

Managing dredging operations in Ports – a Harbour Master's view

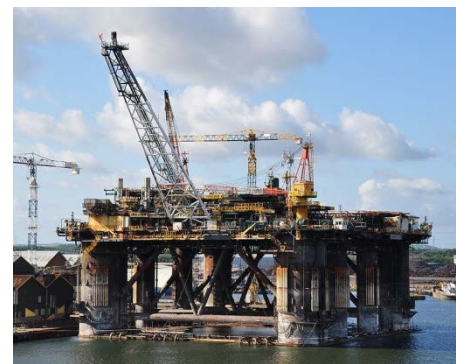
PORT
of
TYNE



WELCOME

ALAN McPHERSON

HARBOUR MASTER



SHIPS & COAL

OVER 60 DRY-DOCKS
AND SHIPYARDS ON THE
RIVER
UP TO 30 MILLION
TONNES OF COAL
EXPORTED ANNUALLY





1860-1920

TYNE IMPROVEMENT
COMMISSION DREDGED
150 MILLION TONNES
AND THE RIVER WAS
DEEPEMED FROM 6FT TO
30FT



PORT OF TYNE - 2013



Challenges

Regulatory-

- Licences, Sampling, Dredge Baseline Document

Practical-

- Maintenance Dredging
- Capital Dredging



10 year dredge licence granted in 2013
3 year sampling required (due 2016)
Update the Maintenance dredging
baseline document

Screening

Scoping

Sediment sample analysis

Habitats Regulations assessment (HRA)

any other work before you apply (charges attract VAT)

Challenges-Practical

Maintenance dredge

- Scheduling
- Contracts
- Surveying
- Emergencies



Challenges-Practical

Capital dredge

- Scheduling
- Contracts
- Surveying
- Emergencies



CAPITAL DREDGE-Case study-TT2 2009



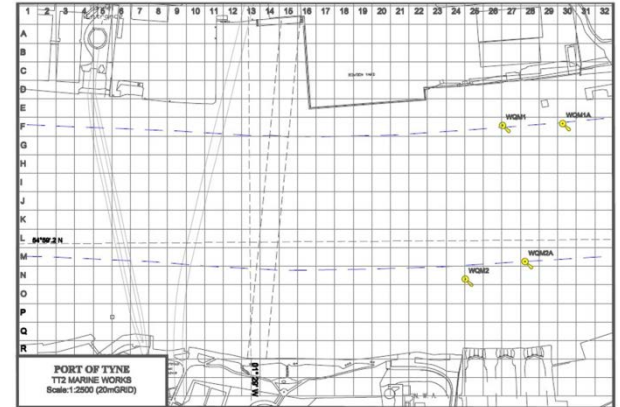
ISSUES

Blockage of channel
Transfer of dredge
material
Time



ISSUES

Arrival
Plans/Meetings
Nav Notices
Day-to-day
management



PORT OF TYNE
NAVIGATION NOTICE

Navigation Notice
No 10 of 2009
River Tyne – Tyne Tunnel 2 area
Restrictions to passage

Notice is hereby given that from 1st of November 2009, dredging operations and river works will commence in the area of the new Tyne Tunnel 2 (TT2) site. The area is from the south bank of the Tyne at Jarrow to the north bank opposite all wharves QJ. It is expected that the operation will be ongoing 24^{hrs} until the first week of January 2010.

The first part of the dredging program will be carried out using the cutter suction dredger 'Vesuvius'. The 'Vesuvius' is 30m LOA, and will have a 100m floating pipe from her stern to the shore at Cammell, Jarrow. She will be working from north to south for the first 4 weeks, and then heading north into river for work on wharves Q and R. The remainder of the dredging will be done by the spoil hopper barge 'Pinta'. In addition, there will be other river works involving barges and other craft in the area.

During the period of dredging operations and river works all commercial traffic wishing to transit the Tyne Tunnel 2 area will have to give at least 2 hours notice to Tyne VTB. An assessment on the channel width available on the day will be made by VTB. They will take into account:

- > the size and draft of the vessel wishing to transit
- > and the position of the 'Vesuvius' and associated craft, and the nature of the operations that day

If necessary the dredging operations at the TTY site will be suspended to allow passage. All vessels passing the area should do so at slow speed as is prudent.

For non-commercial traffic, the status of the channel should be verified by the boat owner prior to transiting the area by contacting Tyne VTB. VTB will be able to confirm any restrictions on that day. If restrictions are in place, there will be six openings a day available from 05:00 to 18:00 inclusive, on the even hour for 15 minutes duration. Small non-commercial craft should contact the 'Vesuvius' or associated vessels to confirm their wish to transit **within** the even hour. If on the designated hours there are no vessels willing to transit then the dredging operations will continue. Vessels that arrive late will then have to wait until the next available opening.

