

CALYPSO

VESSEL INFORMATION & SPECIFICATIONS

CALYPSO - SPV 877



Calypso is a 24 m specialised vessel purposely designed for extended offshore marine survey and environmental research. Calypso has accommodation for twelve personnel, and is equipped with A-frame, AIS, winch and tender. Calypso can also be equipped with dive spread and chamber, as was required for recent conduct of the Gorgon Marine Environmental Baseline Programme (the vessel was dedicated to between October 2007 and 2012).

Calypso is suitable for offshore dive operations, ROV operations, oceanographic/geophysical survey, instrument deployment/recovery/servicing, personnel and cargo transfers, accommodation purposes, and can be considered for various other work scopes.

Calypso has been regularly modified under GMS management to pursue continuous improvement that centres on maximising safety as well as comfort and function.

Annual auditing and inspections are regarded highly in the industry and at GMS. Calypso undergoes annual survey inspections under the Western Australian Department of Transport, as well as regular industry auditing and inspection (as per client requirement and request).

Calypso has been audited under the highest industry standards which often exceed expectations of a vessel of its size.

Audits have included both IMCA and OVID, as well as regular Chevron ABU audits and Inspections focusing on management systems, Vessel Management Plan, and environmental management.

THE VESSEL

Name:	CALYPSO
Call Sign:	VNW 6102
Construction:	Aluminium Planing
Place of Construction:	Queensland
Year of Construction:	2001
Last Refit:	Henderson, Western Australia
Year of Refit:	2010
Launched:	29 th August 2012
SPV No:	SPV 877
Official No. (DPI Reference):	M&H 6242
Survey Status:	Class 1B / 1C
Operational Limits:	To 200 N.M Seaward
Ship's Compliment:	1B – 10 unberthed plus 9 berthed passengers plus 3 crew 1C – 21 unberthed passengers plus 8 berthed plus 4 crew
Stability Book Status:	Stability approved with loading conditions
Stability Book Date of Approval:	30/08/2010

VESSEL DETAILS

Length measured:	23.9 metres
Length Overall:	24.65 metres
Breadth (MLD):	6.385 metres
Moulded depth:	1.930 meters
Draft	1.4 meters
Deck Area:	55 Meters square
Storage Area:	25 Meters square
Hull type:	Mono hull
Cruising speeds:	@ 15 knots – ~120L/hr @ 18 knots – (Max) ~180L/hr
Gross Tonnage:	55 Tonne
A-Frame & Hydraulics:	1.5 Tonne (6T Test)
Air-conditioned Accommodation:	6 x 2 Single Berths (total 12)
Main Engines:	2 x 630HP Cummins GSM 11
Auxiliary Engines:	2 x Kabota 35KVA, 1x 50KVA Onan genset
Toilet / Shower:	2
Sullage Tank:	2 x 1500 Litre tanks
Sludge Tank:	2 x 400 Litre tanks
Sewage Treatment Plant:	Haymann 8311
Fuel:	11,000 Litres
Water:	2x 1200 Litre tanks
Desalination Plant	Citor 4 cell with sand filter; 4500L/ day
Communications:	1 X HF RADIO ICOM, 3 X VHF RADIOS ICOM, 1x SATPHONE, 1x EMAIL, AIS, 1x NEXT G PHONE
Other Equipment:	1 x Sat compass 1 x Wind Anemometer

ALL SURVEY EQUIPMENT AS PER DPI REQUIREMENTS

VESSEL INFORMATION & SPECIFICATIONS**KOMODO - SPV 729**

Komodo is a 24.8m catamaran utility vessel especially designed and modified to conduct extended environmental, oceanographic and geophysical survey and operations at sea. She has accommodation for 18 personnel, and can be equipped with dive spread, chamber, A-frame, winch and tender.

Komodo has been regularly modified under GMS management to pursue continuous improvement that centres on maximising safety as well as comfort and function. Last refit was completed in 2010.

Annual auditing and inspections are regarded highly in the industry and at GMS. Komodo undergoes annual survey inspections under the Western Australian Department of Transport, as well as regular industry auditing and inspection (as per client requirement and request).

Komodo has been audited under the highest industry standards which often exceed expectations of a vessel of its size.

Audits have included both IMCA and OVID as well as regular Chevron ABU audits and Inspections focusing on management systems, Vessel Management Plan, and environmental management.

