

**Report Date:** 06-02-2021

**Week:** 05-2021

**Number:** 037

**Period:** 30-01-2021 to 5-02-2021

|                                                                        |                                                                                              |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu | Document number : 462.10062-WQR-37                                                           |
| Contract number : AGR(471)-PIDS2/PRIV/2019/194                         | Contractor : Boskalis Westminster Contracting Ltd                                            |
| Project number [MIAS] : 462.10042                                      | Client : Ministry of National Planning and Infrastructure                                    |
|                                                                        | Attention : <a href="mailto:shaana.farooq@planning.gov.mv">shaana.farooq@planning.gov.mv</a> |

| NTU - TSS Relationship | Correlation coefficient (NTU:TSS) | Monitoring equipment | TSS limit (mg/L) | Converted limit NTU | Limit applicability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|-----------------------------------|----------------------|------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | 1.92                              | Eureka Manta         | 10               | 5.2                 | Maintain a threshold level for turbidity at all reefs within the atoll lagoon in proximity to the dredging site, measured as Total Suspended Solids (TSS) to a maximum of 10 mg/L not exceeding 20% of the measurements. Exceptions shall be made where background rates exceeded the threshold level and in reefs where extensive reclamation work has been undertaken (including e.g. Thilafushi, Gulhifalhu, Villigili, Malé, Hulhumalé). Considerations also shall be made to account for naturally elevated levels of turbidity which may occur during storm events or bad weather. |

| Activities | Activities and other observations                                                                                                                    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Daily in situ seawater quality measurements and sampling performed.<br>No unexpected values or exceedances.<br>Revetment installation works ongoing. |

| Mitigation | Corrective actions taken if necessary |
|------------|---------------------------------------|
|            |                                       |

| Measurements | Measurements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | Measurements are taken using a Eureka Manta Multiparameter probe.<br>The EIA requires measurements and water sample at the surface, at approximately 1 meter depth.<br>For completeness, two additional depths are measured; 'bottom' and 'mid-water'.<br>The 'bottom' measurement is taken at either:<br>The maximum depth the probe will go to on a 30m cable (dependent on currents), or<br>90% of the water column if water depth is < 30m<br>The 'mid-water' measurement is taken at approximately 0.5 * the 'bottom' depth<br>Eureka Manta Turbidity sensor has an accuracy of 2% of reading or 0.2 (https://www.waterprobes.com/water-quality-sensor-specifications).<br>Therefore, negative readings of up until -0.2 NTU indicate no turbidity. |

| Calibration | Calibration                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Eureka Manta Multiparameter probe<br>S/N: MT12183556 Calibration Date: 09/01/2021 Status: Used for measurements<br>S/N: MT12183554 Calibration Date: N/A Status: Spare |

Locations

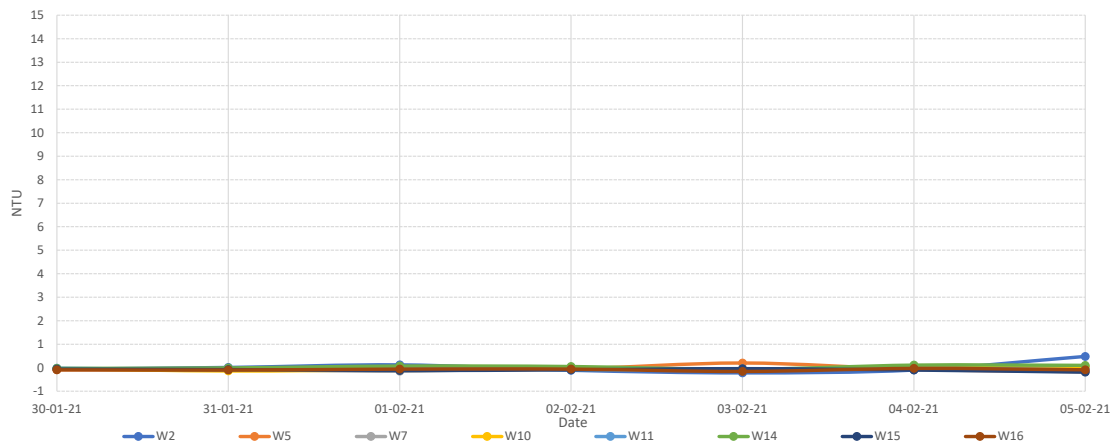
| Location ID | Description |
|-------------|-------------|
| W2          | Reclamation |
| W5          |             |
| W7          |             |
| W10         |             |
| W11         |             |
| W14         |             |
| W15         | Villigili   |
| W16         | Reclamation |
| W19         | Background  |
| W20         | Borrow area |
| W25         |             |
| W26         |             |
| W27         | Background  |
| W36         | Borrow area |
| W45         |             |
| W46         |             |
| W47         |             |
| W51         |             |


**Signed by Contractor**
**Signed by Client**

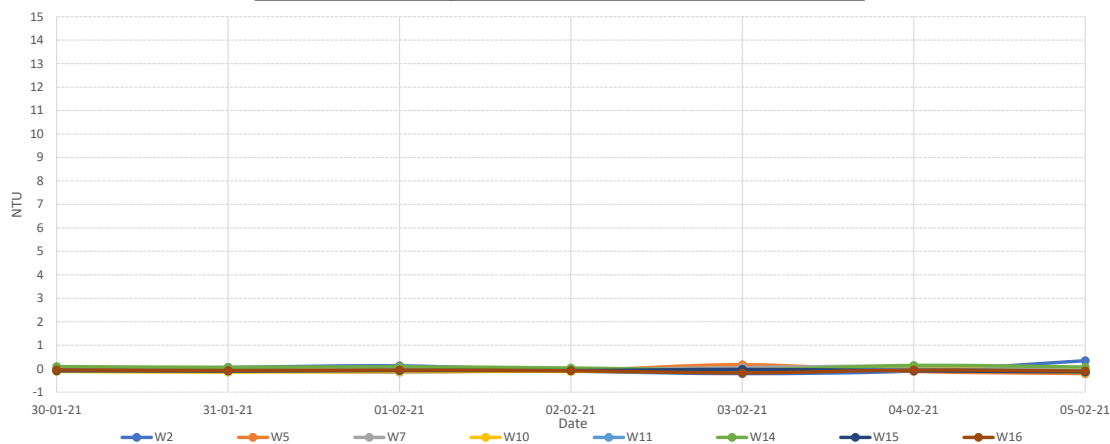
Report Date: 06-02-2021      Week: 05-2021      Period: 30-01-2021 to 05-02-2021

