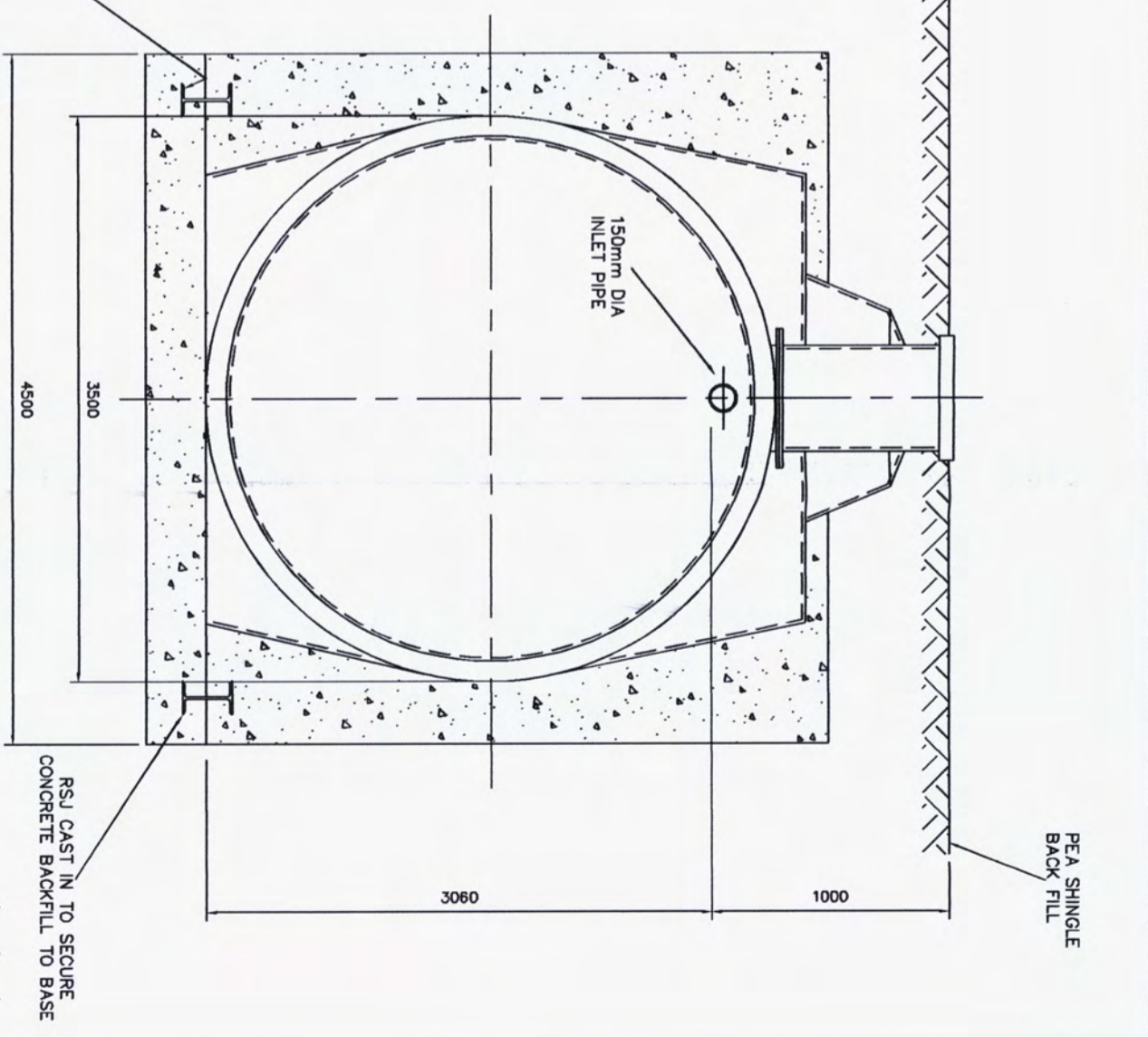


ELEVATION OF SEWPAC PLANT  
NTS

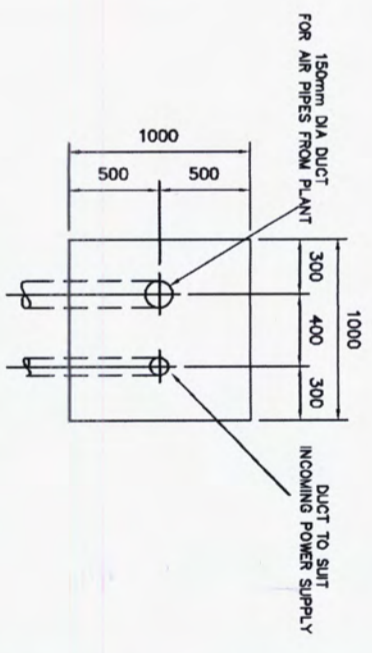


VIEW ON ARROW "A" OF SEWPAC PLANT  
NTS


**BACK FILLING INSTRUCTIONS**

- 1 Mark out and excavate hole allowing for an additional 200mm Minimum clearance to sides of the tank.
- 2 If water is present in the excavation, pump out prior to and during the installation procedure.
- 3 The base of the excavation should be covered by Grade G25 concrete of sufficient thickness to ensure that the tank is adequately supported with due regard to sub-soil conditions and the loads imposed by the Sempac unit when filled.
- 4 Carefully lower the tank into the excavation and seat onto the concrete base. Ensure that the tank is level. Metal cleats fitted to the tank can then be fastened to the concrete base using suitable bolts.
- 5 Commence back-filling with concrete ensuring that it is worked under the base of the tank to prevent the formation of voids. (AT NO TIME SHOULD A VIBRATING POKER BE USED). At the same time commence filling the tank with water. Continue with concrete backfill and filling the tank with water such that the level of water is kept just above that of the concrete.

- 6 Connect the tank to the 110mm or 160mm diameter UPVC inlet and outlet pipes and using suitable UPVC pipe, duct the air hoses to where the blower kiosk will be positioned.
- 7 Cut turret extensions to correct size and using Kelsed supplied bolt onto tank.
- 8 Continue backfill operation until cylindrical sections of the tank are completely covered. The flat section over the Media Compartment and the remaining excavation can now be covered with Pad Shingle or Free flowing top soil.
- 9 Prepare foundation for and fit manhole frames and covers.



COMPRESSOR PLINTH DETAILS

 <p><b>SYSTEMS LTD</b> Environmental Engineering</p>		<p>Reg. Office: General: Newry BT34 2PB Fax: (0663)932333 N. Ireland. Telephone: (0663)66616/54511</p>
<p>Architect/Client <b>MR TOM COUGHLAN</b></p>		<p>Contract Name <b>KILCULLY S.T.P</b></p>
<p>Drawing Title <b>DETAILS OF SEWPAC UNIT TYPE VES 8</b></p>		
Drawn	F.DONALD	Scale
Date	23/10/97	NTS
Checked		
<p>Drawing Number <b>3556/1</b></p>		<p>Rev. <b>A</b></p>