THE VESSEL

Name:	KOMODO
Call Sign:	VNM 5030
Builder:	Batavia Boat Builders
Construction:	Aluminum catamaran
Place of Construction:	Geraldton, Western Australia
Refit 1:	Henderson, Western Australia
Year of Refit:	2010
Launched	March, 2010
SPV No:	SPV 729
Official No. (DPI Reference):	M&H 5557
Survey Status:	2B /1D
Operational Limits:	USL 2B – 100 Nm offshore
Ships Compliment:	1D – 60 unberthed passengers plus 6 crew 2B - 12 Berthed Passengers plus 6 crew
Stability Book Status:	Stability approved
Stability Book Date of Approval:	03/06/2010

VESSEL DETAILS

Length measured:	23.980 metres
Length Overall:	24.90 metres
Breadth (MLD):	7.0 metres
Depth Mid-ship:	2.75 metres (amidships)
Draft:	1.20 metres
Deck Area:	55 Metres square
Storage Area:	25 Metres square
Hull type:	Catamaran
Max Speed Loaded:	18 knots
Cruising:	12 knots @ 2000 RPM @ 140L/hr

Gross Tonnage (inc. fuel & Dive Spread)	59 Tonne
A-Frame & Hydraulics Included:	1.5 T capacity A-frame (6 T Test)
Main Engine:	2 x 6 CTA8.3-M3
Auxiliary Engines:	2x Cummins Onan 40 kw, 70 amp, 450 v, Continuous rating
Driver:	John Deer 4 cylinder, 4.5 ltr, Emission controlled Serial no. 4045T708624 - Installed. 31/03/2010
Gearbox:	2 x ZF311
Jet Units:	No jets
Fuel Capacity:	9,210 Litres
Air-conditioned Accommodation:	18 berths
Toilet:	4
Shower/wash places:	4
Sullage Tank:	4 x 1095 Litre tanks
Sludge Tank:	1 x 410 Litre tanks
Radar GPS:	1xnavnet radar/gps
Echo Sounder:	1xsounder fcv295 Transducer zx50b9/200b55 1x sounder jmc v1001
GPS:	1x gps (navnet) gp320b 1x dgps gp37 1x gps gp32
Plotter:	Max Sea
Auto Pilot:	TMQ AP4 Auto Pilot with Rudder angle indicators
Radio's:	2x vhf radio 1c-M422 1x hf radio 1cm710 1 x 27 MHz radio gx300
Compass:	1x sat compass sc50
Integrated NAV system:	1x ais fa50

Wind Instrument:	1x wind instrument f15
Wireless Terminal:	1x wireless terminal Fricston w35

CREW TRANSFER / SAFETY EQUIPMENT

Safety Equipment:	<p>1 x 25 Man Life Raft</p> <p>2 x Lifebuoys with 1 self igniting light and 1 buoyant line</p> <p>1 x Lifebuoy with self igniting light</p> <p>19 x SOLAS Lifejackets with light and whistle</p> <p>3 x Rocket Flares</p> <p>2 x Red Hand Flares</p> <p>1 x Orange Smoke Flare</p> <p>2 x Portable air gas horns</p> <p>1 x Chronometer</p> <p>1 x Binoculars</p> <p>1 x Barometer</p> <p>1 x Barograph</p> <p>1 x Daylight signaling lamp</p> <p>1 x Copy of international code of signals</p> <p>1 x N and C Flags</p> <p>Charts for areas of operation</p> <p>2 x Anchors</p> <p>2 x Anchor chains</p> <p>1 x Anchor winch</p> <p>Ropes and Lines</p> <p>1 x First Aid Kit to scale E (RFDS Kit)</p> <p>Vessel Record Log book</p> <p>1 x registered EPIRB</p> <p>1 x Fire pump (with hydrant hose and nozzle to suit)</p> <p>1 x Fixed fire installation</p> <p>8 x Fire extinguishers</p> <p>2 x Fire buckets with lanyards</p> <p>1 x Oil Spill Kit</p>
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ALL SURVEY EQUIPMENT AS PER DPI REQUIREMENTS

OCEAN SPIRIT

VESSEL INFORMATION & SPECIFICATIONS

Ocean Spirit - SPV 1076



Ocean Spirit is a modern design high speed jet powered utility vessel. She is a single chine planning mono-hull. She has a raised bridge to facilitate excellent visibility from the helm position. The vessel is classed under the USL code in WA for coastal operations to 100 nautical miles offshore.