|                       |                                                                |                 |                                                                                    |
|-----------------------|----------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------|
| Project               | : Dredging, Land Reclamation and Revetment Works at Gulhifalhu | Document number | : 462.10062-WQR-37.2                                                               |
| Contract number       | : AGR(471)-PIDS2/PRIV/2019/194                                 | Contractor      | : Boskalis Westminster Contracting Ltd                                             |
| Project number [MIAS] | : 462.10042                                                    | Client          | : Ministry of National Planning and Infrastructure                                 |
|                       |                                                                | Attention       | : <a href="mailto:shaana.farooq@planning.gov.mv">shaana.farooq@planning.gov.mv</a> |

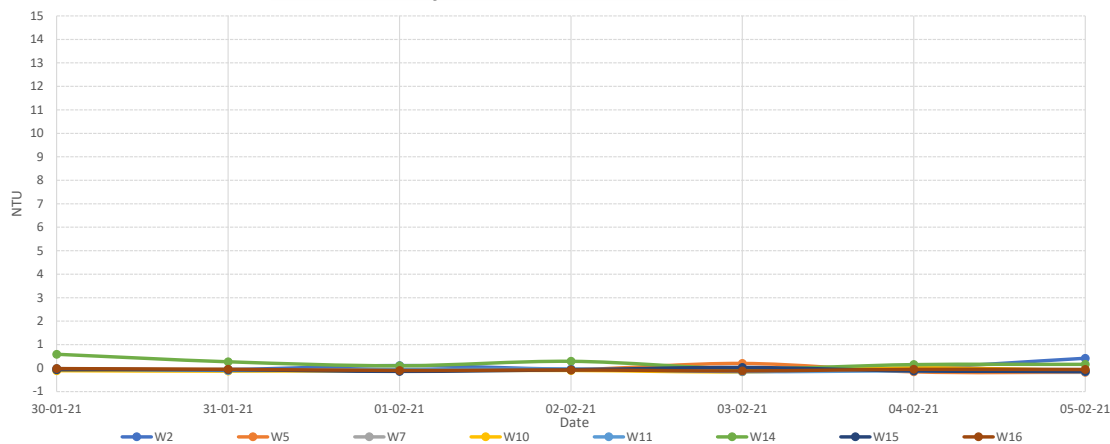
### Surface Turbidity Measurements at the Reclamation Area



### Mid Water Turbidity Measurements at the Reclamation Area



### Bottom Turbidity Measurements at the Reclamation Area





# WATER QUALITY REPORT

Dredging, Land Reclamation and Revetment Works at Gulhifalhu



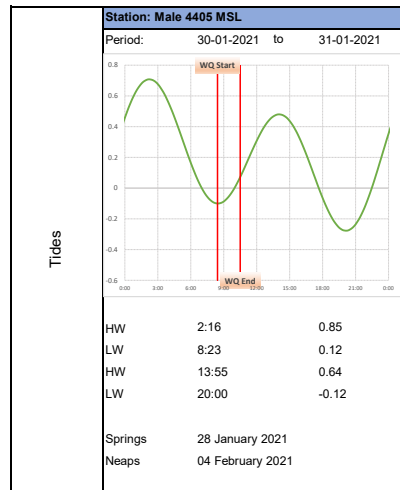
Date: 30-01-2021

Time: 8:26 to 10:30

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu □ Document number : 462.10062-WQR-37.4  
Contract number : AGR(471)-PIDS2/PRIV/2019/194 Contractor : Boskalis Westminster Contracting Ltd  
Project number [MIAS] : 462.10042 Client : Ministry of National Planning and Infrastructure  
Attention : shaana.farooq@planning.gov.mv

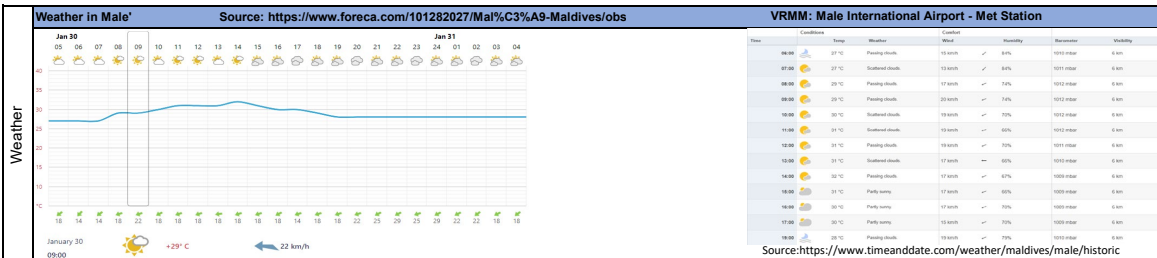
| Location | Section   | Depth (m) | Temperature (°C) | pH  | Conductivity (uS/cm) | Turbidity (NTU) |
|----------|-----------|-----------|------------------|-----|----------------------|-----------------|
| W2       | Surface   | 1         | 28.4             | 7.4 | 54151                | -0.06           |
|          | Mid-water | 10        | 28.3             | 7.3 | 54094                | -0.05           |
|          | Bottom    | 24        | 28.3             | 7.4 | 54071                | -0.05           |
| W5       | Surface   | 1         | 28.3             | 5.7 | 54102                | -0.09           |
|          | Mid-water | 10        | 28.3             | 5.8 | 54067                | -0.09           |
|          | Bottom    | 21        | 28.3             | 6.0 | 54046                | -0.08           |
| W7       | Surface   | 1         | 28.3             | 6.0 | 54259                | -0.05           |
|          | Mid-water | 11        | 28.2             | 5.8 | 54284                | -0.03           |
|          | Bottom    | 24        | 28.3             | 5.8 | 54238                | -0.07           |
| W10      | Surface   | 1         | 28.4             | 6.4 | 54158                | -0.04           |
|          | Mid-water | 10        | 28.3             | 6.4 | 54296                | -0.12           |
|          | Bottom    | 21        | 28.3             | 6.4 | 54318                | -0.11           |
| W11      | Surface   | 1         | 28.4             | 6.9 | 54088                | -0.02           |
|          | Mid-water | 10        | 28.4             | 6.9 | 54071                | -0.02           |
|          | Bottom    | 21        | 28.4             | 6.9 | 54064                | -0.02           |
| W14      | Surface   | 1         | 28.4             | 7.4 | 53437                | -0.03           |
|          | Mid-water | 8         | 28.4             | 7.4 | 53478                | 0.09            |
|          | Bottom    | 14        | 28.3             | 7.3 | 53553                | 0.59            |
| W15      | Surface   | 1         | 28.3             | 6.9 | 53844                | -0.06           |
|          | Mid-water | 7         | 28.3             | 7.1 | 53851                | -0.09           |
|          | Bottom    | 21        | 28.3             | 7.9 | 53801                | -0.07           |
| W16      | Surface   | 1         | 28.4             | 7.3 | 54089                | -0.09           |
|          | Mid-water | 10        | 28.4             | 7.3 | 54054                | -0.05           |
|          | Bottom    | 23        | 28.3             | 7.2 | 54116                | -0.02           |
| W19      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W20      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W25      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W26      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W27      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W36      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W45      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W46      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W47      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W51      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |

