Information sheet

Environmentally relevant activities

Emission scores profile of environmentally relevant activities

This information sheet contains the information used in calculating the emission scores of the aggregate environmental score (AES) for each threshold of environmentally relevant activity (ERA) in the Environmental Protection Regulation 2019 (EP Reg).

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Version history

Version	Date	Comments
1.00	1 September 2019	First published.
2.00	25 September 2020	Included contaminant data in table, split the table into Table 4 for prescribed ERAs and Table 5 for resource activtiies and added Sections to explain how the emissions score was calculated from the contaminant data.
2.01	22 February 2024	Document rebranded to align with machinery of government changes.

1 Introduction

Annual fees for environmental authorities for ERAs are set as the AES multiplied by a fee unit (or a set amount where there is AES—indicated as no score in schedules 2 and 3 of the EP Reg).

The AES was set based on average emissions data for the ERAs. The AES has two components:

- the emission score; and
- the site attributes score.

A reduced annual fee can be claimed for a lower emissions score in accordance with sections 160-167 of the EP Reg. This information sheet details the type and quantity of particular contaminants that resulted in the emissions score for each ERA threshold.

The site attributes score is included in this document. However, the method of calculation is not included as the site attributes score is not used when claiming a reduced annual fee for a lower emissions score. The original emissions scores and site attributes scores for ERAs in the Environmental Protection Regulation 2008 are in the document *Environmental emissions profiles: a tool to profile the relative risk of environmentally relevant activities under the Environmental Protection Regulation*[1] (the original emissions profile). The original emissions profile has not been updated for changes to the ERAs that have occurred since the Environmental Protection Regulation 2008 took effect on 1 January 2009.

The information sheet *Paying a reduced annual fee* has more information about calculating a lower emissions score and claiming a reduced annual fee (available at www.qld.gov.au using ESR/2015/1723 as a search term).

2 Calculating the emission score

The holder of an environmental authority needs to know the type of contaminant used to calculate the emissions score and must sample the same contaminants. The same method of calculation must be used to determine if a reduced annual fee is payable for the environmental authority.

2.1 Overview

The emission scores profile includes 17 contaminants divided into four Tiers (1-4) based on the severity of the potential consequence of each contaminant. The potential consequence of Tier 1 contaminants is the least severe and Tier 4 the most severe. Each Tier has a value that is the same as the Tier number. Tier 1 has a score of 1, Tier 2 has a score of 2, Tier 3 has a score of 3 and Tier 4 has a score of 4.

Each contaminant also has a Level (1-4) based on the quantity of contaminant emitted per year. The Levels also have a value that is the same as Level number with Level 1 being the lowest quantity emitted and Level 4 being the highest quantity emitted.

Table 1 in Appendix 1 shows the Tiers and Levels for each contaminant.

The emissions score is calculated by:

- multiplying the Tier by the Level for each contaminant for emissions to air, land and water; and
- summing these scores to give the emissions score for the ERA.

Table 2 in Appendix 1 shows the possible scores for a contaminant for each combination of Tier and Level.

[1] Available in the department's Library Catalogue at www.qld.gov.au/environment/library by searching for 'environmental emissions profile'.

2.2 Using the tables

Table 3 in Appendix 1 shows the workings for threshold 6(c) of ERA 7—ERA 7(6)(c). It uses the information in Tables 1 and 2 in Appendix 1 to calculate the emission score, based on the quantities of various contaminants for ERA 7(6)(c) from Table 4 in Appendix 2. The process followed is:

Step 1

Determine the Tier and Level from Table 1 in Appendix 1 for the contaminants that have quantities shown.

Step 2

Multiply the Tier and Level for the contaminants that have quantities shown. This is the contaminant emissions score for a sector (air, land or water).

Step 3

Add all the contaminant emission scores together for each sector to determine the sector emission score for each sector (air, land or water).

Step 4

Add the air, land and water sector emission scores to obtain the emission score.

Step 5

The site score is then added to the emission score, resulting in the AES.

Table 4 in Appendix 2 shows the Tier and Level information for each threshold of prescribed ERA for air, land and water emissions. ERA thresholds with no score are included, but do not have Tier and Level information. A reduced annual fee cannot be claimed for thresholds without an AES.

Table 5 in Appendix 3 shows the Tier and Level information for each threshold of resource activity for air, land and water emissions. ERA thresholds with no score are included, but do not have Tier and Level information. A reduced annual fee cannot be claimed for thresholds without an AES.

Appendix 1 — Types and values of contaminants for each Tier and Level

Table 1—Tiers and Levels for contaminants for calculating the emissions score

LEVEL	LEVEL AND TIER OF CONTAMINANTS																
	Tier 1						Tier 2					Tier 3				Tier 4	
	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
Level 1	1–10 t/yr	1–10 t/yr	1–10 t/yr	0.1–1 t/yr	0.1–1 t/yr	0.1–1 t/yr	10–100 t/yr	0.01–0.1 t/yr	0.1–1 t/yr	0.01–0.1 t/yr	10–100 t/yr	10,000–100,000 t/yr	10–100 kg/yr	10–100 kg/yr	10–100 t/yr	1–10 kg/yr	0.01–0.1 g/yr
Level 2	10–100 t/yr	10–100 t/yr	10–100 t/yr	1–10 t/yr	1–10 t/yr	1–10 t/yr	100–1,000 t/yr	0.1–1 t/yr	1–10 t/yr	0.1–1 t/yr	100–1,000 t/yr	100,000–1,000,000 t/yr	100–1,000 kg/yr	100–1,000 kg/yr	100–1,000 t/yr	10–100 kg/yr	0.1–1 g/yr
Level 3	100–1,000 t/yr	100–1,000 t/yr	100–1,000 t/yr	10–100 t/yr	10–100 t/yr	10–100 t/yr	1,000–10,000 t/yr	1–10 t/yr	10–100 t/yr	1–10 t/yr	1,000–10,000 t/yr	1,000,000–10,000,000 t/yr	1,000–10,000 kg/yr	1,000–10,000 kg/yr	1,000–10,000 t/yr	100–1,000 kg/yr	1–10 g/yr
Level 4	>1,000 t/yr	>1,000 t/yr	>1,000 t/yr	>100 t/yr	>100 t/yr	>100 t/yr	>10,000 t/yr	>10 t/yr	>100 t/yr	>10 t/yr	>10,000 t/yr	>10,000,000 t/yr	>10,000 kg/yr	>10,000 kg/yr	>10,000 t/yr	>1000 kg/yr	>10 g/yr

Table 2—All possible combinations of Level and Tier with the resulting score

	Tier 1 with a value of 1	Tier 2 with a value of 2	Tier 3 with a value of 3	Tier 4 with a value of 4
Level 1 with a value of 1	Score = 1 X 1 = 1	Score = 2 X 1 = 2	Score = 3 X 1 = 3	Score = 4 X 1 = 4
Level 2 with a value of 2	Score = 1 X 2 = 2	Score = 2 X 2 = 4	Score = 3 X 2 = 6	Score = 4 X 2 = 8
Level 3 with a value of 3	Score = 1 X 3 = 3	Score = 2 X 3 = 6	Score = 3 X 3 = 9	Score = 4 X 3 = 12
Level 4 with a value of 4	Score = 1 X 4 = 4	Score = 2 X 4 = 8	Score = 3 X 4 = 12	Score = 4 X 4 = 16

Table 3—Example of calculating the emissions score

EMISSION SUMMARY					ERA 7 Chemical Manufacturing **Threshold** 6(c) Inorganic chemical manufacturing (other than items 1–4): >10,000–100,000t/yr															
					CONTAMINANTS															
Sector Risk	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
AIR					>1,000 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr	1–10 t/yr	10–100 t/yr	>10 t/yr		10,000–100,000 t/yr	1,000–10,000 kg/yr	>10,000 kg/yr		>1,000 kg/yr	
					Level 4	Level 3	Level 2				Level 2	Level 3	Level 3	Level 4		Level 1	Level 3	Level 4		Level 4	
9 + 24 + 24 + 16 = 73	4 + 3 + 2 = 9	4 + 6 + 6 +8 = 24	3 + 9 + 12 = 24	16	4 X 1 = 4	3 X 1 = 3	2 X 1 = 2				2 X 2 = 4	3 X 2 = 6	3 X 2 = 6	4 X 2 = 8		1 X 3 = 3	3 X 3 = 9	4 X 3 = 12		4 X 4 = 16	
LAND									10–100 t/yr								>10,000 kg/yr			100–1,000 kg/yr	
									Level 3								Level 4			Level 3	
3 + 0 + 12 + 12 = 27	3	0	12	12					3 X 1 = 3								4 X 3 = 12			3 X 4 = 12	
WATER								1–10 t/yr	>100 t/yr			1–10 t/yr		1–10 t/yr			100–1,000 kg/yr			10–100 kg/yr	
								Level 2	Level 4			Level 3		Level 3			Level 2			Level 2	
6 + 12 + 6 + 8 = 32	2 + 4 = 6	6 + 6 = 12	6	8				2 X 1 = 2	4 X 1 = 4			3 X 2 = 6		3 X 2 = 6			2 X 3 = 6			2 X 4 = 8	

Appendix 2 — Contaminant Tier and Level information for prescribed ERAs

Table 4—Emissions scores for each threshold of prescribed ERA with contaminant Tier and Level information

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Schedule 2 (Prescribed ERAs)																										
ERA 1 Aquaculture																										
Threshold 1(a) Aquaculture (land based): crustaceans 100m^2–10ha				AIR	0	0	0	0	0																	
				LAND	1	1	0	0	0					0.1–1 t/yr												
	11	5	6	WATER	5	3	2	0	0				0.1–1 t/yr	1–10 t/yr						10–100 t/yr						
Threshold 1(b) Aquaculture (land based): crustaceans >10ha–100ha				AIR	0	0	0	0	0																	
				LAND	2	2	0	0	0					1–10 t/yr												
	21	11	10	WATER	8	6	2	0	0				1–10 t/yr	1–10 t/yr	1–10 t/yr					10–100 t/yr						
Threshold 1(c) Aquaculture (land based): crustaceans >100ha				AIR	0	0	0	0	0																	
				LAND	3	3	0	0	0					10–100 t/yr												
	34	18	16	WATER	13	9	4	0	0				10–100 t/yr	10–100 t/yr	10–100 t/yr					100–1,000 t/yr						
Threshold 2(a) Aquaculture (land based): other than crustaceans 100m^2–10ha				AIR	0	0	0	0	0																	
				LAND	2	2	0	0	0					1–10 t/yr												
	19	5	14	WATER	12	8	4	0	0				10–100 t/yr	10–100 t/yr	1–10 t/yr					100–1,000 t/yr						
Threshold 2(b) Aquaculture (land based): other than crustaceans >10ha–100ha				AIR	0	0	0	0	0																	
				LAND	3	3	0	0	0					10–100 t/yr												
	29	11	18	WATER	15	9	6	0	0				10–100 t/yr	10–100 t/yr	10–100 t/yr					1,000–10,000 t/yr						
Threshold 2(c) Aquaculture (land based): other than crustaceans >100ha				AIR	0	0	0	0	0																	
				LAND	4	4	0	0	0					>100 t/yr												
	32	12	20	WATER	16	10	6	0	0				10–100 t/yr	>100 t/yr	10–100 t/yr					1,000–10,000 t/yr						
Threshold 3(a) Aquaculture (in waters): marine, estuarine or freshwater organisms <1ha				AIR	0	0	0	0	0																	
				LAND	0	0	0	0	0																	
	26	9	17	WATER	17	11	6	0	0				>100 t/yr	>100 t/yr	10–100 t/yr					1,000–10,000 t/yr						