Ocean Spirit is presently configured for passenger transfer and survey duties. She has 20 passenger seats enclosed under a canopy behind the wheelhouse. She has a purpose designed passenger boarding platform on the bow, and an open transom. She is powered by twin 800hp V8 Scania diesel engines fitted to Hamilton jets. These provide a lightship top speed of 39 knots, however Dept. of Transport requirements limit her passenger transit speed to 25 knots.

Ocean Spirit was initially launched in November, 2003. Gun Marine Services purchased the vessel in December 2011 and modified her to suit the oil and gas industry.

OCEAN SPIRIT



THE VESSEL

Name:	Ocean Spirit
Call Sign:	VM 3344
Construction:	Aluminum High Speed Planing
Year of Construction:	2003
Year of refit:	2012
Last Launched:	February 2012
SPV No:	SPV 1076
Official Number (DPI Reference):	M&H5774
Survey Status:	Class 1B
Operational Limits:	To 100 N.M Seaward
Ship's Compliment:	20 passengers plus 2 crew
Stability Book Status:	Stability approved
Stability Book Date of Approval:	29/03/2012

VESSEL DETAILS

Length measured:	17.4 metres
Length Overall:	18.1 metres
Breadth (MLD):	4.50 metres (midship)
Draft:	0.74 metres (midships lightship)
Cruising speeds:	@ 20 knots - 100 litres per hour @ 25 knots - 120 litres per hour @ 30 knots - 180 litres per hour
Tonnage (Light Ship):	18.67 Tonne
Accommodation:	2 x Single Crew Berths
Main Engines:	2 x 800 hp Scania

OCEAN SPIRIT

Auxiliary Engines:	1 x Cummins 11KVA
Toilet / Shower:	1
Sullage Tank:	1 x 300 Litres
Fuel:	5000 Litres
Water:	300 Litres
Ballast Tank:	3T (3000 lts)
Bilge System:	Manual and Automatic
Sounder:	1 x JRC Echo Sounder
Radar:	1 x 36NM Furuno Radar
Plotters:	1 x Max C Plotter 1 x C Plot (Back Up)
GPS:	2 x Furuno (1x AIS GPS)
Radio's	2 x VHF Radios 1 x HF ICOM Radio
Email:	1 x Next G Email System
Sat Phone:	NA
Next G:	1 x Telstra
Batteries:	2 x Bank 1x Emergency backup

DECK EQUIPMENT

Crew Transfer:	20 passenger seats Refreshment station Canopy Open Transom, Bow ,Stern and Side Options
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CREW TRANSFER / SAFETY EQUIPMENT

Transit:	Bow transit station with safety rails
Safety Equipment:	4 x Life Rings (1x MOB safety light, 1x safety rope)

OCEAN SPIRIT

25 x PFD Transfer Vests (Self Inflatable with Light)

1 x 25RFD Inflatable

1x 4man inflatable

25 x SOLAS Life Jackets

1 x EPIRB

1 x Scale D Medical Kit (defibrillator, stretcher)

2 x STATX Smothering Systems

Spare Anchor

Scramble Net

Fire house with spray nozzle

2 x buckets and lanyards

Rescue Zone:

1 @ Stern of the Vessel

Oil Spill Kit

x 1

GALLEY / WHEELHOUSE

Airconditioned: 1

Fridge: 1 (bar fridge)

Chest Freezer: 1

Microwave: 1

Urn 1

Water Dispenser 1

Printer 1

Computer 1 (plus room for client resources)

ALL SURVEY EQUIPMENT AS PER DPI REQUIREMENTS

UTIKKA ROSE

VESSEL SPECIFICATIONS

'UTIKKA ROSE' - SPV



THE VESSEL

Name:	Utikka Rose
Call Sign:	Utikka Rose
Construction:	Aluminium, single hull
SPV No:	TBA
DPI Reference:	M&H 6955
Survey Status:	2C
Operational Limits:	Within 5nM of mother ship or 20nM of any port/ radio receiver station
Compliment:	1 and 5
Manufacturer:	Millman
Hull Colour:	Orange
Boat Type:	Jet boat with Centre Console
Mooring Loc.:	Exmouth – Dry trailer
Boat Length:	7.85 metres
Breadth:	2.4 m
Draft:	450 mm
Maximum Speed:	27knots (lightship)
Cruise Speed:	20knots
Fuel Capacity:	400L
Batteries:	1x 12V and 1x 12V emergency
Certified HIN:	AU-TWA040105AP6
Mooring Type:	Anchor