| Vessel | Stop | Start |
|--------|------|-------|
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|        |      |       |
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|        |      |       |
|        |      |       |



Fairway completed the dredging phase of the works on the 20th of August, therefore as of the 25th only the Reclamation area locations are measured

Water samples taken from all reclamation sites for TSS testing





# WATER QUALITY REPORT

Dredging, Land Reclamation and Revetment Works at Gulhifalhu



Date: 31-01-2021

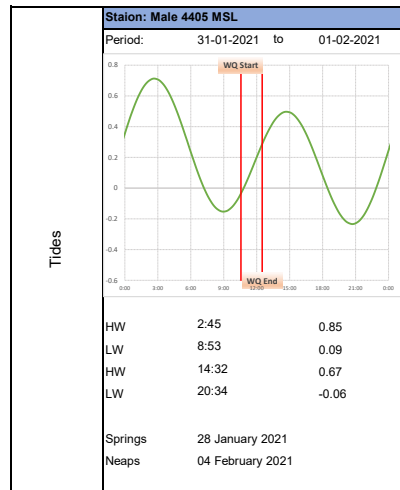
Time: 10:34 to 12:30

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu  
Contract number : AGR(471)-PIDS2/PRIV/2019/194  
Project number [MIAS] : 462.10042

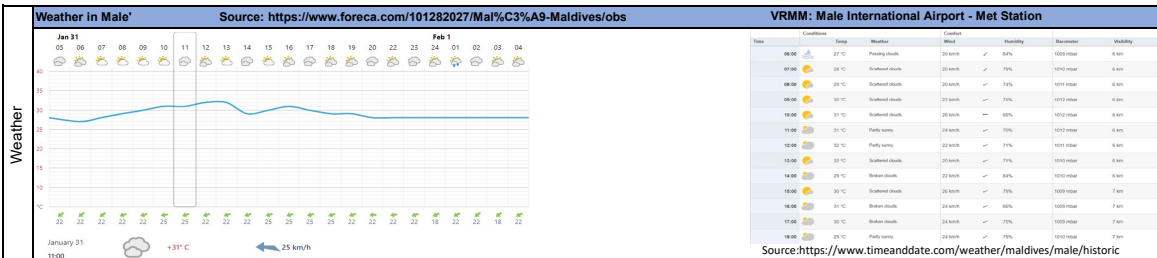
Document number : 462.10062-WQR-37.5  
Contractor : Boskalis Westminster Contracting Ltd  
Client : Ministry of National Planning and Infrastructure  
Attention : [shaana.farooq@planning.gov.mv](mailto:shaana.farooq@planning.gov.mv)

| Location | Section   | Depth (m) | Temperature (°C) | pH  | Conductivity (uS/cm) | Turbidity (NTU) |
|----------|-----------|-----------|------------------|-----|----------------------|-----------------|
| W2       | Surface   | 1         | 28.5             | 7.8 | 54038                | 0.01            |
|          | Mid-water | 11        | 28.5             | 8.0 | 53981                | 0.05            |
|          | Bottom    | 23        | 28.5             | 7.7 | 53971                | -0.06           |
| W5       | Surface   | 1         | 28.5             | 6.3 | 53975                | -0.09           |
|          | Mid-water | 11        | 28.5             | 6.3 | 53933                | -0.10           |
|          | Bottom    | 21        | 28.5             | 6.4 | 53884                | -0.08           |
| W7       | Surface   | 1         | 28.3             | 6.0 | 54049                | -0.07           |
|          | Mid-water | 10        | 28.3             | 6.0 | 54036                | -0.09           |
|          | Bottom    | 20        | 28.3             | 5.9 | 54000                | -0.07           |
| W10      | Surface   | 1         | 28.3             | 6.3 | 54088                | -0.14           |
|          | Mid-water | 11        | 28.4             | 6.2 | 54031                | -0.15           |
|          | Bottom    | 19        | 28.3             | 6.2 | 54002                | -0.13           |
| W11      | Surface   | 1         | 28.4             | 6.7 | 54070                | -0.08           |
|          | Mid-water | 10        | 28.3             | 6.5 | 54032                | -0.10           |
|          | Bottom    | 22        | 28.3             | 6.4 | 54023                | -0.10           |
| W14      | Surface   | 1         | 28.5             | 7.7 | 54083                | -0.01           |
|          | Mid-water | 8         | 28.5             | 7.7 | 54058                | 0.06            |
|          | Bottom    | 17        | 28.4             | 7.6 | 54076                | 0.27            |
| W15      | Surface   | 1         | 28.4             | 6.4 | 53850                | -0.08           |
|          | Mid-water | 11        | 28.4             | 6.6 | 53804                | -0.10           |
|          | Bottom    | 24        | 28.4             | 7.1 | 53795                | -0.07           |
| W16      | Surface   | 1         | 28.6             | 7.5 | 54084                | -0.10           |
|          | Mid-water | 10        | 28.5             | 7.7 | 54035                | -0.08           |
|          | Bottom    | 21        | 28.6             | 7.3 | 54025                | -0.05           |
| W19      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W20      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W25      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W26      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W27      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W36      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W45      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W46      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W47      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W51      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |

| Vessel | Stop | Start |
|--------|------|-------|
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |



