

North East Kent Scientific Coastal Advisory Group

Current Account

A Register of the Distribution, Impact and Control of Selected Non-Native Species within the Inter-Tidal Zone of the North East Kent Marine Protected Areas.

Issue 4: December 2022

Willie McKnight



Pacific Oyster reef. Epple Bay, Birchington

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Current Account

1. Introduction

1. Introduction

Aim

The aim of this project is to set up and maintain an ongoing process to record the distribution, impact and control of selected Non Native Species within the inter-tidal zone of the NEKMPA thereby enabling the Management Group to make informed decisions regarding species management.

The Register

The prime function of the register is to provide the NEKMPA Management Group and the MPA officer with a summary of the condition of the NEKMPA inter-tidal zone in terms of the distribution, impact and control of selected Non Native Species. In addition, open access to the register is made available on-line to interested organizations and individuals via the NEKMPA website: www.thanetcoast.org.uk
Contact MPA Officer Tony Child: tony.child@thanet.gov.uk

Register Management

The register is issued and maintained under documentation control by NEKSCAG and is an agenda item included in the Non Native Species section of NEKSCAG meetings. This provides an opportunity to discuss progress, make adjustments to the process and add or remove selected species. The register is managed on behalf of NEKSCAG by Willie McKnight. The process is “future proof” to facilitate the inclusion of additional new arrivals selected by NEKSCAG.

Frequency

To launch the project, Issue 1 of the register contains baseline and control data for 5 Non Native Species selected by Natural England in 2011. These are:

- Pacific Oyster *Magallana gigas*
- Wireweed *Sargassum muticum*
- Carpet Sea Squirt *Didemnum vexillum*
- Chinese Mitten Crab *Eriocheir sinensis*
- Wakame *Undaria pinnatifida*

The register is updated and re-issued annually on December 31st. New issues include field data updates and amendments approved by NEKSCAG during the current year. Previous issues are archived on the Thanet Coast Project website to provide access to historic data.

Data

To ensure the integrity of the data, the register is compiled entirely with survey data recorded in compliance with the methodology stated in Natural England’s Non Native Species project which was launched within the NEKMPA in 2011. Field data must therefore be gathered by surveyors who have attended the associated Non Native Species training course. All surveys are conducted using standard approved methodology. Survey data is therefore quantifiable, evidence based and auditable to its source. Control data is sourced from Coastbusters volunteers (Natural England and KWT teams). Observations reported from non-trained sources are filtered initially by the MPA officer. Those considered viable are then raised at NEKSCAG meetings for assessment and possible field survey.

1. Introduction

Summary of field work completed in 2022.

Coastbusters

No Coastbusters field events occurred in 2022 as supervision by Natural England was not available. In 2022 all control work was conducted solely by the author. Hence this year's low annual total.

Current Account Section 2: Distribution and Impact by Selected Non-Native Species.

No surveys were completed in 2022. Data in Section 2 of the Current Account are therefore unchanged since 2019. For baseline details see Section 2, Current Account issue 1, December 2019.

Current Account Section 3: Distribution and Impact by NEKMPA Sections.

No surveys were completed in 2022. Data in Section 3 of the Current Account are therefore unchanged since 2019. For baseline details see Section 3, Current Account issue 1, December 2019.

Current Account Section 4: Control of Selected Non-Native Species.

Pacific Oyster:

In 2022 a total of 6864 oysters was removed and 26.5 manhours were spent onsite.

Wireweed:

In 2022 no Wireweed control took place due to ongoing issues around waste disposal.

Current Account Section 5: Summary of Management Group Action Points for Non-Native Species.

There were no Management Group or NEKSCAG meetings held during 2022 due to ongoing Covid issues.

The MPA manager produced a draft NEKMPA Management Scheme Action Plan which contains Non-native Species elements.

