 | 5.0 | 4.9 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR11 | N/A | 6.5 | 6.5 | 6.6 | 6.4 | 6.0 | 5.1 | 4.9 | 4.8 | 5.4 | 5.5 | 5.6 | 6.0 | 6.5 | 6.5 | 6.6 | 6.4 | 5.9 | 5.1 | 4.9 | 4.8 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR12 | 2 | 6.5 | 6.6 | 6.7 | 6.5 | 6.2 | 5.3 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.5 | 6.2 | 5.3 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR13 | N/A | 6.5 | 6.5 | 6.6 | 6.5 | 6.0 | 5.2 | 4.9 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 6.5 | 6.5 | 6.6 | 6.5 | 6.0 | 5.1 | 4.9 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR14 | 2 | 6.7 | 6.7 | 6.8 | 6.8 | 5.8 | 5.6 | 5.5 | 4.8 | 5.8 | 5.8 | 5.8 | 6.2 | 6.7 | 6.7 | 6.8 | 6.8 | 5.8 | 5.5 | 5.4 | 4.7 | 5.8 | 5.8 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR15 | 2 | 6.4 | 6.5 | 6.6 | 6.4 | 6.1 | 5.5 | 5.2 | 4.8 | 5.4 | 5.5 | 5.6 | 6.0 | 6.4 | 6.4 | 6.6 | 6.4 | 6.1 | 5.4 | 5.2 | 4.8 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR16 | 2 | 6.3 | 6.4 | 6.5 | 6.4 | 5.8 | 4.8 | 4.5 | 4.5 | 5.3 | 5.4 | 5.5 | 5.9 | 6.3 | 6.4 | 6.5 | 6.4 | 5.8 | 4.7 | 4.5 | 4.5 | 5.3 | 5.4 | 5.5 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR17 | N/A | 6.4 | 6.4 | 6.5 | 6.4 | 6.0 | 5.1 | 4.9 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 6.4 | 6.4 | 6.5 | 6.4 | 6.0 | 5.1 | 4.9 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR18 | 2 | 6.4 | 6.4 | 6.5 | 6.5 | 6.1 | 5.0 | 4.8 | 4.6 | 5.4 | 5.5 | 5.6 | 6.0 | 6.4 | 6.4 | 6.5 | 6.5 | 6.1 | 5.0 | 4.8 | 4.6 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR19 | 2 | 6.4 | 6.4 | 6.6 | 6.5 | 6.1 | 5.1 | 4.8 | 4.6 | 5.4 | 5.5 | 5.7 | 6.0 | 6.4 | 6.4 | 6.6 | 6.5 | 6.1 | 5.0 | 4.8 | 4.6 | 5.4 | 5.5 | 5.7 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR20 | 2 | 6.4 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.8 | 4.6 | 5.4 | 5.5 | 5.7 | 6.0 | 6.4 | 6.4 | 6.6 | 6.5 | 6.1 | 5.0 | 4.8 | 4.6 | 5.4 | 5.5 | 5.7 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR21 | N/A | 6.5 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.9 | 4.8 | 5.5 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR22a | 2 | 8.1 | 8.0 | 8.2 | 8.0 | 7.6 | 6.4 | 6.5 | 6.6 | 7.2 | 7.2 | 7.2 | 7.6 | 8.2 | 8.1 | 8.4 | 8.3 | 7.6 | 6.1 | 6.0 | 6.6 | 7.4 | 7.4 | 7.3 | 7.7 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | -0.4 | -0.4 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 |
| WSR22b | 2 | 8.6 | 8.6 | 8.5 | 7.9 | 7.4 | 6.6 | 6.6 | 6.9 | 7.3 | 7.3 | 7.6 | 8.2 | 8.7 | 8.7 | 8.6 | 8.0 | 7.3 | 6.1 | 6.2 | 6.7 | 7.4 | 7.4 | 7.7 | 8.2 | 0.0 | 0.0 | 0.1 | 0.1 | -0.1 | -0.5 | -0.5 | -0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| WSR22c | 2 | 7.6 | 7.6 | 7.8 | 7.7 | 7.3 | 6.1 | 6.0 | 6.3 | 6.8 | 6.8 | 6.7 | 7.1 | 7.7 | 7.7 | 7.9 | 7.9 | 7.3 | 5.7 | 5.6 | 6.2 | 7.0 | 7.0 | 6.9 | 7.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | -0.4 | -0.5 | -0.1 | 0.2 | 0.2 | 0.1 | 0.1 |
| WSR23 | N/A | 6.6 | 6.6 | 6.7 | 6.6 | 6.3 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.6 | 6.3 | 5.3 | 5.1 | 5.0 | 5.6 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR25 | 2 | 6.7 | 6.7 | 6.8 | 6.6 | 6.2 | 5.2 | 5.0 | 5.0 | 5.7 | 5.7 | 5.8 | 6.2 | 6.7 | 6.7 | 6.8 | 6.6 | 6.1 | 5.2 | 5.0 | 5.0 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR26 | 2 | 6.7 | 6.8 | 6.8 | 6.7 | 6.2 | 5.3 | 5.1 | 5.1 | 5.7 | 5.8 | 5.8 | 6.3 | 6.7 | 6.7 | 6.8 | 6.6 | 6.2 | 5.3 | 5.1 | 5.1 | 5.7 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR27 | 2 | 8.9 | 8.7 | 9.0 | 8.4 | 8.5 | 7.4 | 7.8 | 8.8 | 8.4 | 8.1 | 8.5 | 9.0 | 8.3 | 8.2 | 8.6 | 8.5 | 8.9 | 8.0 | 8.3 | 9.0 | 8.6 | 8.3 | 8.3 | 8.5 | -0.6 | -0.5 | -0.4 | 0.1 | 0.4 | 0.5 | 0.5 | 0.2 | 0.1 | 0.2 | -0.2 | -0.5 |
| WSR28 | 2 | 8.7 | 8.6 | 9.0 | 8.6 | 7.9 | 6.4 | 6.5 | 7.4 | 8.1 | 8.0 | 8.1 | 8.5 | 8.1 | 8.1 | 8.5 | 8.5 | 8.2 | 6.7 | 6.8 | 7.6 | 8.0 | 8.0 | 7.7 | 8.0 | -0.6 | -0.5 | -0.5 | -0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.0 | -0.1 | -0.4 | -0.5 |
| WSR29 | 2 | 9.0 | 8.8 | 9.2 | 8.6 | 8.0 | 6.5 | 6.5 | 7.7 | 8.3 | 8.2 | 8.4 | 8.9 | 8.4 | 8.3 | 8.8 | 8.7 | 8.4 | 6.8 | 6.9 | 8.0 | 8.5 | 8.3 | 8.2 | 8.5 | -0.6 | -0.5 | -0.4 | 0.1 | 0.4 | 0.3 | 0.4 | 0.3 | 0.1 | 0.1 | -0.3 | -0.4 |
| WSR30 | 2 | 8.5 | 8.4 | 8.7 | 8.2 | 7.6 | 6.1 | 6.0 | 6.8 | 7.7 | 7.7 | 7.9 | 8.4 | 8.2 | 8.1 | 8.5 | 8.4 | 7.9 | 6.2 | 6.2 | 7.1 | 8.0 | 7.9 | 7.8 | 8.2 | -0.4 | -0.3 | -0.2 | 0.1 | 0.3 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | -0.1 | -0.2 |
| WSR31 | 2 | 6.9 | 6.9 | 6.9 | 6.8 | 6.0 | 5.1 | 5.0 | 5.0 | 5.9 | 5.9 | 6.0 | 6.4 | 6.8 | 6.9 | 6.9 | 6.8 | 6.0 | 5.1 | 5.0 | 5.0 | 5.9 | 5.9 | 6.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR32 | 2 | 6.5 | 6.5 | 6.6 | 6.4 | 5.9 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.5 | 6.6 | 6.4 | 5.9 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR33 | 2 | 7.0 | 7.0 | 7.1 | 7.0 | 6.3 | 5.3 | 5.2 | 5.3 | 6.0 | 6.1 | 6.2 | 6.6 | 7.0 | 7.0 | 7.1 | 7.0 | 6.3 | 5.3 | 5.2 | 5.3 | 6.0 | 6.1 | 6.2 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR34 | 2 | 6.9 | 6.9 | 7.0 | 6.8 | 6.3 | 5.3 | 5.2 | 5.2 | 5.9 | 6.0 | 6.0 | 6.4 | 6.9 | 6.8 | 6.9 | 6.8 | 6.3 | 5.3 | 5.1 | 5.2 | 5.9 | 6.0 | 6.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR35 | 2 | 7.0 | 7.0 | 7.1 | 7.0 | 6.3 | 5.2 | 5.0 | 5.3 | 6.0 | 6.1 | 6.2 | 6.6 | 7.0 | 7.0 | 7.1 | 7.0 | 6.3 | 5.2 | 5.0 | 5.2 | 6.0 | 6.1 | 6.2 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR41 | 2 | 6.6 | 6.7 | 6.8 | 6.6 | 6.2 | 5.2 | 5.0 | 5.0 | 5.6 | 5.7 | 5.8 | 6.2 | 6.6 | 6.7 | 6.7 | 6.6 | 6.2 | 5.2 | 5.0 | 5.0 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR42 | 2 | 6.9 | 6.9 | 7.0 | 6.7 | 6.1 | 5.3 | 5.1 | 5.2 | 5.8 | 5.9 | 6.0 | 6.4 | 6.9 | 6.9 | 7.0 | 6.7 | 6.1 | 5.3 | 5.1 | 5.2 | 5.8 | 5.9 | 6.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR43 | N/A | 8.1 | 8.1 | 8.4 | 8.4 | 7.5 | 5.7 | 5.7 | 6.6 | 7.5 | 7.5 | 7.4 | 7.7 | 7.6 | 7.6 | 7.9 | 8.0 | 7.4 | 5.9 | 5.8 | 6.4 | 7.1 | 7.1 | 6.9 | 7.2 | -0.6 | -0.5 | -0.6 | -0.4 | 0.0 | 0.1 | 0.1 | -0.2 | -0.3 | -0.4 | -0.5 | -0.6 |
| WSR44 | N/A | 6.9 | 7.0 | 7.1 | 7.0 | 6.6 | 5.5 | 5.3 | 5.4 | 6.1 | 6.1 | 6.1 | 6.5 | 6.8 | 6.9 | 7.0 | 6.9 | 6.5 | 5.4 | 5.2 | 5.3 | 5.9 | 6.0 | 6.0 | 6.4 | -0.1 | -0.1 | -0.1 | -0.2 | -0.1 | 0.0 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 |
| WSR45 | 2 | 6.5 | 6.6 | 6.7 | 6.5 | 6.2 | 5.2 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR46 | 2 | 7.5 | 7.6 | 7.8 | 7.8 | 7.1 | 5.6 | 5.5 | 6.0 | 6.8 | 6.9 | 6.7 | 7.1 | 7.4 | 7.4 | 7.6 | 7.7 | 7.1 | 5.7 | 5.6 | 6.1 | 6.8 | 6.8 | 6.6 | 6.9 | -0.2 | -0.2 | -0.2 | -0.1 | 0.1 | 0.1 | 0.1 | 0.0 | -0.1 | -0.1 | -0.1 | -0.2 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | 2 | 6.6 | 6.7 | 6.8 | 6.7 | 6.4 | 5.5 | 5.3 | 5.1 | 5.6 | 5.7 | 5.8 | 6.2 | 6.6 | 6.6 | 6.7 | 6.6 | 6.3 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.7 | 6.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0 | -0.1 |
| M02 | 2 | 6.5 | 6.6 | 6.7 | 6.5 | 6.1 | 5.2 | 4.9 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.5 | 6.1 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M03 | 2 | 6.4 | 6.5 | 6.6 | 6.5 | 6.0 | 5.0 | 4.8 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 6.4 | 6.5 | 6.6 | 6.5 | 6.0 | 5.0 | 4.8 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M04 | 2 | 6.4 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.9 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 6.4 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.8 | 4.7 | 5.4 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M05 | 2 | 6.5 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.5 | 6.6 | 6.5 | 6.1 | 5.1 | 4.9 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M06 | 2 | 7.0 | 7.0 | 7.1 | 6.8 | 6.2 | 5.4 | 5.2 | 5.3 | 6.0 | 6.0 | 6.1 | 6.5 | 7.0 | 7.0 | 7.1 | 6.8 | 6.2 | 5.4 | 5.2 | 5.3 | 6.0 | 6.0 | 6.1 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M07 | 2 | 6.8 | 6.8 | 6.8 | 6.5 | 5.9 | 5.2 | 5.0 | 5.0 | 5.6 | 5.7 | 5.8 | 6.3 | 6.8 | 6.8 | 6.8 | 6.5 | 5.9 | 5.2 | 5.0 | 5.0 | 5.6 | 5.7 | 5.8 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M08 | 2 | 6.6 | 6.7 | 6.7 | 6.5 | 5.9 | 5.1 | 4.9 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 6.6 | 6.7 | 6.7 | 6.5 | 5.9 | 5.1 | 4.8 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M09 | 2 | 6.8 | 6.8 | 6.9 | 6.6 | 6.1 | 5.2 | 5.0 | 5.1 | 5.7 | 5.8 | 5.8 | 6.3 | 6.8 | 6.8 | 6.9 | 6.6 | 6.1 | 5.2 | 5.0 | 5.1 | 5.7 | 5.8 | 5.8 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M10 | 2 | 6.9 | 7.0 | 7.0 | 6.8 | 6.2 | 5.3 | 5.1 | 5.2 | 5.9 | 6.0 | 6.0 | 6.5 | 6.9 | 7.0 | 7.0 | 6.8 | 6.2 | 5.3 | 5.1 | 5.3 | 5.9 | 6.0 | 6.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table A.3 Depth averaged dissolved oxygen of operational phase

| WSR | Criteria (mg/L) | Scenario 01 (Without Project ) | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | Difference (SCN02 - SCN01) (mg/L) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| WSR01 | 4 | 9.0 | 8.8 | 9.2 | 9.0 | 8.8 | 7.8 | 8.0 | 8.2 | 8.2 | 8.2 | 8.2 | 8.6 | 8.2 | 8.1 | 8.6 | 8.8 | 9.0 | 8.2 | 8.5 | 8.2 | 8.0 | 8.0 | 7.6 | 7.9 | -0.7 | -0.7 | -0.6 | -0.2 | 0.2 | 0.4 | 0.5 | 0.0 | -0.2 | -0.3 | -0.6 | -0.7 |