Fairway completed the dredging phase of the works on the 20th of August, therefore as of the 25th only the Reclamation area locations are measured





# WATER QUALITY REPORT

Dredging, Land Reclamation and Revetment Works at Gulhifalhu



Date: 01-02-2021

Time: 16:25 to 18:25

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu □  
Contract number : AGR(471)-PIDS2/PRIV/2019/194  
Project number [MIAS] : 462.10042

Document number : 462.10062-WQR-37.6  
Contractor : Boskalis Westminster Contracting Ltd  
Client : Ministry of National Planning and Infrastructure  
Attention : [shaana.farooq@planning.gov.mv](mailto:shaana.farooq@planning.gov.mv)

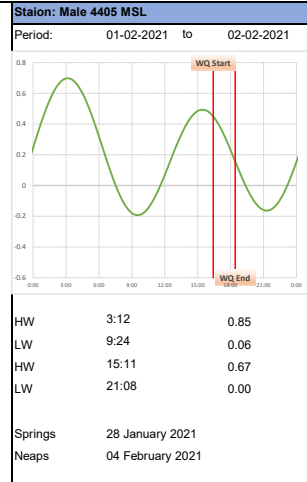
Results

| Location | Section   | Depth (m) | Temperature (°C) | pH   | Conductivity (uS/cm) | Turbidity (NTU) |
|----------|-----------|-----------|------------------|------|----------------------|-----------------|
| W2       | Surface   | 1         | 28.5             | 7.2  | 53759                | 0.12            |
|          | Mid-water | 11        | 28.5             | 7.3  | 53750                | 0.12            |
|          | Bottom    | 16        | 28.4             | 7.4  | 53710                | 0.11            |
| W5       | Surface   | 1         | 28.6             | 6.0  | 53671                | -0.11           |
|          | Mid-water | 12        | 28.5             | 6.0  | 53683                | -0.09           |
|          | Bottom    | 22        | 28.4             | 6.0  | 53695                | -0.07           |
| W7       | Surface   | 1         | 28.5             | 7.6  | 53643                | -0.15           |
|          | Mid-water | 9         | 28.4             | 9.1  | 53648                | -0.15           |
|          | Bottom    | 17        | 28.4             | 10.4 | 53665                | -0.07           |
| W10      | Surface   | 1         | 28.4             | 6.8  | 53688                | -0.09           |
|          | Mid-water | 7         | 28.4             | 6.9  | 53685                | -0.12           |
|          | Bottom    | 14        | 28.4             | 7.1  | 53701                | -0.11           |
| W11      | Surface   | 1         | 28.6             | 7.0  | 53666                | 0.02            |
|          | Mid-water | 12        | 28.6             | 6.9  | 53639                | -0.06           |
|          | Bottom    | 24        | 28.5             | 6.9  | 53623                | -0.07           |
| W14      | Surface   | 1         | 28.6             | 7.3  | 53792                | 0.07            |
|          | Mid-water | 8         | 28.6             | 7.3  | 53763                | 0.08            |
|          | Bottom    | 16        | 28.5             | 7.3  | 53761                | 0.10            |
| W15      | Surface   | 1         | 28.4             | 5.8  | 53641                | -0.12           |
|          | Mid-water | 12        | 28.4             | 5.9  | 53642                | -0.08           |
|          | Bottom    | 24        | 28.4             | 5.9  | 53661                | -0.14           |
| W16      | Surface   | 1         | 28.6             | 7.2  | 53717                | -0.06           |
|          | Mid-water | 12        | 28.5             | 7.1  | 53664                | -0.06           |
|          | Bottom    | 24        | 28.6             | 7.2  | 53679                | -0.10           |
| W19      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W20      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W25      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W26      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W27      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W36      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W45      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W46      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W47      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |
| W51      | Surface   |           |                  |      |                      |                 |
|          | Mid-water |           |                  |      |                      |                 |
|          | Bottom    |           |                  |      |                      |                 |

Stoppages

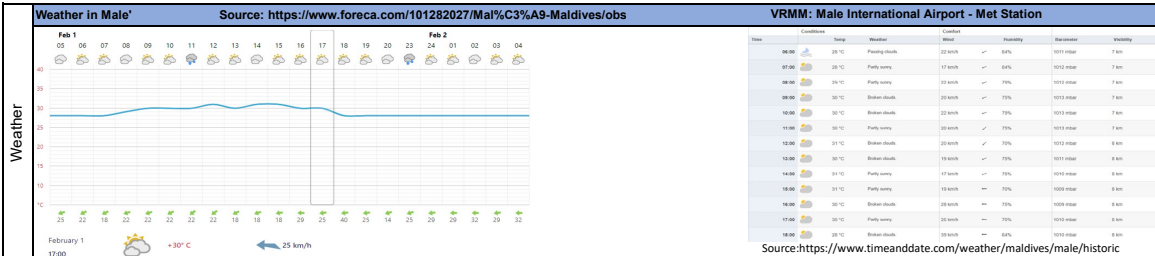
| Vessel | Stop | Start |
|--------|------|-------|
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |

Tides



Remarks

Fairway completed the dredging phase of the works on the 20th of August, therefore as of the 25th only the Reclamation area locations are measured





# WATER QUALITY REPORT

Dredging, Land Reclamation and Revetment Works at Gulhifalhu



Date: 02-02-2021

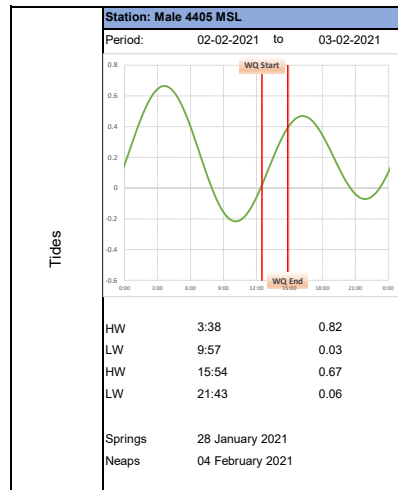
Time: 12:30 to 14:51

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu  
Contract number : AGR(471)-PIDS2/PRIV/2019/194  
Project number [MIAS] : 462.10042

