



Resource Management (Marine Pollution) Amendment Regulations 2002

Sian Elias, Administrator of the Government

Order in Council

At Wellington this 15th day of April 2002

Present:

Her Excellency the Administrator of the Government in Council

Pursuant to section 360(1)(ha), (hf), and (hg) of the Resource Management Act 1991, Her Excellency the Administrator of the Government, acting on the advice and with the consent of the Executive Council, makes the following regulations.

Contents

1	Title	Schedule 1
2	Commencement	New Schedule 5 added to principal regulations
3	Interpretation	Schedule 2
4	Dumping of waste or other matter	New Schedule 6 added to principal regulations
5	Discharge of sewage in coastal marine area	Schedule 3
6	New regulations 12 and 12A substituted	New Schedule 7 added to principal regulations
	12 Discharge of Grade A treated sewage in coastal marine area	
	12A Discharge of Grade B treated sewage in coastal marine area	
7	New Schedules 5 to 7 added to principal regulations	

Regulations

1 Title

- (1) These regulations are the Resource Management (Marine Pollution) Amendment Regulations 2002.
- (2) In these regulations, the Resource Management (Marine Pollution) Regulations 1998¹ are called “the principal regulations”.

¹ SR 1998/208

2 Commencement

These regulations come into force on 1 July 2002.

3 Interpretation

- (1) Regulation 2(1) of the principal regulations is amended by inserting, in their appropriate alphabetical order, the following definitions:

“**Grade A treated sewage** means sewage discharged from a treatment system included in Schedule 5 or Schedule 6 that is maintained and operated in good working order and in accordance with any instructions of the system’s manufacturer

“**Grade B treated sewage** means sewage discharged from a treatment system included in Schedule 7 that is maintained and operated in good working order and in accordance with any instructions of the system’s manufacturer

“**plastics** includes synthetic ropes, synthetic fishing nets, plastic garbage bags, and incinerator ashes from plastic products that may contain toxic or heavy metal residues”.

- (2) Regulation 2(1) of the principal regulations is amended by revoking the definition of **treated sewage**.

4 Dumping of waste or other matter

Regulation 4(2) of the principal regulations is amended by inserting, after the words “other matter”, the words “from any ship, aircraft, or offshore installation”.

5 Discharge of sewage in coastal marine area

- (1) Regulation 11(2) of the principal regulations is amended by adding the word “; and” and also by adding the following paragraphs:

- “(d) more than 200 metres (0.108 nautical miles) from a marine reserve, except the marine reserve constituted by the Marine Reserve (Kermadec Islands) Order 1990; and
- “(e) more than 500 metres (0.27 nautical miles) from an area that the Minister of Fisheries has declared by notice in the *Gazette* to be a mataitai reserve under regulations made under section 186 of the Fisheries Act 1996.”
- (2) Regulation 11(3)(a) of the principal regulations is amended by inserting, after the words “parts of a region”, the words “, or increases the distances from a marine farm, marine reserve, or mataitai reserve specified in subclause (2),”.

6 New regulations 12 and 12A substituted

The principal regulations are amended by omitting regulation 12, and substituting the following regulations:

“12 Discharge of Grade A treated sewage in coastal marine area

- “(1) Any person may discharge Grade A treated sewage in the coastal marine area from a ship or offshore installation, but must not discharge it within 100 metres of a marine farm.
- “(2) Despite subclause (1), a rule may be included in a regional coastal plan or a proposed regional coastal plan if the rule—
- “(a) relates to discharges of Grade A treated sewage in the internal waters of Fiordland (as defined in section 4 of the Territorial Sea, Contiguous Zone, and Exclusive Economic Zone Act 1977); and
- “(b) restricts where those discharges may take place, being a distance of at least 100 metres from a marine farm; and
- “(c) does not relate to vessels operated by the New Zealand Defence Force.
- “(3) For the purposes of subclause (2), **Fiordland** means the coastal marine area between Awarua Point and Sandhill Point.

“12A Discharge of Grade B treated sewage in coastal marine area

- “(1) Any person may discharge Grade B treated sewage in the coastal marine area from a ship or offshore installation, but must not discharge it—

- “(a) within 500 metres (0.27 nautical miles) of a marine farm; or
 - “(b) within 500 metres (0.27 nautical miles) of an area that the Minister of Fisheries has declared by notice in the *Gazette* to be a mataitai reserve under regulations made under section 186 of the Fisheries Act 1996.
- “(2) A rule may only be included in a regional coastal plan or a proposed regional coastal plan relating to discharges under this regulation if the rule does either or both of the following:
- “(a) specifies the distances from mean high-water springs or the depth where those discharges may take place for all or any part of the year, being distances of at least 500 metres (0.27 nautical miles) from—
 - “(i) a marine farm; or
 - “(ii) a mataitai reserve:
 - “(b) increases the distance from a marine farm or a mataitai reserve where those discharges may take place for all or any part of the year, being at a distance of more than 500 metres (0.27 nautical miles).”

7 **New Schedules 5 to 7 added to principal regulations**

The principal regulations are amended by adding the following schedules:

- (a) Schedule 5, which is set out in Schedule 1; and
 - (b) Schedule 6, which is set out in Schedule 2; and
 - (c) Schedule 7, which is set out in Schedule 3.
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Schedule 1

r 7(a)

New Schedule 5 added to principal regulations

Schedule 5

r 3(1)

Grade A sewage treatment systems

(Approved in accordance with International Maritime Organisation
resolution MEPC.2(VI))