Current Account

2. Distribution and Impact by Selected Non Native Species



Undaria pinnatifida



Didemnum vexillum



Eriocheir sinensis



Sargassum muticum



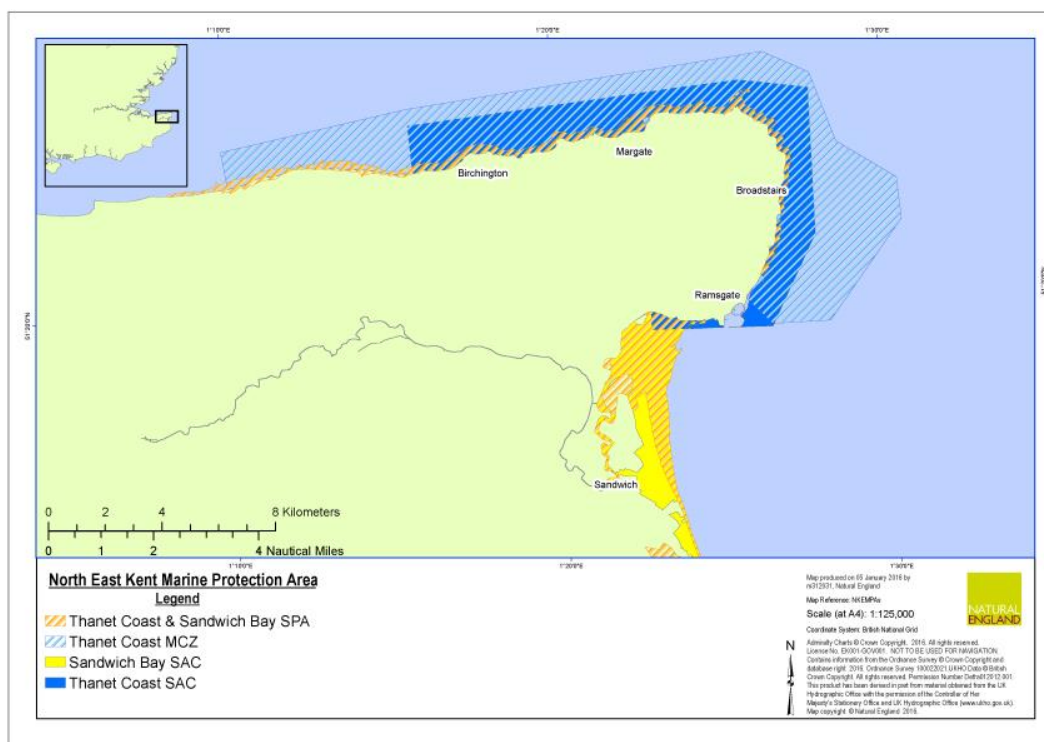
Magallana gigas

Current Account Section 2: Distribution and Impact by Selected Non-Native Species.

No surveys were completed in 2022. Data in Section 2 of this Current Account are therefore unchanged since 2019. For baseline details see Section 2, Current Account Issue 1, December 2019.

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3. Distribution and Impact by NEKMPA Sections



Current Account Section 3: Distribution and Impact by NEKMPA Section.

No surveys were completed in 2022. Data in Section 3 of this Current Account are therefore unchanged since 2019. For baseline details see Section 3, Current Account Issue 1, December 2019 where details of each NEKMPA Section is shown. An example (Section 1) follows on page 3.2 of this document. A similar report is recorded for all 46 NEKMPA sections.

3. Example of Distribution and Impact by NEKMPA Section

using NEKMPA Section 1 baseline data.

Section 1: OS Sheet TR Eastings 13000 to 13999

29th Oct. 2011

Magallana gigas is present across the expanse of the site and continues east into Section 2. Attachment is on flint and drift shells. Oysters are scattered singly or at low density except on concrete spoil and the outflow pipe in the lower shore where peak density reaches 32/m². Scattered spat was seen along the northern edge of the spit. This section is low density but large area.

Didemnum vexillum drift was present at the low water line around the perimeter of Long Rock spit attached to drift *Plocamium cartilagineum* suggesting source was sub-littoral. Within an 80m stretch I counted 22 drift items. This ranged from small blobs (5mm) up to patches reaching 150mm. Similar drift was present along the strand line on the upper shore. D.vex was also present on several submerged and semi-submerged clay boulders along the northern edge of the spit. Peak density was found at the seaward end of a metal outflow pipe (approx. 600mm diameter) in the lower shore zone. Attachment was found on the eastside + westside + underside. In places this formed thin latex like sheets on the vertical faces of timber supports.

