

Marine water quality at Diego Garcia: a preliminary study of pollution levels in coastal and lagoon waters

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Supplementary Material

1 Supplementary Table

Table S1. Contaminants detected per site, sorted by concentrations (highest first). Contaminants shown in red are listed as Substances of Very High Concern under the EU REACH regulations (EU 2006c).

Station Name	Cas_No	Contaminant	Concentration (~µg/l)	Example uses
Lagoon_01	3622-84-2	Benzenesulfonamide, N-butyl	0.291	Neurotoxic plasticiser
	131-11-3	Dimethyl phthalate	0.225	Plasticizer
	98-86-2	Acetophenone	0.153	Catalyst; Flavour and fragrance agent
	75-25-2	Bromoform	0.070	Volatile Solvent
	131-57-7	Benzophenone-3	0.048	Personal-care-products; Sun blocker
	134-62-3	N,N-Diethyl-m-toluamide	0.027	DEET; Insect repellent
	149-57-5	2-Ethylhexanoic acid	0.018	Catalyst
	87-86-5	Pentachlorophenol	0.018	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	79-01-6	Trichloroethylene	0.012	Volatile Solvent
	58-08-2	Caffeine	0.010	Psychoactive stimulant drug
	74-95-3	Dibromomethane	0.007	Volatile Solvent
	122-39-4	Diphenylamine	0.006	Pesticide; Fungicide; Veterinary drug
	91-20-3	Naphthalene	0.004	Poly Aromatic Hydrocarbon (PAH)
	86-73-7	Fluorene	0.001	Poly Aromatic Hydrocarbon (PAH)
Lagoon_03	131-11-3	Dimethyl phthalate	0.172	Plasticizer
	98-86-2	Acetophenone	0.108	Catalyst; Flavour and fragrance agent

	75-25-2	Bromoform	0.090	Volatile Solvent
	131-57-7	Benzophenone-3	0.021	Personal-care-products; Sun blocker
	79-01-6	Trichloroethylene	0.018	Volatile Solvent
	134-62-3	N,N-Diethyl-m-toluamide	0.012	DEET; Insect repellent
	74-95-3	Dibromomethane	0.009	Volatile Solvent
	87-86-5	Pentachlorophenol	0.009	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	91-20-3	Naphthalene	0.006	Poly Aromatic Hydrocarbon (PAH)
	122-39-4	Diphenylamine	0.005	Pesticide; Fungicide; Veterinary drug
	95-13-6	Indene	0.002	Solvent
	86-73-7	Fluorene	0.001	Poly Aromatic Hydrocarbon (PAH)
	91-57-6	2-Methylnaphthalene	0.001	Intermediate; Dyes
Lagoon_04	98-86-2	Acetophenone	0.131	Catalyst; Flavour and fragrance agent
	3622-84-2	Benzenesulfonamide, N-butyl	0.110	Neurotoxic plasticiser
	75-25-2	Bromoform	0.080	Volatile Solvent
	131-11-3	Dimethyl phthalate	0.078	Plasticizer
	131-57-7	Benzophenone-3	0.018	Personal-care-products; Sun blocker
	79-01-6	Trichloroethylene	0.011	Volatile Solvent
	134-62-3	N,N-Diethyl-m-toluamide	0.010	DEET; Insect repellent
	74-95-3	Dibromomethane	0.008	Volatile Solvent
Lagoon_05	131-11-3	Dimethyl phthalate	0.194	Plasticizer
	98-86-2	Acetophenone	0.142	Catalyst; Flavour and fragrance agent
	75-25-2	Bromoform	0.080	Volatile Solvent
	131-57-7	Benzophenone-3	0.039	Personal-care-products; Sun blocker
	134-62-3	N,N-Diethyl-m-toluamide	0.021	DEET; Insect repellent
	79-01-6	Trichloroethylene	0.012	Volatile Solvent
	87-86-5	Pentachlorophenol	0.011	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	122-39-4	Diphenylamine	0.007	Pesticide; Fungicide; Veterinary drug
	91-20-3	Naphthalene	0.005	Poly Aromatic Hydrocarbon (PAH)
	132-64-9	Dibenzofuran	0.001	Pesticide; Insecticide
	86-73-7	Fluorene	0.001	Poly Aromatic Hydrocarbon (PAH)
Lagoon_08	3622-84-2	Benzenesulfonamide, N-butyl	0.484	Neurotoxic plasticiser
	131-11-3	Dimethyl phthalate	0.328	Plasticizer
	98-86-2	Acetophenone	0.142	Catalyst; Flavour and fragrance agent
	75-25-2	Bromoform	0.060	Volatile Solvent
	87-86-5	Pentachlorophenol	0.036	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	134-62-3	N,N-Diethyl-m-toluamide	0.033	DEET; Insect repellent
	131-57-7	Benzophenone-3	0.032	Personal-care-products; Sun blocker
	79-01-6	Trichloroethylene	0.016	Volatile Solvent
	58-08-2	Caffeine	0.013	Psychoactive stimulant drug
	122-39-4	Diphenylamine	0.008	Pesticide; Fungicide; Veterinary drug
Lagoon_09	75-25-2	Bromoform	0.130	Volatile Solvent
	131-11-3	Dimethyl phthalate	0.110	Plasticizer
	79-01-6	Trichloroethylene	0.011	Volatile Solvent
Lagoon_10	131-11-3	Dimethyl phthalate	0.150	Plasticizer
	75-25-2	Bromoform	0.090	Volatile Solvent
	134-62-3	N,N-Diethyl-m-toluamide	0.020	DEET; Insect repellent
	87-86-5	Pentachlorophenol	0.013	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic

