



# Seafloor Debris Mapping

Solent Forum  
24<sup>th</sup> April 2024

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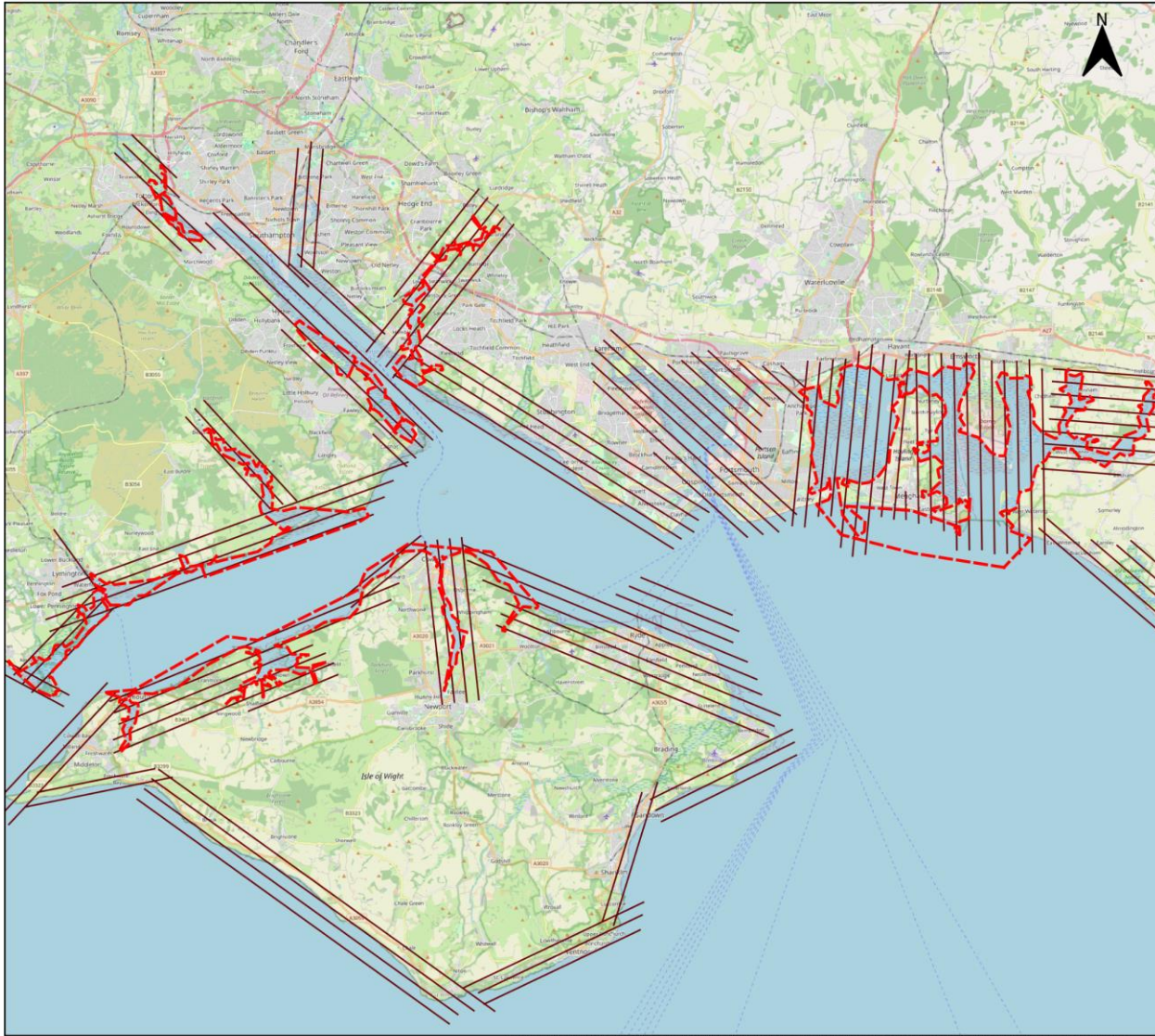


The APEM Group are a global environmental consultancy, delivering innovative solutions to support the environment.

Our integrated expert approach covers all areas of the natural environment, enhanced with innovative remote sensing technology and world-class laboratory services to provide recommendations reinforced by data excellence.