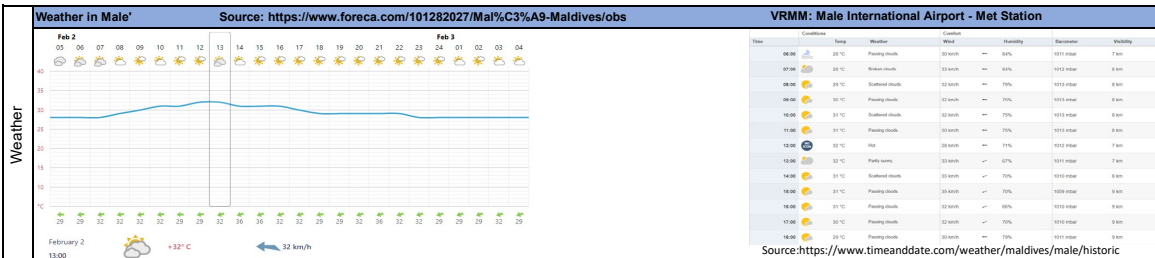
Document number : 462.10062-WQR-37.7  
Contractor : Boskalis Westminster Contracting Ltd  
Client : Ministry of National Planning and Infrastructure  
Attention : [shaana.farooq@planning.gov.mv](mailto:shaana.farooq@planning.gov.mv)

| Location | Section   | Depth (m) | Temperature (°C) | pH  | Conductivity (uS/cm) | Turbidity (NTU) |
|----------|-----------|-----------|------------------|-----|----------------------|-----------------|
| W2       | Surface   | 1         | 28.5             | 6.8 | 53512                | -0.11           |
|          | Mid-water | 11        | 28.5             | 7.1 | 53516                | -0.10           |
|          | Bottom    | 21        | 28.5             | 6.9 | 53504                | -0.05           |
| W5       | Surface   | 1         | 28.5             | 6.3 | 54053                | -0.05           |
|          | Mid-water | 10        | 28.5             | 6.6 | 54042                | -0.08           |
|          | Bottom    | 22        | 28.5             | 6.6 | 54018                | -0.07           |
| W7A      | Surface   | 1         | 28.5             | 7.1 | 53401                | -0.01           |
|          | Mid-water | 10        | 28.3             | 7.1 | 53420                | -0.06           |
|          | Bottom    | 22        | 28.2             | 7.1 | 53436                | -0.09           |
| W10      | Surface   | 1         | 28.4             | 7.1 | 53461                | -0.07           |
|          | Mid-water | 11        | 28.4             | 7.1 | 53446                | -0.12           |
|          | Bottom    | 23        | 28.3             | 7.1 | 53405                | -0.10           |
| W11      | Surface   | 1         | 28.5             | 7.1 | 53472                | -0.09           |
|          | Mid-water | 11        | 28.5             | 7.2 | 53468                | -0.07           |
|          | Bottom    | 20        | 28.4             | 7.2 | 53476                | -0.04           |
| W14      | Surface   | 1         | 28.6             | 7.0 | 53643                | 0.05            |
|          | Mid-water | 8         | 28.6             | 7.0 | 53615                | 0.03            |
|          | Bottom    | 16        | 28.5             | 7.0 | 53598                | 0.29            |
| W15      | Surface   | 1         | 28.5             | 6.3 | 53979                | -0.09           |
|          | Mid-water | 11        | 28.4             | 6.8 | 54006                | -0.08           |
|          | Bottom    | 18        | 28.4             | 6.9 | 53995                | -0.07           |
| W16      | Surface   | 1         | 28.5             | 6.6 | 53567                | -0.06           |
|          | Mid-water | 10        | 28.5             | 6.7 | 53525                | -0.09           |
|          | Bottom    | 24        | 28.5             | 6.8 | 53519                | -0.08           |
| W19      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W20      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W25      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W26      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W27      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W36      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W45      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W46      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W47      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W51      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |

| Vessel | Stop | Start |
|--------|------|-------|
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |



Fairway completed the dredging phase of the works on the 20th of August, therefore as of the 25th only the Reclamation area locations are measured





# WATER QUALITY REPORT

Dredging, Land Reclamation and Revetment Works at Gulhifalhu



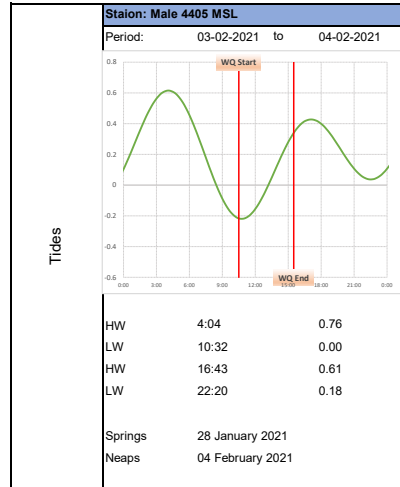
Date: 03-02-2021

Time: 10:30 to 15:30

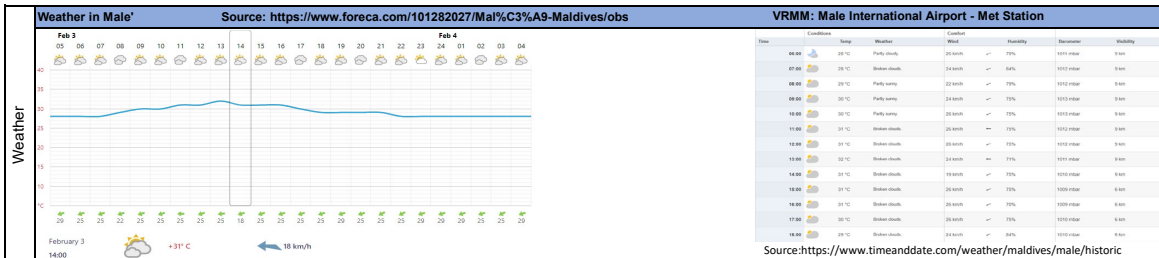
Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu □ Document number : 462.10062-WQR-37.8  
Contract number : AGR(471)-PIDS2/PRIV/2019/194 Contractor : Boskalis Westminster Contracting Ltd  
Project number [MIAS] : 462.10042 Client : Ministry of National Planning and Infrastructure  
Attention : shaana.farooq@planning.gov.mv

