



Port Owen Marina Authority (NPC)

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Weekly dredge monitoring report

Dredge area 3B: Eastern Entrance was dredged between 7 and 10 May 2024 (hereafter referred to as “Week 1”). The stipulated conditions allowing for dredging and discharge from the settling dam include an outgoing current equal to or greater than $0.43 \text{ m}\cdot\text{s}^{-1}$ (equivalent to site specific $200 \text{ m}^3\cdot\text{s}^{-1}$), only between sunrise and sunset, and only on weekdays (excluding public holidays). Operational conditions for release require that dredging only occur when these parameters allowed for at least 1 hour of dredging to the river. As a result of these parameters, 4 dredge sessions could occur for Week 1 of May 2024. Dredging to the river occurred 4 times, dredging to the settling dam occurred 2 times, and discharge from the settling dam occurred 2 times (Table 1). For Week 1 of May 2024 a volume of 1059.5 m^3 was dredged from area 3B and blockages of the suction head occurred 2 times due to seaweed (Table 1).

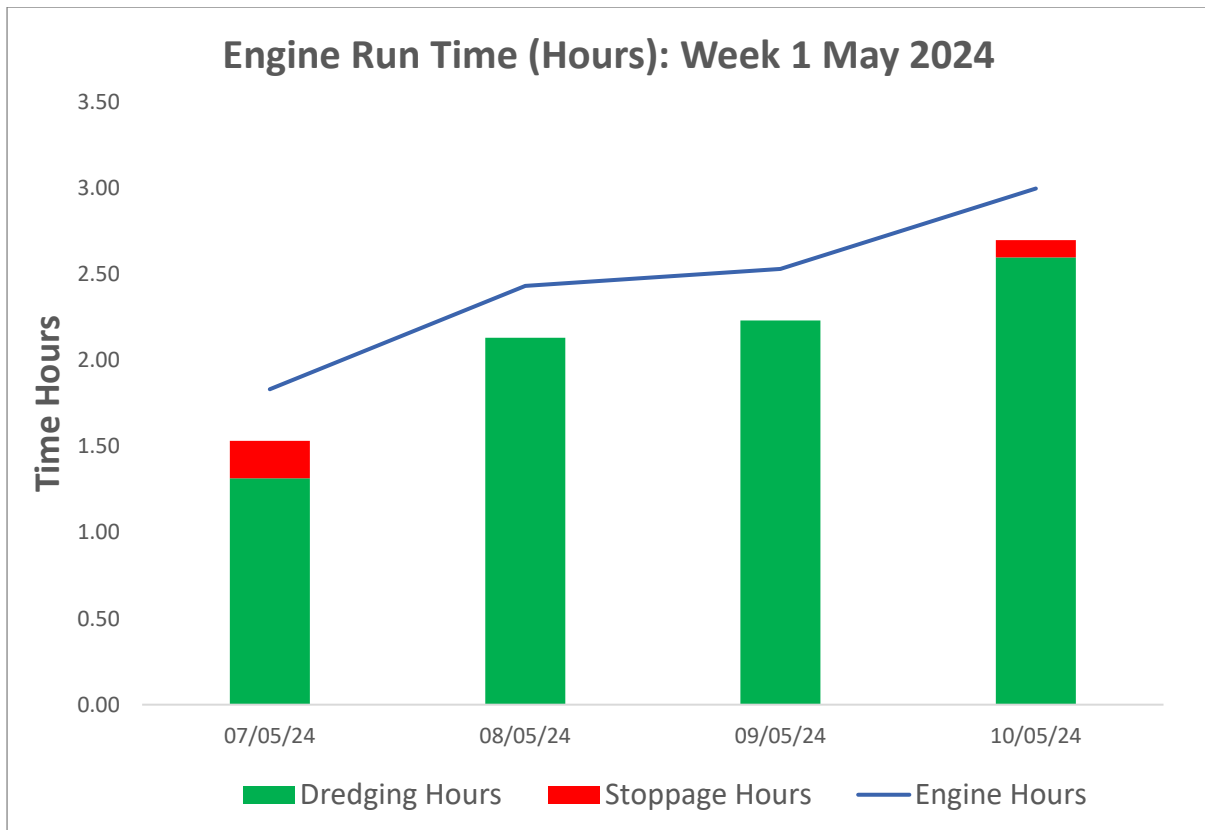
Table 1. Operational dredging variables.

