



Environmental Permit

Environment Protection Act (CAP. 549)

Permit number:
EP 1043/20

Approved documents
EP 1043/20/1E/1H

The Environment and Resources Authority (hereinafter the Authority; the Competent Authority or ERA) in exercise of its powers under the Environment Protection Act (CAP. 549), hereby authorises:

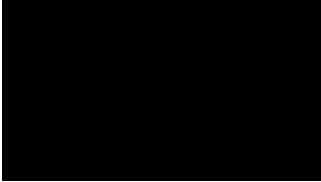
Mr Mario Ellul obo Public Works Department (hereinafter “the Permit Holder”), Of / Whose Registered Office (or principal place of business) is at

Ministry for Transport, Infrastructure and Capital Projects
Project House,
Triq Francesco Buonamici,
Floriana, FRN1820

Renewal of NP0203/18: repairing of the existing slipway

At Mistra Bay.

The validity of this permit is for one (1) year from the granting date of this permit.

Signed	Date
 Prof Victor Axiak Chairman	Permit Granted: 23 / 12 / 2020

Authorised to sign on behalf of the Competent Authority



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Conditions

Introductory Note

The permit is granted in accordance with the provisions of the Environment Protection Act and Regulation 18(2) of the Flora, Fauna and Natural Habitats Protection Regulations, 2006 (S.L. 549.44), hereinafter referred to as the Regulations, for the purpose of the activities that shall be carried out within the Special Protection Area (SPA) of Żona fil-Baħar madwar Għawdex (MT0000112) and the Special Area of Conservation of Ix-Xagħra tal-Kortin (MT0000010).

The works shall, subject to the conditions of this Permit, be managed, controlled and carried out as described in the NP Application, approved documents, and/or as otherwise previously agreed in writing by the Authority.

Status Log

Detail	Date
<i>Application NP0203/18</i>	22/06/2018
<i>Permit Granted</i>	26/10/2018
<i>Application EP1043/20</i>	19/10/2020
<i>ERA Board decision</i>	18/12/2020
<i>Permit Granted</i>	As per date on front page

Pre-Commencement of activities/ work

1. The permit holder shall advise of the dates of works at least seven (7) days prior to the commencement on ced.nature@era.org.mt. In the case of change of date, the permit holder is to inform ERA of such a change at least two (2) days in advance. In the case of short-term cancellation of the works (especially outside office hours), the Authority should be contacted on 9921 0404.

Permitted Activities

2. The permit holder is to nominate for ERA approval, prior to commencement of works, a suitably qualified and experienced ecological monitor for monitoring of compliance with permit conditions and to ensure that works are carried out with the least possible impact on habitats, species and water quality.

The monitor shall:

- i. be engaged at the expense of the applicant;
- ii. submit a monitoring plan for approval by ERA;
- iii. ensure that the works are carried out in line with the permit and without damage to the natural features on site;
- iv. be present on site during the entire duration of the works, unless directed otherwise by ERA officers monitoring the activity on site;
- v. notify ERA immediately of any breach of conditions.

The project manager and the Permit Holder shall provide all the information and assistance to ensure that monitoring of works is carried out in a satisfactory manner. A monitoring report with photos shall be submitted by the monitor as part of the report

of activities to ERA that is to be submitted as per condition 23, not later than one month after to expiry of permit.

No works shall be carried out unless the monitor and monitoring plan are approved by ERA.

3. The Permit Holder is authorised to carry out the works and the associated works specified in Table 1.

Table 1.		
Works	Description of specified works	Limits of specified works
Activity adjacent to a Marine Protected Area	As per approved document 1H	<ul style="list-style-type: none"> (i) Repair of existing slipway by means of pre-cast concrete slabs and beams; (ii) Deployment of silt curtain and cordoning of the area; (iii) Cutting of part of slipway adjacent to the road to level; (iv) Collecting of material in the sea accumulated near the slipway and left to dry; (v) Placing of levelling beams and precast slabs and placing of concrete.

Site

4. The activities authorised under condition 2 shall be affected in the location as marked on the approved site plan in approved document 1E.

