

# Port Owen Marina Authority (NPC)

Reg # 1999/010199/08

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## Weekly dredge monitoring report

Dredge area 3B: Eastern Entrance was dredged between 22 and 26 July 2024 (hereafter referred to as "Week 2"). The stipulated conditions allowing for dredging and discharge from the settling dam include an outgoing current equal to or greater than 0.43 m.s<sup>-1</sup> (equivalent to site specific 200 m<sup>3</sup>.s<sup>-1</sup>), 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, 5 dredge sessions could occur for Week 2 of July 2024. Of which 1 dredge session, 22 July 2024, have been cancelled due to a dead dredger battery. Dredging to the river occurred 4 times, no dredging to and no discharge from the settling dam occurred (Table 1). For Week 2 of July 2024 a volume of 1771.9 m<sup>3</sup> was dredged from area 3B and no blockages of the suction head occurred.

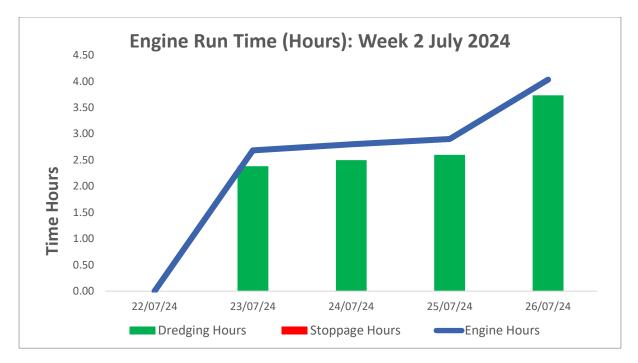
#### Table 1. Operational dredging variables.

Dredging of Dredge area 3B	Total
Allowable dredge sessions	5
Dredge sessions to river	4
Dredge sessions to settling dam	0
Release from settling dam	0
Dredge volume (m <sup>3</sup> )	1771.9
Stop incidents (due to blockage)	0

A total engine run time of 12 hours and 25 minutes was achieved for Week 2 of July 2024 with a mean run time of 3 hours and 6 minutes per dredge session (Table 2). The mean dredge time achieved per session was 2 hours and 48 minutes, indicating 0 stoppage time due to blockages of the suction head (Table 2). The mean volume of dredge material discharged to the river was 442.98 m<sup>3</sup> per session (Table 2).

 Table 2. Operational variables and means per dredge session.

Operational variables	Total	Mean (per session)
Engine time (h:min)	12:25	3:06
Dredge time (h:min)	11:13	2:48
Stoppage time (h:min)	0	0
Volume direct to river (m <sup>3</sup> )	1771.9	442.98
Volume to dam (m <sup>3</sup> )	0	0
Volume from dam to river (m <sup>3</sup> )	0	0



## Daily discharge from the settling dam

Dam not functional due to being full of settled sediment.

### **River velocity**

Mean river velocity recorded before, during, and after dredging remained within the allowable parameter (above 0.43 m.s-1) for Week 2 of July 2024 dredging (Table 3).

River velocity	Mean (m.s <sup>-1</sup> )
Before dredging	0.78
During dredging	0.82
After dredging	0.89