Sargassum muticum was found attached to stable flint cobbles along the northern edge of the Long Rock spit. All specimens were < 300mm which may indicate recent settlement. Drift was seen across the section.

Table 3.1 shows Impact Factor scoring for Section 1.

Table 3.1 Impact Factor scoring for Section 1.

| Section 1 29.10.11 | Peak Density Score | Area Affected Score | Substrate Chalk Score | Substrate Sediment Score | Substrate Flint Score | Substrate Fauna Score | Substrate Algae Score | Substrate Man-made Score | Substrate Native sp Score | Impact Factor |
|-----------------------|--------------------------|---------------------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|---------------------------------|------------------|
| Site 1.1 Mg | 8 | 12 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 22 |
| Site 1.2 Sm | 2 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 11 |
| Site 1.3 Dv | 8 | 8 | 0 | 2 | 0 | 0 | 2 | 1 | 8 | 29 |
| Site 1.4 Dv | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 8 |
| Site 1.5 Sm | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Section Total | 20 | 30 | 0 | 2 | 3 | 0 | 4 | 2 | 12 | 73 |

Table 3.2 shows the location of sites within Section 1.

Table 3.2 Location of sites within Section 1.

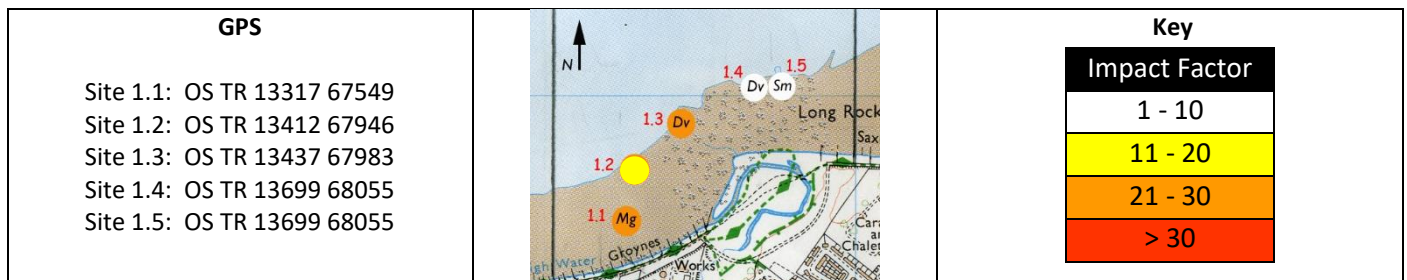


Figure 3.1 shows an Impact Factor comparison between species within the section.

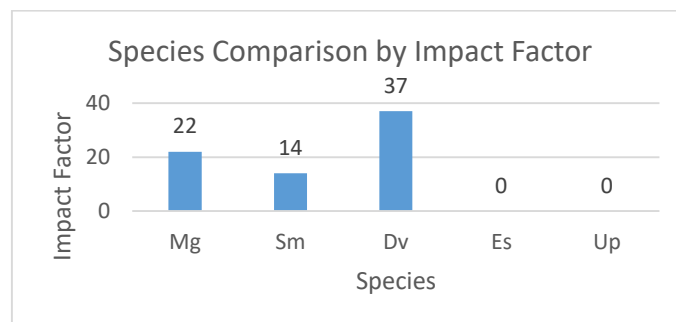


Figure 3.1 Species comparison by Impact Factor

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4. Control of Selected Non Native Species



Magallana gigas control



Sargassum muticum control

4. Control of Selected Non Native Species.

Annual Progress. All Selected Species.

Table 4.1 shows control progress per year / project phase.