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)	
1 Brazil	1 Tridente Ind. E. Comercio de Equipamentos Navais Ltda. 20090 Rio de Janeiro	"Super Trident"			
		ST25X	17.5	15.0	
		ST 2	1.6	1.2	
		ST 4	3.01	2.4	
		ST 6	4.55	3.6	
		ST 8	6.0	4.8	
		ST10	7.4	6.0	
		ST13	9.6	7.8	
		ST15	11.0	9.0	
		ST20	14.5	12.0	
		ST25	17.5	15.0	
		ST30	23.1	18.0	
			"Retrofit Trident"		
			RT20	1.6	1.2
			RT40	3.01	2.4
		RT60	4.55	3.6	
		RT80	6.0	4.8	
		2 SEMCO SA Sao Paulo	"Super Trident"		
			ST 2	1.6	1.2
			ST 4	3.01	2.4
			ST 6	4.55	3.6
			ST 8	6.0	4.8
			ST10	7.4	6.0
	ST13		9.6	7.8	
	ST15		11.0	9.0	
	ST20	14.5	12.0		
	ST25	17.5	15.0		
	ST30	23.1	18.0		
		"Retrofit Trident"			
		RT20	1.6	1.2	
		RT40	3.01	2.4	
		RT60	4.55	3.6	
		RT80	6.0	4.8	
2 Bulgaria	1 MICHAILOV MV CO. Bourgas	TYPE 434	1.5	1.8	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)		
3 China	1 Shanghai Marine Instrument and Equipment Works, 200 Minseng Rd, Shanghai	CSWA-3	2.4	0.72		
	2 Taixing Ship's Machinery Works Taixing, Jiangsu	WCX-36	39.6	1.26		
		WCX-24	26.4	0.84		
		WCB-300(s)	22.32	15.50		
		WCB-250(S)	18.24	13.00		
		WCB-200(S)	14.40	10.50		
		WCB-150(S)	10.32	8.00		
		WCB-100(S)	7.44	5.50		
		WCB-80	6.00	4.30		
		WCB-60	4.56	3.30		
		WCB-50	3.60	2.70		
		WCB-40	2.88	2.20		
		WCB-30	2.16	1.60		
		WCB-25	1.75	1.25		
	WCB-20	1.44	1.10			
	WCB-15	1.19	0.85			
	WCB-10	0.72	0.60			
	WCB-6	0.42	0.21			
	3 Zhangjiang Marine Auxiliary Machinery Factory Zhangjiang, Jiangsu	4 WCB-40Z	3.08	1.54		
		4 Luzhou Machinery Works Nanjing, Jiangsu	ST1	0.85	0.6	
ST2			1.6	1.2		
ST3			2.31	1.8		
ST4			3.01	2.4		
ST6			4.55	3.6		
ST8			6.0	4.8		
ST10			7.4	6.0		
ST15			11.0	9.0		
RT40			3.01	2.4		
4 Croatia			1 Ekološki sistemi d.o.o., 47000 Karlovac, Mala Švar a, 155	BRODOPUR45	3.15	2.70
				BRODOPUR BP-25	1.6	1.38
				BRODOPUR BP-45	3.15	2.70
	2 tvornica Turbina d.o.o., Kneza Branimira 8 4700 Karlovac		BRODOPUR BP-25	1.6	1.38	
5 Denmark	1 Atlas A/S Baltorpvej 154 DK 2750 Ballerup Copenhagen	AWWU	36.0	—		

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
6 Germany	1 VEB Abwasserbehandlungsanlagen Merseburg	KA-MR 1.5 S 50C	1.75:5.0	1.14:3.25
		KA-MR 1.5 S 50B	1.5:4.25	0.98:2.76
	2 Wasserbehandlung Merseburg GmbH Amtshluser 23-29 4200 Merseburg	KA-MR 1.5 S 50-1/E	2.0	1.3
	3 KG Hamman Wassertechnik GmbH P.O. Box 21 31 2105 Hamburg Seevetal 2	HL-Cont	108.0	816.0
		HlRCont	720.0	540.0
		HL-Cont	360.0	270.0
		HlRCont	168.0	126.0
		HLrCont	96.0	72.0
		HLrCont 1 m ³ h	24.0	18.0
		HL-Cont 7	168.0	126.0
		HL-Compact-Mini HL-Cont C-45	24.0 96.0	18.0 72.0
	4 Format-Chemie und Apparate GmbH 2086 Ellerau	MSTP 1	6.0	3.0
		MSTP 1	6.6	3.3
		MSTP 1A	3.3	1.65
		MSTP 1B	4.5	2.25
		MSTP 2	12.0	6.0
		MSTP 3	18.0	9.0
		MSTP 4	22.5	11.25
		MSTP 5	33.0	16.5
		MSTP 6	48.0	24.0
		MSTP 7	69.0	34.5
		MSTP 8	150.0	75.0
	MSTP 9	300.0	150.0	
	5 Format-Chemie GmbH P.O. Box 1263 25476 Ellerau	MSTP 1A	1.26	0.48
		MSTP 1B	2.10	0.81
		MSTP 1	2.50	0.95
		MSTP 2	3.85	1.49
		MSTP 3	5.25	2.03
		MSTP 4	6.65	2.57
		MSTP 5	9.80	3.80
		MSTP 6	14.00	5.40
		MSTP 7	21.00	8.10
		MSTP 8	45.50	17.60
	MSTP 9	91.00	35.10	
	6 Apparatebau Salzkotten GmbH Ferdinand-Henze-Strasse 9 33154 Salzkotten	Bio-Compact KSA-S-10	1.75	0.8
		Bio-Compact KSA-S-15	2.625	1.2
		Bio-Compact KSA-S-20	3.5	1.6
		Bio-Compact KSA-S 25	4.375	2.0