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold 3(b) Aquaculture (in waters): marine, estuarine or freshwater organisms >1ha				AIR	0	0	0	0	0																	
				LAND	0	0	0	0	0																	
	36	16	20	WATER	20	12	8	0	0				>100 t/yr	>100 t/yr	>100 t/yr					>10,000 t/yr						
ERA 2 Intensive animal feedlotting																										
Threshold 1(a) Cattle feedlotting: >150–1,000 standard cattle units				AIR	6	2	0	0	4		1–10 t/yr	1–10 t/yr													1–10 kg/yr	
				LAND	2	2	0	0	0					1–10 t/yr												
	14	5	9	WATER	1	1	0	0	0					0.1–1 t/yr												
Threshold 1(b) Cattle feedlotting: >1,000–10,000 standard cattle units				AIR	16	4	4	0	8		10–100 t/yr	10–100 t/yr						0.1–1 t/yr	0.01–0.1 t/yr						10–100 kg/yr	
				LAND	3	3	0	0	0					10–100 t/yr												
	28	7	21	WATER	2	2	0	0	0					1–10 t/yr												
Threshold 1(c) Cattle feedlotting: >10,000 standard cattle units				AIR	33	7	10	0	16	1–10 t/yr	100–1,000 t/yr	100–1,000 t/yr				10–100 t/yr		1–10 t/yr	0.1–1 t/yr						100–1,000 kg/yr	0.01–0.1 g/yr
				LAND	4	4	0	0	0					>100 t/yr												
	49	9	40	WATER	3	3	0	0	0					10–100 t/yr												
Threshold 2(a) Sheep feedlotting: >1,000–10,000 standard sheep units				AIR	5	1	0	0	4			1–10 t/yr													1–10 kg/yr	
				LAND	2	2	0	0	0					1–10 t/yr												
	12	4	8	WATER	1	1	0	0	0					0.1–1 t/yr												
Threshold 2(b) Sheep feedlotting: >10,000 standard sheep units				AIR	14	2	4	0	8			10–100 t/yr						0.1–1 t/yr	0.01–0.1 t/yr						10–100 kg/yr	
				LAND	3	3	0	0	0					10–100 t/yr												
	26	7	19	WATER	2	2	0	0	0					1–10 t/yr												
ERA 3 Pig keeping																										
Threshold 1 Pig keeping: >400–3,500 standard pig units				AIR	7	3	4	0	0		10–100 t/yr	1–10 t/yr						1–10 t/yr								
				LAND	4	4	0	0	0					>100 t/yr												
	19	6	13	WATER	2	2	0	0	0					1–10 t/yr												
Threshold 2 Pig keeping: >3,500–8,000 standard pig units				AIR	9	3	6	0	0		10–100 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr								
				LAND	4	4	0	0	0					>100 t/yr												
	22	6	16	WATER	3	3	0	0	0					10–100 t/yr												

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	AES	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
Threshold 3 Pig keeping: >8,000 standard pig units				AIR	15	7	8	0	0	10–100 t/yr	100–1,000 t/yr	10–100 t/yr				10–100 t/yr		10–100 t/yr								
				LAND	4	4	0	0	0					>100 t/yr												
	31	9	22	WATER	3	3	0	0	0					10–100 t/yr												
ERA 4 Poultry farming																										
Threshold 1 Poultry farming: >1,000–200,000 birds	No score																									
Threshold 2 Poultry farming: >200,000 birds				AIR	2	2	0	0	0		10–100 t/yr															
				LAND	0	0	0	0	0																	
	9	7	2	WATER	0	0	0	0	0																	
ERA 5 Alcohol production																										
Alcohol production: >200m^3/yr				AIR	8	2	6	0	0	1–10 t/yr		1–10 t/yr						10–100 t/yr								
				LAND	0	0	0	0	0																	
	48	40	8	WATER	0	0	0	0	0																	
ERA 6 Asphalt manufacturing																										
Asphalt manufacturing: >1,000t/yr				AIR	24	3	6	3	12	1–10 t/yr	1–10 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr				10–100 kg/yr		10–100 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	32	8	24	WATER	0	0	0	0	0																	
ERA 7 Chemical manufacturing																										
Threshold 1 Paint manufacturing (water based): 200m^3/yr or more	No score																									
Threshold 2(a) Manufacturing coating, food additives, industrial polish, sealant, synthetic dye, pigment, ink, adhesive or paint (other than water based): 200–1,000m^3/yr				AIR	2	0	2	0	0									0.1–1 t/yr								
				LAND	0	0	0	0	0																	
	10	8	2	WATER	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	AES	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
Threshold 2(b) Manufacturing coating, food additives, industrial polish, sealant, synthetic dye, pigment, ink, adhesive or paint (other than water based): >1,000–100,000m^3/yr				AIR	11	0	4	3	4									1–10 t/yr				10–100 kg/yr			1–10 kg/yr	
				LAND	0	0	0	0	0																	
	19	8	11	WATER	0	0	0	0	0																	
Threshold 2(c) Manufacturing coating, food additives, industrial polish, sealant, synthetic dye, pigment, ink, adhesive or paint (other than water based): >100,000m^3/yr				AIR	24	2	8	6	8		1–10 t/yr	1–10 t/yr				10–100 t/yr		10–100 t/yr				100–1,000 kg/yr			10–100 kg/yr	
				LAND	1	1	0	0	0					0.1–1 t/yr												
	37	12	25	WATER	0	0	0	0	0																	
Threshold 3(a) Manufacturing soap, surfactants or cleaning or toiletry products: 200t/yr or more				AIR	10	1	6	3	0		1–10 t/yr							1–10 t/yr	0.01–0.1 t/yr				10–100 kg/yr			
				LAND	0	0	0	0	0																	
	39	29	10	WATER	0	0	0	0	0																	
Threshold 3(b) Manufacturing biological control and agricultural chemical products: 200t/yr or more				AIR	12	2	6	0	4		10–100 t/yr							0.1–1 t/yr	0.1–1 t/yr							0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	114	102	12	WATER	0	0	0	0	0																	
Threshold 3(c) Manufacturing medicines, pharmaceutical products, poisons or veterinary chemical products: 200t/yr or more				AIR	28	2	6	12	8	1–10 t/yr	1–10 t/yr							10–100 t/yr					>10,000 kg/yr		10–100 kg/yr	
				LAND	0	0	0	0	0																	
	115	83	32	WATER	4	4	0	0	0				1–10 t/yr	1–10 t/yr												
Threshold 3(d) Explosives manufacturing: 200t/yr or more				AIR	36	4	14	6	12	1–10 t/yr	10–100 t/yr	1–10 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr		10,000–100,000 t/yr	10–100 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	138	102	36	WATER	0	0	0	0	0																	
Threshold 4(a) Fertiliser manufacturing: 200–5,000t/yr				AIR	15	2	6	3	4		1–10 t/yr	1–10 t/yr				10–100 t/yr		0.1–1 t/yr	0.01–0.1 t/yr		10,000–100,000 t/yr				1–10 kg/yr	
				LAND	0	0	0	0	0																	
	33	11	22	WATER	7	2	2	3	0				0.1–1 t/yr	0.1–1 t/yr					0.01–0.1 t/yr			10–100 t/yr				
Threshold 4(b) Fertiliser manufacturing: >5,000t/yr				AIR	58	6	22	18	12	1–10 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr	1–10 t/yr	10–100 t/yr	1–10 t/yr		>10,000,000 t/yr	100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	153	69	84	WATER	26	6	6	6	8				1–10 t/yr	>100 t/yr					1–10 t/yr			100–1,000 kg/yr			10–100 kg/yr	
Threshold 5(a) Organic chemical manufacturing (other than items 1–4): 200–1,000t/yr				AIR	18	0	4	6	8									0.1–1 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		10–100 kg/yr	
				LAND	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	AES	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
	30	12	18	WATER	0	0	0	0	0																	
Threshold 5(b) Organic chemical manufacturing (other than items 1–4): >1,000–10,000t/yr				AIR	34	2	8	12	12	1–10 t/yr	1–10 t/yr							1–10 t/yr	0.1–1 t/yr			10–100 kg/yr	1,000–10,000 kg/yr		100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	66	29	37	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 5(c) Organic chemical manufacturing (other than items 1–4): >10,000–100,000t/yr				AIR	53	5	14	18	16	10–100 t/yr	10–100 t/yr	1–10 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr			100–1,000 kg/yr	>10,000 kg/yr		>1,000 kg/yr	
				LAND	7	0	0	3	4													10–100 kg/yr			1–10 kg/yr	
	139	69	70	WATER	10	0	0	6	4													100–1,000 kg/yr			1–10 kg/yr	
Threshold 5(d) Organic chemical manufacturing (other than items 1–4): >100,000t/yr				AIR	65	8	20	21	16	100–1,000 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		>100 t/yr	>10 t/yr			1,000–10,000 kg/yr	>10,000 kg/yr		>1,000 kg/yr	
				LAND	14	0	0	6	8													100–1,000 kg/yr			10–100 kg/yr	
	202	106	96	WATER	17	0	0	9	8													1,000–10,000 kg/yr			10–100 kg/yr	
Threshold 6(a) Inorganic chemical manufacturing (other than items 1–4): 200–1,000t/yr				AIR	28	3	8	9	8	10–100 t/yr	1–10 t/yr						0.01–0.1 t/yr	0.1–1 t/yr	0.1–1 t/yr			10–100 kg/yr	100–1,000 kg/yr		10–100 kg/yr	
				LAND	11	1	0	6	4					0.1–1 t/yr								100–1,000 kg/yr			1–10 kg/yr	
	56	11	45	WATER	6	2	4	0	0					1–10 t/yr			0.01–0.1 t/yr		0.01–0.1 t/yr							
Threshold 6(b) Inorganic chemical manufacturing (other than items 1–4): >1,000–10,000t/yr				AIR	49	6	16	15	12	100–1,000 t/yr	10–100 t/yr	1–10 t/yr				10–100 t/yr	0.1–1 t/yr	1–10 t/yr	1–10 t/yr			100–1,000 kg/yr	1,000–10,000 kg/yr		100–1,000 kg/yr	
				LAND	19	2	0	9	8					1–10 t/yr								1,000–10,000 kg/yr			10–100 kg/yr	
	115	28	87	WATER	19	4	8	3	4				0.1–1 t/yr	10–100 t/yr			0.1–1 t/yr		0.1–1 t/yr			10–100 kg/yr			1–10 kg/yr	
Threshold 6(c) Inorganic chemical manufacturing (other than items 1–4): >10,000–100,000t/yr				AIR	73	9	24	24	16	>1,000 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr	1–10 t/yr	10–100 t/yr	>10 t/yr		10,000–100,000 t/yr	1,000–10,000 kg/yr	>10,000 kg/yr		>1,000 kg/yr	
				LAND	27	3	0	12	12					10–100 t/yr								>10,000 kg/yr			100–1,000 kg/yr	
	200	68	132	WATER	32	6	12	6	8				1–10 t/yr	>100 t/yr			1–10 t/yr		1–10 t/yr			100–1,000 kg/yr			10–100 kg/yr	
Threshold 6(d) Inorganic chemical manufacturing (other than items 1–4): >100,000t/yr				AIR	87	11	30	30	16	>1,000 t/yr	>1,000 t/yr	100–1,000 t/yr				1,000–10,000 t/yr	>10 t/yr	>100 t/yr	>10 t/yr		100,000–1,000,000 t/yr	>10,000 kg/yr	>10,000 kg/yr		>1,000 kg/yr	
				LAND	32	4	0	12	16					>100 t/yr								>10,000 kg/yr			>1,000 kg/yr	
	268	105	163	WATER	44	7	16	9	12				10–100 t/yr	>100 t/yr			>10 t/yr		>10 t/yr			1,000–10,000 kg/yr			100–1,000 kg/yr	
ERA 8 Chemical storage																										
Threshold 1 Chemical storage 50t or more of chemicals of dangerous goods Class 1 or Class 2, division 2.3 in containers of at least 10m^3				AIR	15	0	4	3	8									1–10 t/yr			10,000–100,000 t/yr				10–100 kg/yr	
				LAND	0	0	0	0	0																	
	51	36	15	WATER	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold 2 Chemical storage 50t or more of chemicals of dangerous goods Class 6, division 6.1 in containers capable of holding at least 900kg of the chemicals				AIR	15	0	4	3	8									1–10 t/yr			10,000–100,000 t/yr				10–100 kg/yr	
				LAND	0	0	0	0	0																	
	51	36	15	WATER	0	0	0	0	0																	
Threshold 3 Chemical storage more than 500m^3 of dangerous goods Class 3 or Class C1 or C2 combustible liquids under AS 1940				AIR	24	1	8	3	12		1–10 t/yr							10–100 t/yr	0.01–0.1 t/yr			10–100 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	85	53	32	WATER	8	0	0	0	8																10–100 kg/yr	
Threshold 4 Chemical storage 200t or more of chemicals that are solids or gases, in containers of at least 10m^3, other than chemicals mentioned in item 1 to 3				AIR	22	2	6	6	8		1–10 t/yr	1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr		100,000–1,000,000 t/yr				10–100 kg/yr	
				LAND	0	0	0	0	0																	
	31	9	22	WATER	0	0	0	0	0																	
Threshold 5 Chemical storage 200m^3 or more of chemicals that are liquids, in containers of at least 10m^3, other than chemicals mentioned in items 1 to 3				AIR	22	2	6	6	8		1–10 t/yr	1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr		100,000–1,000,000 t/yr				10–100 kg/yr	
				LAND	0	0	0	0	0																	
	31	9	22	WATER	0	0	0	0	0																	
ERA 9 Hydrocarbon gas refining																										
Threshold (a) Natural gas refining: <200 million m^3/yr or more	No score																									
Threshold (b) Natural gas refining: 200 million m^3/yr or more				AIR	17	3	6	0	8		10–100 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr							10–100 kg/yr	
				LAND	0	0	0	0	0																	
	19	2	17	WATER	0	0	0	0	0																	
Threshold (c) Coal seam gas refining				AIR	31	5	16	6	4	100–1,000 t/yr	100–1,000 t/yr					>10,000 t/yr		>100 t/yr			100,000–1,000,000 t/yr				1–10 kg/yr	
				LAND	11	1	0	6	4					0.1–1 t/yr										100–1,000 t/yr	1–10 kg/yr	
	64	15	49	WATER	7	1	2	0	4					0.1–1 t/yr					0.01–0.1 t/yr						1–10 kg/yr	
ERA 10 Gas producing																										
Manufacturing, processing or reforming hydrocarbon gas: 200t/yr or more				AIR	31	5	16	6	4	100–1,000 t/yr	100–1,000 t/yr					>10,000 t/yr		>100 t/yr			100,000–1,000,000 t/yr				1–10 kg/yr	
				LAND	11	1	0	6	4					0.1–1 t/yr										100–1000 t/yr	1–10 kg/yr	
	64	15	49	WATER	7	1	2	0	4					0.1–1 t/yr					0.01–0.1 t/yr						1–10 kg/yr	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
ERA 11 Oil refining or processing																										
Threshold (a) Refining or processing crude oil or shale oil: <500m^3/yr				AIR	54	9	20	9	16	100–1,000 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		>100 t/yr	>10 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr			>1,000 kg/yr	
				LAND	15	1	0	6	8					0.1–1 t/yr								100–1000 kg/yr			10–100 kg/yr	
	146	53	93	WATER	24	3	6	3	12				0.1–1 t/yr	1–10 t/yr					1–10 t/yr			10–100 kg/yr			100–1,000 kg/yr	
Threshold (b) Refining or processing crude oil or shale oil: 500–150,000m^3/yr				AIR	57	8	18	15	16	100–1,000 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		>100 t/yr	1–10 t/yr		100,000–1,000,000 t/yr	100–1,000 kg/yr	10–100 kg/yr		>1,000 kg/yr	
				LAND	15	1	0	6	8					0.1–1 t/yr								100–1,000 kg/yr			10–100 kg/yr	
	186	87	99	WATER	27	4	8	3	12				0.1–1 t/yr	10–100 t/yr			0.01–0.1 t/yr		1–10 t/yr			10–100 kg/yr			100–1,000 kg/yr	
Threshold (c) Refining or processing crude oil or shale oil: >150,000m^3/yr				AIR	61	10	20	15	16	>1,000 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		>100 t/yr	>10 t/yr		100,000–1,000,000 t/yr	100–1,000 kg/yr	10–100 kg/yr		>1,000 kg/yr	
				LAND	15	1	0	6	8					0.1–1 t/yr								100–1000 kg/yr			10–100 kg/yr	
	237	129	108	WATER	32	5	8	3	16				1–10 t/yr	10–100 t/yr			0.01–0.1 t/yr		1–10 t/yr			10–100 kg/yr			>1,000 kg/yr	
ERA12 Plastic product manufacturing																										
Threshold 1 Plastic manufacturing – (other than plastic in item 2 below): 50t/yr or more				AIR	23	1	6	0	16		1–10 t/yr							10–100 t/yr							>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	28	5	23	WATER	0	0	0	0	0																	
Threshold 2 Plastic manufacturing – foam, composite plastic or rigid fibre–reinforced: 5t/yr or more				AIR	34	2	8	12	12		1–10 t/yr	1–10 t/yr						10–100 t/yr	0.01–0.1 t/yr				>10,000 kg/yr		1–10 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	54	20	34	WATER	0	0	0	0	0																	
ERA 13 Tyre manufacturing or retreading																										
Threshold 1 Tyre manufacturing				AIR	29	2	8	3	16		1–10 t/yr	1–10 t/yr						10–100 t/yr	0.01–0.1 t/yr			10–100 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	36	7	29	WATER	0	0	0	0	0																	
Threshold 2 Tyre retreading				AIR	12	1	8	3	0		1–10 t/yr							10–100 t/yr	0.01–0.1 t/yr			10–100 kg/yr				
				LAND	0	0	0	0	0																	
	17	5	12	WATER	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
ERA 13A Commercial cropping and horticulture in Great Barrier Reef catchment																									
Cultivation of 1 or more crops, or horticulture carried out on at least 5ha of land in the Great Barrier Reef catchment This ERA takes effect 1 June 2021 and has no annual fee.	No score																								
ERA 14 Electricity generation																									
Threshold 1 Power station (gas) with a rated capacity of 10MW electrical or more				AIR	49	6	14	9	20	10–100 t/yr	100–1,000 t/yr	1–10 t/yr				100–1,000 t/yr		10–100 t/yr	0.1–1 t/yr			1,000–10,000 kg/yr			>1,000 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	72	6	66	WATER	17	3	8	6	0				0.1–1 t/yr	1–10 t/yr					>10 t/yr			100–1,000 kg/yr				
Threshold 2(a) Power station (fuel other than gas) with a rated capacity of 10MW–150MW electrical				AIR	47	5	12	6	24	10–100 t/yr	10–100 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	1–10 g/yr
				LAND	0	0	0	0	0																	
	76	8	68	WATER	21	0	4	9	8										0.1–1 t/yr			1,000–10,000 kg/yr			10–100 kg/yr	
Threshold 2(b) Power station (fuel other than gas) with a rated capacity of >150MW electrical				AIR	78	12	26	12	28	>1,000 t/yr	>1,000 t/yr	>1,000 t/yr				1,000–10,000 t/yr	1–10 t/yr	10–100 t/yr	>10 t/yr			>10,000 kg/yr			>1,000 kg/yr	1–10 g/yr
				LAND	11	0	0	3	8													10–100 kg/yr			10–100 kg/yr	
	151	30	121	WATER	32	5	6	9	12				1–10 t/yr	10–100 t/yr					1–10 t/yr			1,000–10,000 kg/yr			100–1,000 kg/yr	
ERA 15 Fuel burning																									
Fuel burning operation using equipment capable of burning at least 500kg/hr of fuel				AIR	31	3	12	0	16	1–10 t/yr	1–10 t/yr	1–10 t/yr						10–100 t/yr	1–10 t/yr						10–100 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	35	3	32	WATER	1	1	0	0	0					0.1–1 t/yr												
ERA 16 Extractive and screening activities																									
Threshold 1(a) Dredging material: 1,000–10,000t/yr				AIR	4	0	0	0	4																1–10 kg/yr	
				LAND	0	0	0	0	0																	
	11	5	6	WATER	2	0	2	0	0											10–100 t/yr						
Threshold 1(b) Dredging material: >10,000–100,000t/yr				AIR	15	2	2	3	8		1–10 t/yr	1–10 t/yr						0.1–1 t/yr				10–100 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	25	6	19	WATER	4	0	4	0	0											100–1,000 t/yr						

