

SECTION F1: ASSESSMENT OF IMPACT ON RECEIVING SURFACE OR GROUND WATER

- 1.0 *Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.*

Refer to Attachment B6 (Planning Permission & EIS) of this Application and Sections 3, 5, 6 and 7 of the EIS in particular. The EIS relates to the primary discharge from the Waste Water Works.

Future Needs Assessment will consider the assessment of impacts of other discharges from the Waste Water Works to the aqueous environment.

- 2.0 *Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.*

Sampling of effluent from the WWTP is currently conducted within the WWTP at locations indicated in Attachment E2 (Monitoring & Sampling Points) of this Application. Both the treated effluent and the storm overflow are monitored. Results of this monitoring are included.

Future Needs Assessment will consider the monitoring of water quality in the receiving water body at locations upstream and downstream of the primary discharge point.

- 3.0 *For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.*

Secondary discharge points from the Waste Water Works are not routinely monitored. Future Needs Assessment will consider the monitoring of water quality in the receiving water bodies at secondary discharge points.

- 4.0 *Provide details of the extent and type of ground emissions at the works. For larger discharges to groundwaters, e.g., from Integrated Constructed Wetlands, large scale percolation areas, etc., a comprehensive report must be completed which should include, inter alia, topography, meteorological data, water quality, geology, hydrology, and hydrogeology. The latter must in particular present the aquifer classification and vulnerability. The Geological Survey of Ireland Groundwater Protection Scheme Dept of the Environment and Local Government, Geological Survey of Ireland, EPA (1999) methodology should be used for any such classification. This report should*

also identify all surface water bodies and water wells that may be at risk as a result of the ground discharge.

There are no known ground emissions from the Waste Water Works.

- 5.0 Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving water.

Refer to Attachment B6 (Planning Permission & EIS) of this Application and Section 5 of the EIS in particular. The EIS relates to the primary discharge from the Waste Water Works.

The South Western River Basin District Summary Report is included by way of a catchment management plan. The South Western River Basin District Register of Protected Areas is also included. The latter designates the Lee Estuary as Nutrient Sensitive (S.I. 254 of 2001 Urban Waste Water Treatment Regulations) and also classifies Cork Harbour as a Special Protection Area (S.I. 291 of 1985 Conservation of Wild Birds).

- 6.0 Provide a statement as to whether or not emissions of main polluting substances (as defined in the Dangerous Substances Regulations S.I. No. 12 of 2001) to water are likely to impair the environment.

The Waste Water Works reduces the quantity and improves the quality of polluting substances that would otherwise discharge to the aqueous environment.

- 7.0 In circumstances where water abstraction points exist downstream of any discharge describe measures to be undertaken to ensure that discharges from the waste water works will not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers, e.g., Cryptosporidium and Giardia, in the receiving water environment.

No known water abstraction points exist downstream of the Waste Water Works.

- 8.0 Indicate whether or not emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have a significant effect on –

- (a) a site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) –

- (i) notified for the purposes of Regulation 4 of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations,
 - (ii) details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations, or
 - (iii) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations,
- (b) a site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC¹ in accordance with the procedures laid down in Article 21 of that Directive,
 - (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
 - (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC²;

¹Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ No. L 206, 22.07.1992)

²Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (OJ No. L 103, 25.4.1979)

Refer to Attachment B6 (Planning Permission & EIS) of this Application and the EIS in particular. The EIS demonstrates compliance with the Birds Directive 79/409/EEC and the Habitats Directive 92/43/EEC with respect to the WWTP.

- 9.0 Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.

Sludge is produced as a by-product of the WWTP. This sludge is disposed of outside the Agglomeration. Refer to Attachment B6 (Planning Permission & EIS) of this Application and to Section 3.5 of the EIS in particular.

- 10.0 This section should also contain full details of any modelling of discharges from the agglomeration. Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment F.1.**

Refer to Attachment B6 (Planning Permission & EIS) of this Application and to Appendix 1 of the EIS in particular.

TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

(Primary Discharge Point – one table per upstream and downstream location)

Discharge Point Code: WWTP1 (Sampling within WWTP only)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only

Note 1: Or other unit as appropriate – please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)
 (Primary Discharge Point - one table per upstream and downstream location)

Discharge Point Code: WWTP1 (Sampling within WWTP only)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
 For inspection purposes only.

**TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location)
(Secondary Discharge Point)**

Discharge Point Code: PS01 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS01 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

**TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locati
(Secondary Discharge Point)**

Discharge Point Code: PS03 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.