	131-57-7	Benzophenone-3	0.008	Personal-care-products; Sun blocker
Lagoon_12	131-11-3	Dimethyl phthalate	0.206	Plasticizer
	75-25-2	Bromoform	0.120	Volatile Solvent
	134-62-3	N,N-Diethyl-m-toluamide	0.019	DEET; Insect repellent
	98-86-2	Acetophenone	0.019	Catalyst; Flavour and fragrance agent
	79-01-6	Trichloroethylene	0.015	Volatile Solvent
	87-86-5	Pentachlorophenol	0.012	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	131-57-7	Benzophenone-3	0.010	Personal-care-products; Sun blocker
	74-95-3	Dibromomethane	0.010	Volatile Solvent
	86-30-6	N-nitrosodiphenylamine	0.007	Cosmetics; Pesticides; Tobacco; Rubber products
	91-20-3	Naphthalene	0.004	Poly Aromatic Hydrocarbon (PAH)
	132-64-9	Dibenzofuran	0.001	Pesticide; Insecticide
Leisure Marina	75-25-2	Bromoform	0.210	Volatile Solvent
	74-95-3	Dibromomethane	0.016	Volatile Solvent
Moody Brook	58-08-2	Caffeine	0.205	Psychoactive stimulant drug
	6197-30-4	Octocrylene	0.144	UV-filter
	75-25-2	Bromoform	0.120	Volatile Solvent
	118-56-9	Homosalate	0.071	UV filter; Sunscreens
	119-61-9	Benzophenone	0.050	Intermediate; Personal-care-products
	134-62-3	N,N-Diethyl-m-toluamide	0.024	DEET; Insect repellent
	108-43-0	3-Chlorophenol	0.022	Pesticide; Herbicide; Disinfectant
	206-44-0	Fluoranthene	0.022	Poly Aromatic Hydrocarbon (PAH)
	74-95-3	Dibromomethane	0.009	Volatile Solvent
	132-64-9	Dibenzofuran	0.007	Pesticide; Insecticide
	86-73-7	Fluorene	0.006	Poly Aromatic Hydrocarbon (PAH)
	129-00-0	Pyrene	0.005	Poly Aromatic Hydrocarbon (PAH)
	84-65-1	9,10-Anthraquinone	0.001	Dye Intermediate
Munition Storage	75-25-2	Bromoform	0.090	Volatile Solvent
	134-62-3	N,N-Diethyl-m-toluamide	0.047	DEET; Insect repellent
	36861-47-9	4-Methyl-benzylidene camphor	0.028	Personal-care-products; Sun blocker
	74-95-3	Dibromomethane	0.021	Volatile Solvent
	118-79-6	2,4,6-Tribromophenol	0.006	Pesticide; Fungicide
Ocean_01	3622-84-2	Benzenesulfonamide, N-butyl	1.300	Neurotoxic plasticiser
	131-11-3	Dimethyl phthalate	0.541	Plasticizer
	70-55-3	Benzenesulfonamide, 4-methyl-	0.380	Intermediate; Catalyst
	934-34-9	2(3H)-Benzothiazolone	0.122	Vulcanization Accelerator
	87-86-5	Pentachlorophenol	0.108	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	131-57-7	Benzophenone-3	0.081	Personal-care-products; Sun blocker
	98-86-2	Acetophenone	0.079	Catalyst; Flavour and fragrance agent
	134-62-3	N,N-Diethyl-m-toluamide	0.075	DEET; Insect repellent
	115-96-8	Tri-(2-chloroethyl) phosphate	0.062	Flame retardant; Plasticizer
	58-08-2	Caffeine	0.043	Psychoactive stimulant drug
	6197-30-4	Octocrylene	0.039	UV-filter
	118-56-9	Homosalate	0.038	UV filter; Sunscreens
	119-61-9	Benzophenone	0.031	Intermediate; Personal-care-products
	79-01-6	Trichloroethylene	0.021	Volatile Solvent