| Location | Section   | Depth (m) | Temperature (°C) | pH  | Conductivity (uS/cm) | Turbidity (NTU) |
|----------|-----------|-----------|------------------|-----|----------------------|-----------------|
| W2       | Surface   | 1         | 28.6             | 7.8 | 53269                | -0.22           |
|          | Mid-water | 10        | 28.6             | 8.0 | 53226                | -0.21           |
|          | Bottom    | 23        | 28.5             | 7.7 | 53222                | -0.09           |
| W5       | Surface   | 1         | 28.5             | 8.3 | 53405                | 0.20            |
|          | Mid-water | 10        | 28.4             | 8.3 | 53360                | 0.17            |
|          | Bottom    | 23        | 28.4             | 8.4 | 53340                | 0.20            |
| W7       | Surface   | 1         | 28.5             | 8.1 | 53442                | -0.05           |
|          | Mid-water | 11        | 28.4             | 8.1 | 53446                | 0.05            |
|          | Bottom    | 23        | 28.4             | 8.1 | 53412                | -0.08           |
| W10      | Surface   | 1         | 28.4             | 7.9 | 53444                | -0.10           |
|          | Mid-water | 10        | 28.4             | 7.8 | 53432                | -0.11           |
|          | Bottom    | 23        | 28.4             | 7.8 | 53409                | -0.16           |
| W11      | Surface   | 1         | 28.4             | 7.7 | 53241                | -0.11           |
|          | Mid-water | 11        | 28.4             | 7.8 | 53471                | -0.12           |
|          | Bottom    | 23        | 28.4             | 7.8 | 53436                | -0.15           |
| W14      | Surface   | 1         | 28.6             | 7.6 | 53349                | -0.07           |
|          | Mid-water | 8         | 28.5             | 7.5 | 53348                | -0.05           |
|          | Bottom    | 17        | 28.5             | 7.5 | 53309                | -0.02           |
| W15      | Surface   | 1         | 28.4             | 6.6 | 53702                | -0.04           |
|          | Mid-water | 11        | 28.4             | 7.0 | 53689                | -0.03           |
|          | Bottom    | 24        | 28.4             | 7.0 | 53672                | 0.03            |
| W16      | Surface   | 1         | 28.6             | 7.8 | 53258                | -0.16           |
|          | Mid-water | 11        | 28.6             | 7.6 | 53223                | -0.18           |
|          | Bottom    | 25        | 28.4             | 7.6 | 53241                | -0.12           |
| W19      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W20      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W25      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W26      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W27      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W36      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W45      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W46      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W47      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W51      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |

| Vessel | Stop | Start |
|--------|------|-------|
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |



Fairway completed the dredging phase of the works on the 20th of August, therefore as of the 25th only the Reclamation area locations are measured





# WATER QUALITY REPORT

Dredging, Land Reclamation and Revetment Works at Gulhifalhu



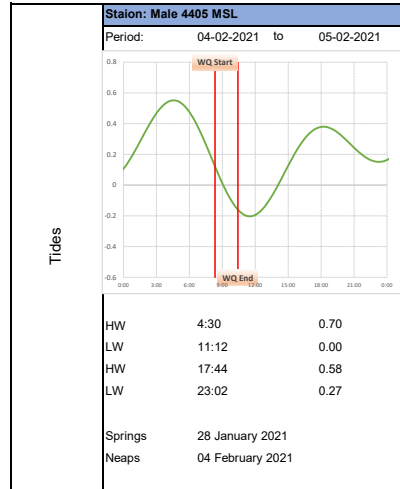
Date: 04-02-2021

Time: 8:20 to 10:25

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu □ Document number : 462.10062-WQR-37.9  
Contract number : AGR(471)-PIDS2/PRIV/2019/194 Contractor : Boskalis Westminster Contracting Ltd  
Project number [MIAS] : 462.10042 Client : Ministry of National Planning and Infrastructure  
Attention shaana.farooq@planning.gov.mv

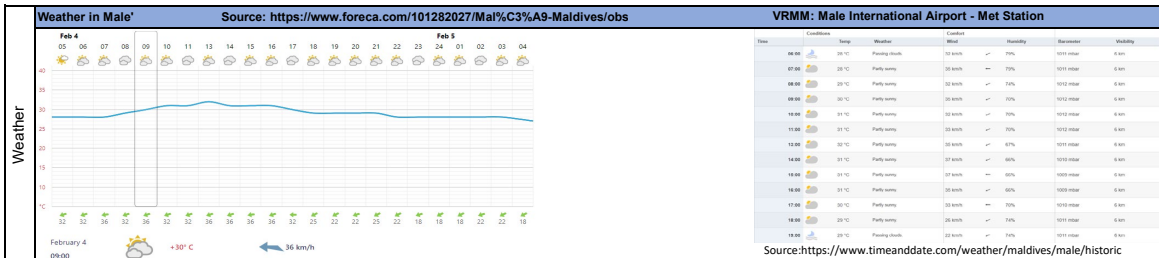
| Location | Section   | Depth (m) | Temperature (°C) | pH  | Conductivity (uS/cm) | Turbidity (NTU) |
|----------|-----------|-----------|------------------|-----|----------------------|-----------------|
| W2       | Surface   | 1         | 28.3             | 7.7 | 53154                | -0.10           |
|          | Mid-water | 10        | 28.3             | 7.6 | 53081                | -0.10           |
|          | Bottom    | 19        | 28.3             | 7.5 | 53100                | 0.01            |
| W5       | Surface   | 1         | 28.3             | 6.5 | 53115                | -0.07           |
|          | Mid-water | 10        | 28.3             | 6.6 | 53203                | -0.12           |
|          | Bottom    | 21        | 28.3             | 6.8 | 53519                | -0.16           |
| W7       | Surface   | 1         | 28.3             | 7.1 | 53130                | 0.00            |
|          | Mid-water | 11        | 28.3             | 7.1 | 53106                | 0.10            |
|          | Bottom    | 24        | 28.3             | 7.1 | 53062                | -0.08           |
| W10      | Surface   | 1         | 28.3             | 7.3 | 53221                | 0.03            |
|          | Mid-water | 10        | 28.3             | 7.4 | 53241                | 0.02            |
|          | Bottom    | 21        | 28.2             | 7.4 | 53185                | 0.01            |
| W11      | Surface   | 1         | 28.3             | 7.4 | 53220                | -0.02           |
|          | Mid-water | 10        | 28.3             | 7.4 | 53195                | -0.02           |
|          | Bottom    | 23        | 28.3             | 7.4 | 53194                | -0.12           |
| W14      | Surface   | 1         | 28.4             | 7.8 | 53362                | 0.11            |
|          | Mid-water | 8         | 28.4             | 7.8 | 53358                | 0.14            |
|          | Bottom    | 16        | 28.4             | 7.8 | 53381                | 0.15            |
| W15      | Surface   | 1         | 28.3             | 6.8 | 53442                | -0.10           |
|          | Mid-water | 11        | 28.3             | 6.9 | 53427                | -0.09           |
|          | Bottom    | 22        | 28.3             | 7.2 | 53395                | -0.12           |
| W16      | Surface   | 2         | 28.3             | 7.6 | 53162                | -0.03           |
|          | Mid-water | 8         | 28.3             | 7.6 | 53141                | -0.06           |
|          | Bottom    | 21        | 28.3             | 7.6 | 53121                | -0.05           |
| W19      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W20      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W25      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W26      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W27      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W36      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W45      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W46      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W47      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W51      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |

