

# COMMUNITY NEWSLETTER

Stornoway Port Authority  
Deep Water Terminal

July 2023

Issue 12



## Works undertaken in June

Works undertaken in June include:

- Installed 16 berthing dolphin piles
- Installed 28 tie rods and 55m of anchor walls to support the quay walls
- Continued placing blasted rock behind the quay walls
- Started to place rock armour along southern edge of reclamation area
- Continued crushing rock to create 120,000 tonnes of fine material needed to cover the terminal surface area
- Laid crushed rock over surface of access road and completed drainage ditches
- Installed three surface water drains under the link road to Arnish

## Berthing Dolphin construction



Berthing dolphin pile driving in progress

The berthing dolphin piles have been installed. The majority have been driven into seabed rock using a piling hammer attached to the crane. The remainder will be driven into rock in July. After this, rock anchors will be installed at the base of the piles to secure them to the seabed rock.

The next stage of the dolphin works is to install two steel bracing frames to the top of the dolphin piles. These braces connect the piles together and provide extra strength to the dolphin structure.

The bracing pieces arrived in Stornoway on 7th July. They measure 14m long by 4.2m high and needed a police escort on their early morning journey from the ferry terminal to Arnish Pier. They were lifted off their trailer using a 300 tonne crane. They will be taken to the dolphin on the floating barge.





## Work experience for local engineering student

Engineering student Ciaran Murray, from Tolsta, is spending his summer break working at the Deep Water Terminal site.

Ciaran is studying mechanical engineering at the University of Dundee. He has been assisting the site engineers to set out the tie rods, to survey piles and to keep quality control records.

Ciaran said "It's great to have hands-on experience and I'm learning a lot. I'm sure that this will help me to get a job when I finish my degree next year."



Long reach excavator on barge for removal of the Portugal wreck



Cutting tool to be used to cut up the Portugal wreck

## Removal of the Portugal wreck

Work to remove the remains of the Portugal wreck started in mid-July. The wreck will be cut into pieces using an underwater cutting tool attached to a long-reach excavator arm. The excavator will be mounted on a floating barge moored next to the wreck. The cut-up pieces will be recovered using a grab tool attached to a workboat and brought ashore. This work is expected to continue until the end of August.



Drilling rig for toe-pin rock sockets

## Linkspan berth piles secured to seabed rock

Due to the seabed rock being at high levels near the shore, 16 of the linkspan berth piles have been driven into the seabed rock.

Quinn Piling have started work to secure these piles. This is done by drilling a hole 4m deep and 700mm in diameter into the rock below the piles. A 6m long steel tube called a toe-pin is then inserted into the hole and covered with 6.5m of concrete. These toe-pins stop the piles from moving.

## Ongoing work in July

Work to be carried out in July includes:

- Complete berthing dolphin piling
- Install steel pins to tie base of linkspan quay piles into seabed rock
- Continue placement of blasted rock behind quay walls
- Start installation of concrete cover beams to top of quay wall piles
- Start removal of remaining parts of the Portugal wreck



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For more information about the project, or to discuss any concerns, please contact Project Manager, Chris Penman, on [mclh.5445@mclh.co.uk](mailto:mclh.5445@mclh.co.uk)



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