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold 1(c) Dredging material: >100,000–1 million t/yr				AIR	31	5	8	6	12	1–10 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	0.01–0.1 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	44	7	37	WATER	6	0	6	0	0											1,000–10,000 t/yr						
Threshold 1(d) Dredging material: >1 million t/yr				AIR	47	8	14	9	16	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		10–100 t/yr	0.1–1 t/yr			1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	66	11	55	WATER	8	0	8	0	0											>10,000 t/yr						
Threshold 2(a) Extracting rock or other material: 5,000–100,000t/yr				AIR	17	2	4	3	8		1–10 t/yr	1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	22	5	17	WATER	0	0	0	0	0																	
Threshold 2(b) Extracting rock or other material: >100,000–1 million t/yr				AIR	33	5	10	6	12	1–10 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	0.1–1 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	39	6	33	WATER	0	0	0	0	0																	
Threshold 2(c) Extracting rock or other material: >1 million t/yr				AIR	49	8	16	9	16	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		10–100 t/yr	1–10 t/yr			1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	57	8	49	WATER	0	0	0	0	0																	
Threshold 3(a) Screening rock or other material: 5,000–100,000 t/yr				AIR	8	1	0	3	4			1–10 t/yr										10–100 kg/yr			1–10 kg/yr	
				LAND	0	0	0	0	0																	
	13	5	8	WATER	0	0	0	0	0																	
Threshold 3(b) Screening rock or other material: >100,000–1 million t/yr				AIR	21	3	4	6	8		1–10 t/yr	10–100 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			100–1,000 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	29	8	21	WATER	0	0	0	0	0																	
Threshold 3(c) Screening rock or other material: >1 million t/yr				AIR	37	6	10	9	12	1–10 t/yr	10–100 t/yr	100–1,000 t/yr				10–100 t/yr		1–10 t/yr	0.1–1 t/yr			1,000–10,000 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	47	10	37	WATER	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
ERA 19 Metal forming																										
Metal forming: hot forming 10,000t/yr or more	No score																									
ERA 22 Beverage production																										
Threshold 1(a) Beverage production (non–alcoholic): 1ML–10ML/yr				AIR	13	0	2	3	8									0.1–1 t/yr				10–100 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	19	6	13	WATER	0	0	0	0	0																	
Threshold 1(b) Beverage production (non–alcoholic): >10ML/yr				AIR	26	2	6	6	12	1–10 t/yr	1–10 t/yr					10–100 t/yr		1–10 t/yr				100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	32	6	26	WATER	0	0	0	0	0																	
Threshold 2 Beverage production (alcoholic): 1ML/yr or more				AIR	24	5	8	3	8	10–100 t/yr	10–100 t/yr	1–10 t/yr						1–10 t/yr	0.1–1 t/yr		10,000–100,000 t/yr				10–100 kg/yr	
				LAND	0	0	0	0	0																	
	55	28	27	WATER	3	3	0	0	0				0.1–1 t/yr	1–10 t/yr												
ERA 23 Bottling or canning																										
Bottling or canning: 200t/yr or more				AIR	38	5	14	3	16	10–100 t/yr	10–100 t/yr	1–10 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr		10,000–100,000 t/yr				10–100 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	45	7	38	WATER	0	0	0	0	0																	
ERA 24 Edible oil manufacturing or processing																										
Edible oil manufacturing or processing: 1,000t/yr or more				AIR	33	6	12	3	12	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr		10,000–100,000 t/yr				1–10 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	38	5	33	WATER	0	0	0	0	0																	
ERA 25 Meat processing																										
Threshold 1(a) Meat processing: 1,000–5,000t/yr				AIR	2	0	2	0	0										0.01–0.1 t/yr							
				LAND	5	2	0	3	0					1–10 t/yr								10–100 kg/yr				
	16	7	9	WATER	2	2	0	0	0					1–10 t/yr												