Table 4.1: Annual Progress

| Natural England Team | | | | | | | | | | |
|--|---------------|-----------------|------------------------|----|----|----|---|---|---|---|
| Period | Mg (Shore) | Mg (Harbour) | Sm (Kg. Wet Weight) | Dv | Es | Up | | | | |
| Pilot 23.03.2011 04.02.2012 Phase 5 | 40196 | 0 | 0 | 0 | 0 | 0 | | | | |
| Trial 06.07.2012 29.06.2013 Phase 6 & 7 | 35740 | 0 | 0 | 0 | 0 | 0 | | | | |
| Post Trial 20.1.2014 05.03.2014 Phase 7 | 7153 | 0 | 0 | 0 | 0 | 0 | | | | |
| 01.04.2014 31.03.2015 Phase 8 | 29299 | 0 | 0 | 0 | 0 | 0 | | | | |
| 01.04.2015 31.03.2016 Phase 9 | 59675 | 0 | 55.31 | 0 | 0 | 0 | | | | |
| 01.04.2016 31.03.2017 Phase 10 | 29450 | 0 | 0 | 0 | 0 | 0 | | | | |
| 01.04.2017 31.03.2018 Phase 11 | 33067 | 1259 | 0 | 0 | 0 | 0 | | | | |
| 01.04.2018 31.03.2019 Phase 12 | 30960 | 2926 | 346.86 | 0 | 0 | 0 | | | | |
| 01.04.2019 31.12.2019 Phase 13 | 23724 | 968 | 850.36 | 0 | 0 | 0 | | | | |
| 01.01.2020 31.12.2020 Phase 14 | 28078 | 0 | 0 | 0 | 0 | 0 | | | | |
| 01.01.2021 31.12.2021 Phase 15 | 48705 | 482 | 131.5 | 0 | 0 | 0 | | | | |
| 01.01.2022 31.31.2022 Phase 16 | 6842 | 22 | 0 | 0 | 0 | 0 | | | | |
| Total | 372889 | 5657 | 1384.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| KWT Team | | | | | | | | | | |
|--|---------------|-----------------|------------------------|----|----|----|--|--|--|--|
| Period | Mg (Shore) | Mg (Harbour) | Sm (Kg. Wet Weight) | Dv | Es | Up | | | | |
| Pilot 23.03.2011 04.02.2012 Phase 5 | | | | | | | | | | |
| Trial 06.07.2012 29.06.2013 Phase 6 & 7 | | | | | | | | | | |
| Post Trial 20.1.2014 05.03.2014 Phase 7 | | | | | | | | | | |
| 01.04.2014 31.03.2015 Phase 8 | | | | | | | | | | |
| 01.04.2015 31.03.2016 Phase 9 | | | | | | | | | | |
| 01.04.2016 31.03.2017 Phase 10 | | | | | | | | | | |
| 01.04.2017 31.03.2018 Phase 11 | | | | | | | | | | |
| 01.04.2018 31.03.2019 Phase 12 | | | | | | | | | | |
| 01.04.2019 31.12.2019 Phase 13 | | | | | | | | | | |
| 01.01.2020 31.12.2020 Phase 14 | | | | | | | | | | |
| 01.01.2021 31.12.2021 Phase 15 | | | | | | | | | | |
| 01.01.2022 31.31.2022 Phase 16 | | | | | | | | | | |

4. Control of Selected Non Native Species.

Magallana gigas

Table 4.2 shows *Magallana gigas* control data since Natural England commissioned a control pilot in 2011. This was followed by the launch of Natural England's Coastbusters volunteer team in 2012 and in 2018 KWT launched their Coastbusters team. Oysters removed are counted by individual specimen. Only live, attached, oysters are counted. Changes this year shown in Red.