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)	
6 Germany— <i>continued</i>		Bio-Compact KSA-S-35	6.125	3.060	
		Bio-Compact KSA-S-50	8.750	4.375	
		Bio-Compact KSA-S-100	17.5	8.0	
		Bio-Compact KSA-S-200	35.0	15.0	
		Bio-Compact KSA-S-300	52.5	21.45	
		Bio-Compact KSA-S-600	105.0	36.0	
		Bio-Compact KSA-S-800	140.0	48.0	
	7 Aquachem- industrielle Wasserbehand- lungs-GmbH, 14-16 5000 Köln		BIO AQUA Aerob 35	6.125	2.6
			BIO AQUA Aerob 45	9.625	6.875
			BIO AQUA Aerob 55	7.875	3.4
		BIO AQUA Aerob 18/36	3.15	2.7	
		BIO AQUA Aerob 25/50	4.375	3.72	
		BIO AQUA Aerob 35/70	6.125	5.25	
		BIO AQUA Aerob 55/110	9.625	8.25	
		BIO AQUA Aerob 150/300	12.6	23.6	
		Bio AQUA Aerob 75/150	13.125	39.375	
		Bio AQUA Aerob 100/200	13.125	39.375	
		Bio AQUA Aerob 140/280	17.5	52.5	
		Bio AQUA Aerob 240/480	24.5	73.5	
8 Paul Pleiger Maschinenfabrik GmbH & Co. KG, D-5810 Witten 3		BIOMAT BS 10	45.0	135.0	
		BS 15	2.2	0.8	
		BS 20	3.3	1.17	
		BS 25	4.4	1.5	
9 Willi Becker Ingenieurburo GmbH Hamburg		“HELI-FLOW” BF 5M	5.5	1.75	
		“HELI-FLOW” HF 10M	0.38	0.3	
		“HELI-FLOW” BF 13M	0.76	0.6	
		“HELI-FLOW” MY 19M	0.98	0.78	
		“HELI-FLOW” BF 26M	1.42	1.14	
		“HELI-FLOW” BF 26M	1.97	1.56	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
6 Germany— <i>continued</i>		“HELI-FLOW” BF 32M	2.42	1.92
		“HELI-FLOW” BF 41 M	3.10	2.46
		“HELI-FLOW” HF 58M	4.39	3.48
		“HELI-FLOW” BF 71 M	5.38	4.26
		“HELI-FLOW” HF 84M	6.36	5.04
	10 Aqua Mar GmbH	Aqua Mar Bio Unit MSP I	2.62	1.25
	Rothenbacher Weg 4a	Aqua Mar Bio Unit MSP II	5.75	2.47
	5064	Aqua Mar Bio Unit MSP III	7.875	3.38
	Rosrath 1	Aqua Mar Bio Unit MSP IV	12.25	5.25
		Aqua Mar Bio Unit MSP V	26.5	11.25
		Aqua Mar Bio Unit MSP VI	44.0	19.5
		Aqua Mar Bio Unit MSP VII	70.0	21.0
		Aqua Mar Bio, Unit MSP VIII	105.0	32.0
		Aqua Mar Bio Unit MSP IX	142.0	47.6
		Aqua Mar Bio Unit MSP X	172.0	75.0
		Aqua Mar Bio Unit MSP 25	4.38	1.875
		Aqua Mar Bio Unit MSP 60	10.5	4.5
		Aqua Mar Bio Unit MSP 80	13.12	5.63
	11 Aqua chem-industrielle Abwasserbehandlung-GmbH	Bio Aqua Aerob 45/90	7.815	23.625
	Quellenweg 13	Bio Aqua Aerob 12	2.1	0.89
5060	Bio Aqua Aerob 12/24	2.1	1.80	
Bergisch-Gladbach 1	Bio Aqua Aerob 25/50	4.375	13.125	
	Bio Aqua Aerob 35/70	6.125	18.375	
	Bio Aqua Aerob 45/90	7.875	23.625	
	Bio Aqua Aerob 55/110	9.625	28.875	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
6 Germany— <i>continued</i>	12 Citex Maschinen-Apparatebau Gastechnik GmbH 2000 Hamburg 71	CEAK 35/50	12.0	600.0
	13 Schiffsanlagenbau Barth GmbH, Chausseestr. 5B 0-2380 Barth	MSA 2.5 MSA 5 MSA 10 MSA 15 MSA 2.5 CL MSA 5CL	1.75-3.5 3.5-6.75 6.75-13.5 13.5-20.25 1.75-3.5 3.5-6.75	1.1-2.3 2.3-4.4 4.4-8.8 8.8-13.2 1.1-2.3 2.3-4.4
	14 VEB Kombinat Schiffbau Rostock	KAREA25	25.0	12.5
	15 Aquamar GmbH Zum Alten Wasserwerk 6 D-51491 Overath	Bio unit MSP III Bio unit MSP 1 Bio unit MSP 25 Bio unit MSP II Bio unit MSP 60 Bio unit MSP IV Bio unit MSP 80	7.875 2.62 4.38 5.75 10.5 12.25 13.12	3.38 1.125 1.875 2.47 4.5 5.15 5.63
	16 Hamann Wassertechnik GmbH P.O.B2201 D-21202 Seevetal	Basis-Frame Norway-Frame L-Frame Norway-Frame Double-Frame L-Frame Norway-Frame Double-Frame L-Frame Norway-Frame Double-Frame Compact-Mini -Big-Tank Mini-Frame-Big Norway-Frame-Big HL-Cont Super Mini HL-Cont (1 m ³ /h) Compact-Mini HL-Cont. (96 m ³ /d) HL-Cont. (168 m ³ /d) HL-Cont. (360 m ³ /d) HL-Cont. (720 m ³ /d) HL-Cont. (1080 m ³ /d)	24.0 24.0 96.0 96.0 96.0 168.0 168.0 168.0 360.0 360.0 360.0 36.0 36.0 2.52 24.0 96.0 168.0 360.0 720.0 1080.0	18.0 18.0 72.0 72.0 72.0 126.0 126.0 126.0 270.0 270.0 270.0 27.0 27.0 1.89 18.0 72.0 126.0 270.0 540.0 810.0
	17 Triton-Format GmbH Wemer-von-	MSTP IA MSTP 1B MSTP 1	1.26 2.1 2.5	0.48 0.81 0.95