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold 1(b) Meat processing: >5,000–50,000t/yr				AIR	6	0	2	0	4									0.1–1 t/yr							1–10 kg/yr	
				LAND	9	3	0	6	0					10–100 t/yr								100–1,000 kg/yr				
	26	7	19	WATER	4	4	0	0	0				0.1–1 t/yr	10–100 t/yr												
Threshold 1(c) Meat processing: >50,000t/yr				AIR	14	0	2	0	12									0.1–1 t/yr							10–100 kg/yr	0.01–0.1 g/yr
				LAND	13	3	0	6	4					10–100 t/yr								100–1,000 kg/yr			1–10 kg/yr	
	41	8	33	WATER	6	6	0	0	0				1–10 t/yr	>100 t/yr												
Threshold 2(a) Meat processing (including rendering): 1,000–5,000t/yr				AIR	7	1	2	0	4		1–10 t/yr								0.01–0.1 t/yr						1–10 kg/yr	
				LAND	5	2	0	3	0					1–10 t/yr								10–100 kg/yr				
	25	11	14	WATER	2	2	0	0	0					1–10 t/yr												
Threshold 2(b) Meat processing (including rendering): >5,000–50,000t/yr				AIR	24	3	6	3	12	1–10 t/yr	10–100 t/yr							0.1–1 t/yr	0.1–1 t/yr			10–100 kg/yr			10–100 kg/yr	0.01–0.1 g/yr
				LAND	9	3	0	6	0					10–100 t/yr								100–1,000 kg/yr				
	48	11	37	WATER	4	4	0	0	0				0.1–1 t/yr	10–100 t/yr												
Threshold 2(c) Meat processing (including rendering): >50,000t/yr				AIR	35	6	8	9	12	10–100 t/yr	100–1,000 t/yr	1–10 t/yr						0.1–1 t/yr	1–10 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr			10–100 kg/yr	0.01–0.1 g/yr
				LAND	13	3	0	6	4					10–100 t/yr								100–1,000 kg/yr			1–10 kg/yr	
	66	12	54	WATER	6	6	0	0	0				1–10 t/yr	>100 t/yr												
Threshold 3(a) Rendering: 100–500t/yr	No score																									
Threshold 3(b) Rendering: >500t/yr				AIR	18	3	8	3	4	1–10 t/yr	1–10 t/yr	1–10 t/yr						1–10 t/yr	0.1–1 t/yr		10,000–100,000 t/yr				1–10 kg/yr	
				LAND	0	0	0	0	0																	
	29	11	18	WATER	0	0	0	0	0																	
ERA 26 Milk processing																										
Milk processing: 200t/yr or more				AIR	28	3	10	3	12	1–10 t/yr	1–10 t/yr	1–10 t/yr					0.01–0.1 t/yr	0.1–1 t/yr	1–10 t/yr			10–100 kg/yr			10–100 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	37	3	34	WATER	6	6	0	0	0				10–100 t/yr	10–100 t/yr												

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
ERA 27 Seafood processing																										
Seafood processing: 500t/yr or more				AIR	0	0	0	0	0																	
				LAND	2	2	0	0	0					1–10 t/yr												
	15	7	8	WATER	6	6	0	0	0				1–10 t/yr	1–10 t/yr	1–10 t/yr											
ERA 28 Sugar milling or refining																										
Sugar milling or refining: 200t/yr or more				AIR	32	9	16	3	4	100–1,000 t/yr	100–1,000 t/yr	100–1,000 t/yr				1,000–10,000 t/yr		10–100 t/yr	0.1–1 t/yr		10,000–100,000 t/yr				1–10 kg/yr	
				LAND	0	0	0	0	0																	
	48	15	33	WATER	1	1	0	0	0																	
ERA 29 Metal foundry operation																										
Threshold 1(a) Metal foundry (ferrous castings): 100–1,000t/yr				AIR	25	0	6	3	16								0.01–0.1 t/yr	1–10 t/yr				10–100 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	35	10	25	WATER	0	0	0	0	0																	
Threshold 1(b) Metal foundry (ferrous castings): >1,000–5,000t/yr				AIR	29	2	8	3	16		1–10 t/yr	1–10 t/yr					0.1–1 t/yr	1–10 t/yr				10–100 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	45	16	29	WATER	0	0	0	0	0																	
Threshold 1(c) Metal foundry (ferrous castings): >5,000–10,000t/yr				AIR	32	2	8	6	16		1–10 t/yr	1–10 t/yr					0.01–0.1 t/yr	10–100 t/yr				100–1,000 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	47	15	32	WATER	0	0	0	0	0																	
Threshold 1(d) Metal foundry (ferrous castings): >10,000t/yr				AIR	38	4	12	6	16		10–100 t/yr	10–100 t/yr					0.1–1 t/yr	10–100 t/yr	0.01–0.1 t/yr			100–1,000 kg/yr			>1,000 kg/yr	
				LAND	7	0	0	3	4													10–100 kg/yr				1–10 kg/yr	
	62	17	45	WATER	0	0	0	0	0																	
Threshold 2 Metal foundry (non–ferrous castings/permanent moulds): 50t/yr or more				AIR	6	0	2	0	4									0.1–1 t/yr							1–10 kg/yr	
				LAND	0	0	0	0	0																	
	13	7	6	WATER	0	0	0	0	0																	
Threshold 3(a) Metal foundry (non–ferrous castings/non–permanent moulds): >50–200t/yr				AIR	6	0	2	0	4									0.1–1 t/yr							1–10 kg/yr	
				LAND	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
	16	10	6	WATER	0	0	0	0	0																	
Threshold 3(b) Metal foundry (non–ferrous castings/non–permanent moulds): >200–1,000t/yr				AIR	7	1	2	0	4			1–10 t/yr						0.1–1 t/yr							1–10 kg/yr	
				LAND	0	0	0	0	0																	
	19	12	7	WATER	0	0	0	0	0																	
Threshold 3(c) Metal foundry (non–ferrous castings/non–permanent moulds): >1,000–5,000t/yr				AIR	13	1	4	0	8			1–10 t/yr						1–10 t/yr							10–100 kg/yr	
				LAND	0	0	0	0	0																	
	28	15	13	WATER	0	0	0	0	0																	
Threshold 3(d) Metal foundry (non–ferrous castings/non–permanent moulds): >5,000t/yr				AIR	18	3	4	3	8		1–10 t/yr	10–100 t/yr						1–10 t/yr				10–100 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	33	15	18	WATER	0	0	0	0	0																	
ERA 30 Metal smelting and refining																										
Threshold (a) Processing gold: 1–100t/yr				AIR	40	5	14	9	12	100–1,000 t/yr	1–10 t/yr	1–10 t/yr				100–1,000 t/yr	0.1–1 t/yr	0.1–1 t/yr	0.1–1 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	10	0	0	6	4													100–1,000 kg/yr			1–10 kg/yr	
	107	39	68	WATER	18	3	4	3	8				0.1–1 t/yr	1–10 t/yr					0.1–1 t/yr			10–100 kg/yr			10–100 kg/yr	
Threshold (b) Processing metalloids or metals (other than gold): 10–100t/yr				AIR	40	5	14	9	12	100–1,000 t/yr	1–10 t/yr	1–10 t/yr				100–1,000 t/yr	0.1–1 t/yr	0.1–1 t/yr	0.1–1 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	10	0	0	6	4													100–1,000 kg/yr			1–10 kg/yr	
	107	39	68	WATER	18	3	4	3	8				0.1–1 t/yr	1–10 t/yr					0.1–1 t/yr			10–100 kg/yr			10–100 kg/yr	
Threshold (c) Processing metalloids or metals: >100–10,000t/yr				AIR	68	8	22	18	20	>1,000 t/yr	10–100 t/yr	10–100 t/yr				1,000–10,000 t/yr	1–10 t/yr	1–10 t/yr	1–10 t/yr		100,000–1,000,000 t/yr	1,000–10,000 kg/yr	10–100 kg/yr		>1,000 kg/yr	0.01–0.1 g/yr
				LAND	20	1	2	9	8					0.1–1 t/yr			0.01–0.1 t/yr					1,000–10,000 kg/yr			10–100 kg/yr	
	205	86	119	WATER	31	5	8	6	12				1–10 t/yr	10–100 t/yr			0.01–0.1 t/yr		1–10 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
Threshold (d) Processing metalloids or metals: >10,000t/yr				AIR	91	10	30	27	24	>1,000 t/yr	100–1,000 t/yr	100–1,000 t/yr				>10,000 t/yr	>10 t/yr	10–100 t/yr	>10 t/yr		1,000,000–10,000,000 t/yr	>10,000 kg/yr	100–1,000 kg/yr		>1,000 kg/yr	0.1–1 g/yr
				LAND	30	2	4	12	12					1–10 t/yr			0.1–1 t/yr					>10,000 kg/yr			100–1,000 kg/yr	
	316	151	165	WATER	44	7	12	9	16				10–100 t/yr	>100 t/yr			0.1–1 t/yr		>10 t/yr			1,000–10,000 kg/yr			>1,000 kg/yr	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
ERA 31 Mineral processing																										
Threshold 1 Processing coke: 1000t/yr or more				AIR	61	7	14	12	28	100–1,000 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr		10,000–100,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	1–10 g/yr
				LAND	0	0	0	0	0																	
	148	87	61	WATER	0	0	0	0	0																	
Threshold 2(a) Mineral processing: 1,000–100,000t/yr				AIR	57	8	14	15	20	100–1,000 t/yr	100–1,000 t/yr	10–100 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr		1,000,000–10,000,000 t/yr	100–1,000 kg/yr			>1,000 kg/yr	0.01–0.1 g/yr
				LAND	10	0	0	6	4													100–1,000 kg/yr			1–10 kg/yr	
	179	87	92	WATER	25	3	8	6	8				0.1–1 t/yr	1–10 t/yr					>10 t/yr			100–1,000 kg/yr			10–100 kg/yr	
Threshold 2(b) Mineral processing: >100,000t/yr				AIR	76	11	20	21	24	>1,000 t/yr	>1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		>100 t/yr	>10 t/yr		>10,000,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	0.1–1 g/yr
				LAND	18	1	0	9	8					0.1–1 t/yr								1,000–10,000 kg/yr			10–100 kg/yr	
	280	152	128	WATER	34	5	8	9	12				1–10 t/yr	10–100 t/yr					>10 t/yr			1,000–10,000 kg/yr			100–1,000 kg/yr	
ERA 32 Battery manufacturing																										
Battery manufacturing: 200t/yr or more				AIR	26	1	6	3	16		1–10 t/yr					10–100 t/yr		1–10 t/yr				10–100 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	35	9	26	WATER	0	0	0	0	0																	
ERA 33 Crushing, milling, grinding or screening																										
Crushing, milling, grinding or screening material: >5,000t/yr	No score																									
ERA 35 Plaster manufacturing																										
Plaster manufacturing: 5,000t/yr or more				AIR	41	4	8	9	20	1–10 t/yr	10–100 t/yr	1–10 t/yr				100–1,000 t/yr		1–10 t/yr			10,000–100,000 t/yr	100–1,000 kg/yr			100–1,000 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	47	6	41	WATER	0	0	0	0	0																	
ERA 36 Pulp or paper manufacturing																										
Pulp or paper manufacturing: 100t/yr or more				AIR	60	8	16	12	24	100–1,000 t/yr	100–1,000 t/yr	10–100 t/yr				10–100 t/yr		10–100 t/yr	>10 t/yr		100,000–1,000,000 t/yr	100–1,000 kg/yr			>1,000 kg/yr	0.1–1 g/yr
				LAND	13	2	0	3	8					1–10 t/yr								10–100 kg/yr			10–100 kg/yr	
	204	87	117	WATER	44	5	6	9	24				1–10 t/yr	10–100 t/yr					1–10 t/yr			1,000–10,000 kg/yr			100–1,000 kg/yr	1–10 g/yr