Table 4.2 *Magallana gigas* control data since control launch in 2011

| Natural England Team | | | | | KWT Team | | | | |
|----------------------|------------|-------------|------------------|-----------------------|----------------|------------|-------------|------------------|-----------------------|
| NEKMPA Section | Mg Removed | Mg Manhours | Mg H&S Incidents | Mg Chalk Reef Impacts | NEKMPA Section | Mg Removed | Mg Manhours | Mg H&S Incidents | Mg Chalk Reef Impacts |
| 1 | | | | | 1 | | | | |
| 2 | | | | | 2 | | | | |
| 3 | | | | | 3 | | | | |
| 4 | | | | | 4 | | | | |
| 5 | | | | | 5 | | | | |
| 6 | | | | | 6 | | | | |
| 7 | | | | | 7 | | | | |
| 8 | | | | | 8 | | | | |
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| 10 | | | | | 10 | | | | |
| 11 | | | | | 11 | | | | |
| 12 | | | | | 12 | | | | |
| 13 | | | | | 13 | | | | |
| 14 | | | | | 14 | | | | |
| 15 | | | | | 15 | | | | |
| 16 | | | | | 16 | | | | |
| 17 | | | | | 17 | | | | |
| 18 | | | | | 18 | | | | |
| 18 | | | | | 19 | | | | |
| 20 | | | | | 20 | | | | |
| 21 | | | | | 21 | | | | |
| 22 | | | | | 22 | | | | |
| 23 | | | | | 23 | | | | |
| 24 | | | | | 24 | | | | |
| 25 | | | | | 25 | | | | |
| 26 | 5848 | 59.5 | 0 | 2 | 26 | | | | |
| 27 | 13195 | 76.2 | 0 | 5 | 27 | | | | |
| 28 | 3917 | 80.75 | 0 | 3 | 28 | | | | |
| 29 | | | | | 29 | | | | |
| 30 | | | | | 30 | | | | |
| 31 | 3140 | 20 | 0 | 1 | 31 | | | | |
| 32 | 367 | 4.25 | 0 | 8 | 32 | | | | |
| 33 | 143 | 4.5 | 0 | 0 | 33 | | | | |
| 34 Harbour | 5657 | 93.25 | 1 | 0 | 34 Harbour | | | | |
| 35 | 283868 | 1060.25 | 3 | 40 | 35 | | | | |
| 36 | 58077 | 281.25 | 0 | 5 | 36 | | | | |
| 37 | 4334 | 26.25 | 0 | 0 | 37 | | | | |
| 38 | | | | | 38 | | | | |
| 39 | | | | | 39 | | | | |
| 40 | | | | | 40 | | | | |
| 41 | | | | | 41 | | | | |
| 42 | | | | | 42 | | | | |
| 43 | | | | | 43 | | | | |
| 44 | | | | | 44 | | | | |
| 45 | | | | | 45 | | | | |
| 46 | | | | | 46 | | | | |
| Total | 378546 | 1706.2 | 4 | 64 | Total | | | | |

4. Control of Selected Non Native Species.

Sargassum muticum

Table 4.3 shows *Sargassum muticum* control data since Natural England commissioned a control pilot in 2011. This was followed by the launch of Natural England's Coastbusters volunteer team in 2012 and in 2018 KWT launched their Coastbusters team. *Sargassum* removed is counted by wet weight (kg). Only live, attached, specimens are counted. Changes this year shown in Red.

Table 4.3 *Sargassum muticum* control data since control launch in 2011.