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
6 Germany— <i>continued</i>	Siemen-Str. 2 25479	MSTP 2	3.85	1.49
		MSTP 3	5.25	2.03
	Ellerau	MSTP 4	6.65	2.57
		MSTP 5	9.8	3.8
		MSTP 6	14.0	5.4
		MSTP 7	21.0	8.1
		MSTP 8	45.5	17.6
		MSTP 9	91.0	35.1
		MSTP 10-1500V	37.5	40.5
		MSTP 11-1800V	45.0	48.6
		18 MARTIN SYSTEMS AG Bettelhecker Str.25 96515	Sonneberg	STKS 65
STKS 25	5.50			2.30
STKS 110	16.80			9.92
STKS 250	35.00			22.50
STKS 300	42.50			25.50
19 UTS Maschinen- und Ausrüstungs- bau GmbH Friedrich-Engels- Str. 23-25 96515 Sonneberg		BMA 15	2.40	1.35
		STKS 25	5.50	2.30
20 DVZ-Services GmbH Waldstrasse 23 D-28844 Weyhe		DVZ-MSD II/10	0.85	0.95
		DVZ-MSD II/20	1.73	1.90
		DVZ-MSD II/30	2.59	2.85
		DVZ-MSD II/40	3.46	3.80
		DVZ-MSD II/50	4.32	4.75
		DVZ-MSD II/60	5.18	5.70
		DVZ-MSD II/70	6.04	6.65
		DVZ-MSD II/80	6.91	7.60
		DVZ-MSD II/100	8.64	9.50
		DVZ-MSD II/120	10.36	11.40
		DVZ-MSD II/140	12.08	13.30
		DVZ-MSD II/160	13.82	15.20
		DVZ-MSD II/180	15.54	17.10
		DVZ-MSD II/200	17.28	19.00
		DVZ-MSD II/240	20.72	22.80
		DVZ-MSD II/300	22.464	24.71
		DVZ-SKA 10 "Biomaster"	1.85	1.29
		DVZ-SKA 20 "Biomaster"	3.70	2.58
		DVZ-SKA 30 "Biomaster"	5.50	3.86
DVZ-SKA 40 "Biomaster"	7.40	5.15		

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
6 Germany— <i>continued</i>		DVZ-SKA 50 “Biomaster”	9.20	6.40
		DVZ-SKA 70 “Biomaster”	12.95	6.48
	21 VA TECH	MEMROD LT 10	1.8	0.9
	WABAG ESMIL GmbH	MEMROD LT 25	3.75	2.25
	Lise-Meitner-Str.4a 40878 Ratingen	MEMROD LT 230	34.5	20.7
	22 Rochem	Bio-Filt ® 03/06	24.0	10.0
	UF-Systeme GmbH	Bio-Filt ® 16/18 TWIN	150.0	230.0
	Stadtshausbrücke 1-3 Fleethof 20355 Hamburg			
	23 MARTIN	BMA 25	5.0	2.25
	SYSTEMS AG Ackerstrasse 40 D-96515 Sonneberg	BMA 15	2.4	1.35
	24 RWO	WWT3 BIOPUR	4.63	2.174
	Abwassertechnik GmbH	WWT4 BIOPUR	6.48	3.04
	Leerkämpe 3	WWT1 BIOPUR	1.76	0.83
	D-28259 Bremen	WWT2 BIOPUR	2.59	1.22
		WWT5 BIOPUR	9.81	4.61
7 Finland	1 Aquamaster- Rauma Oy P Box 220 SF-26101 Rauma	UNEX BIO-20	1.4	0.7
		UNEX BIO-40	2.8	1.4
		UNEX BIO-60	4.2	2.1
		UNEX BIO-80	5.6	2.8
		UNEX BIO-100	7.0	3.5
		UNEX BIO-200	14.0	7.0
		UNEX BIO-600	42.0	21.0
		UNEX BIO-800	56.0	28.0
		UNEX BIO SECTIONAL		
		20	1.4	0.7
		40	2.8	1.4
		60	4.2	2.1
		80	5.6	2.8
		UNEX Cem		
		-3	72.0	28.8
		-7.5	180.0	72.0
		-15	360.0	144.0
		UNEX SIMULTAN		
		-10	3.0	1.5
		-15	4.0	2.0
-40	12.0	6.0		
-60	18.0	9.0		
-80	24.0	12.0		
-100	30.0	15.0		

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
8 Greece	1 Environmental Protection Engineering Ltd 88 Iroon Polytechniou Str. 18536 Piraeus	TRITON 196	1.96	0.85
		TRITON 1900	19.00	8.34
		TRITON 408	4.08	1.77
		TRITON 1000	10	4.34
		TRITON 4000	40	17.35
9 Italy	1 Pollution Control Engineering Sr. I, Trattacento Acque Via Dei Mille 99, La Spezia	BIODISK FVN 25	2.5	(less than the standards)
		BIODISK FVN 30	4.0	
		BIODISK FVN 50	6.0	
		BIODISK FVN 60	8.0	
		BIODISK FVN 100	15.0	
		BIODISK FVN 200	30.0	
	2 I.S.L.R. Sas di Antonelli & C 16165 Genova Struppa	BIODISK FVN 300	45.0	
		BIOEPURO-B/50	5.0	
		75	15.0	
		25	2.5	
		20	2.0	
		75-2	7.5	
		100	10.0	
10 Japan	1 Sasakura Engineering Co. Ltd Osaka 500	Super Trident ST2	1.6	1.2
		Super Trident ST4	3.01	2.4
		Super Trident ST6	4.55	3.66
		Super Trident ST8	6.0	4.8
		Super Trident ST10	7.4	6.0
		Super Trident ST15	11.0	9.0
		Super Trident ST20	14.5	12.0
		Super Trident ST25	17.5	15.0
		Super Trident ST30	23.1	18.0
		Super Trident ST2A	1.6	1.2
		Super Trident ST3A	2.31	1.8
		Super Trident ST4A	3.01	2.4
		Super Trident ST6A	4.55	3.6
		Super Trident ST2N	1.6	1.2
		Super Trident ST4N	3.01	2.4
		Super Trident ST6N	4.55	3.6
		Super Trident STBN	6.0	4.8
		Super Trident ST10N	7.4	6.0
		Super Trident STI 5N	11.0	9.0
		Super Trident ST20N	14.5	12.0
		Super Trident ST25N	17.5	15.0
		Super Trident ST30N	23.1	18.0
		Retro-fit	1.6	1.2
Trident RT 20				
Retro-fit	3.01	2.4		
Trident RT 40				
Retro-fit	4.55	3.6		
Trident RT 60				