| WSR02 | 4 | 8.9 | 8.8 | 9.2 | 9.0 | 8.8 | 7.6 | 7.8 | 8.3 | 8.2 | 8.2 | 8.2 | 8.6 | 8.2 | 8.1 | 8.6 | 8.7 | 9.0 | 8.0 | 8.3 | 8.3 | 8.0 | 7.9 | 7.6 | 7.9 | -0.7 | -0.7 | -0.6 | -0.2 | 0.2 | 0.4 | 0.5 | 0.0 | -0.2 | -0.2 | -0.6 | -0.7 |
| WSR03 | 4 | 8.6 | 8.5 | 8.5 | 7.6 | 8.0 | 8.2 | 8.5 | 9.6 | 7.9 | 7.3 | 7.8 | 8.2 | 8.2 | 8.1 | 8.4 | 7.9 | 8.3 | 8.9 | 9.2 | 9.8 | 8.0 | 7.5 | 7.7 | 8.0 | -0.4 | -0.3 | -0.1 | 0.3 | 0.3 | 0.6 | 0.6 | 0.2 | 0.1 | 0.2 | -0.1 | -0.3 |
| WSR04 | 4 | 6.6 | 6.7 | 6.8 | 6.7 | 6.4 | 5.5 | 5.2 | 5.2 | 5.7 | 5.7 | 5.8 | 6.2 | 6.6 | 6.7 | 6.8 | 6.6 | 6.4 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR05a | 4 | 6.6 | 6.6 | 6.7 | 6.5 | 6.2 | 5.4 | 5.1 | 5.0 | 5.5 | 5.6 | 5.7 | 6.1 | 6.6 | 6.6 | 6.7 | 6.5 | 6.2 | 5.4 | 5.1 | 5.0 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR05b | 4 | 6.7 | 6.7 | 6.8 | 6.7 | 6.6 | 5.6 | 5.3 | 5.4 | 5.7 | 5.8 | 5.8 | 6.2 | 6.7 | 6.7 | 6.8 | 6.7 | 6.6 | 5.6 | 5.3 | 5.4 | 5.7 | 5.8 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR06 | 4 | 6.6 | 6.7 | 6.8 | 6.7 | 6.4 | 5.5 | 5.2 | 5.2 | 5.7 | 5.7 | 5.8 | 6.2 | 6.6 | 6.7 | 6.8 | 6.6 | 6.4 | 5.4 | 5.2 | 5.2 | 5.7 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR07 | N/A | 6.9 | 7.0 | 7.0 | 6.7 | 6.4 | 5.7 | 5.3 | 5.4 | 5.8 | 5.9 | 6.0 | 6.4 | 6.9 | 7.0 | 7.0 | 6.7 | 6.4 | 5.7 | 5.3 | 5.4 | 5.8 | 5.9 | 6.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR10 | 4 | 6.9 | 6.9 | 6.9 | 6.7 | 6.3 | 5.5 | 5.3 | 5.3 | 5.8 | 5.8 | 5.9 | 6.4 | 6.9 | 6.9 | 6.9 | 6.7 | 6.3 | 5.5 | 5.3 | 5.3 | 5.8 | 5.8 | 5.9 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR11 | N/A | 6.6 | 6.7 | 6.7 | 6.5 | 6.2 | 5.5 | 5.2 | 5.1 | 5.5 | 5.6 | 5.7 | 6.2 | 6.6 | 6.7 | 6.7 | 6.5 | 6.2 | 5.5 | 5.2 | 5.1 | 5.5 | 5.6 | 5.7 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR12 | 4 | 6.6 | 6.6 | 6.8 | 6.6 | 6.5 | 5.6 | 5.3 | 5.2 | 5.6 | 5.7 | 5.8 | 6.2 | 6.6 | 6.6 | 6.7 | 6.6 | 6.4 | 5.6 | 5.3 | 5.2 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR13 | 2 | 6.6 | 6.6 | 6.7 | 6.6 | 6.3 | 5.5 | 5.3 | 5.1 | 5.6 | 5.6 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.6 | 6.3 | 5.5 | 5.2 | 5.0 | 5.6 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR14 | 4 | 7.0 | 7.0 | 7.2 | 7.1 | 7.6 | 7.3 | 7.1 | 6.6 | 6.1 | 6.1 | 6.1 | 6.5 | 7.0 | 7.0 | 7.2 | 7.1 | 7.6 | 7.3 | 7.1 | 6.6 | 6.1 | 6.1 | 6.1 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR15 | 4 | 6.5 | 6.6 | 6.7 | 6.6 | 6.6 | 5.9 | 5.6 | 5.3 | 5.6 | 5.7 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.6 | 6.6 | 5.9 | 5.6 | 5.2 | 5.6 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR16 | 4 | 6.5 | 6.5 | 6.7 | 6.6 | 6.4 | 5.7 | 5.4 | 5.1 | 5.6 | 5.6 | 5.7 | 6.1 | 6.5 | 6.5 | 6.6 | 6.5 | 6.4 | 5.7 | 5.3 | 5.1 | 5.6 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR17 | 2 | 6.5 | 6.5 | 6.6 | 6.5 | 6.3 | 5.4 | 5.2 | 5.0 | 5.5 | 5.5 | 5.7 | 6.1 | 6.5 | 6.5 | 6.6 | 6.5 | 6.3 | 5.4 | 5.2 | 5.0 | 5.5 | 5.5 | 5.6 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR18 | 4 | 6.4 | 6.5 | 6.6 | 6.5 | 6.2 | 5.2 | 5.0 | 4.8 | 5.4 | 5.5 | 5.7 | 6.0 | 6.4 | 6.5 | 6.6 | 6.5 | 6.2 | 5.2 | 5.0 | 4.8 | 5.4 | 5.5 | 5.7 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR19 | 4 | 6.4 | 6.5 | 6.6 | 6.6 | 6.3 | 5.3 | 5.0 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 6.4 | 6.5 | 6.6 | 6.5 | 6.3 | 5.2 | 5.0 | 4.8 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR20 | 4 | 6.5 | 6.5 | 6.6 | 6.6 | 6.3 | 5.3 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.5 | 6.6 | 6.5 | 6.3 | 5.3 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR21 | 2 | 6.6 | 6.6 | 6.7 | 6.6 | 6.4 | 5.5 | 5.2 | 5.1 | 5.6 | 5.7 | 5.8 | 6.1 | 6.6 | 6.6 | 6.7 | 6.6 | 6.4 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR22a | 4 | 8.2 | 8.1 | 8.3 | 8.1 | 8.1 | 7.2 | 7.1 | 7.1 | 7.3 | 7.3 | 7.3 | 7.7 | 8.3 | 8.2 | 8.4 | 8.3 | 8.1 | 6.9 | 6.8 | 7.1 | 7.5 | 7.5 | 7.4 | 7.8 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | -0.3 | -0.3 | 0.0 | 0.2 | 0.2 | 0.2 | 0.1 |
| WSR22b | 4 | 8.7 | 8.7 | 8.6 | 7.9 | 7.9 | 7.5 | 7.4 | 7.3 | 7.3 | 7.3 | 7.7 | 8.3 | 8.8 | 8.8 | 8.6 | 7.9 | 7.9 | 7.4 | 7.3 | 7.3 | 7.4 | 7.4 | 7.8 | 8.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | -0.1 | -0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| WSR22c | 4 | 7.7 | 7.7 | 7.9 | 7.8 | 7.8 | 6.6 | 6.6 | 6.7 | 6.9 | 7.0 | 6.8 | 7.2 | 7.8 | 7.7 | 8.0 | 8.0 | 7.8 | 6.2 | 6.1 | 6.7 | 7.1 | 7.1 | 7.0 | 7.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | -0.4 | -0.5 | -0.1 | 0.2 | 0.2 | 0.1 | 0.1 |
| WSR23 | 2 | 6.7 | 6.8 | 6.9 | 6.8 | 6.6 | 5.7 | 5.5 | 5.4 | 5.8 | 5.8 | 5.9 | 6.3 | 6.7 | 6.7 | 6.9 | 6.7 | 6.6 | 5.6 | 5.4 | 5.4 | 5.8 | 5.8 | 5.9 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR25 | 4 | 6.8 | 6.8 | 6.9 | 6.8 | 6.4 | 5.5 | 5.3 | 5.3 | 5.8 | 5.9 | 5.9 | 6.3 | 6.8 | 6.8 | 6.9 | 6.7 | 6.4 | 5.4 | 5.2 | 5.3 | 5.8 | 5.8 | 5.9 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR26 | 4 | 6.8 | 6.9 | 6.9 | 6.8 | 6.4 | 5.5 | 5.3 | 5.4 | 5.8 | 5.9 | 5.9 | 6.4 | 6.8 | 6.8 | 6.9 | 6.7 | 6.4 | 5.5 | 5.3 | 5.4 | 5.8 | 5.9 | 5.9 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR27 | 4 | 8.9 | 8.7 | 9.0 | 8.4 | 8.6 | 7.8 | 8.1 | 8.9 | 8.4 | 8.1 | 8.5 | 9.0 | 8.3 | 8.2 | 8.6 | 8.5 | 9.0 | 8.3 | 8.6 | 9.1 | 8.5 | 8.3 | 8.3 | 8.5 | -0.6 | -0.5 | -0.4 | 0.1 | 0.4 | 0.5 | 0.5 | 0.2 | 0.1 | 0.2 | -0.2 | -0.5 |
| WSR28 | 4 | 8.8 | 8.7 | 9.0 | 8.7 | 8.1 | 6.6 | 6.7 | 7.6 | 8.2 | 8.1 | 8.2 | 8.6 | 8.2 | 8.1 | 8.6 | 8.6 | 8.4 | 6.9 | 7.0 | 7.9 | 8.1 | 8.0 | 7.8 | 8.0 | -0.6 | -0.5 | -0.5 | -0.1 | 0.3 | 0.3 | 0.3 | 0.2 | -0.1 | -0.1 | -0.4 | -0.6 |
| WSR29 | 4 | 9.0 | 8.9 | 9.2 | 8.6 | 8.2 | 6.7 | 6.7 | 7.8 | 8.4 | 8.2 | 8.5 | 9.0 | 8.4 | 8.4 | 8.8 | 8.7 | 8.6 | 7.0 | 7.0 | 8.1 | 8.5 | 8.3 | 8.2 | 8.5 | -0.6 | -0.5 | -0.4 | 0.1 | 0.4 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | -0.3 | -0.4 |
| WSR30 | 4 | 8.6 | 8.5 | 8.8 | 8.4 | 7.7 | 6.3 | 6.2 | 7.0 | 7.9 | 7.8 | 8.0 | 8.5 | 8.3 | 8.2 | 8.6 | 8.5 | 8.0 | 6.5 | 6.3 | 7.3 | 8.1 | 8.0 | 7.9 | 8.3 | -0.4 | -0.3 | -0.2 | 0.1 | 0.3 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | -0.1 | -0.2 |
| WSR31 | 4 | 7.1 | 7.1 | 7.2 | 7.0 | 6.7 | 5.9 | 5.7 | 5.7 | 6.2 | 6.2 | 6.2 | 6.6 | 7.1 | 7.1 | 7.2 | 7.0 | 6.7 | 5.9 | 5.7 | 5.7 | 6.2 | 6.2 | 6.2 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR32 | 4 | 7.0 | 7.0 | 7.1 | 7.0 | 6.7 | 6.0 | 5.8 | 5.6 | 6.1 | 6.1 | 6.2 | 6.5 | 7.0 | 7.0 | 7.1 | 7.0 | 6.7 | 6.0 | 5.8 | 5.6 | 6.1 | 6.1 | 6.1 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR33 | 4 | 7.1 | 7.1 | 7.2 | 7.1 | 6.7 | 5.8 | 5.6 | 5.7 | 6.2 | 6.2 | 6.3 | 6.7 | 7.1 | 7.1 | 7.2 | 7.1 | 6.7 | 5.8 | 5.6 | 5.7 | 6.2 | 6.2 | 6.3 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR34 | 4 | 7.2 | 7.2 | 7.3 | 7.2 | 6.8 | 5.8 | 5.6 | 5.8 | 6.3 | 6.3 | 6.4 | 6.7 | 7.2 | 7.1 | 7.3 | 7.2 | 6.8 | 5.8 | 5.6 | 5.7 | 6.3 | 6.3 | 6.3 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR35 | 4 | 7.0 | 7.0 | 7.1 | 7.0 | 6.5 | 5.5 | 5.4 | 5.5 | 6.0 | 6.1 | 6.3 | 6.7 | 7.0 | 7.0 | 7.1 | 7.0 | 6.5 | 5.5 | 5.4 | 5.4 | 6.0 | 6.1 | 6.3 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR41 | 4 | 6.8 | 6.8 | 6.9 | 6.7 | 6.4 | 5.5 | 5.3 | 5.3 | 5.8 | 5.8 | 5.9 | 6.3 | 6.7 | 6.8 | 6.9 | 6.7 | 6.4 | 5.5 | 5.3 | 5.3 | 5.7 | 5.8 | 5.9 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR42 | 4 | 7.0 | 7.0 | 7.1 | 6.8 | 6.4 | 5.6 | 5.4 | 5.4 | 5.9 | 6.0 | 6.0 | 6.5 | 7.0 | 7.0 | 7.1 | 6.8 | 6.4 | 5.6 | 5.4 | 5.4 | 5.9 | 6.0 | 6.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR43 | 2 | 8.4 | 8.3 | 8.7 | 8.7 | 8.2 | 6.7 | 6.7 | 7.4 | 7.7 | 7.8 | 7.6 | 7.9 | 7.8 | 7.7 | 8.1 | 8.2 | 8.2 | 6.8 | 6.8 | 7.1 | 7.4 | 7.4 | 7.1 | 7.3 | -0.6 | -0.5 | -0.6 | -0.4 | -0.1 | 0.2 | 0.1 | -0.2 | -0.3 | -0.4 | -0.5 | -0.6 |
| WSR44 | 2 | 7.1 | 7.1 | 7.3 | 7.2 | 6.9 | 5.8 | 5.6 | 5.7 | 6.3 | 6.3 | 6.3 | 6.7 | 7.0 | 7.0 | 7.2 | 7.1 | 6.8 | 5.8 | 5.5 | 5.7 | 6.2 | 6.2 | 6.1 | 6.5 | -0.1 | -0.1 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | -0.1 | -0.1 | -0.2 | -0.1 | -0.1 |
| WSR45 | 4 | 6.6 | 6.7 | 6.8 | 6.7 | 6.4 | 5.5 | 5.3 | 5.2 | 5.6 | 5.7 | 5.8 | 6.2 | 6.6 | 6.6 | 6.7 | 6.6 | 6.4 | 5.5 | 5.2 | 5.1 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR46 | 4 | 7.8 | 7.7 | 8.0 | 8.0 | 7.9 | 6.5 | 6.4 | 6.8 | 7.1 | 7.1 | 7.0 | 7.3 | 7.6 | 7.6 | 7.8 | 7.9 | 7.9 | 6.7 | 6.6 | 6.8 | 7.1 | 7.0 | 6.8 | 7.1 | -0.2 | -0.2 | -0.2 | -0.1 | 0.1 | 0.2 | 0.2 | 0.0 | -0.1 | -0.1 | -0.2 | -0.2 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | 4 | 6.9 | 6.9 | 7.0 | 6.9 | 6.8 | 5.9 | 5.7 | 5.6 | 6.0 | 6.0 | 6.0 | 6.4 | 6.8 | 6.8 | 7.0 | 6.9 | 6.7 | 5.7 | 5.5 | 5.5 | 5.9 | 5.9 | 6.0 | 6.3 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 |