# Survey Area



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## Project Details

Map seafloor debris within Solent Maritime SAC (112km<sup>2</sup>)

## Aerial Survey

NNRCMP – Summer 2022

Captured below MLWS

10cm vertical imagery

## Data Processing

High resolution oblique imagery processed into 3.7cm seamless orthomosaic



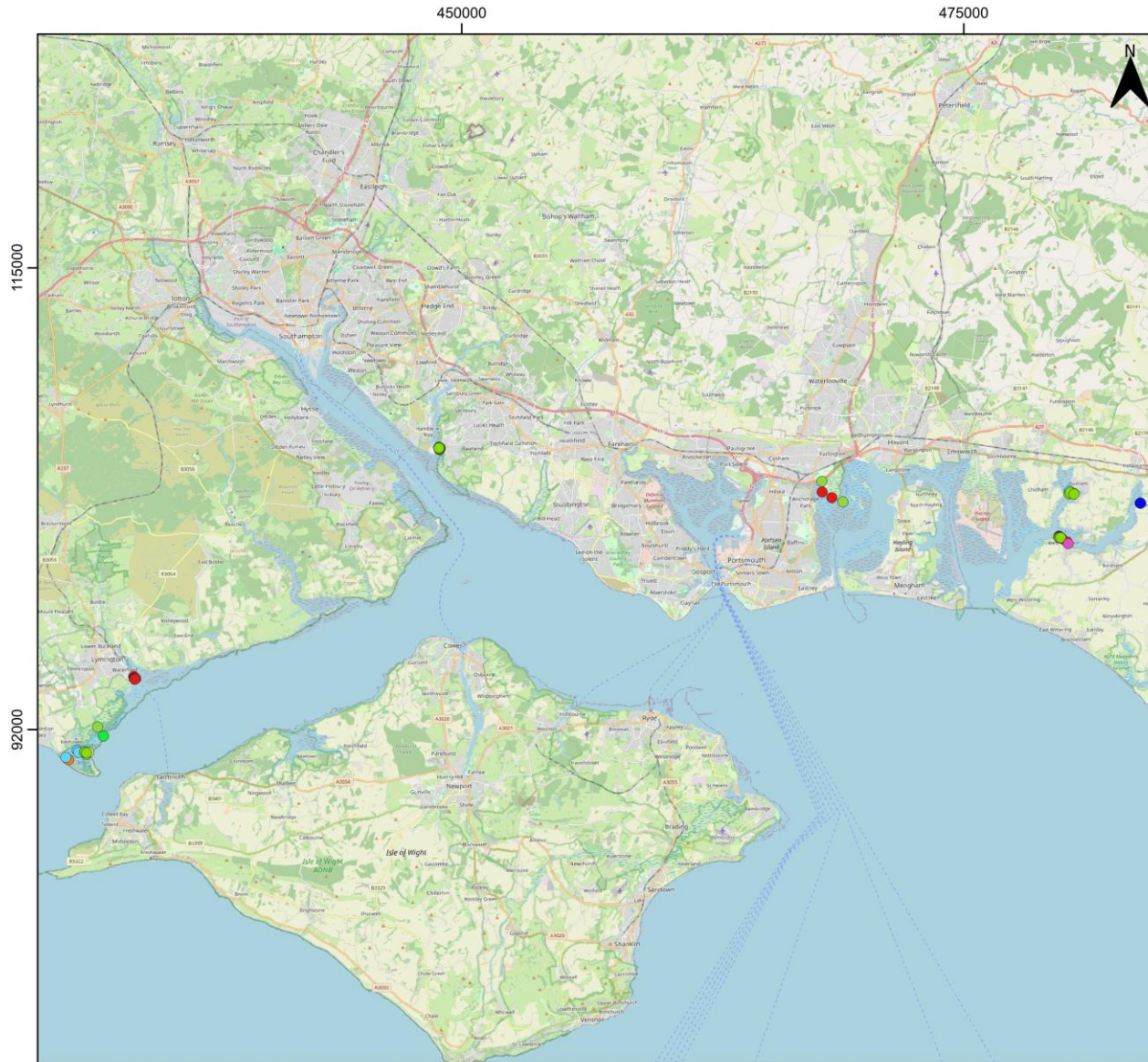
# Aerial Imagery Analysis



**Abandoned Boats**  
**Abandoned Anchors**  
**Structures**  
**Scrap Metal / Pipes**  
**Tyres**

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# Ground Validation Survey



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**LIFE Recreation ReMEDIES:**  
**Reducing and Mitigating Erosion**  
**and Disturbance Impacts affecting**  
**the Seabed**  
**APEM - 13209**

## Seafloor Debris Validation Locations

### Legend

#### Field Work Validation Points

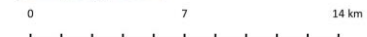
- abandoned anchor
- abandoned boat
- abandoned structure
- cable
- pallet
- pipe
- scrap metal
- tyre
- unmarked container
- wood plank