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
10 Japan— <i>continued</i>		Retro-fit Trident RT 80	6.0	4.8
	2 Nissin Refrigeration and Engineering Ltd Osaka	Marine Defecamat NST-20	1.2	0.27
		Marine Defecamat NST-30	1.8	0.405
		Marine Defecamat NST-40	2.4	0.54
		NST-50	3.0	0.67
		NST-60	3.6	0.81
		NST-70	4.2	0.94
		NST-80	4.8	1.08
		NST-90	5.4	1.21
		NST-100	6.0	1.35
		NST-125	7.5	1.68
		NST-150	9.0	2.02
		NST-300	18.0	4.05
		NST-400	24.0	5.40
		NST-500	30.0	6.75
		NST-650	39.0	8.77
		NST-750	45.0	10.12
		Marine Defecamat NST-20H	1.2	0.27
		Marine Defecamat NST-25H	1.5	0.338
		Marine Defecamat NST-30H	1.8	0.405
		Marine Defecamat NST-40H	2.4	0.54
	3 Taiko Kikai Industries Co. Ltd 209 Shimotabuse Tabuse-cho Kamaga-Gun Yamaguchi-Pref Japan 742-15	TAIKO SHIPCLEAN BFT 40	2.4	0.54
		AP-2 SHIPCLEAN	1.2	0.27
		AP-3 SHIPCLEAN	1.8	0.405
		AP-4 SHIPCLEAN	2.4	0.54
		AP-5 SHIPCLEAN	3.0	0.675
		AP-6 SHIPCLEAN	4.5	1.0125
		AP-7 SHIPCLEAN	6.0	1.35
		SBT-15	0.9	0.2025
		SBT-25	1.5	0.3375
		SBT-40	2.4	0.54
		SBT-65	3.9	0.8775
	4 Goko Seisakusho Co. Ltd. 27-3, 5-chome Shimbashi Minato-ku Tokyo	“AEROBICT C” TF 20	0.7	0.27
		“AEROBICT” TF 25	0.337	
		1.0	1.6	0.540
		“AEROBICT C” TF 40	0.6752.1	
		“AEROBICT” TF 50	0.540	0.81
		2.0	1.08	
		“AEROBICT C” TF 60		
		“AEROBICT” TF 40	1.62	0.54

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
10 Japan— <i>continued</i>		1.6 “AEROBICT” TF 80		
		3.2 “AEROBICT” TF 120		
		4.8		
	5 Nippon Kokan, Yokohama	NKK-25 D II	1.5	0.337
	6 Japan Development Consultants Inc. 1 Tatagami-cho Sasebo-City Nagasaki	CLEAN FRIEND BFM-35	2.13	
11 Netherlands	1 Holland Marine Services Amsterdam b.v Vlothavenweg 16, 1013 BJ Amsterdam, The Netherlands	MSD-11 Series	4.0	1.1
12 Poland	1 Pomorskie Zaklady Urzadzen Okretowych “WARMA” 86-300 Grudziadz Ul. Lotnicza 21	LK-30A	1.95	1.36
		LK-100	6.5	4.55
		LK-200	13.0	9.1
		LK-320	20.8	14.56
		LK-30	1.95	1.8
		LK-50	3.25	3.0
		LK-100	6.5	6.0
		LK-200	13.0	12.0
		LK-320	20.8	19.2
		MOS40	40.0	27.9
		MOS-2S	2.5	1.75
2 Centrum Techniki Morskie; OBR Gdansk, Ul J. Matejki 6	TELKA 03	6.0	4.5	
3 Stocznia Szczecinska Im. Adolfa Warskiego Szczecin	B 430-7	1.3	0.9	
4 Zaklady Doswiadczalno- Produkcyjnych “TECHMOR” ul. Marynarki Polskiej 59, Gdansk	TELKA 06	12.0	9.0	
13 Republic of Korea	1 Consolidated Machinery Inc. Yang San	BIO AQUA 35	6.125	2.6
		BIO AQUA 25	4.375	1.86
		BIO AQUA 18	3.15	1.34
		BIO AQUA 55	9.625	4.125