Conditions of Activity/Work

5. Activities are to be held according to the Project Description Statement 1H.
6. The permit holder shall ensure that disturbance of any specimen of any species is kept to a minimum. It is the responsibility of the permit holder to ensure that no harm is caused to the environment either intentionally or accidentally. Attention must also be afforded to the whole of the environment of the SAC in view of the protection status of SAC.
7. The machinery that will be used for the works on site includes a truck, a backhoe, a saw cut, a crane, a concrete mixer and a utility van.

The vehicles shall:

- a. Be in a good state of maintenance and in any case do not leak oils or other polluting fluids;
- b. Only make use of existing roads for access;
- c. Be stored overnight in such a manner to avoid any accidents, including due to storms;
- d. Be refuelled in such a manner to avoid spillage into the sea; and
- e. Not be washed on site.

All the equipment, vehicles and materials shall be removed immediately once works

are completed.

8. Materials shall be shifted to the designated areas for storage of materials and equipment as stated on the approved method statement 1H.

This material shall be covered in such a way as to avoid contamination of air or water through wind or runoff respectively.

9. The Permit Holder is to implement mitigation measures in order to prevent contamination of the sea from dust, spalls, any other particles or concrete particles/poured liquid concrete.

Mitigation measures shall be in place at all times throughout the activity to ensure that the works do not pose any adverse effect on the marine environment and the coastal area.

While laying the concrete, no material is to be allowed to overspill into the sea. Adequate containment including placing of forms or barriers for holding the soft concrete in place until it cures shall be in place.

10. Underwater dust suppression equipment as per approved Construction Method Statement 1H including a silt curtain or equivalent, shall be installed in line with good practice, prior to commencement of any construction activities and utilised throughout the project all around the edge of the quay to limit any spillages into the sea. No damage to the seabed shall take place.

The silt curtain or equivalent shall be installed around the edge of the slipway to limit any spillages into the sea. No damage to the seabed shall take place as part of the deployment and/or removal.

Any moorings which shall be used as part of the installation of the silt curtain, shall not be placed on any vegetation which might be present in the area.

The silt curtain shall not be removed immediately after works on the slipway have been completed, to ensure that no silt ends up on the adjacent *Posidonia oceanica* patch.

11. In case that turbidity occurs outside the area of the silt curtain, works shall be halted until appropriate mitigation measures are put in place.

12. In the case that bedrock trimming is required, this is to be considered with diligence. In this respect, disturbance to ecological communities within Maltese waters, especially benthic ones, should be kept to a minimum. Disturbance of the sediment should also be kept to a minimum to prevent the possible resurgence of any accumulated pollutants.

13. In case that approved mitigation measures prove ineffective, works shall immediately cease until such time that the Permit Holder proposes an alternative method of works that would minimise the impact that shall be subject to ERA's endorsement.

14. In case that approved mitigation measures prove ineffective, works shall immediately cease until such time that the Permit Holder proposes an alternative method of works that would minimise the impact that shall be subject to ERA's endorsement.

15. Any cut material shall be left to dry for 24 hours in the materials' storage area and it must be ensured that no dispersion takes place through wind or water.

Unless otherwise specified, all stockpiles of raw and/or waste material and waste skips shall be kept covered at all times and are to be located and covered in such a way as to avoid contamination of air or water through wind or runoff respectively.

16. Any generators, liquid fuel and other relevant combustible material should be stored within a safe distance from the trees in the area (i.e. at least 5 meters away from the circumference of the nearest tree canopy). All liquid fuel or combustible material employed is to be handled with care and fuel spillage is not allowed.

The placing of generators and other lighting equipment shall not involve the removal of plants or the levelling of ground.

All generators used shall be quiet, shall not exceed 70dB of sound from the site boundary and shall be switched off at 2300hrs.

17. The waste material shall be collected and transported on registered waste carriers and disposed of in a permitted inert waste facility in accordance with the Waste Management (Activity Registration) Regulations 2007 (S.L.549.45) and the Waste Regulations 2011 (S.L. 549.63).

Any skips which are left on site overnight should be closed.

18. Following completion of works, the assigned contractor shall be responsible to survey the surrounding area for any construction debris and material. In the eventuality of such material present on any vegetation, the contractor shall be obliged to remove the material and clean the area prior to demobilisation.
19. Works shall take place between sunrise and sunset and shall not be carried out during the official bathing season.