| M02 | 4 | 6.6 | 6.7 | 6.8 | 6.6 | 6.3 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.8 | 6.2 | 6.6 | 6.7 | 6.8 | 6.6 | 6.3 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.8 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M03 | 4 | 6.5 | 6.6 | 6.7 | 6.6 | 6.2 | 5.3 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.5 | 6.2 | 5.3 | 5.0 | 4.9 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M04 | 4 | 6.5 | 6.6 | 6.7 | 6.6 | 6.3 | 5.3 | 5.1 | 5.0 | 5.5 | 5.6 | 5.7 | 6.1 | 6.5 | 6.6 | 6.7 | 6.6 | 6.3 | 5.3 | 5.1 | 5.0 | 5.5 | 5.6 | 5.7 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M05 | 4 | 6.6 | 6.6 | 6.7 | 6.6 | 6.4 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.8 | 6.2 | 6.6 | 6.6 | 6.7 | 6.6 | 6.4 | 5.4 | 5.2 | 5.1 | 5.6 | 5.7 | 5.8 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M06 | 4 | 7.0 | 7.1 | 7.1 | 6.9 | 6.5 | 5.7 | 5.4 | 5.5 | 6.0 | 6.1 | 6.1 | 6.6 | 7.0 | 7.1 | 7.1 | 6.9 | 6.5 | 5.6 | 5.4 | 5.5 | 6.0 | 6.1 | 6.1 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M07 | 4 | 6.9 | 7.0 | 7.0 | 6.7 | 6.2 | 5.5 | 5.3 | 5.3 | 5.8 | 5.9 | 6.0 | 6.4 | 6.9 | 7.0 | 7.0 | 6.7 | 6.2 | 5.5 | 5.3 | 5.3 | 5.8 | 5.9 | 6.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M08 | 4 | 6.8 | 6.9 | 6.9 | 6.6 | 6.1 | 5.4 | 5.2 | 5.2 | 5.7 | 5.8 | 5.9 | 6.3 | 6.8 | 6.9 | 6.9 | 6.6 | 6.1 | 5.4 | 5.2 | 5.2 | 5.7 | 5.8 | 5.9 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M09 | 4 | 6.9 | 6.9 | 7.0 | 6.8 | 6.4 | 5.6 | 5.3 | 5.4 | 5.8 | 5.9 | 6.0 | 6.4 | 6.9 | 6.9 | 7.0 | 6.7 | 6.4 | 5.5 | 5.3 | 5.4 | 5.8 | 5.9 | 6.0 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M10 | 4 | 7.0 | 7.0 | 7.1 | 6.9 | 6.4 | 5.6 | 5.4 | 5.5 | 6.0 | 6.0 | 6.1 | 6.5 | 7.0 | 7.0 | 7.1 | 6.9 | 6.5 | 5.6 | 5.4 | 5.5 | 6.0 | 6.0 | 6.1 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table A.4 Depth averaged 5-day biology oxygen demand of operational phase

| WSR | Criteria (mg/L) | Scenario 01 (Without Project ) | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | Difference (SCN02 - SCN01) (mg/L) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| WSR01 | N/A | 2.1 | 2.1 | 2.4 | 2.8 | 3.8 | 3.7 | 3.4 | 3.4 | 2.8 | 2.6 | 2.2 | 2.1 | 1.6 | 1.6 | 1.9 | 2.4 | 3.7 | 4.5 | 4.2 | 3.2 | 2.5 | 2.2 | 1.7 | 1.6 | -0.5 | -0.5 | -0.5 | -0.4 | -0.1 | 0.8 | 0.8 | -0.2 | -0.4 | -0.4 | -0.5 | -0.5 |
| WSR02 | N/A | 2.2 | 2.2 | 2.5 | 2.9 | 4.8 | 5.9 | 5.5 | 4.3 | 3.0 | 2.7 | 2.3 | 2.2 | 1.7 | 1.7 | 2.0 | 2.5 | 4.8 | 6.8 | 6.5 | 4.3 | 2.6 | 2.3 | 1.8 | 1.6 | -0.5 | -0.5 | -0.5 | -0.4 | 0.0 | 0.9 | 1.0 | 0.0 | -0.4 | -0.4 | -0.5 | -0.5 |
| WSR03 | N/A | 3.9 | 3.7 | 4.1 | 4.2 | 7.3 | 6.0 | 5.9 | 8.0 | 4.8 | 4.2 | 4.0 | 3.9 | 3.4 | 3.3 | 3.7 | 4.1 | 7.5 | 6.4 | 6.3 | 8.1 | 4.5 | 4.0 | 3.6 | 3.4 | -0.5 | -0.5 | -0.4 | -0.1 | 0.1 | 0.4 | 0.4 | 0.1 | -0.2 | -0.2 | -0.4 | -0.5 |
| WSR04 | N/A | 0.8 | 0.9 | 1.0 | 1.1 | 1.3 | 1.0 | 0.7 | 0.9 | 1.1 | 0.9 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 1.1 | 1.3 | 1.0 | 0.7 | 0.9 | 1.1 | 0.9 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR05a | N/A | 0.8 | 0.8 | 0.9 | 1.1 | 1.3 | 1.0 | 0.7 | 0.9 | 1.0 | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 1.0 | 0.7 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR05b | N/A | 0.7 | 0.8 | 0.9 | 1.0 | 1.3 | 1.0 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 1.3 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR06 | N/A | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR07 | N/A | 1.4 | 1.4 | 1.6 | 1.7 | 1.8 | 1.4 | 0.8 | 1.3 | 1.6 | 1.4 | 1.2 | 1.2 | 1.4 | 1.4 | 1.5 | 1.7 | 1.8 | 1.4 | 0.8 | 1.3 | 1.6 | 1.4 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR10 | N/A | 1.1 | 1.1 | 1.2 | 1.4 | 1.4 | 1.0 | 0.6 | 1.0 | 1.3 | 1.1 | 0.9 | 0.9 | 1.1 | 1.1 | 1.2 | 1.4 | 1.4 | 1.0 | 0.6 | 1.0 | 1.3 | 1.1 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR11 | N/A | 0.9 | 0.9 | 1.0 | 1.1 | 1.3 | 1.1 | 0.7 | 0.9 | 1.1 | 0.9 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 1.1 | 1.3 | 1.1 | 0.7 | 1.0 | 1.1 | 0.9 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR12 | N/A | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 1.0 | 0.7 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 1.0 | 0.7 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR13 | 10 | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 1.0 | 0.7 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 1.0 | 0.7 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR14 | N/A | 1.2 | 1.3 | 1.5 | 1.8 | 2.7 | 1.8 | 1.5 | 2.1 | 1.7 | 1.4 | 1.1 | 1.1 | 1.2 | 1.2 | 1.5 | 1.8 | 2.7 | 1.8 | 1.5 | 2.2 | 1.7 | 1.4 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR15 | N/A | 0.8 | 0.9 | 1.0 | 1.1 | 1.4 | 1.1 | 0.7 | 1.0 | 1.1 | 0.9 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.4 | 1.1 | 0.7 | 1.0 | 1.1 | 0.9 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR16 | N/A | 0.9 | 1.0 | 1.1 | 1.2 | 1.7 | 1.3 | 1.0 | 1.2 | 1.2 | 1.0 | 0.8 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.7 | 1.3 | 1.0 | 1.2 | 1.2 | 1.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR17 | 10 | 0.7 | 0.7 | 0.8 | 0.9 | 1.2 | 0.9 | 0.6 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.1 | 0.9 | 0.6 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR18 | N/A | 0.6 | 0.6 | 0.7 | 0.8 | 1.0 | 0.8 | 0.6 | 0.8 | 0.8 | 0.6 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 1.0 | 0.8 | 0.6 | 0.8 | 0.8 | 0.6 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR19 | N/A | 0.5 | 0.5 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.7 | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR20 | N/A | 0.6 | 0.6 | 0.7 | 0.8 | 1.0 | 0.8 | 0.6 | 0.8 | 0.8 | 0.6 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.8 | 1.0 | 0.8 | 0.6 | 0.8 | 0.8 | 0.6 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR21 | 10 | 0.7 | 0.8 | 0.8 | 1.0 | 1.2 | 0.9 | 0.7 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 1.0 | 1.2 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR22a | N/A | 1.9 | 1.9 | 2.1 | 2.3 | 2.9 | 2.2 | 1.8 | 2.2 | 2.3 | 2.1 | 1.8 | 1.8 | 1.8 | 1.8 | 2.0 | 2.2 | 2.6 | 1.9 | 1.6 | 1.9 | 2.2 | 2.0 | 1.8 | 1.7 | -0.1 | -0.1 | -0.1 | -0.1 | -0.3 | -0.3 | -0.3 | -0.3 | -0.1 | -0.1 | -0.1 | -0.1 |
| WSR22b | N/A | 2.9 | 2.8 | 3.0 | 3.0 | 3.6 | 3.1 | 2.6 | 3.1 | 3.2 | 2.9 | 2.8 | 2.8 | 2.8 | 2.7 | 2.9 | 2.9 | 3.3 | 2.7 | 2.3 | 2.7 | 3.1 | 2.8 | 2.7 | 2.7 | -0.1 | -0.1 | -0.1 | -0.1 | -0.3 | -0.4 | -0.4 | -0.4 | -0.2 | -0.1 | -0.1 | -0.1 |
| WSR22c | N/A | 1.5 | 1.4 | 1.7 | 1.9 | 2.5 | 1.8 | 1.5 | 1.9 | 1.9 | 1.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.8 | 2.2 | 1.5 | 1.2 | 1.6 | 1.8 | 1.6 | 1.3 | 1.3 | -0.1 | -0.1 | -0.1 | -0.1 | -0.3 | -0.3 | -0.3 | -0.3 | -0.1 | -0.1 | -0.1 | -0.1 |
| WSR23 | 10 | 0.9 | 0.9 | 1.0 | 1.2 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | 1.1 | 1.4 | 1.0 | 0.7 | 1.0 | 1.1 | 0.9 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR25 | N/A | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR26 | N/A | 1.0 | 1.0 | 1.1 | 1.3 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.0 | 0.9 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR27 | N/A | 2.8 | 2.7 | 3.1 | 3.3 | 4.9 | 3.4 | 3.2 | 4.9 | 3.8 | 3.3 | 3.1 | 2.9 | 2.2 | 2.2 | 2.6 | 3.1 | 5.0 | 3.8 | 3.6 | 4.9 | 3.5 | 3.1 | 2.6 | 2.4 | -0.5 | -0.5 | -0.5 | -0.3 | 0.1 | 0.4 | 0.4 | 0.0 | -0.3 | -0.3 | -0.4 | -0.5 |
| WSR28 | N/A | 2.4 | 2.3 | 2.7 | 3.0 | 3.7 | 1.9 | 1.7 | 3.4 | 3.3 | 2.9 | 2.5 | 2.4 | 1.9 | 1.8 | 2.2 | 2.7 | 3.7 | 2.2 | 1.9 | 3.4 | 2.9 | 2.5 | 2.1 | 1.9 | -0.5 | -0.5 | -0.5 | -0.4 | 0.0 | 0.3 | 0.3 | 0.0 | -0.3 | -0.3 | -0.5 | -0.5 |
| WSR29 | N/A | 2.5 | 2.5 | 2.8 | 3.1 | 3.4 | 1.7 | 1.4 | 3.1 | 3.5 | 3.1 | 2.7 | 2.6 | 2.0 | 2.0 | 2.4 | 2.8 | 3.6 | 1.9 | 1.6 | 3.3 | 3.2 | 2.8 | 2.3 | 2.2 | -0.5 | -0.5 | -0.4 | -0.3 | 0.2 | 0.2 | 0.2 | 0.2 | -0.2 | -0.3 | -0.4 | -0.5 |
| WSR30 | N/A | 2.2 | 2.2 | 2.5 | 2.8 | 2.6 | 1.1 | 0.8 | 2.3 | 3.0 | 2.7 | 2.4 | 2.3 | 1.9 | 1.9 | 2.3 | 2.7 | 2.8 | 1.2 | 1.0 | 2.5 | 3.0 | 2.6 | 2.2 | 2.0 | -0.3 | -0.3 | -0.3 | -0.1 | 0.2 | 0.1 | 0.1 | 0.3 | -0.1 | -0.1 | -0.2 | -0.3 |
| WSR31 | N/A | 0.9 | 0.9 | 1.0 | 1.2 | 1.4 | 0.8 | 0.6 | 0.9 | 1.1 | 1.0 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 1.2 | 1.4 | 0.8 | 0.6 | 0.9 | 1.1 | 1.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR32 | N/A | 0.8 | 0.8 | 1.0 | 1.1 | 1.3 | 0.7 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.1 | 1.3 | 0.7 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR33 | N/A | 0.7 | 0.7 | 0.8 | 0.9 | 1.2 | 0.7 | 0.5 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.2 | 0.7 | 0.5 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR34 | N/A | 0.7 | 0.7 | 0.8 | 1.0 | 1.2 | 0.7 | 0.5 | 0.8 | 0.9 | 0.8 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 1.0 | 1.2 | 0.7 | 0.5 | 0.8 | 0.9 | 0.8 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR35 | N/A | 0.5 | 0.5 | 0.6 | 0.7 | 0.9 | 0.6 | 0.5 | 0.7 | 0.7 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.9 | 0.6 | 0.5 | 0.7 | 0.7 | 0.5 | 0.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR41 | N/A | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 1.2 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR42 | N/A | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 0.9 | 0.6 | 1.0 | 1.2 | 1.1 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 0.9 | 0.6 | 1.0 | 1.2 | 1.1 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR43 | 10 | 1.8 | 1.7 | 2.1 | 2.4 | 3.1 | 2.0 | 1.7 | 2.6 | 2.4 | 2.2 | 1.8 | 1.7 | 1.4 | 1.4 | 1.6 | 2.0 | 2.7 | 2.0 | 1.7 | 2.1 | 2.1 | 1.8 | 1.4 | 1.3 | -0.4 | -0.4 | -0.4 | -0.4 | -0.4 | 0.0 | 0.0 | -0.4 | -0.4 | -0.4 | -0.4 | -0.4 |
