

**TABLE D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS
(Primary Discharge Point)**

Discharge Point Code: SW01 Watergrasshill

Source of Emission:	Primary Discharge from Treatment Plant
Location:	Meenane, Watergrasshill
Grid Ref. (12 digit, 6E, 6N):	177230E 085422N
Name of receiving waters:	River Flesk
River Basin District:	South Western River Basin District
Designation of receiving waters:	No designation at discharge location
Flow rate in receiving waters:	<p style="text-align: right;">_____ 0.033 Estimated _____ m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ 0.0665 _____ m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	600 m ³	Maximum/day	Not available m ³
Maximum rate/hour	89 m ³	Period of emission (avg)	<p style="text-align: center;">___ Not available ___ min/hr ___ Not available ___ hr/day ___ Not available ___ day/yr</p>
Dry Weather Flow	0.0037 m ³ /sec		

**TABLE D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission
(Primary Discharge Point)**

Discharge Point Code: SW 01 Watergrasshill

Number	Substance	As discharged	
		Max. daily average	
1	pH	6.0 – 8.5	Not available
2	Temperature	30 °C	Not available
3	Electrical Conductivity(@25°C)	1000	Not available
		Max. daily average (mg/l)	kg/day
4	Suspended Solids	35	74.97
5	Ammonia (as N)**	Not applicable	Not applicable
6	Biochemical Oxygen Demand	25	53.55
7	Chemical Oxygen Demand**	125	267.75
8	Total Nitrogen (as N)	15	32.13
9	Nitrite (as N)	Not applicable	Not applicable
10	Nitrate (as N)	Not applicable	Not applicable
11	Total Phosphorus (as P)	2.0	4.28
12	Orthophosphate (as P) ^{Note 1}	1.7	3.64
13	Sulphate (SO ₄)**	Not applicable	Not applicable
14	Phenols (sum) ^{Note 2} (ug/l)*	Not applicable	Not applicable

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS

Primary Discharge Point - Characteristics of the emission

Discharge Point Code: SW01 Watergrasshill

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day*	kg/year*
1	Atrazine	Not applicable	Not applicable	Not applicable
2	Dichloromethane	Not applicable	Not applicable	Not applicable
3	Simazine	Not applicable	Not applicable	Not applicable
4	Toluene	Not applicable	Not applicable	Not applicable
5	Tributyltin	Not applicable	Not applicable	Not applicable
6	Xylenes	Not applicable	Not applicable	Not applicable
7	Arsenic	Not applicable	Not applicable	Not applicable
8	Chromium**	Not applicable	Not applicable	Not applicable
9	Copper**	Not applicable	Not applicable	Not applicable
10	Cyanide	Not applicable	Not applicable	Not applicable
11	Fluoride	Not applicable	Not applicable	Not applicable
12	Lead	Not applicable	Not applicable	Not applicable
13	Nickel**	Not applicable	Not applicable	Not applicable
14	Zinc**	Not applicable	Not applicable	Not applicable
15	Boron	Not applicable	Not applicable	Not applicable
16	Cadmium**	Not applicable	Not applicable	Not applicable
17	Mercury	Not applicable	Not applicable	Not applicable
18	Selenium	Not applicable	Not applicable	Not applicable
19	Barium	Not applicable	Not applicable	Not applicable

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Note 3: * Average flow data of 10488m³/day recorded in E4 sheets

Note 4: ** Values recorded less than LOD were recorded as half the LOD in order to generate statistical data

**TABLE D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS
(Storm Water Overflow) (1 table per discharge point)**

Discharge Point Code: SW02 Watergrasshill

Source of Emission:	Emergency Overflow from old percolating filters
Location:	Meenane, Watergrasshill
Grid Ref. (12 digit, 6E, 6N):	177253E 085407N
Name of receiving waters:	Flesk River
River Basin District:	South Western River Basin District
Designation of receiving waters:	No designation at discharge location
Flow rate in receiving waters:	<p style="text-align: right;">_____ 0.033 Estimated _____ m³.sec⁻¹ Dry Weather Flow</p> <p style="text-align: right;">_____ 0.0665 _____ m³.sec⁻¹ 95%ile flow</p>

Emission Details:

(i) Volume emitted			
Normal/day	m ³	Maximum/day	Not available m ³
Maximum rate/hour	m ³	Period of emission (avg)	<p style="text-align: center;">_____ Not available _____ min/hr _____ Not available _____ hr/day _____ Not available _____ day/yr</p>

TABLE D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of the emission (1 table per discharge point)

(Secondary Discharge Point)

Discharge Point Code: SW02 Watergrasshill

Number	Substance	As discharged	
		Max. daily average	
1	pH	Not available	Not available
2	Temperature	Not available	Not available
3	Electrical Conductivity (@25°C)	Not available	Not available
		Max. daily average (mg/l)	kg/day
4	Suspended Solids	Not available	Not available
5	Ammonia (as N)	Not available	Not available
6	Biochemical Oxygen Demand	Not available	Not available
7	Chemical Oxygen Demand	Not available	Not available
8	Total Nitrogen (as N)	Not available	Not available
9	Nitrite (as N)	Not available	Not available
10	Nitrate (as N)	Not available	Not available
11	Total Phosphorus (as P) ^{Note 1}	Not available	Not available
12	Orthophosphate (as P)	Not available	Not available
13	Sulphate (SO ₄)	Not available	Not available
14	Phenols (sum) ^{Note 2} (ug/l)	Not available	Not available

Note 1: For waste water samples this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.

Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS

Secondary Discharge Point - Characteristics of the emission (1 table per discharge point)

Discharge Point Code: SW02 Watergrasshill

Number	Substance	As discharged		
		Max. daily average (µg/l)	kg/day	kg/year
1	Atrazine	Not available	Not available	Not available
2	Dichloromethane	Not available	Not available	Not available
3	Simazine	Not available	Not available	Not available
4	Toluene	Not available	Not available	Not available
5	Tributyltin	Not available	Not available	Not available
6	Xylenes	Not available	Not available	Not available
7	Arsenic	Not available	Not available	Not available
8	Chromium	Not available	Not available	Not available
9	Copper	Not available	Not available	Not available
10	Cyanide	Not available	Not available	Not available
11	Fluoride	Not available	Not available	Not available
12	Lead	Not available	Not available	Not available
13	Nickel	Not available	Not available	Not available
14	Zinc	Not available	Not available	Not available
15	Boron	Not available	Not available	Not available
16	Cadmium	Not available	Not available	Not available
17	Mercury	Not available	Not available	Not available
18	Selenium	Not available	Not available	Not available
19	Barium	Not available	Not available	Not available

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