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)		
13 Republic of Korea— <i>continued</i>		BIO AQUA 45	7.875	3.4		
		AEROB-12	2.1	.89		
		AEROB-12C	2.1	.89		
		AEROB-18	3.15	1.34		
		AEROB-18C	3.15	1.34		
		AEROB-25	4.375	1.86		
		AEROB-35	6.125	2.6		
		AEROB-45	7.875	3.4		
		AEROB-55	9.625	4.125		
	2	HandOK	HDST -150	0.9		
		Precision Ind;	HDST -250	1.5		
		Kangseo-Gu	HDST -400	2.4		
		Seoul	HDST -650	3.9		
	3	Chang Won Environment Ind. Co. Ltd	SEACLEAN II-IOCE	0.3		
		Kim hai	SEACLEAN II-20CE	0.6		
		Kyung Nam-Do	SEACLEAN U-30CE	0.9		
			SEACLEAN U-50CE	1.5		
			SEACLEAN' II-150CE	4.5		
			SEACLEAN II-30CE-S	0.9		
			SEACLEAN II-50CE-S	1.5		
			SEACLEAN II-50CE(B)	2.4		
			SEACLEAN II-50CE(B)	2.4		
			SEACLEAN II-100CE	3.0		
			SEACLEAN II-100CE-S	3.0		
			SEACLEAN II-150CE-S	4.5		
			SEACLEAN II-300CE	9.0		
	4	Changkwang Engineering Co., Ltd	HDST-150	0.9		
		Youngdeungpo-Ga,	HDST-250	1.5		
		Seoul	HDST-400	2.4		
			HDST-650	3.9		
	14 Russian Federation	1	Sudoimport Moskva Smolenskaia - Sennaia pl 32/34	EOS-15	15.0	6.0
				EOS-5	5.0	2.5
		2	"EKOS Ltd" Barrikadnaija st. 36, fl. 8 St. Petersburg	STOK-IOMI	10.0	5.0
			STOK-50M	50.0	25.0	
3		Krasnoputilovskai St 55-6 198152 St. Petersburg	STOK-30M	30.0	15.0	
			STOK-70M	70.0	35.0	
15 Spain	1	DETEGASA Ctra. Castro-Meiras 15550 Valdovino La Coruna	<i>PHYSICAL-CHEMICAL</i>			
			DELTA FQ-6	6.0	3.3	
			DELTA FQ-10	10.0	5.5	
			DELTA FQ-15	15.24	8.3	
			DELTA FQ-22	22.0	12.1	
			DELTA FQ-24	24.0	13.2	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)	
15 Spain— <i>continued</i>		DELTA FQ-28	28.0	15.4	
		DELTA FQ-30	30.3	16.6	
		DELTA FQ-36	36.0	19.8	
		DELTA FQ-40	40.0	22	
		DELTA FQ-50	50.0	27.5	
		DELTA FQ-88	88.5	48.6	
		DELTA FQ-105	105.0	57.5	
		DELTA FQ-125	125.0	68.75	
		<i>BIOLOGICAL</i>			
		DELTA PR-036	0.36	0.19	
		DELTA PR-069	0.69	0.38	
		DELTA PR-138	1.38	0.75	
		DELTA PR-200	2.0	1.10	
		DELTA PR-260	2.6	1.43	
		DELTA PR-400	4.0	2.2	
		DELTA PR-540	5.40	2.97	
		DELTA PR-670	6.70	3.68	
		DELTA PR-870	8.70	4.78	
		DELTA PR-1000	10.0	5.50	
		DELTA PR-1310	13.10	7.20	
		DELTA PR-1590	15.90	8.74	
		DELTA PR-2110	21.10	11.60	
		DELTA PR-2600	26.0	14.30	
		DELTA PR-3480	34.80	19.14	
		DELTA PR-4392	43.92	24.15	
	16 Sweden	1 Consilium Marine, Stockholm Sweden S-17122 Solna	NEPTUMATIC MOC-12	12.0	6.2
			NEPTUMATIC MOC-20	20.0	10.3
NEPTUMATIC MOC-28			28.0	14.4	
NEPTUMATIC MOC-28R			21.0	10.6	
NEPTUMATIC MOC-75			75.0	30.0	
NEPTUMATIC MOC-75 Compart			75.0	30.0	
NEPTUMATIC MOC-100			100.0	40.0	
NEPTUMATIC MOC-125 -			125.0	50.0	
NEPTUMATIC MOC-130			130.0	52.0	
NEPTUMATIC RETRO-30			30.0	15.4	
NEPTUMATIC RETRO-45			45.0	23.2	
NEPTUMATIC MOD 130			130.0	52.0	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
17 United Kingdom	1 Hamworthy Engineering Ltd, Pump and Compressor Division Fleets Corner Poole, Dorset BH17 7LA	Retro-fit	6.0	4.8
		Trident RT 80		
		Retro-fit	4.55	3.6
		Trident RT 60		
		Retro-fit	3.01	2.4
		Trident RT 40		
		Retro-fit	1.6	1.2
		Trident RT 20		
		Super Trident	46.2	36.0
		ST 60		
		Super Trident	30.0	36.75
		ST 50		
		Super Trident	24.0	28.0
		ST 40		
		Super Trident	28.0	24.0
		ST 40X		
		Super Trident	23.1	18.0
		ST 30		
		Super Trident	17.5	15.0
		ST 25X		
		Super Trident	17.5	15.0
		ST 25		
		Super Trident	14.5	12.0
		ST 20		
		Super Trident	11.0	9.0
		ST 15		
		Super Trident	9.6	7.8
		ST 13		
		Super Trident	7.4	6.0
		ST 10		
		Super Trident	6.0	4.8
		STS		
Super Trident	4.55	3.6		
ST 6				
Super Trident	3.01	2.4		
ST 4				
Super Trident	2.1	1.8		
ST 3				
Super Trident	1.6	1.2		
ST 2				
Super Trident	0.8	0.6		
ST i				
Super Trident	0.45	0.32		
ST O				
Super Trident	46.2	36.0		
ST 60S				
Trident T 10	0.68	0.6		
Trident T 20	1.36	1.2		
Trident T 30	2.04	1.8		
Trident T 40	2.73	2.4		
Trident T 50	3.41	3.0		

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)	
17 United Kingdom— <i>continued</i>		Trident T O	4.09	3.6	
		Trident T 75	5.11	4.5	
		Trident T 100	6.81	6.0	
		Super Trident			
		ST-OA	0.42	0.35	
		ST-1A	0.8	0.6	
		ST-2A	1.6	1.2	
		ST 3A	2.31	1.8	
		ST-4A	3.0	2.4	
		ST-6A	4.55	3.6	
		ST-8A	6.0	4.8	
	2	Marine Ventures Ltd Marven House, 1 Field Road, Reading RG1 6AP England	SEACARE 10	1.0	0.6
			SEACARE 40	4.0	2.4
			SEACARE 200	20.0	12.0
	3	Elsan Marine International Ltd Sandwich Kent	STOUR LC 5	0.18	0.3
			STOUR LC 10	0.36	0.6
			STOUR LC 20	0.72	12.0
		STOUR LC 35	1.26	2.1	
		STOUR LC 60	2.16	3.6	
		STOUR LC 100	36.0	0.0	
18 United States	1 Exstar International Corp., 6502 Windmill Way, Wilmington, North Carolina 28405	MARLAND			
		SANI-SYSTEM:			
		SS-645 Type II	17.4	13.5	
		SS-630 Type II	11.36	9.0	
		SS-615 Type II	5.11	4.05	
		SS-600 Type II	2.84	2.25	
		SS 40			
		SS 60			
		SS 600	2.84	2.25	
		SS 615	5.11	4.05	
	2 Microphor Inc. Willits California	M 8			
		M 10			
		M 12			
		M 14			
		M30	0.057	0.18	
		M 40	0.076	0.24	
		M 50	0.095	0.3	
		M-100	0.189	0.6	
		M 150	0.284	0.9	
		M 200	0.379	1.2	
M 300	0.568	1.8			
M 500	0.946	3.0			
M 600	1.136	3.6			
M 800	1.514	4.8			
M 1000	1.893	6.0			
MC 50	0.473	0.3			
MC 100	0.946	0.6			