| WSR44 | 10 | 1.1 | 1.1 | 1.3 | 1.5 | 1.6 | 1.1 | 0.8 | 1.1 | 1.4 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.4 | 1.5 | 1.1 | 0.7 | 1.1 | 1.3 | 1.1 | 0.9 | 0.9 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 | -0.1 | -0.1 |
| WSR45 | N/A | 0.8 | 0.8 | 0.9 | 1.0 | 1.3 | 0.9 | 0.7 | 0.9 | 1.0 | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.2 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR46 | N/A | 1.4 | 1.4 | 1.7 | 2.0 | 2.6 | 1.7 | 1.4 | 2.0 | 2.0 | 1.8 | 1.4 | 1.4 | 1.3 | 1.3 | 1.5 | 1.9 | 2.4 | 1.8 | 1.5 | 1.9 | 1.9 | 1.6 | 1.3 | 1.2 | -0.2 | -0.2 | -0.2 | -0.2 | -0.1 | 0.1 | 0.1 | -0.1 | -0.1 | -0.1 | -0.2 | -0.2 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | N/A | 0.9 | 1.0 | 1.1 | 1.3 | 1.5 | 1.1 | 0.8 | 1.1 | 1.3 | 1.1 | 0.9 | 0.8 | 0.9 | 0.9 | 1.0 | 1.2 | 1.5 | 1.1 | 0.8 | 1.1 | 1.2 | 1.0 | 0.8 | 0.8 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 | -0.1 | -0.1 |
| M02 | N/A | 0.8 | 0.9 | 0.9 | 1.1 | 1.3 | 1.0 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.1 | 1.3 | 1.0 | 0.6 | 0.9 | 1.1 | 0.9 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M03 | N/A | 0.7 | 0.8 | 0.8 | 1.0 | 1.2 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.6 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1.1 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M04 | N/A | 0.7 | 0.7 | 0.8 | 0.9 | 1.1 | 0.9 | 0.6 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.1 | 0.9 | 0.6 | 0.8 | 0.9 | 0.7 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M05 | N/A | 0.8 | 0.8 | 0.9 | 1.0 | 1.2 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M06 | N/A | 1.0 | 1.0 | 1.2 | 1.3 | 1.4 | 0.9 | 0.6 | 0.9 | 1.2 | 1.0 | 0.9 | 0.9 | 1.0 | 1.0 | 1.1 | 1.3 | 1.4 | 0.9 | 0.6 | 0.9 | 1.2 | 1.0 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M07 | N/A | 1.1 | 1.2 | 1.3 | 1.4 | 1.4 | 1.0 | 0.6 | 1.0 | 1.2 | 1.1 | 0.9 | 1.0 | 1.1 | 1.1 | 1.2 | 1.4 | 1.3 | 1.0 | 0.6 | 1.0 | 1.2 | 1.1 | 0.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M08 | N/A | 1.1 | 1.1 | 1.2 | 1.4 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.1 | 0.9 | 1.0 | 1.1 | 1.1 | 1.2 | 1.3 | 1.4 | 1.0 | 0.7 | 1.0 | 1.2 | 1.1 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M09 | N/A | 1.1 | 1.1 | 1.2 | 1.4 | 1.5 | 1.0 | 0.7 | 1.0 | 1.3 | 1.1 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.0 | 0.7 | 1.0 | 1.3 | 1.1 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| M10 | N/A | 1.0 | 1.1 | 1.2 | 1.4 | 1.4 | 1.0 | 0.6 | 1.0 | 1.3 | 1.1 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.4 | 1.0 | 0.6 | 1.0 | 1.3 | 1.1 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table A.5 Depth averaged suspended solid of operational phase

| WSR | Criteria (mg/L) | Scenario 01 (Without Project ) | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | Difference (SCN02 - SCN01) (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| WSR01 | + 30% | 7.6 | 7.6 | 7.5 | 7.5 | 10.9 | 13.0 | 11.3 | 8.3 | 5.2 | 6.0 | 6.9 | 7.1 | 7.5 | 7.5 | 7.5 | 7.4 | 10.9 | 14.1 | 12.5 | 8.3 | 5.2 | 6.0 | 6.9 | 7.1 | -0.9 | -0.5 | -0.8 | -0.7 | 0.1 | 9.1 | 10.0 | -1.1 | -0.4 | 0.5 | 0.5 | 0.3 |
| WSR02 | + 30% | 7.7 | 7.7 | 7.6 | 7.6 | 12.6 | 17.5 | 15.7 | 10.0 | 5.3 | 6.1 | 7.0 | 7.2 | 7.6 | 7.6 | 7.5 | 7.5 | 12.9 | 19.0 | 17.2 | 10.2 | 5.2 | 6.1 | 7.0 | 7.2 | -1.0 | -0.7 | -0.9 | -0.9 | 2.5 | 8.7 | 9.6 | 2.2 | -0.6 | 0.3 | 0.3 | 0.1 |
| WSR03 | + 30% | 9.5 | 9.4 | 9.4 | 9.4 | 16.7 | 17.6 | 16.0 | 14.6 | 7.0 | 7.7 | 8.6 | 8.9 | 9.5 | 9.4 | 9.4 | 9.4 | 16.8 | 17.7 | 16.2 | 14.7 | 7.0 | 7.8 | 8.7 | 8.9 | 0.0 | -0.2 | 0.0 | -0.1 | 0.7 | 0.1 | 0.7 | 0.9 | 0.3 | 1.0 | 1.0 | 0.8 |
| WSR04 | + 30% | 6.9 | 7.0 | 6.8 | 6.8 | 8.5 | 8.1 | 6.8 | 5.8 | 4.5 | 5.6 | 6.5 | 6.7 | 6.9 | 7.0 | 6.8 | 6.8 | 8.5 | 8.1 | 6.8 | 5.7 | 4.5 | 5.6 | 6.5 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.0 | -0.2 | -0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR05a | + 30% | 7.1 | 7.2 | 7.1 | 7.1 | 8.8 | 8.3 | 7.1 | 5.9 | 4.7 | 5.9 | 6.8 | 7.0 | 7.1 | 7.2 | 7.1 | 7.1 | 8.8 | 8.3 | 7.1 | 5.9 | 4.6 | 5.9 | 6.8 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR05b | + 30% | 6.5 | 6.6 | 6.5 | 6.5 | 7.9 | 7.7 | 6.5 | 5.3 | 4.2 | 5.3 | 6.2 | 6.4 | 6.5 | 6.6 | 6.5 | 6.5 | 7.9 | 7.7 | 6.5 | 5.3 | 4.2 | 5.3 | 6.2 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.1 | -0.1 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR06 | + 30% | 6.7 | 6.8 | 6.6 | 6.6 | 8.5 | 8.1 | 6.9 | 5.7 | 4.3 | 5.5 | 6.3 | 6.5 | 6.7 | 6.8 | 6.6 | 6.6 | 8.5 | 8.1 | 6.9 | 5.7 | 4.3 | 5.5 | 6.3 | 6.5 | -0.1 | -0.1 | -0.1 | -0.1 | -0.2 | 0.0 | -0.2 | -0.2 | -0.1 | -0.1 | -0.1 | -0.1 |
| WSR07 | 764 | 10.4 | 10.5 | 10.3 | 10.3 | 12.4 | 9.7 | 8.6 | 7.8 | 7.2 | 8.9 | 9.9 | 10.2 | 10.4 | 10.4 | 10.3 | 10.3 | 12.4 | 9.7 | 8.6 | 7.8 | 7.2 | 8.9 | 9.8 | 10.2 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0 | -0.1 | -0.2 | -0.1 | -0.1 | -0.1 | -0.1 |
| WSR10 | + 30% | 9.2 | 9.2 | 9.1 | 9.1 | 11.2 | 9.1 | 8.0 | 7.1 | 6.2 | 7.8 | 8.7 | 9.0 | 9.2 | 9.2 | 9.1 | 9.1 | 11.2 | 9.1 | 7.9 | 7.1 | 6.2 | 7.8 | 8.7 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR11 | 764 | 7.6 | 7.7 | 7.5 | 7.6 | 9.3 | 8.4 | 7.3 | 6.1 | 5.0 | 6.4 | 7.2 | 7.5 | 7.6 | 7.7 | 7.5 | 7.6 | 9.3 | 8.4 | 7.2 | 6.1 | 5.0 | 6.3 | 7.2 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR12 | + 30% | 6.7 | 6.7 | 6.6 | 6.6 | 8.2 | 7.8 | 6.6 | 5.5 | 4.3 | 5.5 | 6.3 | 6.5 | 6.7 | 6.7 | 6.6 | 6.6 | 8.1 | 7.8 | 6.6 | 5.5 | 4.3 | 5.4 | 6.3 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.1 | -0.1 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR13 | 10 | 6.8 | 6.8 | 6.7 | 6.7 | 8.4 | 8.1 | 6.9 | 5.7 | 4.3 | 5.5 | 6.4 | 6.6 | 6.8 | 6.8 | 6.7 | 6.7 | 8.4 | 8.1 | 6.8 | 5.7 | 4.3 | 5.5 | 6.4 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR14 | + 30% | 7.9 | 7.9 | 7.8 | 7.8 | 10.2 | 7.7 | 6.6 | 7.2 | 5.1 | 6.3 | 7.4 | 7.7 | 7.9 | 7.9 | 7.8 | 7.8 | 10.1 | 7.7 | 6.6 | 7.2 | 5.1 | 6.3 | 7.4 | 7.7 | 0.1 | 0.1 | 0.1 | 0.1 | -0.2 | 0.1 | -0.1 | -0.2 | -0.1 | 0.1 | 0.1 | 0.1 |
| WSR15 | + 30% | 7.1 | 7.1 | 7.0 | 7.0 | 8.5 | 7.8 | 6.7 | 5.8 | 4.5 | 5.8 | 6.7 | 6.9 | 7.1 | 7.1 | 7.0 | 7.0 | 8.4 | 7.8 | 6.6 | 5.7 | 4.5 | 5.8 | 6.7 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 | -0.3 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR16 | + 30% | 7.2 | 7.3 | 7.2 | 7.2 | 9.3 | 8.7 | 7.5 | 6.5 | 4.7 | 5.9 | 6.8 | 7.1 | 7.2 | 7.3 | 7.2 | 7.2 | 9.3 | 8.7 | 7.5 | 6.5 | 4.7 | 5.9 | 6.8 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR17 | 10 | 6.3 | 6.4 | 6.3 | 6.3 | 7.8 | 7.7 | 6.5 | 5.3 | 4.0 | 5.2 | 6.0 | 6.2 | 6.3 | 6.4 | 6.3 | 6.3 | 7.7 | 7.7 | 6.5 | 5.3 | 4.0 | 5.2 | 6.0 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.1 | -0.2 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR18 | + 30% | 5.4 | 5.4 | 5.3 | 5.3 | 6.4 | 7.0 | 5.7 | 4.5 | 3.3 | 4.3 | 5.1 | 5.3 | 5.4 | 5.4 | 5.3 | 5.3 | 6.4 | 7.0 | 5.7 | 4.4 | 3.3 | 4.3 | 5.1 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.2 | -0.2 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR19 | + 30% | 4.9 | 5.0 | 4.9 | 4.9 | 5.8 | 6.6 | 5.3 | 4.0 | 3.0 | 3.9 | 4.7 | 4.8 | 4.9 | 5.0 | 4.9 | 4.9 | 5.7 | 6.6 | 5.3 | 4.0 | 3.0 | 3.9 | 4.7 | 4.8 | -0.1 | -0.1 | -0.1 | -0.1 | -0.2 | 0.3 | -0.2 | 0.0 | -0.2 | 0.0 | -0.1 | -0.1 |
| WSR20 | + 30% | 5.4 | 5.5 | 5.4 | 5.4 | 6.4 | 7.0 | 5.7 | 4.5 | 3.3 | 4.4 | 5.1 | 5.3 | 5.4 | 5.5 | 5.4 | 5.4 | 6.4 | 7.0 | 5.7 | 4.5 | 3.3 | 4.4 | 5.1 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.2 | -0.2 | -0.1 | -0.1 | 0.0 | 0.0 | -0.1 |
| WSR21 | 10 | 6.3 | 6.3 | 6.2 | 6.2 | 7.8 | 7.7 | 6.5 | 5.3 | 4.0 | 5.1 | 5.9 | 6.1 | 6.3 | 6.3 | 6.2 | 6.2 | 7.7 | 7.7 | 6.5 | 5.3 | 4.0 | 5.1 | 5.9 | 6.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.2 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | -0.1 | -0.1 |
| WSR22a | + 30% | 7.7 | 7.6 | 7.6 | 7.6 | 10.0 | 9.6 | 8.2 | 7.1 | 5.1 | 6.2 | 7.2 | 7.4 | 7.1 | 7.1 | 7.1 | 7.0 | 9.2 | 9.1 | 7.8 | 6.3 | 4.7 | 5.8 | 6.7 | 6.9 | -7.3 | -6.7 | -7.4 | -7.2 | -8.3 | -5.3 | -5.0 | -10.2 | -7.6 | -7.2 | -7.0 | -7.1 |
| WSR22b | + 30% | 7.8 | 7.7 | 7.7 | 7.7 | 10.0 | 10.1 | 8.6 | 7.6 | 5.3 | 6.2 | 7.2 | 7.6 | 7.3 | 7.3 | 7.2 | 7.2 | 9.1 | 9.2 | 7.8 | 6.7 | 4.9 | 5.8 | 6.8 | 7.1 | -6.5 | -6.4 | -6.4 | -6.5 | -9.4 | -9.7 | -8.9 | -13.0 | -7.5 | -6.3 | -6.2 | -6.3 |
| WSR22c | + 30% | 7.6 | 7.5 | 7.5 | 7.5 | 10.1 | 9.8 | 8.4 | 6.9 | 5.0 | 6.2 | 7.1 | 7.4 | 7.1 | 7.1 | 7.0 | 7.0 | 9.3 | 9.4 | 8.1 | 6.3 | 4.7 | 5.8 | 6.7 | 6.9 | -6.4 | -5.9 | -6.5 | -6.3 | -7.4 | -4.0 | -4.0 | -8.9 | -6.6 | -6.4 | -6.2 | -6.2 |
| WSR23 | 10 | 6.9 | 7.0 | 6.9 | 6.9 | 8.6 | 8.1 | 6.9 | 5.8 | 4.5 | 5.7 | 6.5 | 6.8 | 6.9 | 7.0 | 6.8 | 6.9 | 8.6 | 8.1 | 6.9 | 5.8 | 4.5 | 5.7 | 6.5 | 6.8 | -0.1 | -0.1 | -0.1 | -0.1 | -0.2 | -0.2 | -0.3 | -0.4 | -0.1 | -0.1 | -0.1 | -0.1 |
| WSR25 | + 30% | 7.7 | 7.8 | 7.7 | 7.7 | 9.7 | 8.7 | 7.4 | 6.4 | 5.2 | 6.4 | 7.3 | 7.6 | 7.8 | 7.8 | 7.7 | 7.7 | 9.7 | 8.7 | 7.4 | 6.4 | 5.2 | 6.4 | 7.3 | 7.6 | 0.1 | 0.0 | 0.1 | 0.1 | -0.2 | -0.1 | -0.2 | -0.2 | 0.0 | 0.1 | 0.1 | 0.1 |