General Conditions

20. The 'Permit Holder', is responsible to ensure that all reasonable precautions are taken so that the activity conforms to the conditions in this Permit and the procedures outlined within the Permit application.
21. The activities covered by this permit are restricted to the Permit Holder, employees and/or volunteers and contracted parties commissioned for such activities/works under his supervision and direction, who shall all be made aware of this Permit and the contents within.
22. The following activities are strictly prohibited:
 - a. the deliberate picking, collection, taking, cutting, uprooting, harming, destroying or damaging deliberately destroying, keeping, transporting, selling, buying exchanging, offering for sale or for exchange, importing or exporting in any way of any specimen of wild flora;
 - b. the deliberate hunting, killing, capturing, taking, harming, disturbance particularly during periods of breeding, rearing, hibernation and migration, destruction and deterioration of breeding sites or resting places, pursuing, taking or attempting to take, deliberately killing or attempting to kill, deliberately destroying, keeping, transporting, selling, buying exchanging,

- offering for sale or for exchange, importing or exporting any specimen of any specimen of wild fauna;
 - c. cutting or damaging of reeds, tree branches etc;
 - d. planting of vegetation, shrubs and/or trees or the introduction of any flora or fauna into the site or its environs, except as permitted;
 - e. introduction, removal, significant movement and re-engineering, and/or collection of sand, shingle, stone, soil and/or sediment;
 - f. excavation works and any physical modification of the vegetation cover, the ground and landform of the site and its surroundings;
 - g. generation of excessive noise, including extremely loud music or the use of noisy generators, or light pollution through the use of floodlights;
 - h. disposal, discharge or spillage of oil, fuel, paint or other pollutants, or of solid waste, ash or combustibles;
 - i. lighting of fires.
19. ERA may request updates and/or further information on the activity in question as deemed necessary.
20. The conditions imposed shall be adhered to throughout all the activities. Failure to do so may result in enforcement action and cessation of any related works or activities.
21. ERA may impose other additional rules or conditions, or may amend one or more of the listed rules or conditions, as it deems necessary for the proper conservation of a protected site or area, biodiversity and the environment in general, and to ensure public safety.
22. The Permit Holder may apply for a variation of the Permit and shall seek the Authority's written agreement prior to any operational changes, by sending to the Authority:
- a. Written notice of the details of the proposed change, including an assessment of its possible effects or risks to the environment from the approved activity;
 - b. Any relevant supporting information;
 - c. Any relevant supporting assessments and drawings, and;
 - d. The proposed implementation date.
- Any such change shall only be implemented following the issue of a variation of the permit by the Authority.
23. In accordance with Regulation 46(4) of S.L. 549.44, a brief report with photos of the activities held, including any publications as a result of the activity, is to be provided to ERA by the Permit Holder within one month of the expiry of the permit, and is to be submitted to ced.nature@era.org.mt. Information that should be treated as confidential as outlined in Regulation 48(4) of S.L. 549.44 shall be specified.
- A template for the report is available at <https://era.org.mt/topic/nature-permit-reporting/>
24. This permit is granted saving third party rights. The Permit holder is not exempt from any other legislation or regulations, codes of practice, conditions or requirements imposed by any other competent authorities, including the obtaining of permits, licenses, or clearances including from site owners.
25. Any accidental handling, capture or collection of specimens or part thereof, whether dead or alive, of species listed within Schedule V and VI, and endemic species not listed in Schedule X of the Flora, Fauna and Natural Habitats Protection Regulations (S.L. 549.44) shall be reported on nature.permitting@era.org.mt within seven (7) days of sampling of the specimen provided that the permit holder may only keep such

specimen or part thereof for scientific research purposes. The Authority may request additional information from the permit holder, including but not limited to, an application for authorisation for the keeping of such specimens or samples.