| Natural England Team | | | | | KWT Team | | | | |
|----------------------|---------------|-------------|------------------|-----------------------|----------------|---------------|-------------|------------------|-----------------------|
| NEKMPA Section | Sm Removed Kg | Sm Manhours | Sm H&S Incidents | Sm Chalk Reef Impacts | NEKMPA Section | Sm Removed Kg | Sm Manhours | Sm H&S Incidents | Sm Chalk Reef Impacts |
| 1 | | | | | 1 | | | | |
| 2 | | | | | 2 | | | | |
| 3 | | | | | 3 | | | | |
| 4 | | | | | 4 | | | | |
| 5 | | | | | 5 | | | | |
| 6 | | | | | 6 | | | | |
| 7 | | | | | 7 | | | | |
| 8 | | | | | 8 | | | | |
| 9 | | | | | 9 | | | | |
| 10 | | | | | 10 | | | | |
| 11 | | | | | 11 | | | | |
| 12 | | | | | 12 | | | | |
| 13 | | | | | 13 | | | | |
| 14 | | | | | 14 | | | | |
| 15 | | | | | 15 | | | | |
| 16 | 55.3 | 7.5 | 0 | 0 | 16 | | | | |
| 17 | | | | | 17 | | | | |
| 18 | | | | | 18 | | | | |
| 18 | | | | | 19 | | | | |
| 20 | | | | | 20 | | | | |
| 21 | | | | | 21 | | | | |
| 22 | | | | | 22 | | | | |
| 23 | | | | | 23 | | | | |
| 24 | | | | | 24 | | | | |
| 25 | | | | | 25 | | | | |
| 26 | | | | | 26 | | | | |
| 27 | | | | | 27 | | | | |
| 28 | | | | | 28 | | | | |
| 29 | | | | | 29 | | | | |
| 30 | | | | | 30 | | | | |
| 31 | 1197.22 | 46.5 | 0 | 0 | 31 | | | | |
| 32 | | | | | 32 | | | | |
| 33 | | | | | 33 | | | | |
| 34 Harbour | | | | | 34 Harbour | | | | |
| 35 | 131.5 | 8.5 | | | 35 | | | | |
| 36 | | | | | 36 | | | | |
| 37 | | | | | 37 | | | | |
| 38 | | | | | 38 | | | | |
| 39 | | | | | 39 | | | | |
| 40 | | | | | 40 | | | | |
| 41 | | | | | 41 | | | | |
| 42 | | | | | 42 | | | | |
| 43 | | | | | 43 | | | | |
| 44 | | | | | 44 | | | | |
| 45 | | | | | 45 | | | | |
| 46 | | | | | 46 | | | | |
| Total | 1384.02 | 62.5 | 0 | 0 | Total | | | | |

4. Control of Selected Non Native Species.

Didemnum vexillum

Best practices for *Didemnum vexillum* control have not yet been designed or agreed with Natural England. No control measures have therefore been undertaken. This is reflected in Table 4.4.

Table 4.4 *Didemnum vexillum* control data since control launch in 2011.

| Natural England Team | | | | | KWT Team | | | | |
|----------------------|---------------|-------------|------------------|-----------------------|----------------|---------------|-------------|------------------|-----------------------|
| NEKMPA Section | Dv Removed Kg | Dv Manhours | Dv H&S Incidents | Dv Chalk Reef Impacts | NEKMPA Section | Dv Removed Kg | Dv Manhours | Dv H&S Incidents | Dv Chalk Reef Impacts |
| 1 | | | | | 1 | | | | |
| 2 | | | | | 2 | | | | |
| 3 | | | | | 3 | | | | |
| 4 | | | | | 4 | | | | |
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| 30 | | | | | 30 | | | | |
| 31 | | | | | 31 | | | | |
| 32 | | | | | 32 | | | | |
| 33 | | | | | 33 | | | | |
| 34 Harbour | | | | | 34 Harbour | | | | |
| 35 | | | | | 35 | | | | |
| 36 | | | | | 36 | | | | |
| 37 | | | | | 37 | | | | |
| 38 | | | | | 38 | | | | |
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| 43 | | | | | 43 | | | | |
| 44 | | | | | 44 | | | | |
| 45 | | | | | 45 | | | | |
| 46 | | | | | 46 | | | | |
| Total | | | | | Total | | | | |

4. Control of Selected Non Native Species.

Eriocheir sinensis

Best practices for *Eriocheir sinensis* control have not yet been designed or agreed with Natural England. No control measures have therefore been undertaken. This is reflected in Table 4.5.

Table 4.5 *Eriocheir sinensis* control data since control launch in 2011.

| Natural England Team | | | | | KWT Team | | | | |
|----------------------|------------|-------------|------------------|-----------------------|----------------|------------|-------------|------------------|-----------------------|
| NEKMPA Section | Es Removed | Es Manhours | Es H&S Incidents | Es Chalk Reef Impacts | NEKMPA Section | Es Removed | Es Manhours | Es H&S Incidents | Es Chalk Reef Impacts |
| 1 | | | | | 1 | | | | |
| 2 | | | | | 2 | | | | |
| 3 | | | | | 3 | | | | |
| 4 | | | | | 4 | | | | |
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| 32 | | | | | 32 | | | | |
| 33 | | | | | 33 | | | | |
| 34 Harbour | | | | | 34 Harbour | | | | |
| 35 | | | | | 35 | | | | |
| 36 | | | | | 36 | | | | |
| 37 | | | | | 37 | | | | |
| 38 | | | | | 38 | | | | |
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| 43 | | | | | 43 | | | | |
| 44 | | | | | 44 | | | | |
| 45 | | | | | 45 | | | | |
| 46 | | | | | 46 | | | | |
| Total | | | | | Total | | | | |

4. Control of Selected Non Native Species.

Undaria pinnatifida

Best practices for *Undaria pinnatifida* control have not yet been designed or agreed with Natural England. No control measures have therefore been undertaken. This is reflected in Table 4.6.