### Notes

Basemap: Contains Ordnance Survey data © Crown copyright and database rights (2010-2024). OS OpenData

Coordinate System:  
 OSGB36 / British National Grid

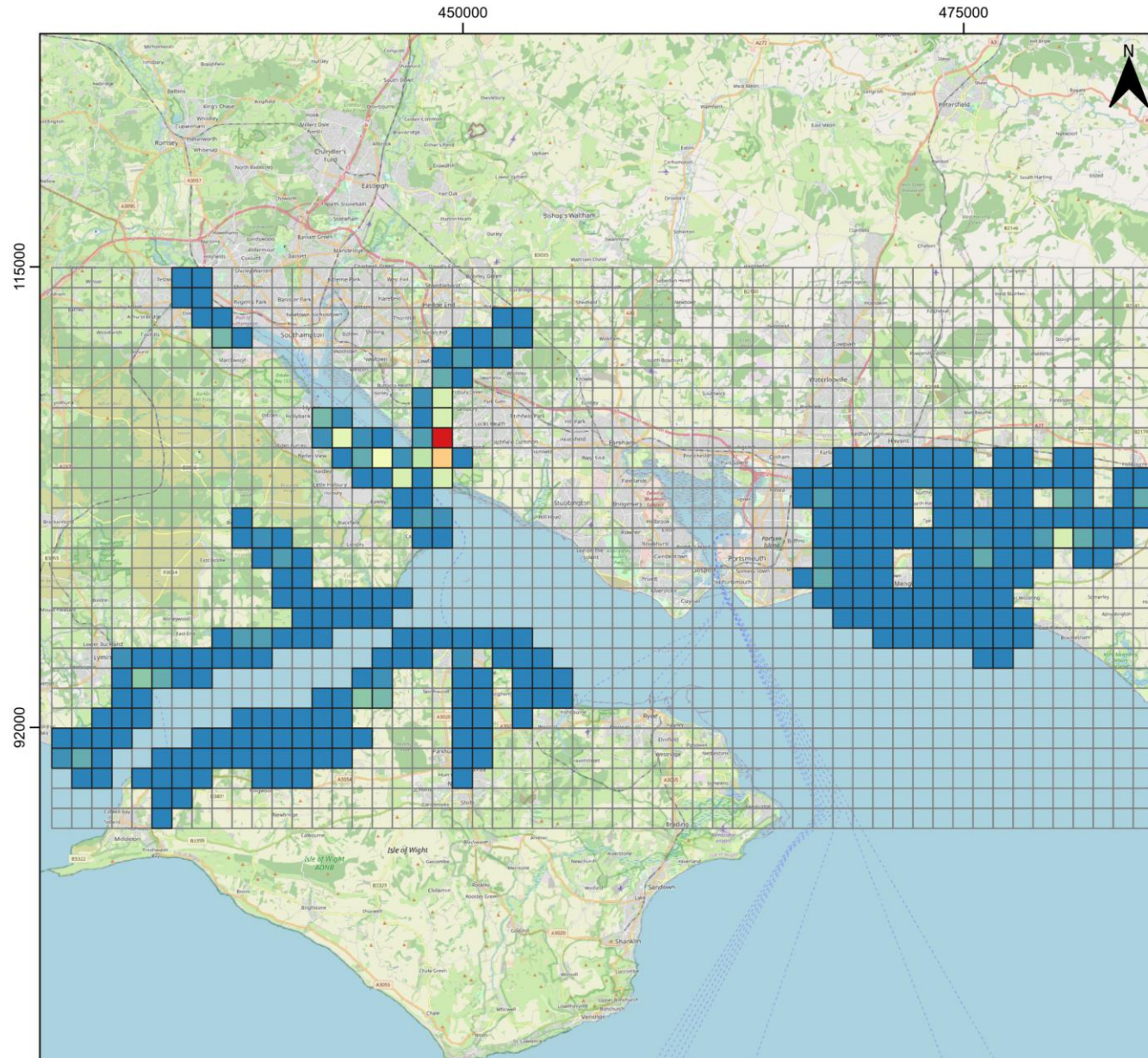


Scale:                      Date: 04/01/2024                      Drawn by: BB                      Checked by: DN                      Approved by: SH