| WSR26 | + 30% | 7.9 | 7.9 | 7.8 | 7.8 | 9.9 | 8.7 | 7.5 | 6.5 | 5.3 | 6.6 | 7.5 | 7.7 | 7.9 | 7.9 | 7.8 | 7.8 | 9.9 | 8.7 | 7.5 | 6.5 | 5.3 | 6.6 | 7.5 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.2 | -0.2 | 0.0 | 0.1 | 0.0 | 0.0 |
| WSR27 | + 30% | 13.6 | 13.3 | 13.5 | 13.4 | 15.1 | 13.8 | 11.6 | 10.3 | 5.9 | 6.6 | 7.5 | 7.7 | 13.7 | 13.5 | 13.6 | 13.5 | 15.4 | 14.1 | 11.9 | 10.3 | 5.8 | 6.6 | 7.5 | 7.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.4 | 2.6 | 0.0 | -0.3 | 0.6 | 0.6 | 0.4 |
| WSR28 | + 30% | 9.0 | 8.9 | 8.9 | 8.8 | 11.8 | 10.6 | 9.1 | 9.1 | 5.8 | 6.4 | 7.3 | 7.6 | 8.8 | 8.8 | 8.7 | 8.7 | 11.8 | 10.9 | 9.3 | 9.1 | 5.7 | 6.4 | 7.3 | 7.6 | -1.5 | -1.2 | -1.4 | -1.4 | -0.2 | 2.6 | 2.7 | -0.2 | -1.1 | -0.4 | -0.4 | -0.7 |
| WSR29 | + 30% | 9.0 | 9.0 | 8.9 | 8.9 | 11.0 | 9.7 | 8.3 | 8.4 | 5.8 | 6.4 | 7.3 | 7.6 | 9.0 | 8.9 | 8.9 | 8.8 | 11.1 | 9.9 | 8.5 | 8.5 | 5.8 | 6.4 | 7.3 | 7.5 | -0.7 | -0.7 | -0.7 | -0.7 | 0.5 | 2.0 | 2.0 | 1.2 | -0.7 | 0.0 | 0.0 | -0.3 |
| WSR30 | + 30% | 8.9 | 8.8 | 8.8 | 8.7 | 10.5 | 8.5 | 7.2 | 7.7 | 5.8 | 6.5 | 7.4 | 7.7 | 8.9 | 8.8 | 8.8 | 8.8 | 10.6 | 8.6 | 7.3 | 7.9 | 5.8 | 6.5 | 7.4 | 7.7 | 0.2 | 0.2 | 0.2 | 0.2 | 1.0 | 1.4 | 1.3 | 2.3 | 0.2 | 0.1 | 0.1 | -0.1 |
| WSR31 | + 30% | 8.0 | 7.9 | 7.9 | 7.9 | 10.2 | 8.5 | 7.2 | 6.8 | 5.2 | 6.5 | 7.4 | 7.7 | 8.0 | 7.9 | 7.9 | 7.9 | 10.3 | 8.5 | 7.2 | 6.8 | 5.2 | 6.5 | 7.5 | 7.7 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 |
| WSR32 | + 30% | 7.6 | 7.6 | 7.6 | 7.5 | 9.5 | 7.8 | 6.5 | 6.5 | 4.8 | 6.1 | 7.2 | 7.4 | 7.6 | 7.6 | 7.6 | 7.6 | 9.5 | 7.8 | 6.5 | 6.5 | 4.8 | 6.1 | 7.2 | 7.5 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | -0.1 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 |
| WSR33 | + 30% | 6.6 | 6.6 | 6.5 | 6.5 | 8.8 | 8.1 | 6.8 | 5.9 | 4.2 | 5.4 | 6.2 | 6.4 | 6.6 | 6.6 | 6.5 | 6.5 | 8.8 | 8.2 | 6.8 | 5.9 | 4.2 | 5.4 | 6.2 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR34 | + 30% | 6.5 | 6.6 | 6.5 | 6.5 | 8.7 | 8.1 | 6.8 | 5.8 | 4.1 | 5.3 | 6.2 | 6.4 | 6.5 | 6.6 | 6.5 | 6.5 | 8.7 | 8.1 | 6.8 | 5.8 | 4.1 | 5.3 | 6.2 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.2 | 0.6 | 0.1 | 0.0 | 0.0 | 0.0 |
| WSR35 | + 30% | 5.3 | 5.3 | 5.2 | 5.2 | 7.3 | 7.6 | 6.1 | 4.9 | 3.1 | 4.2 | 5.0 | 5.2 | 5.3 | 5.3 | 5.2 | 5.2 | 7.3 | 7.6 | 6.1 | 4.9 | 3.1 | 4.2 | 5.0 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 0.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR41 | + 30% | 7.6 | 7.6 | 7.5 | 7.5 | 9.4 | 8.5 | 7.3 | 6.2 | 5.0 | 6.2 | 7.1 | 7.4 | 7.6 | 7.6 | 7.5 | 7.5 | 9.4 | 8.5 | 7.3 | 6.2 | 5.0 | 6.2 | 7.1 | 7.4 | 0.1 | 0.0 | 0.1 | 0.0 | -0.2 | 0.0 | -0.2 | -0.2 | 0.0 | 0.1 | 0.1 | 0.1 |
| WSR42 | + 30% | 9.1 | 9.0 | 8.9 | 8.9 | 11.2 | 9.1 | 7.9 | 7.1 | 6.1 | 7.6 | 8.5 | 8.8 | 9.1 | 9.0 | 8.9 | 8.9 | 11.2 | 9.1 | 7.9 | 7.1 | 6.1 | 7.6 | 8.5 | 8.8 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WSR43 | 10 | 7.6 | 7.5 | 7.5 | 7.5 | 10.5 | 10.3 | 8.8 | 7.7 | 5.1 | 6.1 | 7.0 | 7.2 | 7.5 | 7.4 | 7.4 | 7.4 | 10.0 | 10.0 | 8.6 | 7.2 | 5.1 | 6.0 | 6.9 | 7.2 | -1.5 | -1.0 | -1.4 | -1.3 | -4.2 | -3.2 | -2.7 | -6.0 | -0.5 | -0.5 | -0.5 | -0.7 |
| WSR44 | 10 | 7.5 | 7.5 | 7.4 | 7.4 | 9.4 | 8.5 | 7.3 | 6.3 | 5.0 | 6.1 | 7.0 | 7.3 | 7.5 | 7.5 | 7.4 | 7.4 | 9.4 | 8.4 | 7.3 | 6.3 | 5.0 | 6.2 | 7.1 | 7.3 | 0.5 | 0.5 | 0.5 | 0.5 | -0.1 | -0.2 | -0.3 | -0.5 | 0.4 | 0.7 | 0.6 | 0.6 |
| WSR45 | + 30% | 6.6 | 6.6 | 6.5 | 6.5 | 8.1 | 7.9 | 6.7 | 5.5 | 4.2 | 5.4 | 6.2 | 6.4 | 6.6 | 6.6 | 6.5 | 6.5 | 8.1 | 7.9 | 6.7 | 5.5 | 4.2 | 5.4 | 6.2 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| WSR46 | + 30% | 7.6 | 7.5 | 7.5 | 7.5 | 10.1 | 9.6 | 8.2 | 7.1 | 5.0 | 6.1 | 7.0 | 7.3 | 7.5 | 7.5 | 7.4 | 7.4 | 9.9 | 9.6 | 8.2 | 7.0 | 5.1 | 6.1 | 7.0 | 7.2 | -0.8 | -0.8 | -0.6 | -0.8 | -1.9 | -0.3 | 0.2 | -1.7 | 0.8 | -0.6 | -0.6 | -0.7 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | + 30% | 7.0 | 7.1 | 6.9 | 7.0 | 8.6 | 8.1 | 6.9 | 5.9 | 4.6 | 5.8 | 6.6 | 6.8 | 7.0 | 7.1 | 6.9 | 6.9 | 8.6 | 8.2 | 6.9 | 5.9 | 4.6 | 5.8 | 6.6 | 6.8 | -0.1 | -0.2 | -0.1 | -0.1 | 0.2 | 0.6 | 0.5 | 0.0 | -0.1 | 0.0 | 0.0 | -0.1 |
| M02 | + 30% | 7.0 | 7.1 | 7.0 | 7.0 | 8.8 | 8.2 | 7.0 | 5.8 | 4.6 | 5.8 | 6.7 | 6.9 | 7.0 | 7.1 | 7.0 | 7.0 | 8.8 | 8.2 | 7.0 | 5.8 | 4.6 | 5.8 | 6.7 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.2 | -0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| M03 | + 30% | 6.4 | 6.5 | 6.3 | 6.4 | 7.7 | 7.7 | 6.5 | 5.3 | 4.1 | 5.3 | 6.1 | 6.3 | 6.4 | 6.5 | 6.3 | 6.4 | 7.7 | 7.7 | 6.4 | 5.2 | 4.1 | 5.3 | 6.1 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| M04 | + 30% | 6.0 | 6.1 | 5.9 | 5.9 | 7.3 | 7.5 | 6.2 | 5.0 | 3.8 | 4.9 | 5.7 | 5.9 | 6.0 | 6.1 | 5.9 | 5.9 | 7.3 | 7.5 | 6.2 | 5.0 | 3.8 | 4.9 | 5.7 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.1 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| M05 | + 30% | 6.4 | 6.5 | 6.4 | 6.4 | 8.0 | 7.8 | 6.6 | 5.4 | 4.1 | 5.2 | 6.1 | 6.3 | 6.4 | 6.5 | 6.3 | 6.4 | 8.0 | 7.8 | 6.6 | 5.4 | 4.1 | 5.2 | 6.1 | 6.3 | 0.0 | -0.1 | -0.1 | 0.0 | -0.2 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| M06 | + 30% | 8.6 | 8.6 | 8.5 | 8.5 | 10.8 | 9.0 | 7.7 | 6.9 | 5.7 | 7.2 | 8.1 | 8.4 | 8.6 | 8.6 | 8.5 | 8.5 | 10.8 | 9.0 | 7.7 | 6.9 | 5.7 | 7.2 | 8.1 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| M07 | + 30% | 10.0 | 10.0 | 9.9 | 9.9 | 12.1 | 9.4 | 8.3 | 7.4 | 6.8 | 8.5 | 9.5 | 9.8 | 10.0 | 10.0 | 9.9 | 9.9 | 12.1 | 9.4 | 8.3 | 7.4 | 6.8 | 8.5 | 9.5 | 9.8 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| M08 | + 30% | 9.5 | 9.5 | 9.3 | 9.4 | 11.3 | 9.2 | 8.0 | 7.1 | 6.4 | 8.0 | 9.0 | 9.2 | 9.5 | 9.5 | 9.3 | 9.4 | 11.3 | 9.2 | 8.0 | 7.0 | 6.4 | 8.0 | 9.0 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.0 | -0.2 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 |
| M09 | + 30% | 8.9 | 8.9 | 8.8 | 8.8 | 11.1 | 9.0 | 7.9 | 7.0 | 6.0 | 7.4 | 8.4 | 8.7 | 8.9 | 8.9 | 8.8 | 8.8 | 11.0 | 9.0 | 7.9 | 7.0 | 6.0 | 7.4 | 8.4 | 8.7 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| M10 | + 30% | 8.9 | 8.8 | 8.7 | 8.7 | 11.1 | 9.0 | 7.9 | 7.0 | 5.9 | 7.4 | 8.3 | 8.6 | 8.9 | 8.8 | 8.8 | 8.7 | 11.1 | 9.0 | 7.9 | 7.0 | 5.9 | 7.4 | 8.3 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table A.6 Depth averaged total inorganic nitrogen of operational phase

| WSR | Criteria* (mg/L) | Scenario 01 (Without Project ) | | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | | Difference (SCN02 - SCN01) (mg/L) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| WSR01 | 0.5 | 0.27 | 0.28 | 0.22 | 0.16 | 0.17 | 0.44 | 0.42 | 0.26 | 0.18 | 0.15 | 0.19 | 0.23 | 0.25 | 0.34 | 0.34 | 0.28 | 0.20 | 0.18 | 0.42 | 0.40 | 0.28 | 0.21 | 0.19 | 0.25 | 0.30 | 0.28 | 0.06 | 0.06 | 0.06 | 0.04 | 0.02 | -0.01 | -0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.06 |
| WSR02 | 0.5 | 0.28 | 0.29 | 0.22 | 0.16 | 0.20 | 0.54 | 0.51 | 0.28 | 0.18 | 0.16 | 0.20 | 0.24 | 0.27 | 0.34 | 0.35 | 0.28 | 0.20 | 0.22 | 0.53 | 0.50 | 0.31 | 0.21 | 0.19 | 0.25 | 0.30 | 0.31 | 0.07 | 0.06 | 0.06 | 0.04 | 0.02 | 0.00 | -0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.06 |
| WSR03 | 0.5 | 0.32 | 0.32 | 0.27 | 0.25 | 0.25 | 0.35 | 0.32 | 0.14 | 0.17 | 0.21 | 0.22 | 0.27 | 0.26 | 0.38 | 0.39 | 0.32 | 0.25 | 0.25 | 0.30 | 0.27 | 0.14 | 0.19 | 0.21 | 0.25 | 0.32 | 0.27 | 0.07 | 0.07 | 0.04 | 0.00 | -0.01 | -0.05 | -0.05 | 0.00 | 0.01 | 0.00 | 0.04 | 0.06 |
| WSR04 | 0.5 | 0.39 | 0.39 | 0.36 | 0.32 | 0.38 | 0.52 | 0.53 | 0.45 | 0.33 | 0.32 | 0.34 | 0.37 | 0.39 | 0.40 | 0.40 | 0.36 | 0.32 | 0.38 | 0.52 | 0.52 | 0.45 | 0.33 | 0.32 | 0.34 | 0.37 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR05a | 0.5 | 0.40 | 0.40 | 0.36 | 0.33 | 0.38 | 0.56 | 0.56 | 0.45 | 0.34 | 0.32 | 0.34 | 0.37 | 0.40 | 0.40 | 0.40 | 0.36 | 0.33 | 0.38 | 0.55 | 0.56 | 0.45 | 0.34 | 0.32 | 0.34 | 0.37 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR05b | 0.5 | 0.35 | 0.36 | 0.32 | 0.28 | 0.33 | 0.50 | 0.50 | 0.42 | 0.30 | 0.28 | 0.30 | 0.34 | 0.36 | 0.36 | 0.36 | 0.32 | 0.29 | 0.33 | 0.49 | 0.50 | 0.41 | 0.30 | 0.28 | 0.30 | 0.34 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR06 | 0.5 | 0.37 | 0.37 | 0.34 | 0.30 | 0.38 | 0.53 | 0.53 | 0.45 | 0.31 | 0.30 | 0.32 | 0.35 | 0.38 | 0.37 | 0.37 | 0.34 | 0.30 | 0.38 | 0.53 | 0.53 | 0.45 | 0.31 | 0.30 | 0.32 | 0.35 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR07 | N/A | 0.64 | 0.65 | 0.60 | 0.53 | 0.58 | 0.74 | 0.75 | 0.64 | 0.53 | 0.51 | 0.55 | 0.59 | 0.61 | 0.64 | 0.65 | 0.60 | 0.53 | 0.58 | 0.74 | 0.75 | 0.63 | 0.53 | 0.51 | 0.55 | 0.59 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR10 | 0.5 | 0.55 | 0.55 | 0.51 | 0.45 | 0.51 | 0.67 | 0.66 | 0.57 | 0.45 | 0.43 | 0.47 | 0.51 | **0.53** | 0.55 | 0.55 | 0.51 | 0.45 | 0.51 | 0.67 | 0.66 | 0.57 | 0.45 | 0.44 | 0.47 | 0.51 | **0.53** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR11 | N/A | 0.44 | 0.45 | 0.41 | 0.37 | 0.42 | 0.61 | 0.61 | 0.49 | 0.38 | 0.36 | 0.38 | 0.42 | 0.44 | 0.44 | 0.45 | 0.41 | 0.37 | 0.42 | 0.61 | 0.61 | 0.48 | 0.38 | 0.36 | 0.38 | 0.42 