

### **E.3 Emission to Sewer**

Sanitary wastewater from the Administration Building is collected and directed to an on-site Biocycle wastewater treatment plant, located to the south of the building. The treated effluent used to discharge to an on-site percolation area, but this has been discontinued and the effluent is currently sent off-site for treatment in a local authority owned municipal wastewater treatment plant.

Water from floor wash downs inside the waste processing buildings discharges to three underground holding tanks located near the buildings. The washwater from the vehicle wash is collected in a separate underground storage tank. All the wastewater is sent to the municipal wastewater treatment plant.

The wastewater quality is monitored quarterly for the parameters specified in the licence and the results confirm that wastewater is suitable for treatment in the plant to which it is consigned. The results for 2016 are in the Table below.

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Parameter	Unit	27/07/2016	22/12/2016
Aluminium	ug/L	2952	502.3
Ammonia	mg/L as NH4	78.609	6.21
Antimony	ug/L	2.941	<2.06
Arsenic	ug/L	23.22	2.437
Barium	ug/L	166.6	89.1
Beryllium	ug/L	0.117	<0.03
BOD	mg/L	250	12
Boron	ug/L	152	132.8
Cadmium	ug/L	0.21	0.113
Cesium	ug/L	0.46	<0.09
Chloride	mg/L	91.96	28.35
Chromium	ug/L	16.63	3.215
Cobalt	ug/L	6.247	7.268
COD	mg/L	360	94
Copper	ug/L	74.05	13.45
Gallium	ug/L	1.09	<0.21
Iron	ug/L	8265	6159
Lead	ug/L	13.32	11.14
Lithium	ug/L	55.89	22.42
Manganese	ug/L	1029	873.6
Mineral	ug/L	1007.87	2960.98
Nickel	ug/L	27.45	20.57
pH	pH	7.6	7
Rubidium	ug/L	42.53	9.021
Selenium	ug/L	<2.12	<2.12
Silver	ug/L	<0.33	<0.33
Total	mg/L	176	74
Strontium	ug/L	793.3	580.8
Sulphate	mg/L as SO4	31.245	188.48
Thallium	ug/L	<0.04	<0.04
Tin	ug/L	<2.8	5.432
Uranium	ug/L	2.571	1.166
Vanadium	ug/L	13.62	2.959
Zinc	ug/L	95.54	88.97