26. The Authority may suspend or revoke this Environmental Permit in line with the provisions of CAP 549.
27. The Permit Holder shall notify the following matters to the Authority in writing at least 10 working days prior to their occurrence:
 - a. Any change in the Permit Holder's trading name, registered name or registered office address;
 - b. Any change to particulars of the Permit Holder's corporate identity.
28. Upon the joint application of a Permit Holder and a proposed transferee, the Permit Holder may request to transfer an environment permit. The permit shall not be transferred from the Permit Holder without prior approval from the Authority. Upon the Authority's decision to transfer the permit to the transferee, all rights, obligations, liabilities shall subsist onto the transferee.
29. In accordance with Regulation 47 of S.L. 549.44, details of the Permit Holder together with the details of conditions imposed in this Permit shall be maintained by the Authority in a register available for public inspection or maintained in electronic form.
30. The Authority may carry out regular pre-set or unannounced compliance or monitoring checks that vary in frequency according to the site's compliance with the permit conditions and safeguarding of natural assets. Any checks or audits carried out by the Authority may be made at the Permit Holder's financial expense at rate and arrangement communicated by ERA's Compliance and Enforcement Directorate. ERA may also appoint other on-site monitors at the expense of the Permit Holder to act as an on-site liaison between the Permit Holder and ERA if the case arises.
31. The Authority's representatives may inspect and photograph any part of the site/activity and ask for any closed or locked areas to be opened and may demand to be provided with any proof, documentation, plans, receipts or any other records.
32. This Permit including any Variation Notices or amendments to it shall be made available for any inspection by ERA officials at all times, or any legally recognised compliance and enforcement officials, when requested.
33. Whenever there is a conflict between the conditions of this Permit and approved documents, the conditions of the Permit shall prevail.
34. ERA shall not be held liable for any accidents or injuries which may occur during the activities being permitted through this Permit. It is the responsibility of the Permit Holder to ensure that all safety measures are taken.
35. This permit is without prejudice to any liability of the Permit Holder under the Act and to any punitive measures the Authority may wish to take with respect to works already carried out without permit.
36. This permit is subject to a bank guarantee of €10,000. The guarantee is covered in accordance with the *Letter of Undertaking covering Government Projects* ref MF35/05/160.

This guarantee shall be maintained throughout the validity of the permit. Following renewal and/or variations to this permit, the Authority may require amendments to the Bank Guarantee.

The Authority may take part or all of the bank guarantee if the Permit Holder fails to take the necessary action, or fails to fulfil his legal obligations under the Act of its

subsidiary legislation thereof, in cases of non-compliance with these permit conditions. This bank guarantee is without prejudice to any environmental liabilities incurred by the Permit Holder through failure to adhere to permit conditions or any other works/activity carried out on site. Should the Authority forfeit the Bank Guarantee either in part or in full, the permit holder shall ensure that this is replenished without undue delay in any case not exceeding 2 months from the date of forfeiture.

In cases where the bank guarantee does not cover the expenses incurred by the Authority to take remedial actions on the Permit Holder's behalf, the Permit Holder is to financially reimburse the Authority of all the expenses incurred.

37. The validity of this permit is **for one (1) year** from the granting date of this permit. The Permit Holder may apply for a renewal to this Permit expressing his/her intention at least four (4) weeks prior to the expiry of this permit. Request for renewals shall only be considered upon confirmation of compliance with Permit conditions and fulfilment of documentation as requested by this Permit.



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RUMPA

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Date Printed: 18/06/2018

Public Geoserver

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PLANNING AUTHORITY

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MINISTERU GHAT-TRASPORT,
INFRASTRUTTURA U PROĠETTI
KAPITALI

Dipartiment tax-Xoghlijiet u l-Infrastruttura
Sezzjoni Marittima
Unit Marittimu u Għall-Kontroll tal-Ilma tax-
Xita



MINISTRY FOR TRANSPORT,
INFRASTRUCTURE & CAPITAL
PROJECTS

Works and Infrastructure Department

Marine Section
Marine and Storm Water Unit

Our Ref : M-2014-25

Your Ref :

21st June, 2018

Project Description & Construction Method Statement
For the repair of an existing slipway at il-Qala tal-Mistra

This report is being prepared by the Marine Section, MSW Unit, in the Ministry for Transport, Infrastructure and Capital Projects in connection with the proposed repair works to an existing slipway at Mistra.

Project Description

This slipway was originally constructed during the British period as a means to lower sea planes into the sea. Its construction is composed of a coralline limestone block perimeter which was filled with loose material and covered with mass concrete. Today, it is in disrepair and aerial photos show that there is a large cavity in its middle area. If no action is taken the slipway will be completely dismantled by natural processes. This application sees to restoring what remains of this slipway to its former state.

Operational Time

Normally, works on site will be carried out between 7:00am and 4:00pm. It is not envisaged that works will be carried out during the weekend.