Dredging of Dredge area 3B	Total
Allowable dredge sessions	4
Dredge sessions to river	4
Dredge sessions to settling dam	2
Release from settling dam	2
Dredge volume (m^3)	1059.5
Stop incidents (due to blockage)	2

A total engine run time of 9 hours and 48 minutes was achieved for Week 1 of May 2024 with a mean run time of 2 hours and 27 minutes per dredge session (Table 2). The mean dredge time achieved per session was 2 hours and 4 minutes, indicating 4 minutes of stoppage time due to blockages of the suction head (Table 2). The mean volume of dredge material discharged to the river and to the settling dam was 219.9 m^3 and 89.9 m^3 (respectively) per session (Table 2). The total volume discharged from the settling dam was 179.8 m^3 and a mean volume of 89.9 m^3 per discharge (Table 2).

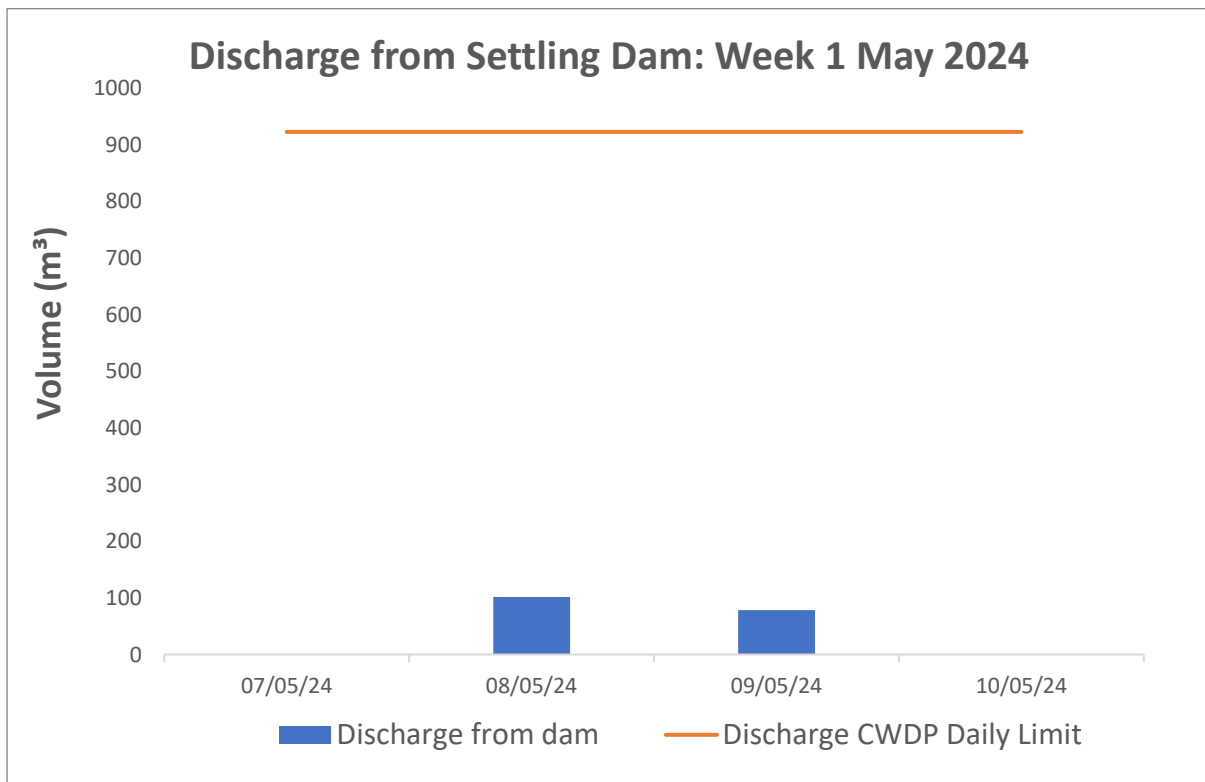
Table 2. Operational variables and means per dredge session.

Operational variables	Total	Mean (per session)
Engine time (h:min)	9:48	2:27
Dredge time (h:min)	8:17	2:04
Stoppage time (h:min)	0:19	0:04
Volume direct to river (m^3)	879.7	219.9
Volume to dam (m^3)	179.8	89.9
Volume from dam to river (m^3)	179.8	89.9



Daily discharge from the settling dam

Daily discharge from the settling dam did not exceed the CWDP limit of 923 m³.



River velocity

No river velocity recorded. Velocity meter propeller broke off and lost in the Berg river. Operating strictly according to tides table.

Table 3. Mean river velocity before, during, and after dredging.

River velocity	Mean (m.s ⁻¹)
Before dredging	0
During dredging	0
After dredging	0