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR12 | 0.5 | 0.35 | 0.35 | 0.31 | 0.28 | 0.33 | 0.51 | 0.51 | 0.41 | 0.29 | 0.28 | 0.30 | 0.33 | 0.35 | 0.35 | 0.35 | 0.31 | 0.28 | 0.33 | 0.50 | 0.51 | 0.41 | 0.29 | 0.28 | 0.30 | 0.33 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR13 | 0.5 | 0.35 | 0.35 | 0.31 | 0.28 | 0.33 | 0.51 | 0.51 | 0.41 | 0.29 | 0.28 | 0.30 | 0.33 | 0.35 | 0.35 | 0.35 | 0.31 | 0.28 | 0.33 | 0.51 | 0.51 | 0.40 | 0.29 | 0.28 | 0.30 | 0.33 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR14 | 0.5 | 0.31 | 0.31 | 0.26 | 0.22 | 0.20 | 0.41 | 0.42 | 0.30 | 0.24 | 0.22 | 0.26 | 0.29 | 0.29 | 0.31 | 0.31 | 0.26 | 0.22 | 0.20 | 0.41 | 0.42 | 0.29 | 0.24 | 0.22 | 0.26 | 0.29 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR15 | 0.5 | 0.34 | 0.34 | 0.30 | 0.27 | 0.31 | 0.52 | 0.53 | 0.40 | 0.28 | 0.27 | 0.29 | 0.32 | 0.35 | 0.34 | 0.34 | 0.30 | 0.27 | 0.31 | 0.52 | 0.53 | 0.39 | 0.28 | 0.27 | 0.29 | 0.32 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR16 | 0.5 | 0.34 | 0.34 | 0.31 | 0.27 | 0.30 | 0.52 | 0.53 | 0.39 | 0.28 | 0.27 | 0.29 | 0.32 | 0.35 | 0.34 | 0.34 | 0.31 | 0.27 | 0.30 | 0.52 | 0.53 | 0.39 | 0.28 | 0.27 | 0.29 | 0.33 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR17 | 10 | 0.32 | 0.32 | 0.29 | 0.26 | 0.31 | 0.49 | 0.50 | 0.39 | 0.27 | 0.26 | 0.28 | 0.31 | 0.33 | 0.32 | 0.32 | 0.29 | 0.26 | 0.31 | 0.49 | 0.49 | 0.39 | 0.27 | 0.26 | 0.28 | 0.31 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR18 | 0.5 | 0.25 | 0.24 | 0.21 | 0.20 | 0.23 | 0.36 | 0.37 | 0.30 | 0.21 | 0.20 | 0.21 | 0.24 | 0.25 | 0.25 | 0.24 | 0.21 | 0.20 | 0.23 | 0.36 | 0.36 | 0.30 | 0.21 | 0.20 | 0.21 | 0.24 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR19 | 0.5 | 0.21 | 0.20 | 0.17 | 0.16 | 0.18 | 0.31 | 0.31 | 0.25 | 0.17 | 0.16 | 0.18 | 0.20 | 0.21 | 0.21 | 0.20 | 0.17 | 0.16 | 0.18 | 0.31 | 0.31 | 0.25 | 0.17 | 0.16 | 0.18 | 0.20 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR20 | 0.5 | 0.25 | 0.25 | 0.22 | 0.20 | 0.24 | 0.36 | 0.37 | 0.31 | 0.21 | 0.20 | 0.22 | 0.24 | 0.26 | 0.26 | 0.25 | 0.22 | 0.20 | 0.24 | 0.36 | 0.37 | 0.31 | 0.21 | 0.20 | 0.22 | 0.25 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR21 | 10 | 0.34 | 0.34 | 0.30 | 0.27 | 0.33 | 0.49 | 0.49 | 0.41 | 0.29 | 0.27 | 0.29 | 0.32 | 0.34 | 0.34 | 0.34 | 0.30 | 0.27 | 0.33 | 0.49 | 0.49 | 0.40 | 0.29 | 0.27 | 0.29 | 0.32 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR22a | 0.5 | 0.31 | 0.32 | 0.27 | 0.22 | 0.26 | 0.43 | 0.43 | 0.35 | 0.24 | 0.22 | 0.25 | 0.29 | 0.30 | 0.31 | 0.32 | 0.27 | 0.22 | 0.27 | 0.46 | 0.46 | 0.36 | 0.23 | 0.21 | 0.25 | 0.29 | 0.30 | 0.00 | 0.00 | 0.00 | -0.01 | 0.01 | 0.02 | 0.02 | 0.01 | -0.01 | -0.01 | 0.00 | 0.00 |
| WSR22b | 0.5 | 0.21 | 0.22 | 0.19 | 0.17 | 0.18 | 0.34 | 0.35 | 0.26 | 0.16 | 0.15 | 0.15 | 0.18 | 0.21 | 0.21 | 0.22 | 0.19 | 0.17 | 0.19 | 0.36 | 0.37 | 0.28 | 0.16 | 0.15 | 0.15 | 0.18 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR22c | 0.5 | 0.37 | 0.37 | 0.32 | 0.27 | 0.30 | 0.48 | 0.47 | 0.39 | 0.28 | 0.26 | 0.30 | 0.34 | 0.35 | 0.37 | 0.37 | 0.32 | 0.26 | 0.31 | 0.51 | 0.50 | 0.41 | 0.27 | 0.26 | 0.30 | 0.34 | 0.35 | 0.00 | 0.00 | 0.00 | -0.01 | 0.01 | 0.03 | 0.03 | 0.01 | -0.01 | -0.01 | 0.00 | 0.00 |
| WSR23 | 10 | 0.41 | 0.41 | 0.37 | 0.33 | 0.39 | 0.56 | 0.56 | 0.47 | 0.35 | 0.33 | 0.35 | 0.39 | 0.41 | 0.41 | 0.41 | 0.38 | 0.34 | 0.40 | 0.56 | 0.57 | 0.48 | 0.35 | 0.33 | 0.36 | 0.39 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR25 | 0.5 | 0.45 | 0.45 | 0.41 | 0.36 | 0.42 | 0.58 | 0.58 | 0.50 | 0.37 | 0.35 | 0.38 | 0.42 | 0.44 | 0.45 | 0.45 | 0.41 | 0.37 | 0.43 | 0.58 | 0.57 | 0.50 | 0.38 | 0.36 | 0.39 | 0.42 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR26 | 0.5 | 0.46 | 0.47 | 0.42 | 0.38 | 0.44 | 0.60 | 0.60 | 0.52 | 0.39 | 0.37 | 0.39 | 0.43 | 0.46 | 0.46 | 0.47 | 0.43 | 0.38 | 0.44 | 0.60 | 0.60 | 0.51 | 0.39 | 0.37 | 0.40 | 0.43 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR27 | 0.5 | 0.27 | 0.28 | 0.22 | 0.18 | 0.16 | 0.38 | 0.36 | 0.19 | 0.14 | 0.14 | 0.16 | 0.20 | 0.22 | 0.35 | 0.35 | 0.28 | 0.20 | 0.16 | 0.35 | 0.33 | 0.19 | 0.15 | 0.15 | 0.20 | 0.26 | 0.25 | 0.07 | 0.07 | 0.05 | 0.02 | -0.01 | -0.03 | -0.03 | 0.00 | 0.02 | 0.01 | 0.04 | 0.06 |
| WSR28 | 0.5 | 0.28 | 0.29 | 0.23 | 0.18 | 0.22 | 0.50 | 0.49 | 0.30 | 0.18 | 0.16 | 0.19 | 0.23 | 0.27 | 0.35 | 0.35 | 0.28 | 0.21 | 0.22 | 0.48 | 0.47 | 0.30 | 0.20 | 0.19 | 0.24 | 0.29 | 0.30 | 0.06 | 0.06 | 0.06 | 0.03 | 0.00 | -0.02 | -0.02 | 0.00 | 0.03 | 0.03 | 0.05 | 0.06 |
| WSR29 | 0.5 | 0.26 | 0.27 | 0.21 | 0.16 | 0.21 | 0.51 | 0.50 | 0.29 | 0.15 | 0.13 | 0.16 | 0.20 | 0.25 | 0.32 | 0.33 | 0.26 | 0.18 | 0.20 | 0.49 | 0.48 | 0.27 | 0.16 | 0.15 | 0.20 | 0.25 | 0.27 | 0.06 | 0.06 | 0.05 | 0.02 | -0.01 | -0.02 | -0.02 | -0.01 | 0.02 | 0.02 | 0.04 | 0.06 |
| WSR30 | 0.5 | 0.27 | 0.28 | 0.22 | 0.18 | 0.26 | 0.55 | 0.55 | 0.35 | 0.17 | 0.15 | 0.18 | 0.22 | 0.28 | 0.32 | 0.32 | 0.26 | 0.19 | 0.25 | 0.54 | 0.54 | 0.33 | 0.18 | 0.16 | 0.21 | 0.26 | 0.30 | 0.05 | 0.05 | 0.04 | 0.01 | -0.02 | -0.01 | -0.01 | -0.02 | 0.01 | 0.01 | 0.03 | 0.04 |
| WSR31 | 0.5 | 0.35 | 0.35 | 0.31 | 0.27 | 0.33 | 0.54 | 0.54 | 0.42 | 0.28 | 0.26 | 0.28 | 0.32 | 0.36 | 0.35 | 0.36 | 0.32 | 0.27 | 0.33 | 0.54 | 0.54 | 0.42 | 0.28 | 0.26 | 0.28 | 0.32 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR32 | 0.5 | 0.25 | 0.24 | 0.21 | 0.18 | 0.26 | 0.50 | 0.49 | 0.36 | 0.19 | 0.17 | 0.19 | 0.23 | 0.27 | 0.25 | 0.24 | 0.22 | 0.18 | 0.26 | 0.50 | 0.49 | 0.35 | 0.19 | 0.17 | 0.19 | 0.23 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR33 | 0.5 | 0.27 | 0.27 | 0.24 | 0.20 | 0.30 | 0.52 | 0.51 | 0.39 | 0.22 | 0.19 | 0.22 | 0.25 | 0.30 | 0.27 | 0.27 | 0.24 | 0.20 | 0.30 | 0.52 | 0.51 | 0.39 | 0.22 | 0.19 | 0.22 | 0.25 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR34 | 0.5 | 0.26 | 0.26 | 0.23 | 0.19 | 0.30 | 0.52 | 0.51 | 0.39 | 0.21 | 0.18 | 0.21 | 0.24 | 0.29 | 0.26 | 0.26 | 0.23 | 0.19 | 0.30 | 0.52 | 0.50 | 0.38 | 0.21 | 0.18 | 0.21 | 0.24 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR35 | 0.5 | 0.17 | 0.16 | 0.14 | 0.12 | 0.22 | 0.40 | 0.39 | 0.29 | 0.14 | 0.12 | 0.13 | 0.16 | 0.20 | 0.17 | 0.16 | 0.14 | 0.12 | 0.22 | 0.40 | 0.39 | 0.29 | 0.13 | 0.12 | 0.13 | 0.16 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR41 | 0.5 | 0.43 | 0.44 | 0.40 | 0.35 | 0.41 | 0.57 | 0.57 | 0.49 | 0.36 | 0.35 | 0.37 | 0.41 | 0.43 | 0.44 | 0.44 | 0.40 | 0.36 | 0.41 | 0.57 | 0.56 | 0.48 | 0.37 | 0.35 | 0.38 | 0.41 | 0.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR42 | 0.5 | 0.51 | 0.52 | 0.47 | 0.41 | 0.49 | 0.66 | 0.65 | 0.56 | 0.42 | 0.40 | 0.43 | 0.47 | 0.50 | 0.51 | 0.52 | 0.48 | 0.42 | 0.49 | 0.66 | 0.65 | 0.55 | 0.42 | 0.40 | 0.43 | 0.47 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR43 | 10 | 0.32 | 0.32 | 0.26 | 0.20 | 0.23 | 0.45 | 0.45 | 0.33 | 0.22 | 0.20 | 0.25 | 0.29 | 0.29 | 0.37 | 0.37 | 0.32 | 0.24 | 0.27 | 0.46 | 0.46 | 0.36 | 0.26 | 0.24 | 0.29 | 0.34 | 0.33 | 0.05 | 0.05 | 0.05 | 0.04 | 0.03 | 0.01 | 0.01 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 |
| WSR44 | 10 | 0.41 | 0.41 | 0.37 | 0.32 | 0.39 | 0.58 | 0.57 | 0.47 | 0.33 | 0.31 | 0.34 | 0.38 | 0.41 | 0.43 | 0.43 | 0.38 | 0.33 | 0.40 | 0.58 | 0.57 | 0.48 | 0.34 | 0.32 | 0.36 | 0.40 | 0.42 | 0.02 | 0.01 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.01 |
| WSR45 | 0.5 | 0.36 | 0.36 | 0.33 | 0.29 | 0.35 | 0.51 | 0.51 | 0.43 | 0.31 | 0.29 | 0.31 | 0.34 | 0.37 | 0.37 | 0.36 | 0.33 | 0.30 | 0.35 | 0.51 | 0.51 | 0.43 | 0.31 | 0.29 | 0.31 | 0.35 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSR46 | 0.5 | 0.36 | 0.37 | 0.31 | 0.25 | 0.28 | 0.47 | 0.47 | 0.38 | 0.27 | 0.25 | 0.29 | 0.33 | 0.34 | 0.38 | 0.39 | 0.33 | 0.27 | 0.29 | 0.48 | 0.47 | 0.39 | 0.28 | 0.26 | 0.31 | 0.35 | 0.35 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | 0.5 | 0.40 | 0.40 | 0.36 | 0.32 | 0.35 | 0.51 | 0.51 | 0.44 | 0.33 | 0.31 | 0.34 | 0.37 | 0.39 | 0.40 | 0.40 | 0.36 | 0.32 | 0.36 | 0.51 | 0.51 | 0.44 | 0.33 | 0.32 | 0.34 | 0.38 | 0.39 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 |