Heavy Plant

Heavy plant used during the Marine works includes the following:

- Truck
- Backhoe

- Saw Cut
- Crane
- Concrete mixer
- Utility van

Precasting

Precasting will be carried out at an offsite casting yard.

These elements will consist of:

1. Reinforced concrete slabs;
2. Reinforced Concrete levelling Beams

Supply of building materials and precast elements

Precast elements will be supplied by a loader and lowered by crane to the designated area.

Concrete is to be supplied by truck mixers and laid in place using a concrete tremie or pump.

Site preparation

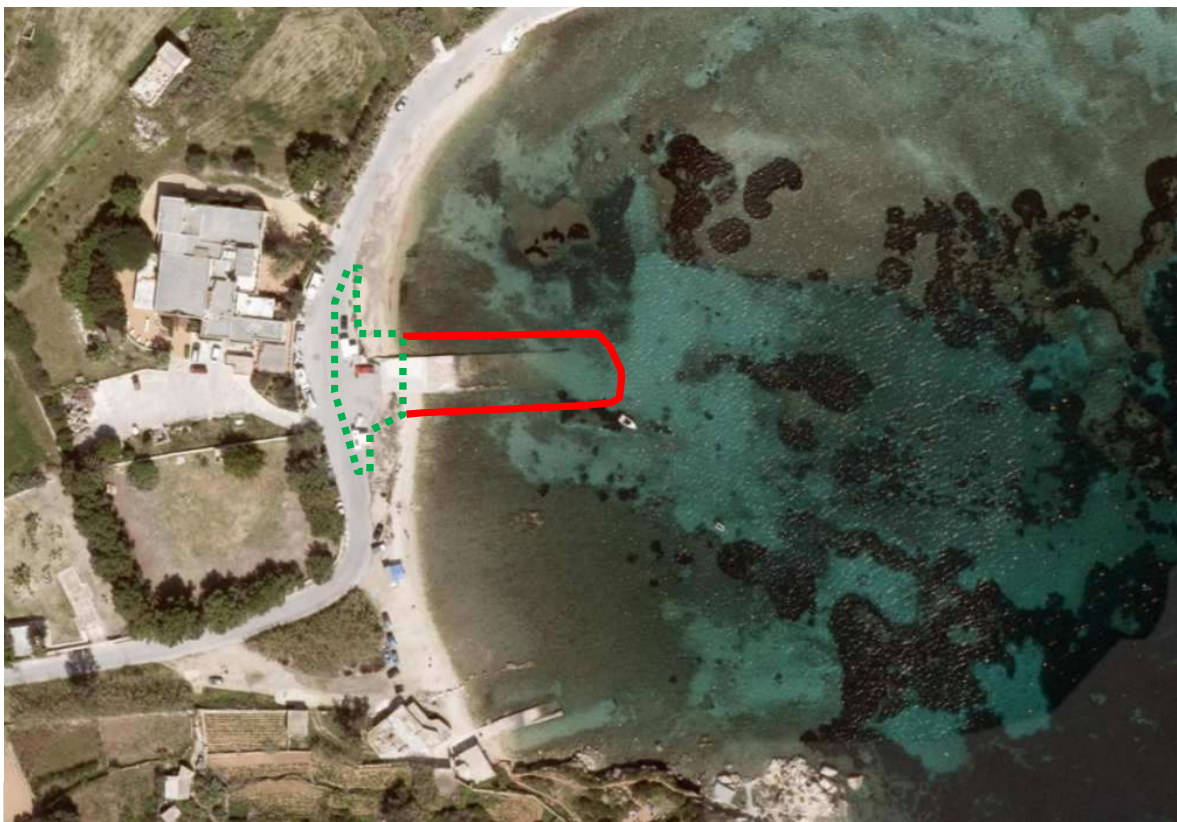
Prior to starting works on site, the area will be cordoned off. Prior to starting any works in the water, a silt curtain will be installed around the length site to reduce the amount of plume that disperses into the adjacent sea areas. Silt curtain shall be kept in good condition. It shall be constructed from heavy woven filter fabric to allow water to pass through the barrier yet retain sediment and will be weighed to the sea bed using steel weights positioned at a distance of around 50cm and have floats keeping upper part of silt curtain at least 20cm above water level. Sinkers will be required at intervals to keep the silt curtain away from the coast. The silt curtain will be rolled onto the floats and kept in place by means of tie clips. It will be attached to a steel vertical member lowered in the water at the extreme edges of the quay to secure adequate sealing with the upper part of the quay edge. Notwithstanding, one has to note that the quay forms part of a rock formation and thus it will not be possible to seal the lower parts in the water. The silt curtain will be kept in place for at least 3 days after the works have been completed and it will be removed vertically by rolling out of the water and shifted to the new area earmarked for works.