## Waste Water Discharge Licence Applications

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[Discharge Point Details](#) [Emissions to surface/ground waters](#) [Dangerous Substance Emissions](#) [Monitoring Points](#)

### Discharge Point

Cork County Council > Rosemount > GW-1

#### Discharge Point Details

Emission To:	<input type="text" value="Ground Water"/>	Flow rate of receiving waters (Dry Weather Flow) (m <sup>3</sup> /sec)	<input type="text" value=""/>
Emission Point Reference Number	<input type="text" value="GW-1"/>	Flow rate of receiving waters (95% Flow) (m <sup>3</sup> /sec)	<input type="text" value=""/>
Water Body	<input type="text" value="Ground Water Body"/>	Volume to be emitted (Normal / Day) (m <sup>3</sup> )	<input type="text" value="22.5"/>
Local Authority Ref No.	<input type="text" value="WWTTP"/>	Volume to be emitted (Maximum / Day) (m <sup>3</sup> )	<input type="text" value="135"/>
Source of Emission	<input type="text" value="Rosemount, Kilcully, Cork"/>	Volume to be emitted (Maximum Rate / Hour) (m <sup>3</sup> )	<input type="text" value="5.6"/>
Location	<input type="text" value="167830"/>	Volume to be emitted (Dry Weather Flow) (m <sup>3</sup> /sec)	<input type="text" value="0.0003"/>
Easting (6 digits)	<input type="text" value="75754"/>	Periods of Emission (Minutes per Hour)	<input type="text" value=""/>
Northing (6 digits)	<input type="text" value=""/>	Periods of Emission (Hours per Day)	<input type="text" value=""/>
Name of receiving waters	<input type="text" value="Not Applicable"/>	Periods of Emission (Days per Year)	<input type="text" value="365"/>
River Basin District	<input type="text" value="South Western RBD"/>	Frequency of Discharge (days / annum):	<input type="text" value="365"/>
Designation of receiving waters	<input type="text" value="Not Applicable"/>	Quantity of Waste Water Discharged (m <sup>3</sup> /annum):	<input type="text" value="24638"/>

Additional Comments (e.g. commentary on zero flow or other information deemed of value)

All volume to be emitted above are estimated based on the following:  
 1/. Per Capita Contributory Rate = 225 ltr/head/day;  
 2/. Normal Flow = 1DWF;  
 3/. Maximum Flow = 6DWF;  
 4/. Annual Discharge = 3DWF.