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

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS03 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location) (Secondary Discharge Point)

Discharge Point Code: PS04 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})		Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date			
pH					
Temperature					
Electrical Conductivity (@25°C)					
Suspended Solids					
Ammonia (as N)					
Biochemical Oxygen Demand					
Chemical Oxygen Demand					
Dissolved Oxygen					
Hardness (as CaCO ₃)					
Total Nitrogen (as N)					
Nitrite (as N)					
Nitrate (as N)					
Total Phosphorous (as P)					
Orthophosphate (as P) - unfiltered					
Sulphate (SO ₄) ^{Note 2} (ug/l)					
Phenols (sum)					

Consent of copyright owner required for any other use.

Note 1: Or other unit as appropriate - please specify.
 Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS04 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

**TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locati
(Secondary Discharge Point)**

Discharge Point Code: PS05 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS05 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location (Secondary Discharge Point))

Discharge Point Code: PS06 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})		Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date			
pH					
Temperature					
Electrical Conductivity (@25°C)					
Suspended Solids					
Ammonia (as N)					
Biochemical Oxygen Demand					
Chemical Oxygen Demand					
Dissolved Oxygen					
Hardness (as CaCO ₃)					
Total Nitrogen (as N)					
Nitrite (as N)					
Nitrate (as N)					
Total Phosphorous (as P)					
Orthophosphate (as P) - unfiltered					
Sulphate (SO ₄)					
Phenols (sum) ^{Note 2} (ug/l)					

Consent of copyright owner required for any other use.
For inspection purposes only

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS06 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location (Secondary Discharge Point))

Discharge Point Code: PS07 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l) ^{Note 1}			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄) ^{Note 2} (ug/l)						
Phenols (sum)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS07 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location) (Secondary Discharge Point)

Discharge Point Code: PS08 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS08 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location) (Secondary Discharge Point)

Discharge Point Code: PS09 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l) ^(Note 1)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

**TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations
(Secondary Discharge Point)**

Discharge Point Code: PS09 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location) (Secondary Discharge Point)

Discharge Point Code: PS10 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l) ^{Note 1}			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄) ^{Note 2} (ug/l)						
Phenols (sum)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.

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

TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations (Secondary Discharge Point))

Discharge Point Code: PS10 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location) (Secondary Discharge Point)

Discharge Point Code: PS11 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

**TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations
(Secondary Discharge Point)**

Discharge Point Code: PS11 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

**TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location)
(Secondary Discharge Point)**

Discharge Point Code: PS12 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l ^{Note 1})			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
pH						
Temperature						
Electrical Conductivity (@25°C)						
Suspended Solids						
Ammonia (as N)						
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Dissolved Oxygen						
Hardness (as CaCO ₃)						
Total Nitrogen (as N)						
Nitrite (as N)						
Nitrate (as N)						
Total Phosphorous (as P)						
Orthophosphate (as P) - unfiltered						
Sulphate (SO ₄)						
Phenols (sum) ^{Note 2} (ug/l)						

Consent of copyright owner required for any other use.
For inspection purposes only.

Note 1: Or other unit as appropriate - please specify.
Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

**TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream locations
(Secondary Discharge Point)**

Discharge Point Code: PS12 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (µg/l)			Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date	Date			
Atrazine						
Dichloromethane						
Simazine						
Toluene						
Tributyltin						
Xylenes						
Arsenic						
Chromium						
Copper						
Cyanide						
Fluoride						
Lead						
Nickel						
Zinc						
Boron						
Cadmium						
Mercury						
Selenium						
Barium						

Consent of copyright owner required for any other use.
For inspection purposes only.

TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING - (1 table per discharge point upstream and downstream location (Secondary Discharge Point))

Discharge Point Code: PS14 (No sampling undertaken to date)

MONITORING POINT CODE: _____

Parameter	Results (mg/l) ^{Note 1)}		Sampling method (grab, drift etc.)	Limit of Quantitation	Analysis method / technique
	Date	Date			
pH					
Temperature					
Electrical Conductivity (@25°C)					
Suspended Solids					
Ammonia (as N)					
Biochemical Oxygen Demand					
Chemical Oxygen Demand					
Dissolved Oxygen					
Hardness (as CaCO ₃)					
Total Nitrogen (as N)					
Nitrite (as N)					
Nitrate (as N)					
Total Phosphorous (as P)					
Orthophosphate (as P) - unfiltered					
Sulphate (SO ₄) ^{Note 2} (ug/l)					
Phenols (sum)					

Consent of copyright owner required for any other use.

Note 1: Or other unit as appropriate - please specify.
 Note 2: USEPA Method 604, AWWA Standard Method 6240, or equivalent.