| M02 | 0.5 | 0.39 | 0.40 | 0.36 | 0.32 | 0.38 | 0.55 | 0.55 | 0.46 | 0.33 | 0.31 | 0.34 | 0.37 | 0.40 | 0.40 | 0.40 | 0.36 | 0.32 | 0.38 | 0.54 | 0.54 | 0.45 | 0.33 | 0.32 | 0.34 | 0.37 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M03 | 0.5 | 0.34 | 0.34 | 0.31 | 0.28 | 0.31 | 0.46 | 0.46 | 0.39 | 0.29 | 0.27 | 0.29 | 0.32 | 0.34 | 0.34 | 0.34 | 0.31 | 0.28 | 0.31 | 0.46 | 0.46 | 0.39 | 0.29 | 0.27 | 0.29 | 0.33 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M04 | 0.5 | 0.31 | 0.31 | 0.27 | 0.25 | 0.29 | 0.44 | 0.44 | 0.37 | 0.26 | 0.25 | 0.27 | 0.29 | 0.31 | 0.31 | 0.31 | 0.28 | 0.25 | 0.29 | 0.43 | 0.44 | 0.37 | 0.26 | 0.25 | 0.27 | 0.30 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M05 | 0.5 | 0.35 | 0.35 | 0.31 | 0.28 | 0.33 | 0.49 | 0.49 | 0.41 | 0.29 | 0.28 | 0.30 | 0.33 | 0.35 | 0.35 | 0.35 | 0.32 | 0.28 | 0.33 | 0.49 | 0.49 | 0.41 | 0.30 | 0.28 | 0.30 | 0.33 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M06 | 0.5 | 0.46 | 0.47 | 0.43 | 0.37 | 0.45 | 0.64 | 0.63 | 0.53 | 0.38 | 0.36 | 0.39 | 0.43 | 0.46 | 0.47 | 0.47 | 0.43 | 0.37 | 0.45 | 0.64 | 0.63 | 0.52 | 0.38 | 0.36 | 0.39 | 0.43 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M07 | 0.5 | 0.61 | 0.62 | 0.58 | 0.51 | 0.58 | 0.73 | 0.71 | 0.62 | 0.51 | 0.49 | 0.52 | 0.57 | **0.59** | 0.61 | 0.62 | 0.58 | 0.51 | 0.58 | 0.72 | 0.71 | 0.62 | 0.51 | 0.49 | 0.52 | 0.57 | **0.59** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M08 | 0.5 | 0.58 | 0.59 | 0.54 | 0.48 | 0.53 | 0.68 | 0.67 | 0.58 | 0.49 | 0.47 | 0.50 | 0.54 | **0.55** | 0.58 | 0.59 | 0.54 | 0.48 | 0.53 | 0.68 | 0.67 | 0.58 | 0.49 | 0.47 | 0.50 | 0.54 | **0.55** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M09 | 0.5 | 0.53 | 0.54 | 0.49 | 0.44 | 0.52 | 0.68 | 0.67 | 0.58 | 0.44 | 0.42 | 0.45 | 0.49 | **0.52** | 0.53 | 0.54 | 0.50 | 0.44 | 0.52 | 0.68 | 0.67 | 0.58 | 0.44 | 0.42 | 0.45 | 0.49 | **0.52** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| M10 | 0.5 | 0.51 | 0.52 | 0.47 | 0.41 | 0.50 | 0.67 | 0.66 | 0.56 | 0.42 | 0.40 | 0.43 | 0.47 | **0.50** | 0.51 | 0.52 | 0.48 | 0.42 | 0.50 | 0.67 | 0.66 | 0.56 | 0.42 | 0.40 | 0.43 | 0.47 | **0.50** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

* Annual mean depth-averaged inorganic nitrogen not to exceed the criteria;

Table A.7 Depth averaged unionised ammonia of operational phase

| WSR | Criteria* (mg/L) | Scenario 01 (Without Project ) | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | Difference (SCN02 - SCN01) (mg/L) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| WSR01 | 0.021 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.004 | 0.004 | 0.003 | 0.003 | 0.004 | 0.007 | 0.006 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| WSR02 | 0.021 | 0.003 | 0.003 | 0.003 | 0.004 | 0.007 | 0.014 | 0.013 | 0.008 | 0.005 | 0.005 | 0.004 | 0.003 | 0.004 | 0.004 | 0.003 | 0.004 | 0.007 | 0.015 | 0.014 | 0.008 | 0.005 | 0.005 | 0.004 | 0.004 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| WSR03 | 0.021 | 0.005 | 0.005 | 0.006 | 0.011 | 0.014 | 0.007 | 0.007 | 0.005 | 0.009 | 0.011 | 0.008 | 0.006 | 0.006 | 0.007 | 0.006 | 0.009 | 0.012 | 0.006 | 0.006 | 0.005 | 0.008 | 0.010 | 0.007 | 0.006 | 0.001 | 0.001 | 0.000 | -0.002 | -0.001 | -0.001 | -0.001 | 0.000 | -0.001 | -0.002 | -0.001 | 0.000 |
| WSR04 | 0.021 | 0.008 | 0.008 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.010 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.010 | 0.009 | 0.009 | 0.009 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR05a | 0.021 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR05b | 0.021 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.007 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR06 | 0.021 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR07 | N/A | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.010 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.010 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR10 | 0.021 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR11 | N/A | 0.008 | 0.008 | 0.007 | 0.007 | 0.008 | 0.009 | 0.010 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR12 | 0.021 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR13 | 0.021 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR14 | 0.021 | 0.005 | 0.005 | 0.004 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.006 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR15 | 0.021 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.007 | 0.008 | 0.007 | 0.007 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.007 | 0.008 | 0.007 | 0.007 | 0.006 | 0.007 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR16 | 0.021 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.008 | 0.009 | 0.008 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.008 | 0.009 | 0.008 | 0.007 | 0.007 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR17 | 1 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR18 | 0.021 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR19 | 0.021 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.006 | 0.005 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.006 | 0.005 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR20 | 0.021 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR21 | 1 | 0.007 | 0.007 | 0.006 | 0.007 | 0.007 | 0.008 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.007 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR22a | 0.021 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR22b | 0.021 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR22c | 0.021 | 0.005 | 0.006 | 0.005 | 0.005 | 0.005 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.006 | 0.004 | 0.004 | 0.005 | 0.007 | 0.007 | 0.006 | 0.005 | 0.005 | 0.006 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR23 | 1 | 0.008 | 0.009 | 0.008 | 0.008 | 0.009 | 0.011 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.008 | 0.009 | 0.009 | 0.011 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR25 | 0.021 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR26 | 0.021 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR27 | 0.021 | 0.003 | 0.003 | 0.003 | 0.005 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.004 | 0.003 | 0.004 | 0.005 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.003 | 0.001 | 0.001 | 0.000 | -0.001 | -0.001 | 0.000 | 0.000 | 0.000 | 0.000 | -0.001 | 0.000 | 0.000 |
| WSR28 | 0.021 | 0.003 | 0.003 | 0.003 | 0.004 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.004 | 0.004 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 | 0.004 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| WSR29 | 0.021 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR30 | 0.021 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.006 | 0.005 | 0.005 | 0.004 | 0.003 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR31 | 0.021 | 0.004 | 0.005 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.005 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR32 | 0.021 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR33 | 0.021 | 0.003 | 0.004 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR34 | 0.021 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR35 | 0.021 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR41 | 0.021 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.009 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR42 | 0.021 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR43 | 1 | 0.003 | 0.004 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.004 | 0.004 | 0.005 | 0.005 | 0.004 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 |
| WSR44 | 1 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.008 | 0.008 | 0.007 | 0.007 | 0.008 | 0.007 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| WSR45 | 0.021 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WSR46 | 0.021 | 0.005 | 0.005 | 0.004 | 0.004 | 0.006 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.006 | 0.005 | 0.004 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.006 | 0.006 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | 0.021 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.009 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M02 | 0.021 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M03 | 0.021 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M04 | 0.021 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M05 | 0.021 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M06 | 0.021 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M07 | 0.021 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M08 | 0.021 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.009 | 0.009 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M09 | 0.021 | 0.008 | 0.008 | 0.008 | 0.007 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.008 | 0.008 | 0.008 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| M10 | 0.021 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

* Annual mean depth-averaged unionised ammonia not to exceed the criteria

Table A.8 Depth averaged E.coli of operational phase

| WSR | Criteria (count/100mL) | Scenario 01 (Without Project ) | | | | | | | | | | | | | Scenario 02 (With Project ) | | | | | | | | | | | | | Difference (SCN02 - SCN01) (mg/L) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Geo.Mean (Annual / Bathing Season) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Geo.Mean (Annual / Bathing Season) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| WSR01 | N/A | 62 | 70 | 53 | 40 | 52 | 529 | 378 | 44 | 31 | 33 | 39 | 54 | - | 53 | 57 | 47 | 35 | 55 | 803 | 567 | 49 | 28 | 30 | 35 | 45 | - | -9 | -13 | -7 | -5 | 3 | 274 | 189 | 5 | -3 | -3 | -5 | -8 |
| WSR02 | N/A | 122 | 140 | 101 | 82 | 186 | 2188 | 1604 | 167 | 67 | 70 | 83 | 106 | - | 103 | 111 | 91 | 72 | 236 | 2929 | 2180 | 219 | 61 | 62 | 72 | 91 | - | -19 | -29 | -10 | -10 | 49 | 741 | 577 | 52 | -6 | -8 | -11 | -15 |
| WSR03 | N/A | 3783 | 3940 | 2884 | 1695 | 1356 | 1438 | 1134 | 1090 | 1174 | 1392 | 2284 | 3314 | - | 3701 | 3908 | 2827 | 1708 | 1051 | 1095 | 862 | 826 | 1186 | 1399 | 2281 | 3288 | - | -83 | -32 | -57 | 13 | -305 | -343 | -272 | -265 | 11 | 7 | -3 | -26 |