**Attachment D.1(iii) Private Waste Water  
Treatment Plants**

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**D.1(iii) PRIVATE WASTE WATER TREATMENT PLANTS**

There are no private waste water treatment plants serving the Rosemount Agglomeration.

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**Attachment D.2**

**Tabular Data on  
Discharge Points**

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**D.2 TABULAR DATA ON DISCHARGE POINTS**

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
Point Code Provide label ID's	Point Type (e.g., Primary/ Secondary/ Storm Water Overflow)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional, Coastal)	Receiving Water Body Name (e.g., River Suir)	Protected Area Type (e.g., SAC, candidate SAC, NHA, SPA etc.)	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference
GW01	Primary	Cork County Council	Groundwater	Not Applicable	Not Applicable	167830	075752

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### E.3 TABULAR DATA ON MONITORING & SAMPLING POINTS

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used
aGW01a	Primary	M	167830	075752	Y
aGW01u	Primary	M	168239	075997	Y
aGW01d	Primary	M	167200	075288	Y

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### Discharge Point

Cork County Council > Rosemount > GW-1

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#### Discharge Point Details

Emission To:	<input type="text" value="Ground Water"/>	Flow rate of receiving waters (Dry Weather Flow) (m <sup>3</sup> /sec)	<input type="text" value=""/>
Emission Point Reference Number	<input type="text" value="GW-1"/>	Flow rate of receiving waters (95% Flow) (m <sup>3</sup> /sec)	<input type="text" value=""/>
Water Body	<input type="text" value="Ground Water Body"/>	Volume to be emitted (Normal / Day) (m <sup>3</sup> )	<input type="text" value="22.5"/>
Local Authority Ref No.	<input type="text" value=""/>	Volume to be emitted (Maximum / Day) (m <sup>3</sup> )	<input type="text" value="135"/>
Source of Emission	<input type="text" value="WWTP"/>	Volume to be emitted (Maximum Rate / Hour) (m <sup>3</sup> )	<input type="text" value="5.6"/>
Location	<input type="text" value="Rosemount, Kilcully, Cork"/>	Volume to be emitted (Dry Weather Flow) (m <sup>3</sup> /sec)	<input type="text" value="0.0003"/>
Easting (6 digits)	<input type="text" value="167830"/>	Periods of Emission (Minutes per Hour)	<input type="text" value=""/>
Northing (6 digits)	<input type="text" value="75754"/>	Periods of Emission (Hours per Day)	<input type="text" value=""/>
Name of receiving waters	<input type="text" value="Not Applicable"/>	Periods of Emission (Days per Year)	<input type="text" value="365"/>
River Basin District	<input type="text" value="South Western RBD"/>	Frequency of Discharge (days / annum):	<input type="text" value="365"/>
Designation of receiving waters	<input type="text" value="Not Applicable"/>	Quantity of Waste Water Discharged (m <sup>3</sup> /annum):	<input type="text" value="24638"/>

Additional Comments (e.g. commentary on zero flow or other information deemed of value)

All volume to be emitted above are estimated based on the following:  
 1/. Per Capita Contributory Rate = 225 ltr/head/day;  
 2/. Normal Flow = 1DWF;  
 3/. Maximum Flow = 6DWF;  
 4/. Annual Discharge = 3DWF.



**Attachment E.2**

**Monitoring & Sampling  
Points**

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## Monitoring Point

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### Monitoring Point Details

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Monitoring Point:

Monitoring Location:

Easting (6 digits):

Northing (6 digits):

Verified Using GPS:

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## Monitoring Point

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### Monitoring Point Details

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Monitoring Point	<input type="text" value="aGW-1d"/>
Monitoring Location	<input type="text" value="Downstream of discharge"/>
Easting (6 digits)	<input type="text" value="167200"/>
Northing (6 digits)	<input type="text" value="075288"/>
Verified Using GPS	<input checked="" type="checkbox"/>

**Attachment E.3**

**Tabular Data on  
Monitoring & Sampling  
Points**

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### E.3 TABULAR DATA ON MONITORING & SAMPLING POINTS

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used
aGW01a	Primary	M	167830	075752	Y
aGW01u	Primary	M	168239	075997	Y
aGW01d	Primary	M	167200	075288	Y