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	AES	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
ERA 38 Surface coating																									
Threshold 1(a) Surface coating: anodising, electroplating, enamelling or galvanizing using 1t–100t/yr of surface coating materials				AIR	4	0	0	0	4																1–10 kg/yr	
				LAND	0	0	0	0	0																	
	10	6	4	WATER	0	0	0	0	0																	
Threshold 1(b) Surface coating: anodising, electroplating, enamelling or galvanizing using >100–1,000t/yr of surface coating materials				AIR	13	0	2	3	8										0.01–0.1 t/yr			10–100 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	19	6	13	WATER	0	0	0	0	0																	
Threshold 1(c) Surface coating: anodising, electroplating, enamelling or galvanizing using >1,000–10,000t/yr of surface coating materials				AIR	28	1	6	9	12		1–10 t/yr							0.1–1 t/yr	0.1–1 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	41	7	34	WATER	6	0	2	0	4										0.01–0.1 t/yr						1–10 kg/yr	
Threshold 1(d) Surface coating: anodising, electroplating, enamelling or galvanizing using >10,000t/yr of surface coating materials				AIR	46	3	12	15	16		10–100 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr		100,000–1,000,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	66	8	58	WATER	12	0	4	0	8										0.1–1 t/yr						10–100 kg/yr	
Threshold 2 Surface coating: coating, painting or powder coating using >100t/yr surface coating materials				AIR	5	1	4	0	0			1–10 t/yr						1–10 t/yr								
				LAND	0	0	0	0	0																	
	7	2	5	WATER	0	0	0	0	0																	
ERA 39 Tanning																										
Tanning: 100t/yr or more				AIR	21	3	10	0	8	1–10 t/yr	10–100 t/yr							10–100 t/yr	0.1–1 t/yr						10–100 kg/yr	
				LAND	15	3	0	12	0					10–100 t/yr								>10,000 kg/yr				
	56	12	44	WATER	8	2	0	6	0					1–10 t/yr								100–1,000 kg/yr				
ERA 40 Textile manufacturing																										
Threshold 1 Manufacturing or processing 100t/yr or more of carpet				AIR	23	2	6	3	12		1–10 t/yr	1–10 t/yr							1–10 t/yr		10,000–100,000 t/yr				10–100 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	27	4	23	WATER	0	0	0	0	0																	
Threshold 2 Manufacturing or processing 100t/yr or more of scouring or carbonising wool				AIR	23	2	6	3	12		1–10 t/yr	1–10 t/yr							1–10 t/yr		10,000–100,000 t/yr				10–100 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	AES	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
	27	4	23	WATER	0	0	0	0	0																
Threshold 3 Manufacturing or processing 100t/yr or more of milling cotton				AIR	23	2	6	3	12		1–10 t/yr	1–10 t/yr							1–10 t/yr		10,000–100,000 t/yr				10–100 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	27	4	23	WATER	0	0	0	0	0																	
Threshold 4 Manufacturing or processing 100t/yr or more of bleaching, dyeing or finishing natural fibre or synthetic textiles				AIR	23	2	6	3	12		1–10 t/yr	1–10 t/yr							1–10 t/yr		10,000–100,000 t/yr				10–100 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	27	4	23	WATER	0	0	0	0	0																	
ERA 41 Cement manufacturing																										
Threshold 1 Manufacturing cement: 200t/yr or more				AIR	64	7	18	15	24	10–100 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		10–100 t/yr	>10 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr	100–1,000 kg/yr		>1,000 kg/yr	0.1–1 g/yr
				LAND	11	0	0	3	8													10–100 kg/yr			10–100 kg/yr	
	92	10	82	WATER	7	2	2	3	0					1–10 t/yr					0.01–0.1 t/yr			10–100 kg/yr				
Threshold 2 Calcining limestone: 200t/yr or more				AIR	64	7	18	15	24	10–100 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		10–100 t/yr	>10 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr	100–1,000 kg/yr		>1,000 kg/yr	0.1–1 g/yr
				LAND	11	0	0	3	8													10–100 kg/yr			10–100 kg/yr	
	92	10	82	WATER	7	2	2	3	0					1–10 t/yr					0.01–0.1 t/yr			10–100 kg/yr				
ERA 42 Clay or ceramic products manufacturing																										
Threshold (a) Manufacturing clay or ceramic products: 200–5,000t/yr				AIR	22	3	8	3	8	1–10 t/yr	1–10 t/yr	1–10 t/yr						0.1–1 t/yr	1–10 t/yr			10–100 kg/yr			10–100 kg/yr	
				LAND	6	0	0	6	0													100–1,000 kg/yr				
	32	3	29	WATER	1	1	0	0	0					0.1–1 t/yr												
Threshold (b) Manufacturing clay or ceramic products: >5,000t/yr				AIR	48	6	14	12	16	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	>10 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr	10–100 kg/yr		100–1,000 kg/yr	0.01–0.1 g/yr
				LAND	9	0	0	9	0													1,000–10,000 kg/yr				
	62	3	59	WATER	2	2	0	0	0																	
ERA 44 Glass or glass fibre manufacturing																										
Glass or glass fibre manufacturing: 200t/yr or more				AIR	63	8	16	15	24	100–1,000 t/yr	100–1,000 t/yr	10–100 t/yr				10–100 t/yr		10–100 t/yr	>10 t/yr		100,000–1,000,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	67	4	63	WATER	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
ERA 45 Mineral wool or ceramic fibre manufacturing																										
Mineral wool or ceramic fibre manufacturing				AIR	50	9	10	15	16	100–1,000 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		10–100 t/yr			100,000–1,000,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	1	1	0	0	0					0.1–1 t/yr												
	55	4	51	WATER	0	0	0	0	0																	
ERA 46 Chemically treating timber																										
Threshold 1 Using chemicals listed in AS1604.1, appendix B, other than copper chromium arsenic or creosote, to treat 1500m^3 or more of timber in a year for preservation on a commercial basis.				AIR	17	0	8	9	0							10–100 t/yr		10–100 t/yr				1,000–10,000 kg/yr				
				LAND	0	0	0	0	0																	
	32	10	22	WATER	5	0	2	3	0									0.1–1 t/yr				10–100 kg/yr				
Threshold 2 Using copper chromium arsenic, creosote or a chemical not listed in AS1604.1, appendix B, to treat timber for preservation on a commercial basis.				AIR	28	0	6	6	16							10–100 t/yr		1–10 t/yr				100–1,000 kg/yr			100–1,000 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	42	10	32	WATER	4	0	0	0	4																1–10 kg/yr	
ERA 47 Timber milling and woodchipping																										
Threshold (a) Milling: 5,000–10,000t/yr				AIR	12	1	0	3	8			1–10 t/yr										10–100 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	22	10	12	WATER	0	0	0	0	0																	
Threshold (b) Milling: >10,000–20,000t/yr				AIR	25	2	4	3	16		1–10 t/yr	1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr			100–1,000 kg/yr	0.01–0.1 g/yr
				LAND	0	0	0	0	0																	
	35	10	25	WATER	0	0	0	0	0																	
Threshold (c) Milling: >20,000–100,000t/yr				AIR	48	5	10	9	24	1–10 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	0.1–1 t/yr		10,000–100,000 t/yr	100–1,000 kg/yr			>1,000 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	58	10	48	WATER	0	0	0	0	0																	
Threshold (d) Milling: >100,000t/yr				AIR	59	5	14	12	28	1–10 t/yr	10–100 t/yr	10–100 t/yr				100–1,000 t/yr		10–100 t/yr	0.1–1 t/yr		100,000–1,000,000 t/yr	100–1,000 kg/yr			>1,000 kg/yr	1–10 g/yr
				LAND	0	0	0	0	0																	
	69	10	59	WATER	0	0	0	0	0																	
ERA 48 Timber and laminated product fabrication																										
				AIR	25	2	4	3	16		1–10 t/yr	1–10 t/yr						1–10 t/yr				10–100 kg/yr			100–1,000 kg/yr	0.01–0.1 g/yr

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold 1(a) Manufacturing reconstituted timber products: 5,000–10,000t/yr				LAND	3	0	0	3	0													10–100 kg/yr				
	42	14	28	WATER	0	0	0	0	0																	
Threshold 1(b) Manufacturing reconstituted timber products: >10,000t/yr				AIR	46	5	8	9	24	1–10 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		10–100 t/yr				100–1,000 kg/yr	10–100 kg/yr		>1,000 kg/yr	0.1–1 g/yr
				LAND	6	0	0	6	0													100–1,000 kg/yr				
	70	14	56	WATER	4	0	0	0	4																1–10 kg/yr	
Threshold 2 Manufacturing laminated products: 100t/yr or more				AIR	46	4	12	6	24		10–100 t/yr	10–100 t/yr				100–1,000 t/yr		10–100 t/yr	0.01–0.1 t/yr			100–1,000 kg/yr			>1,000 kg/yr	0.1–1 g/yr
				LAND	0	0	0	0	0																	
	55	9	46	WATER	0	0	0	0	0																	
ERA 49 Boat maintenance or repair																										
Commercially operating a boat maintenance or repair facility				AIR	7	1	6	0	0		1–10 t/yr							10–100 t/yr								
				LAND	0	0	0	0	0																	
	17	11	7	WATER	0	0	0	0	0																	
ERA 50 Mineral and bulk material handling																										
Threshold 1(a) Loading or unloading 100t/day or more of minerals, other than loading or unloading mentioned in item 3, or storing 50,000t or more of mineralswithin 5km of highest astronomical tide or 1km of a watercourse				AIR	40	8	14	6	12	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	4	0	0	0	4																1–10 kg/yr	
	73	8	65	WATER	21	2	8	3	8					1–10 t/yr					>10 t/yr			10–100 kg/yr			10–100 kg/yr	
Threshold 1(b) Loading or unloading 100t/day or more of minerals, other than loading or unloading mentioned in item 3, or storing 50,000t or more of minerals at another place				AIR	40	8	14	6	12	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	4	0	0	0	4																1–10 kg/yr	
	49	5	44	WATER	0	0	0	0	0																	
Threshold 2 Loading or unloading 100t/day or more of bulk materials, other than loading or unloading mentioned in item 3, or storing bulk materials				AIR	40	8	14	6	12	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	4	0	0	0	4																1–10 kg/yr	
	73	8	65	WATER	21	2	8	3	8					1–10 t/yr					>10 t/yr			10–100 kg/yr			10–100 kg/yr	
Threshold 3 Loading or unloading 100t/day or more of minerals or bulk materials from 1 ship to another ship				AIR	40	8	14	6	12	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				10–100 t/yr		10–100 t/yr	1–10 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	4	0	0	0	4																1–10 kg/yr	
	73	8	65	WATER	21	2	8	3	8					1–10 t/yr					>10 t/yr			10–100 kg/yr			10–100 kg/yr	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
ERA 51 Road tunnel ventilation stack operation																									
Operating a road tunnel ventilation stack				AIR	31	5	10	0	16		100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		10–100 t/yr							>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	36	5	31	WATER	0	0	0	0	0																	
ERA 53 Organic material processing																										
Threshold (a) Processing organic material by composting: 200t/yr or more				AIR	4	2	2	0	0		1–10 t/yr	1–10 t/yr						0.1–1 t/yr								
				LAND	1	1	0	0	0					0.1–1 t/yr												
	18	12	6	WATER	1	1	0	0	0					0.1–1 t/yr												
Threshold (b) Processing organic material by anaerobic digestion: 200t/yr or more				AIR	4	2	2	0	0		1–10 t/yr	1–10 t/yr						0.1–1 t/yr								
				LAND	0	0	0	0	0																	
	16	12	4	WATER	0	0	0	0	0																	
ERA 54 Mechanical waste reprocessing																										
Threshold 1 Operating a facility for receiving and mechanically reprocessing inert, non–putrescible waste or green waste only: >5,000t/yr				AIR	0	0	0	0	0																	
				LAND	0	0	0	0	0																	
	8	8	0	WATER	0	0	0	0	0																	
Threshold 2(a) Operating a facility for receiving and mechanically reprocessing general waste: 5,000t/yr or less				AIR	11	1	4	6	0			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr			
				LAND	0	0	0	0	0																	
	19	8	11	WATER	0	0	0	0	0																	
Threshold 2(b) Operating a facility for receiving and mechanically reprocessing general waste: >5,000–10,000t/yr				AIR	11	1	4	6	0			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr			
				LAND	0	0	0	0	0																	
	25	14	11	WATER	0	0	0	0	0																	
Threshold 2(c) Operating a facility for receiving and mechanically reprocessing general waste: >10,000t/yr				AIR	11	1	4	6	0			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr			
				LAND	0	0	0	0	0																	
	31	20	11	WATER	0	0	0	0	0																	
Threshold 3(a) Operating a facility for receiving and mechanically reprocessing category 2 regulated waste: 5,000t/yr or less				AIR	15	1	4	6	4			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	AES	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
	29	14	15	WATER	0	0	0	0	0																	
Threshold 3(b) Operating a facility for receiving and mechanically reprocessing category 2 regulated waste: >5,000–10,000t/yr				AIR	15	1	4	6	4			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	43	28	15	WATER	0	0	0	0	0																	
Threshold 3(c) Operating a facility for receiving and mechanically reprocessing category 2 regulated waste: >10,000t/yr				AIR	15	1	4	6	4			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	56	41	15	WATER	0	0	0	0	0																	
Threshold 4(a) Operating a facility for receiving and mechanically reprocessing category 1 regulated waste: 5,000t/yr or less				AIR	15	1	4	6	4			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	32	17	15	WATER	0	0	0	0	0																	
Threshold 4(b) Operating a facility for receiving and mechanically reprocessing category 1 regulated waste: >5,000–10,000t/yr				AIR	15	1	4	6	4			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	50	35	15	WATER	0	0	0	0	0																	
Threshold 4(c) Operating a facility for receiving and mechanically reprocessing category 1 regulated waste: >10,000t/yr				AIR	15	1	4	6	4			1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr	10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	73	58	15	WATER	0	0	0	0	0																	
ERA 55 Other waste reprocessing or treatment																										
Threshold 1(a) Operating a facility for receiving and reprocessing or treating general waste: 5,000t/yr or less				AIR	13	1	6	6	0			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr			
				LAND	0	0	0	0	0																	
	28	12	16	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 1(b) Operating a facility for receiving and reprocessing or treating general waste: >5,000–10,000t/yr				AIR	13	1	6	6	0			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr			
				LAND	0	0	0	0	0																	
	39	23	16	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 1(c) Operating a facility for receiving and reprocessing or treating general waste: >10,000t/yr				AIR	13	1	6	6	0			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr			
				LAND	0	0	0	0	0																	
	48	32	16	WATER	3	0	0	3	0													10–100 kg/yr				