UTIKKA ROSE

VESSEL SPECIFICATIONS

'UTIKKA ROSE' - SPV

VESSEL DETAILS

Engine Type:	Hamilton Jet
Engine Make:	YANMAR
Gearbox:	ZF
Serial Number:	0E432882
Power:	4 cylinder, 240hp
Fuel Type:	Diesel

SAFETY EQUIPMENT

1 x Flare Kit
1 x Scale F First Aid Kit
1 x Spot Light
NAV Lights
1 x Sounder
1 x GPS
1 x VHF Radio
1 x HF Radio
1 x SM Deck Winch and Roller
1 x 8man life raft
8 x SOLAS Life jackets
2 x powder fire extinguisher 4.5kg
1 x pyrogen fixed fire system
Side Rescue door
1 x 406 EPIRB
Binoculars
Local Charts
Distress Flag
Dive Flag
Bravo Flag
12V deck wash
1 x life ring with light

VESSEL INFORMATION & SPECIFICATIONS

VG - SPV 928



VG is a modern design utility vessel of single chine planning hull configuration. Construction is in heavy duty welded marine grade aluminum with welded aluminum superstructure, incorporating a fly bridge driving station. The vessel is classed under the USL code in WA and the Northern Territory for coastal operations to 200 nautical miles offshore.

VG has accommodation for six personnel, and can be equipped with A-frame, winch, deck crane and tender.

VG is suitable for offshore oceanographic/ geophysical survey, instrument deployment/recovery/servicing, personnel and cargo transfers, and can be considered for various other work scopes.

VG has been regularly modified under GMS management to pursue continuous improvement that centres on maximising safety as well as comfort and function.

Annual auditing and inspections are regarded highly in the industry and at GMS. VG undergoes annual survey inspections under the Western Australian Department of Transport, as well as regular industry auditing and inspection (as per client requirement and request).

VG has been audited under the highest industry standards which often exceed expectations of a vessel of its size.

Audits have included both IMCA and OVID as well as regular Chevron ABU audits, BHP audits, Woodside audits, and Inspections focusing on management systems, Vessel Management Plan, and environmental management.

THE VESSEL

Name:	VG
Call Sign:	VNW 3668
Builder:	Geraldton Boat Builders
Construction:	Welded heavy duty, marine grade aluminium.
Place of Construction:	Geraldton, WA (per ship registry)
Year of Construction:	1988
SPV No:	SPV 928
Official No. (DPI Reference):	M&H 3266
Survey Status:	Class 2B / 2B1
Operational Limits:	To 200 N.M Seaward
Ship's Compliment:	2B – 7 special personnel plus 3 crew 2B1 – 22 special personnel plus 3 crew

VESSEL DETAILS

Length Measured):	19.95 metres
Breadth (MLD):	5.22 metres
Measured Depth:	1.89 metres
Hull type:	Single chine, planning hull
Cruising speeds:	@ 15 knots - 140 litres per hour @ 17 knots - 180 litres per hour @ 20 knots - 250 litres per hour
Gross Tonnage:	22 Tonne
A-Frame & Hydraulics Included:	Additional 1.5 Tonne
Accommodation:	6 x Single Berths
Main Engines:	2 x 850 HP YANMAR
Auxiliary Engines:	2 x Perkins 27KVA III Phase
Toilet / Shower:	1

Sullage Tank:	500 Litres
Fuel:	9,600 Litres
Water:	1,500 Litres
Sounder:	1 x Furuno FCV 1100L
Radar:	1 x JRC 3000 24 mile
Plotter:	1 x Maxsea 2008
GPS:	2 x Furuno WAAS-D-GPS
Auto Pilot:	1 x TMQ
Radio's:	1 x ICOM HF 2 x ICOM VHF 1 x GME AM/FM
Email:	1 x Fleet 33 Sailor/Thrane & Thrane
Sat Phone:	1 x Sailor Thrane & Thrane
Next G:	1 x Telstra