| Stoppages | Vessel | Stop | Start |
|-----------|--------|------|-------|
|           |        |      |       |
|           |        |      |       |
|           |        |      |       |
|           |        |      |       |
|           |        |      |       |
|           |        |      |       |



Remarks

Fairway completed the dredging phase of the works on the 20th of August, therefore as of the 25th only the Reclamation area locations are measured





# WATER QUALITY REPORT

Dredging, Land Reclamation and Revetment Works at Gulhifalhu



Date: 05-02-2021

Time: 7:10 to 9:50

Project : Dredging, Land Reclamation and Revetment Works at Gulhifalhu □ Document number : 462.10062-WQR-37.10  
Contract number : AGR(471)-PIDS2/PRIV/2019/194 Contractor : Boskalis Westminster Contracting Ltd  
Project number [MIAS] : 462.10042 Client : Ministry of National Planning and Infrastructure  
Attention : shaana.farooq@planning.gov.mv

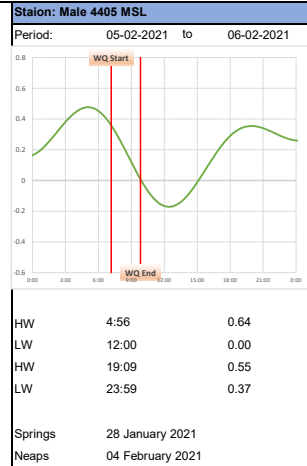
Results

| Location | Section   | Depth (m) | Temperature (°C) | pH  | Conductivity (uS/cm) | Turbidity (NTU) |
|----------|-----------|-----------|------------------|-----|----------------------|-----------------|
| W2       | Surface   | 1         | 28.3             | 8.0 | 53155                | 0.48            |
|          | Mid-water | 11        | 28.3             | 7.9 | 53101                | 0.34            |
|          | Bottom    | 24        | 28.3             | 7.9 | 53088                | 0.42            |
| W5       | Surface   | 1         | 28.3             | 7.0 | 53599                | -0.17           |
|          | Mid-water | 11        | 28.3             | 6.9 | 53602                | -0.21           |
|          | Bottom    | 23        | 28.3             | 6.9 | 53551                | -0.18           |
| W7       | Surface   | 1         | 28.3             | 7.3 | 53035                | 0.01            |
|          | Mid-water | 13        | 28.2             | 7.3 | 53076                | -0.09           |
|          | Bottom    | 23        | 28.2             | 7.3 | 53038                | -0.14           |
| W10      | Surface   | 1         | 28.2             | 7.5 | 52994                | 0.05            |
|          | Mid-water | 12        | 28.3             | 7.5 | 52918                | -0.17           |
|          | Bottom    | 21        | 28.2             | 7.6 | 52970                | -0.10           |
| W11      | Surface   | 1         | 28.3             | 7.7 | 53041                | -0.09           |
|          | Mid-water | 11        | 28.2             | 7.7 | 52980                | -0.12           |
|          | Bottom    | 17        | 28.2             | 7.7 | 52987                | -0.16           |
| W14      | Surface   | 1         | 28.3             | 8.1 | 53140                | 0.10            |
|          | Mid-water | 8         | 28.3             | 8.0 | 53245                | 0.07            |
|          | Bottom    | 17        | 28.3             | 8.0 | 53181                | 0.16            |
| W15      | Surface   | 1         | 28.3             | 6.4 | 53534                | -0.19           |
|          | Mid-water | 12        | 28.3             | 6.8 | 53473                | -0.14           |
|          | Bottom    | 24        | 28.3             | 7.1 | 53428                | -0.14           |
| W16      | Surface   | 1         | 28.3             | 7.9 | 53076                | -0.09           |
|          | Mid-water | 11        | 28.3             | 7.8 | 53029                | -0.10           |
|          | Bottom    | 23        | 28.3             | 7.9 | 53007                | -0.06           |
| W19      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W20      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W25      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W26      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W27      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W36      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W45      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W46      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W47      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |
| W51      | Surface   |           |                  |     |                      |                 |
|          | Mid-water |           |                  |     |                      |                 |
|          | Bottom    |           |                  |     |                      |                 |