	96-76-4	2,4-Di-tert-butylphenol	0.020	UV Stabilizer
	935-95-5	2,3,5,6-Tetrachlorophenol	0.018	Surfactant
	122-39-4	Diphenylamine	0.017	Pesticide; Fungicide; Veterinary drug
	87-41-2	1(3H)-Isobenzofuranone	0.011	Intermediate
	129-00-0	Pyrene	0.002	Poly Aromatic Hydrocarbon (PAH)
	86-73-7	Fluorene	0.002	Poly Aromatic Hydrocarbon (PAH)
	206-44-0	Fluoranthene	0.001	Poly Aromatic Hydrocarbon (PAH)
Ocean_02	84-66-2	Diethyl phthalate	1.000	Plasticizer
	98-86-2	Acetophenone	0.163	Catalyst; Flavour and fragrance agent
	75-25-2	Bromoform	0.120	Volatile Solvent
	131-11-3	Dimethyl phthalate	0.084	Plasticizer
	3622-84-2	Benzenesulfonamide, N-butyl	0.083	Neurotoxic plasticiser
	131-57-7	Benzophenone-3	0.011	Personal-care-products; Sun blocker
	134-62-3	N,N-Diethyl-m-toluamide	0.011	DEET; Insect repellent
	79-01-6	Trichloroethylene	0.008	Volatile Solvent
	74-95-3	Dibromomethane	0.006	Volatile Solvent
	91-20-3	Naphthalene	0.005	Poly Aromatic Hydrocarbon (PAH)
	122-39-4	Diphenylamine	0.003	Pesticide; Fungicide; Veterinary drug
	496-11-7	Indane	0.002	Petrochemical compound
	86-73-7	Fluorene	0.001	Poly Aromatic Hydrocarbon (PAH)
	91-57-6	2-Methylnaphthalene	0.001	Intermediate; Dyes
Ocean_03	84-66-2	Diethyl phthalate	1.000	Plasticizer
	98-86-2	Acetophenone	0.185	Catalyst; Flavour and fragrance agent
	6197-30-4	Octocrylene	0.119	UV-filter
	131-11-3	Dimethyl phthalate	0.104	Plasticizer
	119-61-9	Benzophenone	0.037	Intermediate; Personal-care-products
	149-57-5	2-Ethylhexanoic acid	0.027	Catalyst
	131-57-7	Benzophenone-3	0.026	Personal-care-products; Sun blocker
	134-62-3	N,N-Diethyl-m-toluamide	0.018	DEET; Insect repellent
	79-01-6	Trichloroethylene	0.007	Volatile Solvent
	496-11-7	Indane	0.002	Petrochemical compound
Outfall S1a	84-66-2	Diethyl phthalate	1.000	Plasticizer
	98-86-2	Acetophenone	0.180	Catalyst; Flavour and fragrance agent
	131-11-3	Dimethyl phthalate	0.178	Plasticizer
	75-25-2	Bromoform	0.080	Volatile Solvent
	134-62-3	N,N-Diethyl-m-toluamide	0.016	DEET; Insect repellent
	131-57-7	Benzophenone-3	0.011	Personal-care-products; Sun blocker
	79-01-6	Trichloroethylene	0.009	Volatile Solvent
	122-39-4	Diphenylamine	0.005	Pesticide; Fungicide; Veterinary drug
	91-20-3	Naphthalene	0.005	Poly Aromatic Hydrocarbon (PAH)
	86-73-7	Fluorene	0.001	Poly Aromatic Hydrocarbon (PAH)
	91-57-6	2-Methylnaphthalene	0.001	Intermediate; Dyes
Outfall S2a	84-66-2	Diethyl phthalate	1.000	Plasticizer
	3622-84-2	Benzenesulfonamide, N-butyl	0.380	Neurotoxic plasticiser
	131-11-3	Dimethyl phthalate	0.322	Plasticizer
	98-86-2	Acetophenone	0.174	Catalyst; Flavour and fragrance agent
	134-62-3	N,N-Diethyl-m-toluamide	0.043	DEET; Insect repellent
	87-86-5	Pentachlorophenol	0.038	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	131-57-7	Benzophenone-3	0.030	Personal-care-products; Sun blocker
	115-96-8	Tri-(2-chloroethyl) phosphate	0.021	Flame retardant; Plasticizer