DECK EQUIPMENT

Deck Area:	10m x 4.8m
"A" Frame:	1 x 1500 KG SWL (Hydraulic) 2.5mW/3.8mH (6 Tonne)
Winch's:	1 x 3000 KG SWL Drum/Cap<1500m x 12mm
Deck Cranes:	1 x 750KG @ 1m 250KG @ 6m

CREW TRANSFER / SAFETY EQUIPMENT

Stairway:	1 x 1500mm W with Safety Rails
Safety Equipment:	2 x Extra Life Rings 1 x Extra M.O.B Safety Light As per Required Transfer Vests (Self Inflatable with Light) 1 x 25RFD Inflatable 1 x EPIRB

Rescue Zone:

1 x STAT-X Fire Suppression System

1 @ Stern of the Vessel

Oil Spill Kit:

Polybooms

Absorbent pads

Plastic heavy duty gloves

Kitty Litter

Bag of Rags

ALL SURVEY EQUIPMENT AS PER DPI REQUIREMENTS

VESSEL INFORMATION & SPECIFICATIONS**WARREGO SPV 1062**

Warrego is a 23.95m utility vessel designed by GMS to support a diverse range of Offshore Oil and Gas operations in challenging sea states. She can be used as a short range vessel, but can equally support up to 18 personnel on extended offshore programmes. She is a new built vessel constructed by Australian labour in Henderson, Western Australia. She has been designed by Southerly Designs, who have a long history of providing vessels suited to the extreme conditions prevalent in Western Australian offshore waters. Their pedigree in designing such vessels is evident in a long history of orders from the WA Fisheries Department for patrol boats and from the Australian Department of Defence. Warrego has a top speed in excess of 20 knots, and is capable of travelling at speed in marginal sea states. Her deck is heavily reinforced and designed for a maximum payload of 30T. She has three steering stations, allowing for operation from either side of the bridge or, from an aft facing consol on the rear of the bridge deck. She has twin 911hp engines (Tier 2 emissions certified) mated to purpose built gearboxes fitted with troll valves, and 75hp hydraulic bow thrusters. The combination of twin keels, large rudders and large bow thrusters will make Warrego very manoeuvrable, particularly at slow speeds. Warrego currently has a hydraulic A frame, hiab and winch, but these are all removable and other hydraulic machinery can be accommodated. She has three generators, comprising two 50Kva and one 100Kva generators. These can run high demand ancillary equipment, including refrigerated containers. The design of Warrego includes allowance for over the bow passenger transit, with a heavily reinforced and fendered platform with full safety/hand rails. The back deck has bulwark doors on both sides and an open transom.

The vessel has the latest fire suppression systems, with fire protection on all the walls and roof of the engine room and tiller flat. She also has a waste water treatment plant that complies with the latest MARPOL regulations.

THE VESSEL

Name:	Warrego
Call Sign:	VNW6465
Builder:	Armada Ships, Henderson WA
Designer:	Southerly Designs
Construction:	Aluminium
Place of Construction:	Henderson, Western Australia
Year of Build:	2011
Launched	September 2011
SPV No:	SPV 1062
DPI Reference:	M&H 6690
Survey Status:	Class 1B
Operational Limits:	200nM Offshore
Ship's Compliment:	15 berthed passengers and 3 crew
Stability Book Status:	Stability Approved with loading conditions
Stability Book Date of Approval:	04/10/2011

VESSEL DETAILS

Length Measured:	23.95 metres
Length Overall:	24.95 metres
Breadth (MLD):	7.5 metres
Rear Deck Area:	80 metre square
Draft:	1.52 metres (midships lightship)
Hull type:	Single Chine Aluminum
Gross Tonnage (Lightship)	67 Tonne
Main Engine:	2 x Yanmar 6AY-GTE 911hp, TIER 2 Emissions Cert
Gearbox:	2 x Kanzaki with Troll Valves
Bow thruster:	Wesmar 75hp hydraulic