| WSR04 | N/A | 44 | 46 | 42 | 32 | 15 | 12 | 11 | 13 | 20 | 21 | 26 | 36 | - | 44 | 46 | 42 | 32 | 15 | 12 | 11 | 13 | 20 | 21 | 26 | 36 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR05a | N/A | 44 | 48 | 41 | 30 | 23 | 26 | 22 | 19 | 17 | 18 | 23 | 34 | - | 44 | 48 | 41 | 30 | 23 | 26 | 22 | 19 | 17 | 18 | 23 | 34 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR05b | N/A | 62 | 70 | 57 | 40 | 27 | 26 | 21 | 21 | 20 | 21 | 30 | 48 | - | 62 | 70 | 57 | 40 | 27 | 25 | 20 | 21 | 20 | 21 | 30 | 47 | - | 0 | 0 | 0 | 0 | -1 | -1 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR06 | N/A | 27 | 30 | 25 | 18 | 18 | 14 | 12 | 15 | 11 | 11 | 15 | 21 | - | 27 | 30 | 25 | 18 | 19 | 14 | 12 | 15 | 11 | 11 | 15 | 21 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR07 | N/A | 225 | 243 | 203 | 147 | 114 | 102 | 86 | 90 | 95 | 103 | 131 | 183 | - | 224 | 242 | 203 | 147 | 113 | 102 | 87 | 89 | 94 | 102 | 130 | 182 | - | -1 | 0 | -1 | 0 | -1 | 0 | 0 | -1 | -1 | -1 | -1 | -1 |
| WSR10 | N/A | 41 | 46 | 36 | 23 | 12 | 8 | 6 | 9 | 11 | 13 | 18 | 30 | - | 42 | 47 | 36 | 23 | 12 | 8 | 7 | 9 | 12 | 13 | 19 | 31 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR11 | N/A | 44 | 50 | 41 | 30 | 20 | 24 | 20 | 16 | 16 | 17 | 23 | 34 | - | 45 | 50 | 41 | 30 | 20 | 24 | 20 | 16 | 16 | 17 | 23 | 35 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR12 | 180 [1] | 196 | 210 | 182 | 141 | 65 | 59 | 50 | 54 | 86 | 88 | 117 | 161 | 82 | 196 | 211 | 182 | 142 | 65 | 58 | 50 | 54 | 86 | 89 | 117 | 161 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR13 | 20000 | 306 | 313 | 291 | 240 | 136 | 104 | 93 | 120 | 167 | 169 | 206 | 260 | - | 307 | 313 | 291 | 240 | 135 | 103 | 92 | 120 | 167 | 169 | 206 | 260 | - | 0 | 0 | 0 | 0 | -1 | -1 | -1 | 0 | 0 | 0 | 0 | 0 |
| WSR14 | N/A | 324 | 338 | 302 | 204 | 81 | 204 | 164 | 61 | 111 | 115 | 157 | 247 | - | 325 | 338 | 302 | 204 | 81 | 203 | 163 | 61 | 111 | 115 | 157 | 247 | - | 0 | 0 | 0 | 0 | 0 | -1 | -1 | 0 | 0 | 0 | 0 | 0 |
| WSR15 | 180 [1] | 307 | 341 | 290 | 228 | 107 | 245 | 201 | 89 | 140 | 143 | 185 | 257 | 168 | 307 | 340 | 289 | 227 | 107 | 253 | 206 | 90 | 140 | 142 | 185 | 256 | 169 | -1 | -1 | -1 | -1 | 0 | 8 | 5 | 1 | 0 | -1 | -1 | -1 |
| WSR16 | 610 [2] | 1035 | 1149 | 956 | 738 | 289 | 612 | 498 | 238 | 453 | 467 | 610 | 855 | 594 | 1039 | 1152 | 960 | 739 | 292 | 622 | 506 | 240 | 454 | 468 | 610 | 859 | 598 | 4 | 3 | 3 | 1 | 2 | 11 | 7 | 2 | 1 | 1 | 0 | 4 |
| WSR17 | 20000 | 91 | 98 | 86 | 70 | 48 | 43 | 38 | 41 | 46 | 47 | 59 | 78 | - | 91 | 99 | 86 | 70 | 48 | 43 | 37 | 42 | 46 | 47 | 59 | 78 | - | 0 | 0 | 0 | 0 | 0 | -1 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR18 | 180 [1] | 55 | 58 | 54 | 46 | 32 | 31 | 29 | 29 | 34 | 33 | 38 | 47 | 35 | 55 | 58 | 54 | 46 | 32 | 31 | 29 | 29 | 34 | 34 | 38 | 47 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR19 | 180 [1] | 11 | 13 | 11 | 8 | 8 | 9 | 8 | 6 | 4 | 4 | 6 | 8 | 7 | 11 | 13 | 11 | 8 | 7 | 9 | 8 | 6 | 4 | 4 | 6 | 8 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR20 | 610 [2] | 23 | 25 | 22 | 17 | 13 | 12 | 11 | 12 | 10 | 10 | 12 | 18 | 15 | 23 | 25 | 22 | 17 | 13 | 12 | 11 | 12 | 10 | 10 | 12 | 18 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR21 | 20000 | 32 | 34 | 30 | 24 | 22 | 26 | 24 | 20 | 16 | 16 | 19 | 26 | - | 32 | 34 | 30 | 24 | 23 | 27 | 25 | 20 | 16 | 16 | 19 | 26 | - | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| WSR22a | N/A | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | - | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | - | -1 | -1 | -1 | -1 | -1 | 0 | 0 | 0 | -1 | -1 | -1 | -1 |
| WSR22b | N/A | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR22c | N/A | 6 | 6 | 5 | 4 | 3 | 3 | 2 | 3 | 4 | 4 | 4 | 5 | - | 4 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | - | -2 | -2 | -2 | -1 | -1 | 0 | 0 | -1 | -1 | -1 | -1 | -2 |
| WSR23 | 20000 | 23 | 25 | 21 | 15 | 7 | 6 | 6 | 6 | 9 | 9 | 12 | 18 | - | 23 | 25 | 22 | 16 | 7 | 7 | 6 | 6 | 9 | 9 | 12 | 18 | - | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR25 | 610 [2] | 28 | 31 | 25 | 18 | 8 | 6 | 5 | 7 | 10 | 10 | 14 | 22 | 13 | 28 | 31 | 25 | 18 | 8 | 6 | 5 | 7 | 10 | 10 | 14 | 22 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR26 | 610 [2] | 30 | 33 | 27 | 19 | 9 | 7 | 6 | 7 | 10 | 11 | 15 | 23 | 14 | 30 | 33 | 27 | 19 | 9 | 7 | 6 | 7 | 10 | 11 | 15 | 23 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR27 | N/A | 972 | 1052 | 724 | 340 | 241 | 168 | 124 | 145 | 123 | 157 | 320 | 600 | - | 931 | 1018 | 699 | 338 | 236 | 142 | 104 | 137 | 120 | 152 | 306 | 569 | - | -41 | -34 | -25 | -2 | -5 | -25 | -20 | -8 | -3 | -6 | -14 | -31 |
| WSR28 | N/A | 342 | 384 | 270 | 130 | 66 | 41 | 33 | 43 | 51 | 62 | 117 | 229 | - | 339 | 387 | 270 | 135 | 66 | 39 | 32 | 43 | 52 | 63 | 117 | 228 | - | -3 | 2 | 0 | 5 | 0 | -2 | -1 | 0 | 1 | 1 | 0 | -1 |
| WSR29 | N/A | 215 | 243 | 164 | 73 | 26 | 19 | 15 | 17 | 25 | 32 | 63 | 134 | - | 197 | 226 | 152 | 69 | 24 | 17 | 13 | 16 | 24 | 29 | 58 | 122 | - | -18 | -17 | -13 | -4 | -2 | -2 | -1 | -1 | -2 | -3 | -6 | -13 |
| WSR30 | N/A | 92 | 104 | 70 | 29 | 10 | 10 | 8 | 7 | 10 | 12 | 24 | 55 | - | 85 | 97 | 64 | 27 | 9 | 9 | 8 | 6 | 9 | 11 | 21 | 49 | - | -8 | -7 | -5 | -2 | -1 | 0 | 0 | -1 | -1 | -1 | -3 | -6 |
| WSR31 | 610 [2] | 21 | 23 | 20 | 16 | 9 | 12 | 11 | 8 | 10 | 11 | 13 | 18 | 14 | 21 | 23 | 20 | 15 | 10 | 12 | 10 | 8 | 10 | 10 | 13 | 18 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR32 | 610 [2] | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR33 | 610 [2] | 14 | 15 | 14 | 12 | 8 | 7 | 7 | 8 | 9 | 10 | 11 | 13 | 10 | 14 | 15 | 13 | 12 | 8 | 7 | 6 | 8 | 9 | 10 | 11 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR34 | 610 [2] | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR35 | N/A | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | - | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR41 | N/A | 35 | 39 | 33 | 24 | 10 | 7 | 6 | 8 | 14 | 15 | 20 | 29 | - | 35 | 39 | 33 | 24 | 10 | 7 | 6 | 8 | 14 | 15 | 20 | 29 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR42 | N/A | 20 | 23 | 17 | 10 | 7 | 6 | 5 | 6 | 5 | 6 | 8 | 14 | - | 20 | 23 | 17 | 10 | 7 | 6 | 5 | 6 | 5 | 6 | 9 | 14 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR43 | 20000 | 11 | 12 | 10 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 10 | 11 | 9 | 7 | 6 | 8 | 7 | 6 | 6 | 6 | 7 | 8 | - | -1 | -2 | -1 | -1 | -1 | 0 | 0 | -1 | -1 | -1 | -1 | -1 |
| WSR44 | 20000 | 12 | 13 | 11 | 7 | 4 | 5 | 4 | 4 | 4 | 4 | 5 | 9 | - | 12 | 14 | 11 | 7 | 4 | 5 | 4 | 4 | 4 | 4 | 6 | 9 | - | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| WSR45 | N/A | 24 | 26 | 22 | 17 | 9 | 9 | 8 | 8 | 9 | 9 | 12 | 18 | - | 24 | 26 | 23 | 17 | 10 | 10 | 9 | 8 | 10 | 10 | 13 | 19 | - | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSR46 | N/A | 7 | 8 | 6 | 5 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 6 | - | 7 | 8 | 7 | 6 | 4 | 5 | 5 | 4 | 4 | 4 | 5 | 6 | - | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 0 |
| **Observation Point** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M01 | N/A | 23 | 25 | 21 | 15 | 5 | 5 | 5 | 4 | 9 | 9 | 12 | 18 | - | 24 | 26 | 22 | 16 | 6 | 6 | 5 | 5 | 9 | 9 | 13 | 19 | - | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| M02 | N/A | 29 | 33 | 27 | 20 | 15 | 14 | 12 | 12 | 11 | 12 | 15 | 23 | - | 30 | 33 | 27 | 20 | 15 | 14 | 12 | 12 | 11 | 12 | 15 | 23 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M03 | N/A | 26 | 29 | 25 | 19 | 12 | 12 | 11 | 10 | 11 | 11 | 14 | 21 | - | 26 | 29 | 25 | 19 | 12 | 12 | 11 | 10 | 11 | 11 | 14 | 21 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M04 | N/A | 23 | 25 | 22 | 17 | 11 | 12 | 11 | 10 | 10 | 10 | 13 | 18 | - | 23 | 25 | 22 | 17 | 11 | 12 | 11 | 10 | 10 | 10 | 13 | 18 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M05 | N/A | 22 | 24 | 21 | 16 | 10 | 11 | 10 | 8 | 9 | 9 | 12 | 17 | - | 23 | 25 | 22 | 16 | 10 | 12 | 10 | 9 | 9 | 9 | 12 | 18 | - | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M06 | N/A | 11 | 12 | 9 | 5 | 5 | 4 | 4 | 4 | 3 | 3 | 4 | 7 | - | 11 | 12 | 9 | 5 | 5 | 4 | 4 | 4 | 3 | 3 | 4 | 7 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M07 | N/A | 56 | 64 | 49 | 32 | 18 | 13 | 10 | 14 | 18 | 19 | 27 | 43 | - | 56 | 64 | 49 | 32 | 18 | 13 | 10 | 14 | 18 | 19 | 27 | 43 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M08 | N/A | 66 | 74 | 59 | 41 | 20 | 14 | 12 | 16 | 23 | 25 | 34 | 51 | - | 66 | 74 | 59 | 41 | 20 | 14 | 12 | 16 | 23 | 25 | 34 | 51 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M09 | N/A | 36 | 40 | 31 | 19 | 13 | 9 | 7 | 9 | 9 | 10 | 15 | 26 | - | 36 | 40 | 31 | 19 | 13 | 9 | 7 | 9 | 9 | 10 | 15 | 26 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M10 | N/A | 23 | 26 | 20 | 11 | 9 | 7 | 6 | 6 | 6 | 7 | 9 | 16 | - | 23 | 26 | 20 | 11 | 9 | 7 | 6 | 6 | 6 | 7 | 9 | 16 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

[1]: Geometric mean for Mar to Oct

[2]: Annual geometric mean