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold 2(a) Operating a facility for receiving and reprocessing or treating category 2 regulated waste: 5,000t/yr or less				AIR	17	1	6	6	4			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	38	18	20	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 2(b) Operating a facility for receiving and reprocessing or treating category 2 regulated waste: >5,000–10,000t/yr				AIR	17	1	6	6	4			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	52	32	20	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 2(c) Operating a facility for receiving and reprocessing or treating category 2 regulated waste: >10,000t/yr				AIR	17	1	6	6	4			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	65	45	20	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 3(a) Operating a facility for receiving and reprocessing or treating category 1 regulated waste: 5,000t/yr or less				AIR	17	1	6	6	4			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	46	26	20	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 3(b) Operating a facility for receiving and reprocessing or treating category 1 regulated waste: >5,000–10,000t/yr				AIR	17	1	6	6	4			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	65	45	20	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 3(c) Operating a facility for receiving and reprocessing or treating category 1 regulated waste: >10,000t/yr				AIR	17	1	6	6	4			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	82	62	20	WATER	3	0	0	3	0													10–100 kg/yr				
Threshold 4 Operating a facility for receiving and reprocessing or treating clinical waste or quarantine waste				AIR	17	1	6	6	4			1–10 t/yr						1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	46	29	17	WATER	0	0	0	0	0																	
ERA 57 Regulated waste transport																										
Threshold Regulated waste transport – transporting end–of–life tyres				AIR	0	0	0	0	0																	
				LAND	0	0	0	0	0																	
	2	2	0	WATER	0	0	0	0	0																	
				AIR	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold Regulated waste transport – transporting regulated waste other than end–of–life tyres (per vehicle)				LAND	0	0	0	0	0																	
	1	1	0	WATER	0	0	0	0	0																	
ERA 60 Waste disposal																										
Threshold 1(a) Waste disposal facility (any combination of regulated waste, general waste and limited regulated waste — and <5t untreated clinical wastes if in a scheduled area): <50,000t/yr				AIR	27	3	6	6	12	1–10 t/yr	1–10 t/yr	1–10 t/yr						1–10 t/yr	1–10 t/yr			10–100 kg/yr	100–1,000 kg/yr		10–100 kg/yr	0.01–0.1 g/yr
				LAND	5	1	0	0	4					1–10 t/yr												0.01–0.1 g/yr
	65	24	41	WATER	9	4	2	3	0				10–100 t/yr	10–100 t/yr					0.01–0.1 t/yr			10–100 kg/yr				
Threshold 1(b) Waste disposal facility (any combination of regulated waste, general waste and limited regulated waste — and <5t untreated clinical wastes if in a scheduled area): 50,000–100,000t/yr				AIR	42	3	10	9	20	1–10 t/yr	1–10 t/yr	1–10 t/yr						1–10 t/yr	1–10 t/yr			10–100 kg/yr	100–1,000 kg/yr		100–1,000 kg/yr	0.1–1 g/yr
				LAND	14	2	0	0	12					1–10 t/yr											1–10 kg/yr	0.1–1 g/yr
	92	22	70	WATER	14	6	2	6	0				10–100 t/yr	10–100 t/yr					0.01–0.1 t/yr			100–1,000 kg/yr				
Threshold 1(c) Waste disposal facility (any combination of regulated waste, general waste and limited regulated waste — and <5t untreated clinical wastes if in a scheduled area): >100,000–200,000t/yr				AIR	46	3	10	9	24	1–10 t/yr	1–10 t/yr	1–10 t/yr						1–10 t/yr	1–10 t/yr			10–100 kg/yr	100–1,000 kg/yr		100–1,000 kg/yr	1–10 g/yr
				LAND	21	2	0	3	16					1–10 t/yr								10–100 kg/yr			1–10 kg/yr	1–10 g/yr
	116	29	87	WATER	20	6	4	6	4				10–100 t/yr	10–100 t/yr					0.01–0.1 t/yr			100–1,000 kg/yr			1–10 kg/yr	
Threshold 1(d) Waste disposal facility (any combination of regulated waste, general waste and limited regulated waste — and <5t untreated clinical wastes if in a scheduled area): >200,000t/yr				AIR	52	3	16	9	24	1–10 t/yr	1–10 t/yr	1–10 t/yr					0.01–0.1 t/yr	10–100 t/yr	>10 t/yr			10–100 kg/yr	100–1,000 kg/yr		100–1,000 kg/yr	1–10 g/yr
				LAND	25	2	0	3	20					1–10 t/yr								10–100 kg/yr			10–100 kg/yr	1–10 g/yr
	119	22	97	WATER	20	6	4	6	4				10–100 t/yr	10–100 t/yr					0.1–1 t/yr			100–1,000 kg/yr			1–10 kg/yr	
Threshold 2(a) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): <2,000t/yr				AIR	4	0	0	0	4																1–10 kg/yr	
				LAND	4	0	0	0	4																	0.01–0.1 g/yr
	18	8	10	WATER	2	2	0	0	0				0.1–1 t/yr	0.1–1 t/yr												
Threshold 2(b) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): 2,000–5,000t/yr				AIR	8	0	0	0	8																1–10 kg/yr	0.01–0.1 g/yr
				LAND	4	0	0	0	4																	0.01–0.1 g/yr
	27	13	14	WATER	2	2	0	0	0				0.1–1 t/yr	0.1–1 t/yr												
Threshold 2(c) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): >5,000–10,000t/yr				AIR	14	0	2	0	12									0.1–1 t/yr							1–10 kg/yr	0.1–1 g/yr
				LAND	4	0	0	0	4																	0.01–0.1 g/yr
	37	15	22	WATER	4	2	2	0	0				0.1–1 t/yr	0.1–1 t/yr					0.01–0.1 t/yr							
Threshold 2(d) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): >10,000–20,000t/yr				AIR	20	0	4	0	16									0.1–1 t/yr	0.01–0.1 t/yr						10–100 kg/yr	0.1–1 g/yr
				LAND	8	0	0	0	8																	0.1–1 g/yr

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
	45	13	32	WATER	4	2	2	0	0				0.1–1 t/yr	0.1–1 t/yr					0.01–0.1 t/yr							
Threshold 2(e) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): >20,000–50,000t/yr				AIR	25	0	6	3	16									0.1–1 t/yr	0.1–1 t/yr				10–100 kg/yr		10–100 kg/yr	0.1–1 g/yr
				LAND	9	1	0	0	8					0.1–1 t/yr												0.1–1 g/yr
	56	13	43	WATER	9	4	2	3	0				1–10 t/yr	1–10 t/yr					0.01–0.1 t/yr			10–100 kg/yr				
Threshold 2(f) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): >50,000–100,000t/yr				AIR	27	0	8	3	16									1–10 t/yr	0.1–1 t/yr				10–100 kg/yr		10–100 kg/yr	0.1–1 g/yr
				LAND	9	1	0	0	8					0.1–1 t/yr												0.1–1 g/yr
	65	18	47	WATER	14	4	4	6	0				1–10 t/yr	1–10 t/yr					0.01–0.1 t/yr			10–100 kg/yr				
Threshold 2(g) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): >100,000t/yr–200,000t/yr				AIR	33	1	10	6	16			1–10 t/yr						1–10 t/yr	1–10 t/yr			10–100 kg/yr	10–100 kg/yr		10–100 kg/yr	0.1–1 g/yr
				LAND	13	1	0	0	12					0.1–1 t/yr											1–10 t/yr	0.1–1 g/yr
	82	22	60	WATER	14	4	4	6	0				1–10 t/yr	1–10 t/yr					0.1–1 t/yr			100–1,000 kg/yr				
Threshold 2(h) Waste disposal facility (any combination of general waste and no more than 10% limited regulated waste): >200,000t/yr				AIR	46	3	10	9	24	1–10 t/yr	1–10 t/yr	1–10 t/yr						1–10 t/yr	1–10 t/yr			10–100 kg/yr	100–1,000 kg/yr		100–1,000 kg/yr	1–10 g/yr
				LAND	18	2	0	0	16					1–10 t/yr											1–10 t/yr	1–10 g/yr
	107	27	80	WATER	16	6	4	6	0				10–100 t/yr	10–100 t/yr					0.1–1 t/yr			100–1,000 kg/yr				
Threshold 3(a) Waste disposal facility (inert waste only): <50,000t/yr				AIR	2	0	2	0	0										0.1–1 t/yr							
				LAND	1	1	0	0	0					0.1–1 t/yr												
	28	16	12	WATER	9	4	2	3	0				1–10 t/yr	1–10 t/yr					0.01–0.1 t/yr			10–100 kg/yr				
Threshold 3(b) Waste disposal facility (inert waste only): >50,000–100,000t/yr				AIR	2	0	2	0	0										0.1–1 t/yr							
				LAND	1	1	0	0	0					0.1–1 t/yr												
	35	21	14	WATER	11	4	4	3	0				1–10 t/yr	1–10 t/yr					0.01–0.1 t/yr			10–100 kg/yr				
Threshold 3(c) Waste disposal facility (inert waste only): >100,000t/yr–200,000t/yr				AIR	6	1	2	3	0			1–10 t/yr							1–10 t/yr			10–100 kg/yr				
				LAND	1	1	0	0	0					0.1–1 t/yr												
	40	22	18	WATER	11	4	4	3	0				1–10 t/yr	1–10 t/yr					0.1–1 t/yr			100–1,000 kg/yr				
Threshold 3(d) Waste disposal facility (inert waste only): >200,000t/yr				AIR	8	3	2	3	0	1–10 t/yr	1–10 t/yr	1–10 t/yr							1–10 t/yr			10–100 kg/yr				
				LAND	2	2	0	0	0					1–10 t/yr												
	50	27	23	WATER	13	6	4	3	0				10–100 t/yr	10–100 t/yr					0.1–1 t/yr			100–1,000 kg/yr				
Threshold 4 Maintaining a decommissioned waste disposal facility				AIR	0	0	0	0	0																	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
				LAND	0	0	0	0	0																	
	9	9	0	WATER	0	0	0	0	0																	
ERA 61 Thermal waste reprocessing and treatment																									
Threshold 1(a) Operating a facility for thermally reprocessing or treating general waste: 5,000t/yr or less				AIR	10	4	6	0	0	1–10 t/yr	1–10 t/yr	10–100 t/yr				10–100 t/yr			0.1–1 t/yr							
				LAND	0	0	0	0	0																	
	33	23	10	WATER	0	0	0	0	0																	
Threshold 1(b) Operating a facility for thermally reprocessing or treating general waste: >5,000–10,000t/yr				AIR	21	4	10	3	4	1–10 t/yr	1–10 t/yr	10–100 t/yr				10–100 t/yr		0.1–1 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	0	0	0	0	0																	
	39	18	21	WATER	0	0	0	0	0																	
Threshold 1(c) Operating a facility for thermally reprocessing or treating general waste: >10,000t/yr				AIR	21	4	10	3	4	1–10 t/yr	1–10 t/yr	10–100 t/yr				10–100 t/yr		0.1–1 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	0	0	0	0	0																	
	45	24	21	WATER	0	0	0	0	0																	
Threshold 2(a) Operating a facility for thermally reprocessing or treating category 2 regulated waste: 5,000t/yr or less				AIR	25	6	12	3	4	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	3	0	0	3	0													10–100 kg/yr				
	43	13	30	WATER	2	0	2	0	0										0.01–0.1 t/yr							
Threshold 2(b) Operating a facility for thermally reprocessing or treating category 2 regulated waste: >5,000–10,000t/yr				AIR	25	6	12	3	4	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	3	0	0	3	0													10–100 kg/yr				
	57	27	30	WATER	2	0	2	0	0										0.01–0.1 t/yr							
Threshold 2(c) Operating a facility for thermally reprocessing or treating category 2 regulated waste: >10,000t/yr				AIR	25	6	12	3	4	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	3	0	0	3	0													10–100 kg/yr				
	70	40	30	WATER	2	0	2	0	0										0.01–0.1 t/yr							
Threshold 3(a) Operating a facility for thermally reprocessing or treating category 1 regulated waste: 5,000t/yr or less				AIR	25	6	12	3	4	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	3	0	0	3	0													10–100 kg/yr				
	51	21	30	WATER	2	0	2	0	0										0.01–0.1 t/yr							
Threshold 3(b) Operating a facility for thermally reprocessing or treating category 1 regulated waste: >5,000–10,000t/yr				AIR	25	6	12	3	4	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	3	0	0	3	0													10–100 kg/yr				