Max Speed Loaded:	20 knots @ 300L/hr
Cruising:	15 knots @ 200L/hr
Fuel Capacity:	16,200L in 5 tanks
Fuel Manifold / Transfer:	Full transfer between all tanks
Bilge System:	Manual & Automatic
Generators:	2 x 50Kva Onan, 1 x 100 Kva Onan
Batteries:	2 x banks in engine room, 1 x emergency bank on bridge
240vt System:	Control panel earth leakage protected lower deck
24vt System:	Control panel on bridge
Shore Power:	Yes
Power Take Off:	2 x 32 amp outlets on deck, 1 x 32 amp outlet wheelhouse deck, Various 15 and 10 amp GPOs throughout
Power Pack:	Twin 3 Phase 9.2Kw Motors, 280L oil tank
Engine Pumps:	2 x Vane type Hydraulic for winch & bowthruster 2 x Jabsco raw water 2 x Hydraulic steering
A-frame:	WLL 5T hydraulic (8 Tonne test)
Deck Winches:	1 x 6T INI hydraulic various speed with free spool & brake (1000m x 12mm wire) 1 x 8T hydraulic fwd & rvs (90m x 12mm wire)
Hiab:	1 x Palfinger PK 5800 – 800kg @ 6.9m – 3100kg @1.8m
Anchor Winch:	1 x Hamilton Engineering custom with 16mm Gypsy & Capstan each side
Fresh Water Tanks:	2 x 1,500L (15mm hpde plastic)
De-salinator:	2 x 5TS Citor (200 L / hr) 4800 L / d)

WARREGO

Sand Filter:	1 x Waterco
Waste Water Treatment Plant	Hamann Super mini plus (MARPOL 2011 compliant)
Sullage Tanks:	2 x 1,500L (15mm hpde plastic)
Sludge Tank:	1 x 1000L (15mm hpde plastic)
Fresh Water Outlets:	Taps – wheelhouse, foredeck, back deck, engine room, tiller room.
Accommodation:	18 (6 x 2 person, 2 x 3 person cabins)
Air-conditioning:	Accommodation
	Saloon
	Galley
	Bridge
	Laundry
	Engine Room
	Tiller Room
Toilet:	3 x
Shower:	3 x (1 on back deck, 2- aft saloon)
Heads:	3 x Tecma (macerated)
Full Commercial Galley:	Electric Stove / Oven
	Microwave combo-convection / grill oven
	Range hood
	Double sink
	Service area
	Full fire protection
	1 x 510L Electrolux Fridge / Freezer
	1 x Upright Westinghouse Freezer
	2 x Westinghouse 150L Tucker box freezers
	Mess tables (2 x with seating for 18 persons)
	Hot and cold freshwater dispenser (1 x Billio 60 cold + 60 hot cups / hr)

	Cool room (Walk in 2.1m W x 2.8m L x 1.8m H 3 phase)
	Waste storage (storage for 8 wheelie bins in 2 x watertight vented foredeck rooms)
Steering stations:	2 x main helm & 1 x Aft
HF Radio:	1 x Icom ic-m801e
VHF Radios:	3 x Icom ic-m412
Stereo:	1 x Fusion ms-ip600
Radar/ Plotter/ Sounder:	1 x Furuno 3D Navnet 36nM range
Plotter:	Stand alone computer Maxsea program 1 x Raymarine A series plotter / sounder (Aft station)
GPS:	1 x Furuno DGPS GP-37
Loud Hailer:	1 x Furuno LH-3000
Satellite Compass:	Furuno SC-50
Depth Sounder:	Furuno Fcv-1150 with 1 & 3 Kw Transducers
Controls:	3 x Glendinning Electronic with Troll function
Auto Pilot:	1 Furuno Nav Pilot-700 (helm) 1 x Furuno Nav Pilot-711 (aft station)
Communications Computer:	Yes
Satellite Phone:	Yes (include Number)
Next G Phone:	Yes
Compass:	Yes
Wind Instrument:	1 x Furuno FI-501
AIS:	1 x Furuno FA-50 class b Transponder and receiver
Arpa:	Yes
Gauges:	Yanmar Engine gauges, Cummins Remote generator gauges, Fuel, water, sullage.

SAFETY EQUIPMENT

Life Raft:	1 x 25 man
Life Rings:	2
Life Jackets:	25 x SOLAS, 2 x SOLAS Child
Fire Extinguishers:	Full complement
Firefighting pump and hose:	Remote Diesel 230L / min with 30m fire hose
EPIRB:	Yes
Flares:	Yes
Day Shapes:	Yes
Anchors:	x 2
Chain:	2 x 110m lengths x 16mm

ALL SURVEY EQUIPMENT AS PER DPI REQUIREMENTS