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### Discharge Point

[Cork County Council > Rosemount > GW-1](#)

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#### Emissions to surface/ground waters

Substance	Unit of Measure	Sampling Method	As discharged	Max daily average	kg/Day
pH	pH		=	7.1	
Temperature	°C		=		
Electrical Conductivity (@ 25 °C)	µS/cm		=	352	
Suspended Solids	mg/l		=	125	
Ammonia (as N)	mg/l		=	12.5	
Biochemical Oxygen Demand	mg/l		=	38	
Chemical Oxygen Demand	mg/l		=	59	
Total Nitrogen (as N)	mg/l		=	20.85	
Nitrite (as N)	mg/l		=	0.397	
Nitrate (as N)	mg/l		=	2.653	
Total Phosphorous (as P)	mg/l		=	1.62	
Orthophosphate (as P)	mg/l		=	1.71	
Sulphate (SO <sub>4</sub> )	mg/l		=	33.1	
Phenols (Sum)	µg/l		<	0.1	

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.  
For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Save

Cancel



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### Discharge Point

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#### Dangerous Substance Emissions

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Substance	Unit of Measure	Sampling Method	As discharged Max daily average	kg/Day
Atrazine	µg/l		<	0.01
Dichloromethane	µg/l		<	1
Simazine	µg/l		<	0.01
Toluene	µg/l		<	0.28
Tributyltin	µg/l		=	
Xylenes	µg/l		<	0.73
Arsenic	µg/l		=	0.3
Chromium	µg/l		<	20
Copper	µg/l		<	20
Cyanide	µg/l		<	5
Flouride	µg/l		=	85
Lead	µg/l		<	20
Nickel	µg/l		<	20
Zinc	µg/l		<	20
Boron	µg/l		<	20
Cadmium	µg/l		<	20
Mercury	µg/l		<	0.03
Selenium	µg/l		<	2.12
Barium	µg/l		=	47.7

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Save

Cancel



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### Monitoring Point

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#### Monitoring Details

Substance	Unit of Measure	Sampling Method	Limit of Quantification	Analysis Method / Technique
pH	pH	Grab	2	Electrochemical
Temperature	°C	Grab		
Electrical Conductivity (@ 25 °C)	µS/cm	Grab	0.5	Electrochemical
Suspended Solids	mg/l	Grab	0.5	Gravimetric
Ammonia (as N)	mg/l	Grab	0.02	Colorimetric
Biochemical Oxygen Demand	mg/l	Grab	0.06	Electrochemical
Chemical Oxygen Demand	mg/l	Grab	8	Digestion & Colorimetric
Dissolved Oxygen	mg/l	Grab		
Hardness (as CaCO <sub>3</sub> )	mg/l	Grab		
Total Nitrogen (as N)	mg/l	Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	mg/l	Grab		
Nitrate (as N)	mg/l	Grab	0.5	Colorimetric
Total Phosphorous (as P)	mg/l	Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	mg/l	Grab	0.02	Colorimetric
Sulphate (SO <sub>4</sub> )	mg/l	Grab	30	Turbidimetric
Phenols (Sum)	µg/l	Grab	0.1	GC-MS2

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.  
For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments





## Waste Water Discharge Licence Applications

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### Monitoring Point

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#### Monitoring Test Details

Substance	Unit of Measure	Date (DD/MM/YY)		Value
pH	pH	17/11/09	=	7.5
Temperature	°C		=	
Electrical Conductivity (@ 25 °C)	µS/cm	17/11/09	=	356
Suspended Solids	mg/l	17/11/09	=	9
Ammonia (as N)	mg/l	17/11/09	<	0.1
Biochemical Oxygen Demand	mg/l	17/11/09	<	1
Chemical Oxygen Demand	mg/l	17/11/09		21
Dissolved Oxygen	mg/l		=	
Hardness (as CaCO <sub>3</sub> )	mg/l		=	
Total Nitrogen (as N)	mg/l	17/11/09	=	6.75
Nitrite (as N)	mg/l	17/11/09	<	0.1
Nitrate (as N)	mg/l	17/11/09	=	5.21
Total Phosphorous (as P)	mg/l	17/11/09	<	0.05
OrthoPhosphate (as P)	mg/l	17/11/09	<	0.05
Sulphate (SO <sub>4</sub> )	mg/l	17/11/09	<	30
Phenols (Sum)	µg/l		=	

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.  
For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments



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#### Dangerous Substance Monitoring Details