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# Analysis Results



## LIFE Recreation ReMEDIES: Reducing and Mitigating Erosion and Disturbance Impacts affecting the Seabed APEM - 13209

### Seafloor Debris Concentration per km<sup>2</sup>

#### Legend

Seafloor Debris Search Grid

#### Number of Seafloor Debris Items

0 - 2	26 - 28	50 - 52
2 - 4	28 - 30	52 - 54
4 - 6	30 - 32	
6 - 8	32 - 34	
8 - 10	34 - 36	
10 - 12	36 - 38	
12 - 14	38 - 40	
14 - 16	40 - 42	
16 - 18	42 - 44	
18 - 20	44 - 46	
20 - 22	46 - 48	
22 - 24	48 - 50	



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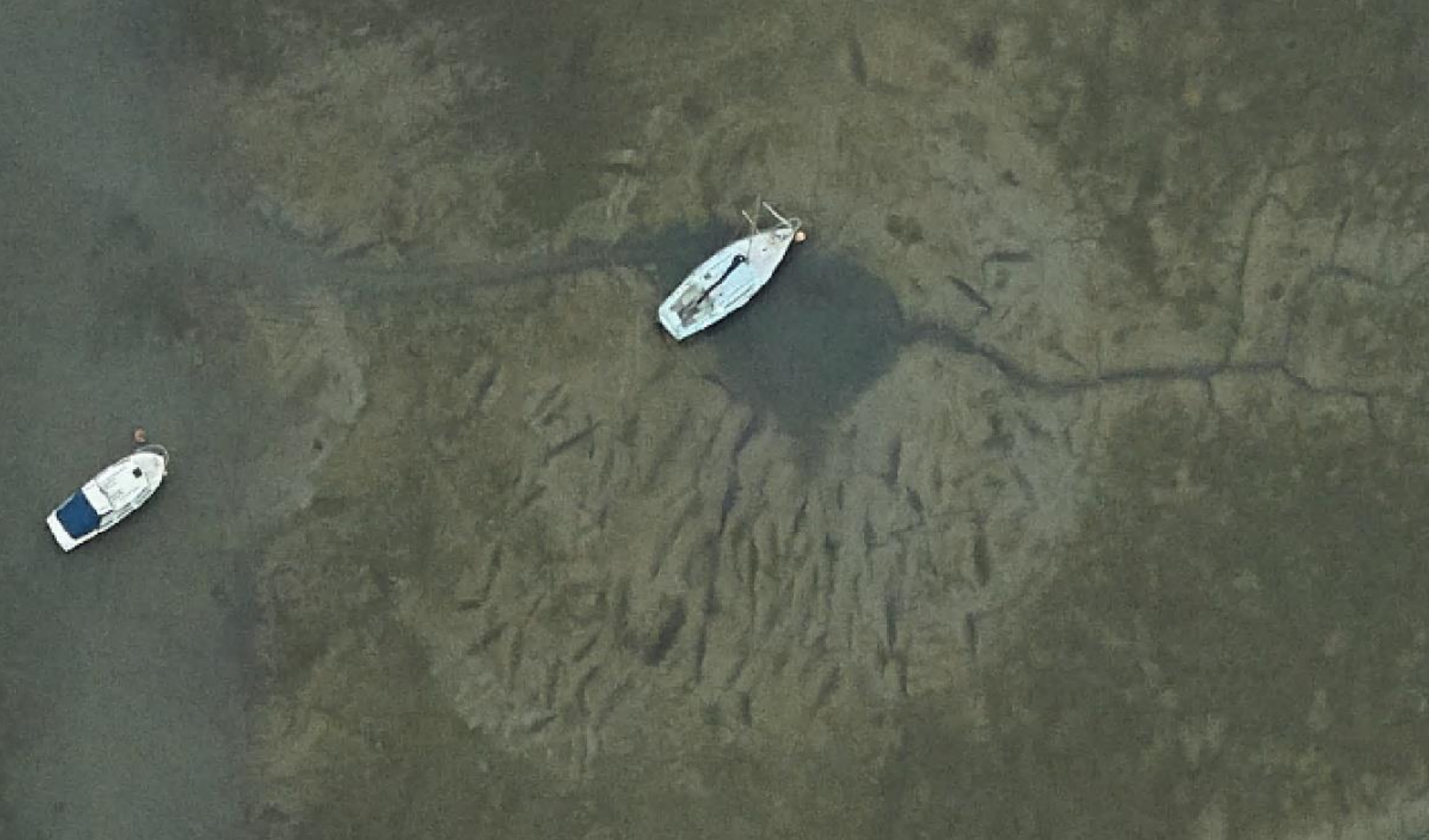


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# Anchor Pressure Points





Questions?



# Thank you

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