Stoppages

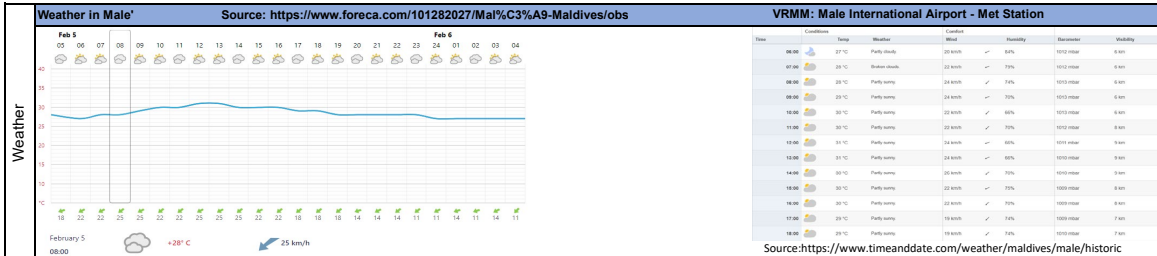
| Vessel | Stop | Start |
|--------|------|-------|
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |
|        |      |       |

Tides



Remarks

Fairway completed the dredging phase of the works on the 20th of August, therefore as of the 25th only the Reclamation area locations are measured



**Male' Water & Sewerage Company Pvt Ltd****Water Quality Assurance Laboratory**

Quality Assurance Building, 1st Floor, Male' Hingun, Vilimale', Male' City, Maldives  
Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT****Report No: 500186059****Customer Information:**

CDE Pvt Ltd  
H.Orchidmaage, 4th Floor  
Ameeru Ahmed Magu  
Male K

Report date: **02/02/2021**Test Requisition Form No: **900191125**Sample(s) Received Date: **31/01/2021**Date of Analysis: **31/01/2021 - 31/01/2021**

| Sample Description ~   | GF_REC-W15           | GF_REC-W05           | GF_REC-W07           | TEST METHOD      | UNIT |
|------------------------|----------------------|----------------------|----------------------|------------------|------|
| Sample Type ~          | Sea Water            | Sea Water            | Sea Water            |                  |      |
| Sample No              | 83216278             | 83216279             | 83216280             |                  |      |
| Sampled Date ~         | 30/01/2021 08:26     | 30/01/2021 08:26     | 30/01/2021 08:26     |                  |      |
| PARAMETER              | ANALYSIS RESULT      |                      |                      |                  |      |
| Physical Appearance    | Clear with particles | Clear with particles | Clear with particles | HACH Method 8006 | mg/L |
| Total Suspended Solids | <5 (LoQ 5 mg/L )     | <5 (LoQ 5 mg/L )     | <5 (LoQ 5 mg/L )     |                  |      |

**Keys: mg/L** : Milligram Per Liter**Checked by**

Aminath Sofa  
Laboratory Executive

**Approved by**

Mohamed Eyman  
Manager, Quality

**Notes: Sampling Authority:** Sampling was not done by MWSC Laboratory

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This test report is ONLY FOR THE SAMPLES TESTED.

~ Information provided by the customer

**Male' Water & Sewerage Company Pvt Ltd****Water Quality Assurance Laboratory**

Quality Assurance Building, 1st Floor, Male' Hingun, Vilimala', Male' City, Maldives  
Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT**

Report No: 500186059

**Customer Information:**

CDE Pvt Ltd  
H.Orchidmaage, 4th Floor  
Ameeru Ahmed Magu  
Male K

Report date: **02/02/2021**Test Requisition Form No: **900191125**Sample(s) Received Date: **31/01/2021**Date of Analysis: **31/01/2021 - 31/01/2021**

|                        |                      |                      |                      |                  |      |
|------------------------|----------------------|----------------------|----------------------|------------------|------|
| Sample Description ~   | GF_REC-W10           | GF_REC-W11           | GF_REC-W16           | TEST METHOD      | UNIT |
| Sample Type ~          | Sea Water            | Sea Water            | Sea Water            |                  |      |
| Sample No              | 83216281             | 83216282             | 83216283             |                  |      |
| Sampled Date ~         | 30/01/2021 08:26     | 30/01/2021 08:26     | 30/01/2021 08:26     |                  |      |
| PARAMETER              | ANALYSIS RESULT      |                      |                      |                  |      |
| Physical Appearance    | Clear with particles | Clear with particles | Clear with particles | HACH Method 8006 | mg/L |
| Total Suspended Solids | <5 (LoQ 5 mg/L )     | <5 (LoQ 5 mg/L )     | <5 (LoQ 5 mg/L )     |                  |      |

Keys: mg/L : Milligram Per Liter

Checked by

Aminath Sofa  
Laboratory Executive

Approved by

Mohamed Eyman  
Manager, Quality

**Notes: Sampling Authority:** Sampling was not done by MWSC Laboratory

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Quality Assurance Building, 1st Floor, Male' Hingun, Vilimala', Male' City, Maldives  
Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv

**WATER QUALITY TEST REPORT**

Report No: 500186059

**Customer Information:**

CDE Pvt Ltd  
H.Orchidmaage, 4th Floor  
Ameeru Ahmed Magu  
Male K

Report date: 02/02/2021

Test Requisition Form No: 900191125

Sample(s) Received Date: 31/01/2021

Date of Analysis: 31/01/2021 - 31/01/2021

|                        |                      |                      |                  |      |
|------------------------|----------------------|----------------------|------------------|------|
| Sample Description ~   | GF_REC-W02           | GF_REC-W14           | TEST METHOD      | UNIT |
| Sample Type ~          | Sea Water            | Sea Water            |                  |      |
| Sample No              | 83216284             | 83216285             |                  |      |
| Sampled Date ~         | 30/01/2021 08:26     | 30/01/2021 08:26     |                  |      |
| PARAMETER              | ANALYSIS RESULT      |                      |                  |      |
| Physical Appearance    | Clear with particles | Clear with particles | HACH Method 8006 | mg/L |
| Total Suspended Solids | <5 (LoQ 5 mg/L )     | <5 (LoQ 5 mg/L )     |                  |      |

Keys: mg/L : Milligram Per Liter

Checked by

Aminath Sofa  
Laboratory Executive

Approved by

Mohamed Eyman  
Manager, Quality

**Notes: Sampling Authority:** Sampling was not done by MWSC Laboratory

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~ Information provided by the customer

\*\*\*\*\* END OF REPORT \*\*\*\*\*