Further information may be obtained by contacting Tyne VTB on 0191 257 2000 or via F channel 'C'

Mike Nicholson
Harbour Master

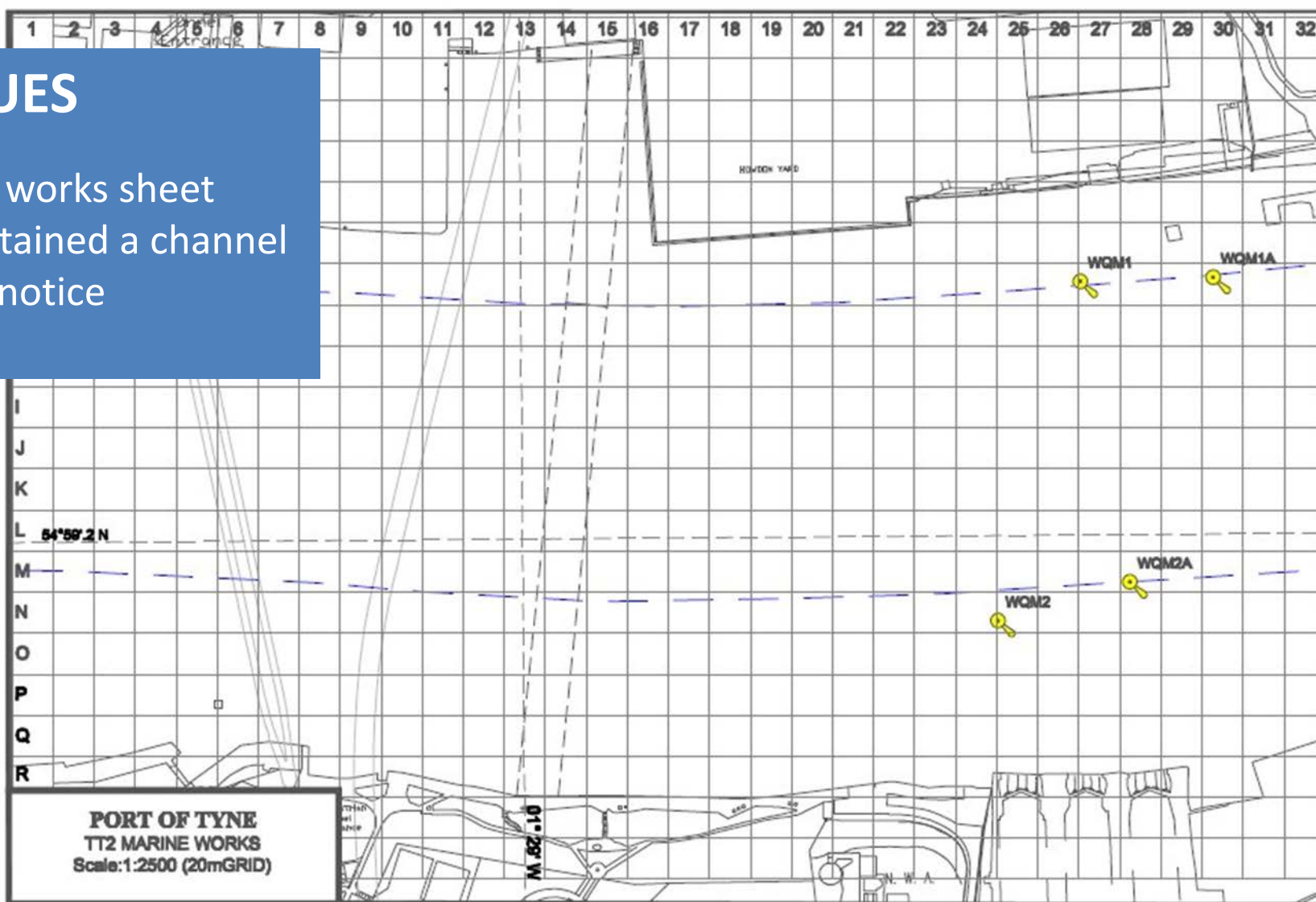
22nd October 2009

The following Port of Tyne Authority Navigation Notices remain in force:
Navigation Notice 'A' of 2006, 1, 3 & 7, 8 of 2009
All other Notices are hereby cancelled. Copies of notices are available from the Harbour Master, and are displayed on the Port of Tyne Authority website www.portoftyne.co.uk
Owners, Agents and Charterers should ensure that the true contents of the Navigation Notice are made known to Masters and persons in charge of their vessels.



ISSUES

Daily works sheet
Maintained a channel
with notice



ISSUES

Transfer of material



ISSUES

Transfer of material



Summary

Lots of challenges

Regulatory and
practical

Communication and
understanding



ANY QUESTIONS?



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