Storage of Materials

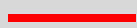
Materials that need to be stored on site include:

1. Precast elements
2. Material removed or broken up from the footprint of intervention – if required to be allowed to dry on site prior to transportation of same to an approved dumping site.
3. Contractor's equipment/machinery

All of the above will be stored in the area to be cordoned off - marked in green on the aerial photo above.



Area to be cordoned off



Silt curtain

Aerial photo retrieved from www.googlemaps.com

The Works

Actual sequence of works will be determined once Contractor has been chosen. However, the main tasks earmarked for the works are listed hereunder:

1. Prior to starting works in the area, the silt curtain will be deployed.
2. The perimeter of the slipway touching the road will be saw cut for a clean finish.
3. Starting for out at sea, the material accumulated inside the footprint of the slipway will be brought ashore using a backhoe/grab. This material will be left to dry on site, following which it will be disposed in an approved manner. Any remaining concrete will be broken up using a backhoe equipped with a chisel.
4. The coralline limestone blocks surrounding the slipway will be preserved. Missing stone will be replaced by new ones. Underwater repair works will be carried out using the service of divers.
5. It is not foreseen that bedrock trimming is required. In the event that this is needed to level out seabed and/or to create a toe in which to recess the precast blocks, the resulting debris will be dredged by grab using the same excavator and loaded into a heap in the material's storage area. The material will be allowed to dry 24 hours before loading again on to a tipper truck and carting away to an official landfill.
6. It is thought that the bedrock is located at a depth and thus, a bed of spalls surrounded by geotextile material is being proposed as a foundation onto which the slipway's structure will rest. A ground investigation will be carried out in the near future to determine the exact location of the bedrock.
7. Following which levelling beams will be placed onto the spalls, using the excavator crane under the guidance of the divers. The beams will be levelled with the use of levelling staffs and supported on concrete wedges piled up on each other as necessary.
8. This will be followed by the placing and levelling of the precast slabs moving from the deep areas upwards. Concrete will then be cast underneath under the slabs and surrounding the perimeter coralline limestone blocks.
9. Whenever necessary the openings formed between the bedrock and the ends are blocked by means of sand bags.
10. Casting of marine concrete underwater to form toe at the end of the slipway. In this case the concrete will be held in place by means of temporary precast block which will be removed once the works have been completed.
11. Once the area beneath water level has been completed, the existing concrete located above water level will be broken up and disposed off in an approved manner.
12. Cast in situ concrete will be pumped in place.
13. Making good with concrete in interface between old and new intervention.

Once the repair works on the actual slipway are completed, minor repair works to the slipway's embankments (sides) maybe required.

Timeframes

Ideally works are not carried out during the winter season as stretches of bad weather will affect the length of the work and also may result in damage to works already on site. As such it is planned that works will be carried out during spring to autumn months depending on the period when the Works Contract is awarded.

It is envisaged that the works will take between 2 and 3 months to be completed weather permitting.

a) Site mobilisation	-	2 day
b) Removal of material & breaking concrete	-	10 days
c) Repair of perimeter blocks	-	15 days
d) Laying of precast elements & concreting	-	10 days
e) Breaking up of concrete located above water level	-	10 days
f) Laying of concrete above water level	-	5 days
g) Site demobilisation	-	2 days

Mitigation Measures

During the whole duration of the underwater works, a silt curtain will be installed around the mouth of the slipway to reduce the amount of plume dispersing in the surrounding waters. Contractor will be obliged to keep silt curtain in good condition for the duration of the works.

Furthermore, Contractor will be obliged to make good any damages on site resulting from his intervention.

Care will be taken so that machinery used does not leak. Contractor to have booms available to be used in case of accidents.

No loose material will be left on site uncovered.

Conclusion

Once all work has been completed, the site will be cleared from all the material, the silt curtain and hoarding removed and plant demobilized. Any damages to the interface will be made good before demobilization.

**Perit Janice Borg
Marine Section
MSW Unit**

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