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)	
18 United States— <i>continued</i>		MC 150	1.419	0.9	
		MC 200	1.893	1.2	
		MC 300	2.839	1.8	
		MC 500	4.731	3.0	
		MC 600	5.678	3.6	
		MC 800	7.57	4.8	
		MC 1000	9.463	6.0	
	3	St. Louis	“FAST” LS-1	0.57	0.17
		Ship. 611	“FAST” LS-2	0.91	0.27
		East Marceau Street	“FAST” 6m	1.02	0.31
		St. Louis	“FAST” LS-3	1.36	0.41
		Missouri 63111	“FAST” 9M	1.59	0.48
			“FAST” 13M	2.39	0.71
			“FAST” 12D	2.61	0.78
			“FAST” 18M	3.18	0.95
			“FAST” 18D	3.86	1.15
			“FAST” 26M	4.77	1.43
			“FAST” 25D	5.68	1.70
		“FAST” 40D	8.41	2.51	
		“FAST” 50D	10.70	3.19	
		“FAST” D6			
		“FAST” D8			
4	FAST Systems, Inc. St. Louis, Missouri 63110	“FAST” DI, DIM	3.52		
		“FAST” D2, D2M	5.22		
		“FAST” D3, D3M	7.72		
		“FAST” D4, D4M	11.35		
		“FAST” D5, DSM	14.42		
		“FAST” D6, D6M	19.98		
		“FAST” D7, D7M	29.97		
		“FAST” D8, D8M	46.89		
		“FAST” D9, D9M	67.67		
		“FAST” M1	1.13		
		“FAST” M2	1.70		
		“FAST” M3	2.49		
		“FAST” M4	3.29		
		“FAST” MS	4.88		
5	Sigma Treatment Systems Inc., 2 Davis Ave Frazer Pennsylvania 19355 USA (Manor Welding and Fabrication Co. Ltd, 4-5 Wainman Rd., Woodston Peterborough PE2 OBU England)	BIO-STS 500	1.89	1.67	
		BIO-STS 1500	5.68	5.0	
		BIO-STS 1000	3.79	3.33	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)
18 United States— <i>continued</i>	6 Houston Systems Manufacturing Co. New Iberia, LA	“HELI-FLOW”	0.38	0.3
		HF 5M		
		“HELI-FLOW”	0.76	0.6
		BF 10M		
		“HELI-FLOW”	0.98	0.78
		BF 13M		
		“HELI-FLOW”	1.42	1.14
		HF 19M		
		“HELI-FLOW”	1.97	1.56
		HT 26M		
		“HELI-FLOW”	2.42	1.92
		HF 32M		
		“HELI-FLOW”	3.10	2.46
		HF 41 M		
		“HELI-FLOW”	4.39	3.48
		HF 58M		
		“HELI-FLOW”	5.38	4.26
		HF 71 M		
		“HELI-FLOW”	6.36	5.04
		HF 84M		
		“HELI-FLOW”	7.87	6.24
		HF 104M		
		“HELI-FLOW”	9.84	7.8
		HF 130M		
		“HELI-FLOW”	11.81	9.36
		HF 156M		
		“HELI-FLOW”	13.24	10.5
		HF 175M		
		“HELI-FLOW”	14.23	11.28
		HF 188M		
“HELI-FLOW”	15.75	12.48		
HF 208M				
“HELI-FLOW”	17.72	14.04		
HF 234M				
“HELI-FLOW”	22.11	17.52		
HF 292M				
“HELI-FLOW”	24.61	19.5		
HF 325M				
“HELI-FLOW”	27.03	21.42		
HF 357M				
“HELM-FLOW”	29.53	23.4		
HF 390M				
“HELI-FLOW”	34.45	27.3		
HF 455M				
7 Red Fox Industries Inc. New Iberia LA	RF-100-M		0.38	0.3
	RF-200-M		0.76	0.6
	RF-350-M		1.33	1.05
	RF-500-M		1.9	2.00
	RF-750-M		2.9	3.00
	RF-1000-M		3.79	4.00
RF-1500-M		5.7	6.00	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)	
18 United States— <i>continued</i>		RF-2000-M	7.6	8.00	
		RF-2500-M	9.5	10.00	
		RF-3000-M	11.4	12.00	
		RF-3500-M	13.3	14.00	
		RF-4000-M	15.2	16.00	
		RF-4500-M	17.1	18.00	
		RF-5000-M	19.0	20.00	
		RF-5500-M	20.9	22.00	
		RF-6000-M	22.8	24.00	
		RF-7500-M	28.5	30.00	
		RF-9000-M	34.2	36.00	
		RF-0.5-MP	0.61	0.48	
			(Lit- tle Fox)		
			PAC FP 50	0.19	0.3
			PAC FP 200	0.76	0.6
			PAC FP 500	1.89	1.5
			PAC FP 750	2.84	2.25
			PAC FP 1000	3.79	3.0
			PAC FP 1500	5.68	4.5
		PAC FP 2000	7.57	6.0	
		PAC FP 2500	9.40	7.5	
	8 Effluent Technology Corporation 402 Tacoma Ave. S P.O. Box 2094 Tacoma WA 98401	“ORCA” MK 2/12	1.36	1.44	
		“ORCA” MK 2/24	2.73	2.88	
		“ORCA” MK 2/36	4.09	4.32	
	9 KIMCO Inc. P.O. Box 1551 Houston, TX 77251	HF 2M	—	—	
		HF SM	0.38	0.3	
		HF IOM	0.76	0.6	
		HF 13M	0.98	0.78	
		HF 19M	1.42	1.14	
		HF 26M	1.97	1.56	
		HF 32M	2.42	1.92	
		HF 41M	3.10	2.46	
		HF 58M	4.39	3.48	
		HF 71M	5.38	4.26	
		HF 84M	6.36	5.04	
		HF 104M	7.87	6.24	
		HF 130M	9.84	7.8	
		HF 156M	11.81	9.36	
		HF 175M	13.24	10.5	
		HF 188M	14.23	11.28	
		HF 208M	15.75	12.48	
		HF 234M	17.72	14.04	
		HF 292M	22.11	17.52	
		HF 325M	24.61	19.5	
		HF 357M	27.03	21.42	
		HF 390M	29.53	23.4	
		HF 455M	34.45	27.3	

