Environmental

Environmental Risk Analysis and Mitigation Plan

2022 Newport to Bermuda

S/V Artemisia #43738

Item	Pollution Risk	Risk event	**Risk Event Frequency** (1 low chance of occurance-5 Certain chance)	**Severity** (1 Minimal impact -5 catastrophic impact)	**Risk Score** Severity x Freq (1 Least- 25 Worst) *>13 requires solid mitigation*	Mitigation 1	Mitigation 2	Mitigation 3	Mitigation Actions Achieved as of 6/2/22
1	Diesel spill	Diesel Transfer from Jerry Cans	5	4	20	Spill Proof transfer pump	Oil Absorbent cloth	paper towels	*Built spill kit to carry on board comprised of oil absorbant towels, oil sorb sausage, absorbant towels, garbage bags to contain; carrying small battery operated transfer pump to eliminate need for pouring jerry cans*
2	Plastic litter	Plastic waste/litter going overboard	3	4	12	Remove and dispose of plastic wrappers prior to loading on board	Use recyclable AL foil in lieu of plastic wraps	bring reusable plastic containers for food instead of single use; repack snacks in refillable containers and recycle single use containers on land	*Crew briefing, pre-race prep to remove unnecessary plastic/repackage*
3	Black Water	Black water discharge in coastal/marine/protected waters.	2	3	6	Clearly label Y Valve positions	Lock on Y Valve	Crew briefing regarding discharge of waste and head use in port	*Crew briefing, label y valves clearly*
4	Oil leaks into bilge	Oil/fuel leaks from engine- blown hose or component, loose fitting, etc	2	5	10	Engine inspection and proper restraint of hoses to prevent chafe	Cellulose oil-sorb pad in bilge	oil sorb pads stowed for use	*Inspected engine and replaced of worn hoses, added chafe sleeves to dedicated oil hoses; oil sorb pad in bilge under engine, regular watch schedule includes bilge/engine check; spill kit from Item 1*
5	Garbage	Having too much trash and not enough room to stow requiring legal discharge overboard	4	3	12	Remove and dispose of as much packaging as possible prior to loading on board	Dedicated recycling bin for metal/cans and recycable plastics apart from trash	Crew to bring reusable water bottles, insulated mug. Boat to provide metal utensils, reusable dishes. Boat to provision w/ bulk drinks (gatorade mix) instead of individual plastic water bottles, gatorades, etc.	*All 3 mitigations are enacted*
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