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	AES	Site factor	Emission score	Sector	Sector Risk	Tier 1	Tier 2	Tier 3	Tier 4	SO2	NOx	PM10	Total P	Total N	BOD	CO	Cyanide	VOC	Halogens	TSS	Greenhouse	Metals	Organo–halogens	TDS	Carcinogens	POPS
	69	39	30	WATER	2	0	2	0	0										0.01–0.1 t/yr							
Threshold 3(c) Operating a facility for thermally reprocessing or treating category 1 regulated waste: >10,000t/yr				AIR	25	6	12	3	4	10–100 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	1–10 t/yr			10–100 kg/yr			1–10 kg/yr	
				LAND	3	0	0	3	0													10–100 kg/yr				
	87	57	30	WATER	2	0	2	0	0										0.01–0.1 t/yr							
Threshold 4 Operating a facility for thermally reprocessing or treating clinical waste or quarantine waste				AIR	33	5	14	6	8	10–100 t/yr	1–10 t/yr	10–100 t/yr				10–100 t/yr	0.01–0.1 t/yr	1–10 t/yr	1–10 t/yr			10–100 kg/yr	10–100 kg/yr		10–100 kg/yr	
				LAND	7	0	0	3	4													10–100 kg/yr			1–10 kg/yr	
	51	11	40	WATER	0	0	0	0	0																	
ERA 62 Resource recovery and transfer facility operation																										
Threshold 1(a) Operating a facility for receiving and sorting, dismantling, baling or temporarily storing scrap steel, non–putrescible waste or green waste only				AIR	0	0	0	0	0																	
				LAND	0	0	0	0	0																	
	6	6	0	WATER	0	0	0	0	0																	
Threshold 1(b) Operating a facility for receiving and sorting, dismantling, baling or temporarily storing general waste				AIR	0	0	0	0	0																	
				LAND	0	0	0	0	0																	
	14	14	0	WATER	0	0	0	0	0																	
Threshold 1(c) Operating a facility for receiving and sorting, dismantling, baling or temporarily storing category 2 regulated waste				AIR	9	0	2	3	4									0.1–1 t/yr					10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	26	17	9	WATER	0	0	0	0	0																	
Threshold 1(d) Operating a facility for receiving and sorting, dismantling, baling or temporarily storing category 1 regulated waste				AIR	9	0	2	3	4									0.1–1 t/yr					10–100 kg/yr		1–10 kg/yr	
				LAND	0	0	0	0	0																	
	35	26	9	WATER	0	0	0	0	0																	
Threshold 2 Operating a facility for receiving and sorting, dismantling, baling or temporarily storing end–of–life tyres only				AIR	6	1	2	3	0			1–10 t/yr						0.1–1 t/yr					10–100 kg/yr			
				LAND	0	0	0	0	0																	
	14	8	6	WATER	0	0	0	0	0																	
ERA 63 Sewage treatment																										
Threshold 1(a)(i) Sewage treatment: 21–100EP with treated effluent discharged to an infiltration trench or irrigation scheme				AIR	0	0	0	0	0																	
				LAND	8	1	0	3	4					0.1–1 t/yr								10–100 kg/yr			1–10 kg/yr	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
	14	6	8	WATER	0	0	0	0	0																	
Threshold 1(a)(ii) Sewage treatment: 21–100EP with treated effluent discharged other than as in 1(a)(i)				AIR	0	0	0	0	0																	
				LAND	7	0	0	3	4													10–100 kg/yr			1–10 kg/yr	
	27	6	21	WATER	14	1	2	3	8					0.1–1 t/yr					0.01–0.1 t/yr			10–100 kg/yr			10–100 kg/yr	
Threshold 1(b)(i) Sewage treatment: >100–1,500EP with treated effluent discharged to an infiltration trench or irrigation scheme				AIR	4	0	0	0	4																1–10 kg/yr	
				LAND	17	3	0	6	8				0.1–1 t/yr	1–10 t/yr								100–1,000 kg/yr			10–100 kg/yr	
	27	6	21	WATER	0	0	0	0	0																	
Threshold 1(b)(ii) Sewage treatment: >100–1,500EP with treated effluent discharged other than as in 1(b)(i)				AIR	4	0	0	0	4																1–10 kg/yr	
				LAND	15	1	0	6	8					0.1–1 t/yr								100–1,000 kg/yr			10–100 kg/yr	
	53	6	47	WATER	28	3	4	9	12				0.1–1 t/yr	1–10 t/yr					0.1–1 t/yr			100–1,000 kg/yr	10–100 kg/yr		100–1,000 kg/yr	
Threshold 1(c) Sewage treatment: >1,500–4,000EP				AIR	13	0	2	3	8									0.1–1 t/yr					10–100 kg/yr		10–100 kg/yr	
				LAND	20	2	0	6	12					1–10 t/yr								100–1,000 kg/yr			100–1,000 kg/yr	
	76	6	70	WATER	37	4	6	15	12				1–10 t/yr	1–10 t/yr					1–10 t/yr			1,000–10,000 kg/yr	100–1,000 kg/yr		100–1,000 kg/yr	
Threshold 1(d) Sewage treatment: >4,000–10,000EP				AIR	14	1	2	3	8		1–10 t/yr							0.1–1 t/yr					10–100 kg/yr		10–100 kg/yr	
				LAND	23	2	0	9	12					1–10 t/yr								1,000–10,000 kg/yr			100–1,000 kg/yr	
	89	8	81	WATER	44	5	8	15	16				1–10 t/yr	10–100 t/yr			0.01–0.1 t/yr		1–10 t/yr			1,000–10,000 kg/yr	100–1,000 kg/yr		>1,000 kg/yr	
Threshold 1(e) Sewage treatment: >10,000–50,000EP				AIR	25	1	6	6	12		1–10 t/yr							1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		100–1,000 kg/yr	
				LAND	28	3	0	9	16					10–100 t/yr								1,000–10,000 kg/yr			>1,000 kg/yr	
	114	8	106	WATER	53	6	10	21	16				10–100 t/yr	10–100 t/yr			0.01–0.1 t/yr					>10,000 kg/yr	1,000–10,000 kg/yr		>1,000 kg/yr	
1(f) Sewage treatment: >50,000–100,000EP				AIR	29	3	8	6	12		10–100 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr	0.01–0.1 t/yr				100–1,000 kg/yr		100–1,000 kg/yr	
				LAND	31	3	0	12	16					10–100 t/yr								>10,000 kg/yr			>1,000 kg/yr	
	125	9	116	WATER	56	7	12	21	16				10–100 t/yr	>100 t/yr			0.1–1 t/yr		>10 t/yr			>10,000 kg/yr	1,000–10,000 kg/yr		>1,000 kg/yr	
Threshold 1(g) Sewage treatment: >100,000EP				AIR	42	5	12	9	16		100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		10–100 t/yr	0.01–0.1 t/yr				1,000–10,000 kg/yr		>1,000 kg/yr	
				LAND	32	4	0	12	16					>100 t/yr								>10,000 kg/yr			>1,000 kg/yr	
	145	9	136	WATER	62	8	14	24	16				>100 t/yr	>100 t/yr			1–10 t/yr		>10 t/yr			>10,000 kg/yr	>10,000 kg/yr		>1,000 kg/yr	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Threshold 2 Operating a sewage pumping station (design capacity >40KL an hour), if not an essential part of the operation of a sewage treatment works	No score																								
ERA 64 Water treatment																									
Threshold 1(a) Desalinating water (releasing waste to seawater): 0.5ML–5ML/day	No score																								
Threshold 1(b) Desalinating water (releasing waste to seawater): >5ML/day				AIR	0	0	0	0	0																
				LAND	0	0	0	0	0																
	7	5	2	WATER	2	0	2	0	0											10–100 t/yr					
Threshold 2(a) Desalinating water (releasing waste to waters other than seawater): 0.5ML–5ML/day				AIR	0	0	0	0	0																
				LAND	0	0	0	0	0																
	8	5	3	WATER	3	0	0	3	0															10–100 t/yr	
Threshold 2(b) Desalinating water (releasing waste to waters other than seawater): >5ML/day				AIR	1	1	0	0	0		1–10 t/yr														
				LAND	0	0	0	0	0																
	13	7	6	WATER	5	0	2	3	0											10–100 t/yr				10–100 t/yr	
Threshold 3 Raw water treatment: >10ML/day				AIR	6	0	6	0	0										1–10 t/yr						
				LAND	0	0	0	0	0																
	26	2	24	WATER	18	0	6	12	0										1–10 t/yr			>10,000 kg/yr			
Threshold 4(a) Advanced water treatment (releasing waste to seawater): 5ML/day or more				AIR	9	0	6	3	0										1–10 t/yr				10–100 kg/yr		
				LAND	0	0	0	0	0																
	34	5	29	WATER	20	0	8	12	0										1–10 t/yr	10–100 t/yr		>10,000 kg/yr			
Threshold 4(b) Advanced water treatment (releasing waste to waters other than seawater): 5ML or more/day				AIR	9	0	6	3	0										1–10 t/yr				10–100 kg/yr		
				LAND	0	0	0	0	0																
	45	7	38	WATER	29	0	8	21	0										1–10 t/yr	10–100 t/yr		>10,000 kg/yr		1,000–10,000 t/yr	