Table 4.6 *Undaria pinnatifida* control data since control launch in 2011

| Natural England Team | | | | | KWT Team | | | | |
|----------------------|---------------|-------------|------------------|-----------------------|----------------|---------------|-------------|------------------|-----------------------|
| NEKMPA Section | Up Removed Kg | Up Manhours | Up H&S Incidents | Up Chalk Reef Impacts | NEKMPA Section | Up Removed Kg | Up Manhours | Up H&S Incidents | Up Chalk Reef Impacts |
| 1 | | | | | 1 | | | | |
| 2 | | | | | 2 | | | | |
| 3 | | | | | 3 | | | | |
| 4 | | | | | 4 | | | | |
| 5 | | | | | 5 | | | | |
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| 30 | | | | | 30 | | | | |
| 31 | | | | | 31 | | | | |
| 32 | | | | | 32 | | | | |
| 33 | | | | | 33 | | | | |
| 34 Harbour | | | | | 34 Harbour | | | | |
| 35 | | | | | 35 | | | | |
| 36 | | | | | 36 | | | | |
| 37 | | | | | 37 | | | | |
| 38 | | | | | 38 | | | | |
| 39 | | | | | 39 | | | | |
| 40 | | | | | 40 | | | | |
| 41 | | | | | 41 | | | | |
| 42 | | | | | 42 | | | | |
| 43 | | | | | 43 | | | | |
| 44 | | | | | 44 | | | | |
| 45 | | | | | 45 | | | | |
| 46 | | | | | 46 | | | | |
| Total | | | | | Total | | | | |

Current Account

5. Summary of Management Group Action Points for Non Native Species

There were no Management Group or NEKSCAG meetings held during 2022 due to ongoing Covid issues. However, in 2021 the MPA officer produced a draft NEKMPA Management Scheme Action Plan 2019-2024. The following Non-native Species related actions are copied from the draft plan:

1. Non-native species survey: Update baseline survey to investigate spread of invasive species.
2. Non-native species management: Use Non-native species survey (that identifies 5 species currently posing the greatest threat across the NEKMPA) to discuss and direct management measures to targeting locations for active management of invasive species. Pacific Oysters (*Magallana gigas*) and Wire weed (*Sargassum muticum*).
3. Monitor the spread of Carpet Sea Squirt (*Didemnum vexillum*) across the NEKMPA and follow up to discuss if any management measures are required.
4. Continue to implement and monitor the agreed management measures for Pacific Oysters within the NEKMPA with the help of volunteers/NEKMPA Coastal Wardens/Guardians.
5. Identify and trial control management measures to remove Wireweed (*Sargassum muticum*) within identified sections of the NEKMPA with the help of volunteers/NEKMPA Coastal Wardens/Guardians.

Current Account

Appendix A Description of Selected Non Native Species

Current Account

Appendix B Location of NEKMPA Sections

Appendix B. Location of NEKMPA Sections

Table B.1 shows the 1 km boundaries and locations of the 46 NEKMPA inter-tidal sections using Ordnance Survey Eastings and Northings derived from OS Sheet TR.