	79-01-6	Trichloroethylene	0.016	Volatile Solvent
	58-08-2	Caffeine	0.012	Psychoactive stimulant drug
	935-95-5	2,3,5,6-Tetrachlorophenol	0.009	Surfactant
	122-39-4	Diphenylamine	0.007	Pesticide; Fungicide; Veterinary drug
	87-41-2	1(3H)-Isobenzofuranone	0.007	Intermediate
	86-73-7	Fluorene	0.001	Poly Aromatic Hydrocarbon (PAH)
Outfall S2e	84-66-2	Diethyl phthalate	1.000	Plasticizer
	131-11-3	Dimethyl phthalate	0.228	Plasticizer
	3622-84-2	Benzenesulfonamide, N-butyl	0.178	Neurotoxic plasticiser
	98-86-2	Acetophenone	0.177	Catalyst; Flavour and fragrance agent
	131-57-7	Benzophenone-3	0.018	Personal-care-products; Sun blocker
	134-62-3	N,N-Diethyl-m-toluamide	0.015	DEET; Insect repellent
	79-01-6	Trichloroethylene	0.014	Volatile Solvent
	122-39-4	Diphenylamine	0.006	Pesticide; Fungicide; Veterinary drug
	91-20-3	Naphthalene	0.005	Poly Aromatic Hydrocarbon (PAH)
	87-86-5	Pentachlorophenol	0.004	Pesticide; Herbicide; Insecticide; Fungicide; Veterinary drug; Antiseptic
	91-57-6	2-Methylnaphthalene	0.001	Intermediate; Dyes
Outfall S2f	134-62-3	N,N-Diethyl-m-toluamide	0.711	DEET; Insect repellent
	75-25-2	Bromoform	0.100	Volatile Solvent
	6197-30-4	Octocrylene	0.064	UV-filter
	36861-47-9	4-Methyl-benzylidene camphor	0.049	Personal-care-products; Sun blocker
	119-61-9	Benzophenone	0.030	Intermediate; Personal-care-products
	131-57-7	Benzophenone-3	0.016	Personal-care-products; Sun blocker
	58-08-2	Caffeine	0.012	Psychoactive stimulant drug
	74-95-3	Dibromomethane	0.007	Volatile Solvent
	1025-15-6	1,3,5-Triallyl-1,3,5-triazine-2,4,6 (1H,3H,5H)-trione	0.002	Polymer Agent
Outfall S2g	75-25-2	Bromoform	0.110	Volatile Solvent
	134-62-3	N,N-Diethyl-m-toluamide	0.046	DEET; Insect repellent
	36861-47-9	4-Methyl-benzylidene camphor	0.018	Personal-care-products; Sun blocker
	74-95-3	Dibromomethane	0.007	Volatile Solvent
Plantation R&R	118-56-9	Homosalate	0.219	UV filter; Sunscreens
	6197-30-4	Octocrylene	0.124	UV-filter
	75-25-2	Bromoform	0.120	Volatile Solvent
	119-61-9	Benzophenone	0.062	Intermediate; Personal-care-products
	58-08-2	Caffeine	0.027	Psychoactive stimulant drug
	134-62-3	N,N-Diethyl-m-toluamide	0.025	DEET; Insect repellent
	74-95-3	Dibromomethane	0.014	Volatile Solvent
	78-59-1	Isophorone	0.004	Solvent
	36861-47-9	4-Methyl-benzylidene camphor	0.003	Personal-care-products; Sun blocker
	93-04-9	2-Methoxynaphthalene	0.003	Intermediate; Stabilizer
	607-99-8	2,4,6-Tribromoanisole	0.001	Pesticide; Fungicide
Thunder Cove	134-62-3	N,N-Diethyl-m-toluamide	7.700	DEET; Insect repellent
	75-25-2	Bromoform	0.150	Volatile Solvent
	3622-84-2	Benzenesulfonamide, N-butyl	0.038	Neurotoxic plasticiser
	74-95-3	Dibromomethane	0.014	Volatile Solvent
	36861-47-9	4-Methyl-benzylidene camphor	0.006	Personal-care-products; Sun blocker

Waste Management	10544-50-0	Sulfur (S8)	0.003	Pesticide; Insecticide; Fungicide
	607-99-8	2,4,6-Tribromoanisole	0.001	Pesticide; Fungicide
	118-56-9	Homosalate	0.463	UV filter; Sunscreens
	75-25-2	Bromoform	0.200	Volatile Solvent
	6197-30-4	Octocrylene	0.158	UV-filter
	119-61-9	Benzophenone	0.059	Intermediate; Personal-care-products
	74-95-3	Dibromomethane	0.031	Volatile Solvent
	108-43-0	3-Chlorophenol	0.016	Pesticide; Herbicide; Disinfectant
	134-62-3	N,N-Diethyl-m-toluamide	0.009	DEET; Insect repellent
	118-60-5	2-Ethylhexyl salicylate	0.005	UV Absorber
	607-99-8	2,4,6-Tribromoanisole	0.003	Pesticide; Fungicide
	86-74-8	Carbazole	0.002	Intermediate; Dye

2 Supplementary Figures

None