Schedule 5—continued

Manufacturing countries	Manufactured by	Type and model	Designed hydraulic loading (m ³ /day)	Designed organic loading (kg/day)	
18 United States— <i>continued</i>	10 OMNIPURE WASTEWATER TREATMENT 8623 Windswept Houston, Texas	“OMNIPURE” 4M	1.48	0.78	
		“OMNIPURE” 6M	2.96	1.62	
		“OMNIPURE” 8M	6.815	3.6	
		“OMNIPURE” 12M	13.63	7.2	
		“OMNIPURE” 12MX	28.39	15.0	
	11 EES Corporation 12850 Bournewood Drive, Sugarland, Texas 77478	“OMNIPURE” I SMX		56.00	30.0
	12 Envirovac Inc. 1260 Turret Drive Rockford IL 61111	ORCA II-12		1.36	1.44
		ORCA IIA-12		1.36	1.44
		ORCA II-24		2.72	2.88
		ORCA IIA-24		2.72	2.88
		ORCA II-36		4.09	4.32
		ORCA IIA-36		4.09	4.32
		ORCA II-160		18.17	19.2
		ORCA II-165		18.93	19.8
		ORCA II-330		37.47	39.6
		ORCA II-360		37.47	39.6
		ORCA II-500		56.81	60.0
		ORCA IIA-12		1.36	1.44
		ORCA IIA-24		2.73	2.88
ORCA IIA-36		4.09	4.32		
13 Exceltec International Corp. 1110 Industrial Drive Sugarland Texas 77478	Omnipure 6MC		3.0	1.62	
	Omnipure 7MC		4.5	2.4	
	Omnipure 8MC		7.0	3.6	
	Omnipure 12MC		14.0	7.2	
	Omnipure 12MX		28.0	15.0	
	Omnipure 15MX		56.0	30.0	

r 7(b)

Schedule 2**New Schedule 6 added to principal regulations**

r 3(1)

Schedule 6**Grade A sewage treatment systems**

Any system that, when tested under International Maritime Organisation Resolution MEPC.2(VI), meets, or exceeds, the following standards:

- (a) a faecal coliform standard where the geometric mean of the faecal coliform count does not exceed 250 faecal coliforms per 100 millilitres of water; and
 - (b) a suspended solids standard where the geometric mean of the total suspended solids content, when suspended solids are analysed by gravimetric methods, does not exceed—
 - (i) 50 milligrams per litre of water when analysed on shore; or
 - (ii) 100 milligrams per litre of water more than the suspended solids content of the ambient water used for flushing when analysed on board a ship; and
 - (c) a biochemical oxygen demand count where the geometric mean of 5-day biochemical oxygen demand of the samples of sewage does not exceed 50 milligrams per litre of water.
-

Schedule 3 r 7(c)
New Schedule 7 added to principal regulations

Schedule 7 r 3(1)
Grade B sewage treatment systems

(Approved in accordance with the United States of America Environmental Protection Agency Federal Water Pollution Control Act, 33 U.S.C. 1322, Part 159—Marine Sanitation Devices as Type 1)

Manufacturing countries	Manufactured by	Type and model	Approximate designed hydraulic loading (m³/day)
United States	Galley Maid Marine Products, Inc PO Box 10417 Riviera Beach Florida 33404	Delta Marine Head	2.2
	Raritan Engineering Company, Inc 530 Orange Street PO Box 1157 Millville New Jersey 08332	Lectra/San MC Purasan PST	2.7 2.2
	Sealand Technology, Inc Fourth Street PO Box 38 Big Prairie Ohio 4461	Saanx One	2.2

Marie Shroff,
Clerk of the Executive Council.

Explanatory note

This note is not part of the regulations, but is intended to indicate their general effect.

These regulations, which come into force on 1 July 2002, amend the Resource Management (Marine Pollution) Regulations 1998 to—
(a) introduce a new category of treated sewage (Grade B); and

- (b) define the new Grade B treated sewage according to the treatment system from which it is discharged (a list of approved treatment systems is set out in *Schedule 7*); and
- (c) define Grade A treated sewage (formerly called treated sewage) according to the discharge standard of the International Maritime Organisation (which is set out in *Schedule 6*) or the treatment system from which it is discharged (a list of approved treatment systems is set out in *Schedule 5*); and
- (d) provide that Grade B treated sewage discharges—
 - (i) may not take place within 500 metres of a marine farm or from a gazetted mataitai area;
 - (ii) are subject to regional coastal plans of regional councils that restrict where discharges may occur; and
- (e) introduce, for Grade A treated sewage, an ability for the Southland Regional Council to include rules in its regional coastal plan that restrict where discharges may take place in the internal waters of Fiordland (but these rules may not restrict where defence vessels may discharge); and
- (f) provide that untreated sewage may not be discharged within 500 metres of a gazetted mataitai area or within 200 metres of a marine reserve (except for the Kermadec Islands Marine Reserve).

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These regulations are administered in the Ministry for the Environment.