Appendix 3 — Contaminant Tier and Level information for resource activities

Table 5—Emissions scores for each threshold of resource activity with contaminant Tier and Level information

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
Schedule 3 (Resource ERAs)																										
1 Activities under a greenhouse gas injection and storage lease under the *Greenhouse Gas Storage Act 2009*				AIR	12	0	0	12	0												>10,000,000 t/yr					
				LAND	0	0	0	0	0																	
	49	**37**	**12**	WATER	0	0	0	0	0																	
2 A petroleum activity authorised under the *Petroleum (Submerged Lands) Act 1982*				AIR	43	7	14	6	16	10–100 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		>100 t/yr	0.01–0.1 t/yr		10,000–100,000 t/yr	10–100 kg/yr			>1,000 kg/yr	
				LAND	7	0	0	3	4													10–100 kg/yr			1–10 kg/yr	
	126	**39**	**87**	WATER	37	5	4	12	16				1–10 t/yr	10–100 t/yr					0.1–1 t/yr			>10,000 kg/yr			>1,000 kg/yr	
3 A petroleum activity that is likely to have a significant impact on a category A or B environmentally sensitive area				AIR	43	7	14	6	16	10–100 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		>100 t/yr	0.01–0.1 t/yr		10,000–100,000 t/yr	10–100 kg/yr			>1,000 kg/yr	
				LAND	7	0	0	3	4													10–100 kg/yr			1–10 kg/yr	
	126	**39**	**87**	WATER	37	5	4	12	16				1–10 t/yr	10–100 t/yr					0.1–1 t/yr			>10,000 kg/yr			>1,000 kg/yr	
4 Extending an existing pipeline by more than 150km under a petroleum authority				AIR	20	3	6	3	8		10–100 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr			10,000–100,000 t/yr				10–100 kg/yr	
				LAND	0	0	0	0	0																	
	165	**145**	**20**	WATER	0	0	0	0	0																	
5 Constructing a new pipeline of more than 150km under a petroleum authority				AIR	20	3	6	3	8		10–100 t/yr	1–10 t/yr				10–100 t/yr		1–10 t/yr			10,000–100,000 t/yr				10–100 kg/yr	
				LAND	0	0	0	0	0																	
	165	**145**	**20**	WATER	0	0	0	0	0																	
6 A petroleum activity carried out on a site containing a high hazard dam or a significant hazard dam				AIR	28	1	10	9	8		1–10 t/yr					10–100 t/yr	0.01–0.1 t/yr	1–10 t/yr	10–100 kg/yr		10,000–100,000 t/yr	10–100 kg/yr	10–100 kg/yr		10–100 kg/yr	
				LAND	34	0	2	24	8								0.01–0.1 t/yr					>10,000 kg/yr		>10,000 t/yr	10–100 kg/yr	
	165	82	83	WATER	21	0	4	9	8								0.01–0.1 t/yr		10–100 kg/yr			10–100 kg/yr		100–1,000 t/yr	10–100 kg/yr	
7 A petroleum activity involving injection of a waste fluid into a natural underground reservoir or aquifer				AIR	0	0	0	0	0																	
				LAND	0	0	0	0	0																	
	165	123	42	WATER	42	1	8	21	12					0.1–1 t/yr					>10,000 kg/yr			100–1,000 kg/yr	10–100 kg/yr		100–1,000 kg/yr	
8 A petroleum activity or greenhouse gas storage activity, other than an activity mentioned in any of items 1 to 7, that includes one or more activities mentioned in schedule 2 for which an aggregate environmental score is stated				AIR	43	7	14	6	16	10–100 t/yr	100–1,000 t/yr	10–100 t/yr				100–1,000 t/yr		>100 t/yr	0.01–0.1 t/yr		10,000–100,000 t/yr	10–100 kg/yr			>1,000 kg/yr	
				LAND	7	0	0	3	4													10–100 kg/yr			1–10 kg/yr	
	126	39	87	WATER	37	5	4	12	16				1–10 t/yr	10–100 t/yr					0.1–1 t/yr			>10,000 kg/yr			>1,000 kg/yr	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
9 A mining activity involving drilling, costeaning, pitting or carrying out geological surveys causing significant disturbance				AIR	1	1	0	0	0			1–10 t/yr														
				LAND	3	0	0	3	0													10–100 kg/yr				
	8	2	6	WATER	2	0	2	0	0											10–100 t/yr						
10 Investigating the potential development of a mineral resource by large bulk sampling or constructing an exploratory shaft, adit or open pit				AIR	5	1	0	0	4			1–10 t/yr													1–10 kg/yr	
				LAND	3	0	0	3	0													10–100 kg/yr				
	17	7	10	WATER	2	0	2	0	0											10–100 t/yr						
11 Mining bauxite				AIR	60	11	18	15	16	>1,000 t/yr	100–1,000 t/yr	>1,000 t/yr				100–1,000 t/yr		>100 t/yr	1–10 t/yr		100,000–1,000,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	21	0	0	9	12													1,000–10,000 kg/yr			100–1,000 kg/yr	
	97	8	89	WATER	8	0	0	0	8																10–100 kg/yr	
12 Mining mineral sand				AIR	59	9	18	12	20	100–1,000 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		10–100 t/yr	>10 t/yr		10,000–100,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	0.01–0.1 g/yr
				LAND	29	1	0	12	16					0.1–1 t/yr								>10,000 kg/yr			>1,000 kg/yr	
	120	9	111	WATER	23	5	0	6	12				10–100 t/yr	1–10 t/yr								100–1,000 kg/yr			100–1,000 kg/yr	
13 Mining black coal				AIR	56	9	16	15	16	10–100 t/yr	100–1,000 t/yr	>1,000 t/yr				100–1,000 t/yr		10–100 t/yr	1–10 t/yr		100,000–1,000,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	8	1	0	3	4					0.1–1 t/yr								10–100 kg/yr			1–10 kg/yr	
	128	42	86	WATER	22	2	6	6	8				0.1–1 t/yr	0.1–1 t/yr					1–10 t/yr			100–1,000 kg/yr			10–100 kg/yr	
14 Mining iron ore				AIR	59	9	14	12	24	10–100 t/yr	100–1,000 t/yr	>1,000 t/yr				100–1,000 t/yr		10–100 t/yr	0.1–1 t/yr		10,000–100,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	0.1–1 g/yr
				LAND	21	0	0	9	12													1,000–10,000 kg/yr			100–1,000 kg/yr	
	128	9	119	WATER	39	5	6	12	16				1–10 t/yr	10–100 t/yr					1–10 t/yr			>10,000 kg/yr			>1,000 kg/yr	
15 Mining nickel ore				AIR	58	11	16	15	16	100–1,000 t/yr	>1,000 t/yr	>1,000 t/yr				100–1,000 t/yr	0.01–0.1 t/yr	10–100 t/yr	0.1–1 t/yr		10,000–100,000 t/yr	>10,000 kg/yr			>1,000 kg/yr	
				LAND	28	0	0	12	16													>10,000 kg/yr			>1,000 kg/yr	
	160	42	118	WATER	32	3	4	9	16					10–100 t/yr					0.1–1 t/yr			1,000–10,000 kg/yr			>1,000 kg/yr	
16 Mining gold ore				AIR	66	11	24	15	16	>1,000 t/yr	100–1,000 t/yr	>1,000 t/yr				100–1,000 t/yr	>10 t/yr	10–100 t/yr	1–10 t/yr		100,000–1,000,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	27	0	6	9	12								1–10 t/yr					1,000–10,000 kg/yr			100–1,000 kg/yr	
	216	87	129	WATER	36	4	8	12	12				0.1–1 t/yr	10–100 t/yr			1–10 t/yr		0.01–0.1 t/yr			>10,000 kg/yr			100–1,000 kg/yr	
17 Mining copper ore				AIR	75	10	26	15	24	100–1,000 t/yr	100–1,000 t/yr	>1,000 t/yr				1,000–10,000 t/yr	>10 t/yr	10–100 t/yr	1–10 t/yr		10,000–100,000 t/yr	>10,000 kg/yr			>1,000 kg/yr	0.1–1 g/yr
				LAND	21	0	0	9	12													1,000–10,000 kg/yr			100–1,000 kg/yr	

ERA and description	AES	AES COMPONENTS		EMISSION SUMMARY						CONTAMINANTS															
Threshold	**AES**	**Site factor**	**Emission score**	**Sector**	**Sector Risk**	**Tier 1**	**Tier 2**	**Tier 3**	**Tier 4**	**SO2**	**NOx**	**PM10**	**Total P**	**Total N**	**BOD**	**CO**	**Cyanide**	**VOC**	**Halogens**	**TSS**	**Greenhouse**	**Metals**	**Organo–halogens**	**TDS**	**Carcinogens**	**POPS**
	217	87	130	WATER	34	0	6	12	16										1–10 t/yr			>10,000 kg/yr			>1,000 kg/yr	
18 Mining lead, silver or zinc separately or in any combination				AIR	65	9	22	18	16	10–100 t/yr	100–1,000 t/yr	>1,000 t/yr				10–100 t/yr	1–10 t/yr	10–100 t/yr	>10 t/yr		100,000–1,000,000 t/yr	>10,000 kg/yr			>1,000 kg/yr	
				LAND	22	1	0	9	12					0.1–1 t/yr								1,000–10,000 kg/yr			100–1,000 kg/yr	
	185	55	130	WATER	43	5	10	12	16				1–10 t/yr	10–100 t/yr			0.01–0.1 t/yr		>10 t/yr			>10,000 kg/yr			>1,000 kg/yr	
19 Mining metal ore, other than a metal ore mentioned in item 11, 12, 13, 14, 15, 16, 17 or 18				AIR	71	8	16	15	32	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		10–100 t/yr	1–10 t/yr		10,000–100,000 t/yr	>10,000 kg/yr			>1,000 kg/yr	>10 g/yr
				LAND	14	0	0	6	8													100–1,000 kg/yr			10–100 kg/yr	
	158	42	116	WATER	31	5	6	12	8				1–10 t/yr	10–100 t/yr					1–10 t/yr			>10,000 kg/yr			10–100 kg/yr	
20 Clay pit mining, dimension stone mining or mining gemstones (including the material from which gemstones are extracted)																										
Threshold (a) if the activity involves mining a quantity of material between 5000t and 100,000t in a year				AIR	17	2	4	3	8		1–10 t/yr	1–10 t/yr						0.1–1 t/yr	0.01–0.1 t/yr			10–100 kg/yr			10–100 kg/yr	
				LAND	0	0	0	0	0																	
	22	5	17	WATER	0	0	0	0	0																	
Threshold (b) if the activity involves mining a quantity of material more than 100,000t but not more than 1,000,000t in a year				AIR	33	5	10	6	12	1–10 t/yr	10–100 t/yr	10–100 t/yr				10–100 t/yr		1–10 t/yr	0.1–1 t/yr			100–1,000 kg/yr			100–1,000 kg/yr	
				LAND	0	0	0	0	0																	
	39	6	33	WATER	0	0	0	0	0																	
Threshold (c) if the activity involves mining a quantity of material more than 1,000,000t in a year				AIR	49	8	16	9	16	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				100–1,000 t/yr		10–100 t/yr	1–10 t/yr			1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	0	0	0	0	0																	
	57	33	49	WATER	0	0	0	0	0																	
21 A mining activity that is an ineligible ERA, other than a mining activity mentioned in items 9 to 20				AIR	48	8	12	12	16	10–100 t/yr	100–1,000 t/yr	100–1,000 t/yr				10–100 t/yr		10–100 t/yr	0.1–1 t/yr		10,000–100,000 t/yr	1,000–10,000 kg/yr			>1,000 kg/yr	
				LAND	28	0	0	12	16													>10,000 kg/yr			>1,000 kg/yr	
	136	27	109	WATER	33	3	6	12	12										1–10 t/yr			>10,000 kg/yr			100–1,000 kg/yr	