Table B.1 Boundaries and locations of NEKMPA inter-tidal sections.

| Section Number | OS TR Eastings | OS TR Northings | Aspect | Thanet Coast Project Equivalent Section |
|----------------|----------------|-----------------|--------|--|
| 1 | 13000 to 13999 | | N | Section 1: Swalecliffe |
| 2 | 14000 to 14999 | | N | Section 1: Swalecliffe |
| 3 | 15000 to 15999 | | N | Section 1: Swalecliffe |
| 4 | 16000 to 16999 | | N | Excluded from NEKEMS |
| 5 | 17000 to 17999 | | N | Excluded from NEKEMS |
| 6 | 18000 to 18999 | | N | Section 7: Bishopstone |
| 7 | 19000 to 19999 | | N | Section 7: Bishopstone |
| 8 | 20000 to 20999 | | N | Section 8A: Reculver West |
| 9 | 21000 to 21999 | | N | Section 8B: Reculver East |
| 10 | 22000 to 22999 | | N | Section 9A: Reculver to Coldharbour |
| 11 | 23000 to 23999 | | N | Section 9A: Reculver to Coldharbour |
| 12 | 24000 to 24999 | | N | Section 9A: Reculver to Coldharbour |
| 13 | 25000 to 25999 | | N | Section 9B: Coldharbour |
| 14 | 26000 to 26999 | | N | Section 9C: Plumpudding |
| 15 | 27000 to 27999 | | N | Section 10: Minnis Bay West |
| 16 | 28000 to 28999 | | N | Section 11A: Minnis Bay East |
| 17 | 29000 to 29999 | | N | Section 11B+11C: Grenham + Beresford |
| 18 | 30000 to 30999 | | N | Section 12A: Epple Bay |
| 19 | 31000 to 31999 | | N | Section 12B + 13: Epple + Westgate |
| 20 | 32000 to 32999 | | N | Section 14+15: Westgate + St Mildreds |
| 21 | 33000 to 33999 | | N | Section 16+17: St Mildreds + Westbrook Bay |
| 22 | 34000 to 34999 | | N | Section 18+19A: Nayland Rock + Margate Bay |
| 23 | 35000 to 35999 | | N | Section 19B+20A: Margate Harbour + Fulsam Rock |
| 24 | 36000 to 36999 | | N | Section 20B+20C: Newgate Gap + Walpole Bay |
| 25 | 37000 to 37999 | | N | Section 21A: Palm Bay |
| 26 | 38000 to 38999 | | N | Section 21B+21C: Foreness Bay/Point & Foreness to Botany |
| 27 | 39000 to 39999 | | N | Section 21D+21E: Botany Bay + Whiteness |
| 28 | | 70000 to 70999 | E | Section 21F+22A: Kingsgate Bay & Joss Bay |
| 29 | | 69000 to 69999 | E | Section 22B: North Foreland |
| 30 | | 68000 to 68999 | E | Section 22C+22D: Stone Bay + Broadstairs East Cliff |
| 31 | | 67000 to 67999 | E | Section 22E+23A: Viking Bay + Louisa Bay |
| 32 | | 66000 to 66999 | E | Section 23B+23C: Dumpton Point + Dumpton Gap |
| 33 | | 65000 to 65999 | E | Section 23D+24: Winterstoke + Ramsgate Main Sands |
| 34 | | 64000 to 64999 | SE | Section 24+25: Ramsgate Sands & Harbour |
| 35 | 37000 to 37999 | | S | Section 26: Western Undercliff |
| 36 | 36000 to 36999 | | S | Section 26 and 27: Western Undercliff to Pegwell |
| 37 | 34500 to 35999 | | S | Section 28: Pegwell Country Park & Saltmarsh |
| 38 | | 62000 to 62999 | E | Section 30A: Sandwich Bay North |
| 39 | | 61000 to 61999 | E | Section 30A: Sandwich Bay North |
| 40 | | 60000 to 60999 | E | Section 30A: Sandwich Bay North |
| 41 | | 59000 to 59999 | E | Section 30B: Sandwich Bay Mid |
| 42 | | 58000 to 58999 | E | Section 30B: Sandwich Bay Mid |
| 43 | | 57000 to 57999 | E | Section 30B + 30C: Sandwich Bay Mid + Sandwich Bay South |
| 44 | | 56000 to 56999 | E | Section 30C: Sandwich Bay South |
| 45 | | 55000 to 55999 | E | Section 30C: Sandwich Bay South |
| 46 | | 54000 to 54999 | E | Section 30C: Sandwich Bay South |