

Sediment Management Plan: Draft Dredging Programme 2015/16
Report by Senior Waterways and Recreation Officer

Summary: This report provides members with details of the Authority's most recent assessment of priority dredging sites and the proposed dredging programme for 2015/16. Members' comments are welcomed.

Recommendation: That members note the contents of the report.

1 Background

- 1.1 Members will recall that in May 2014 the Broads Authority supported the adoption of a new methodology for assessing waterway specification compliance and prioritising future dredging operations. At that time the results from a number of post dredge hydrographic survey were still awaited and officers undertook to bring a further report to the Authority once these survey results had been assessed setting out the priority sites for future dredging operations and a proposed dredging programme for the year 2015/16.
- 1.2 This report provides members with a summary of the most up to date analysis of hydrographic survey data available and also takes account of a number of minor adjustments to mean high water levels in relation to Ordnance Datum.

2 Waterway Specification Compliance Summary

- 2.1 Table 1 summarises the waterway specification compliance assessment which has been used to inform future dredging priorities and the proposed dredging programme for 2015/16.

Table 1

*	Non Compliant Volume m ³	Economically Dredgable Volume m ³	% Non compliant (SA)	% Eco Dredgable (SA)
River Ant	144,668	101,613	52.72	19.97
River Bure	242,047	199,689	29.21	14.60
River Chet	11,953	10,019	38.26	22.64
River Thurne	423,548	276,075	80.09	35.26
River Waveney	79,447	65,949	8.16	4.44
River Yare	135,874	115,605	13.89	6.95
TOTAL	1,037,540.56	768,951.68	32.32	14.72

3 Future Dredging Programme

- 3.1 Analysis of the hydrographic survey data enables a detailed assessment of the dredging requirements in individual management units to be undertaken to the extent that precise areas and quantities of economically removable sediment can be identified.
- 3.2 However, Waterway Specification Compliance is not the sole deciding factor in determining where dredging operations should be programmed. Issues such as availability of disposal sites, the level and type of boat use in particular areas, the cost of sediment removal per cubic metre and unresolved safety incidents are also considered by officers in developing the future dredging programme.
- 3.3 Having modelled the most up to date hydrographic survey data officers have identified an initial list of priority sites for dredging operations in the coming years and this is shown at Table 2.

Table 2 Initial List of Priority Sites

Management Unit	% Non-Compliant (SA)	% Economically Dredgable	Economically Dredgable Volume m ³
Slaughterhouse Yard to Bure Mouth	72	48	19,182
Ant Barton Broad to Ludham Bridge	67	26	17,008
Mautby Marsh Mill to Slaughterhouse Yard	57	42	63,131
Barton Broad	51	9	12,023
Heigham Sound	84	39	9,511
Haddiscoe Cut	45	30	22,096
Hickling Broad (channel)	99	45	23,750
Limekiln Dyke	69	54	3,325
Coltishall Common to Juby's farm	64	34	15,564
Catfield Dyke	80	72	4,769
Total m ³			190,359

- 3.4 While being led by an analysis of the modelled survey data and consideration of the other factors mentioned at paragraph 3.2 such as level of use more localised issues identified by experience, information received from users and physical sounding are also taken into account when formulating the annual dredging programme. The identification of reuse and disposal options for dredged sediment also dictates when individual management units can be programmed. Table 3 sets out the proposed dredging programme for the financial year 2015/6.

Table 3 Proposed Dredging Programme for 2015/16

Dredge Area	Estimated volume (m³)
River Bure Three Mile House to Marina Keys	10,000
River Bure Acle bridge to Stokesby	7,000
Oulton Broad	10,000
River Ant Limekiln Dyke	3,500
River Yare Berney Arms to Seven Mile House	5,000
River Yare Whitlingham Bends	4,500
Upper Thurne Hickling Broad (Phase 1)	5,000
Upper Thurne Catfield Dyke	5,000
TOTAL	50,000

4 Conclusions

- 4.1 As can be seen from Table 3 the proposed dredging programme for 2015/16 will achieve the Authority's target of removing 50,000m³ and start to deal with some of the priority sites identified in Table 2. The ongoing programme of hydrographic survey and modelling will continue to progressively update this information. During 2015 post dredge surveys will be undertaken and incorporated and recent survey data from the River Yare and River Wensum will be modelled. This report was considered by the Navigation Committee at its meeting on 11 December. Members welcomed the report, supported the proposed priority sites for dredging and the programme for 2015/16. Members' comments are welcomed.

Background papers: Nil

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Date of report: 8 January 2015

Broads Plan Objectives: NA1

Appendices: None