Substance	Unit of Measure	Sampling Method	Limit of Quantification	Analysis Method / Technique
Atrazine	µg/l	Grab	0.96	HPLC
Dichloromethane	µg/l	Grab	1	GC-MS1
Simazine	µg/l	Grab	0.01	HPLC
Toluene	µg/l	Grab	0.02	GC-MS1
Tributyltin	µg/l	Grab	0.02	GC-MS1
Xylenes	µg/l	Grab	1	GC-MS1
Arsenic	µg/l	Grab	0.96	ICP-MS
Chromium	µg/l	Grab	20	ICP-OES
Copper	µg/l	Grab	20	ICP-OES
Cyanide	µg/l	Grab	5	Colorimetric
Flouride	µg/l	Grab	100	ISE
Lead	µg/l	Grab	20	ICP-OES
Nickel	µg/l	Grab	20	ICP-OES
Zinc	µg/l	Grab	20	ICP-OES
Boron	µg/l	Grab	20	ICP-OES
Cadmium	µg/l	Grab	20	ICP-OES
Mercury	µg/l	Grab	0.2	ICP-MS
Selenium	µg/l	Grab	0.74	ICP-MS
Barium	µg/l	Grab	20	ICP-OES

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Additional Comments



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#### Dangerous Substance Test Details

Atrazine

Add New Row

Substance	Unit of Measure	Date (DD/MM/YY)		Value
Atrazine	µg/l		=	
Dichloromethane	µg/l		=	
Simazine	µg/l		=	
Toluene	µg/l		=	
Tributyltin	µg/l		=	
Xylenes	µg/l		=	
Arsenic	µg/l		=	
Chromium	µg/l	17/11/09	<	20
Copper	µg/l	17/11/09	<	20
Cyanide	µg/l		=	
Flouride	µg/l	17/11/09	<	25
Lead	µg/l	17/11/09	<	20
Nickel	µg/l	17/11/09	<	20
Zinc	µg/l	17/11/09	<	20
Boron	µg/l	17/11/09	<	20
Cadmium	µg/l	17/11/09	<	20
Mercury	µg/l		=	
Selenium	µg/l		=	
Barium	µg/l	17/11/09	=	38.8

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### Monitoring Point

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[Dangerous Substance Monitoring Details](#)
[Dangerous Substance Test Deta](#)

#### Monitoring Details

Substance	Unit of Measure	Sampling Method	Limit of Quantification	Analysis Method / Technique
pH	pH	Grab	2	Electrochemical
Temperature	°C	Grab		
Electrical Conductivity (@ 25 °C)	µS/cm	Grab	0.5	Electrochemical
Suspended Solids	mg/l	Grab	0.5	Gravimetric
Ammonia (as N)	mg/l	Grab	0.02	Colorimetric
Biochemical Oxygen Demand	mg/l	Grab	0.06	Electrochemical
Chemical Oxygen Demand	mg/l	Grab	8	Digestion & Colorimetric
Dissolved Oxygen	mg/l	Grab		
Hardness (as CaCO <sub>3</sub> )	mg/l	Grab		
Total Nitrogen (as N)	mg/l	Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	mg/l	Grab		
Nitrate (as N)	mg/l	Grab	0.5	Colorimetric
Total Phosphorous (as P)	mg/l	Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	mg/l	Grab	0.02	Colorimetric
Sulphate (SO <sub>4</sub> )	mg/l	Grab	30	Turbidimetric
Phenols (Sum)	µg/l	Grab	0.1	GC-MS2

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.  
For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments



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### Monitoring Point

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[Monitoring Details](#)
[Monitoring Test Details](#)
[Dangerous Substance Monitoring Details](#)
[Dangerous Substance Test Deta](#)

#### Monitoring Test Details

Substance	Unit of Measure	Date (DD/MM/YY)		Value
pH	pH	17/11/09	=	7.5
Temperature	°C		=	
Electrical Conductivity (@ 25 °C)	µS/cm	17/11/09	=	257
Suspended Solids	mg/l	17/11/09	=	11
Ammonia (as N)	mg/l	17/11/09	<	0.1
Biochemical Oxygen Demand	mg/l	17/11/09	<	1
Chemical Oxygen Demand	mg/l	17/11/09	<	21
Dissolved Oxygen	mg/l			
Hardness (as CaCO <sub>3</sub> )	mg/l		=	
Total Nitrogen (as N)	mg/l	17/11/09	=	6.67
Nitrite (as N)	mg/l	17/11/09	<	0.1
Nitrate (as N)	mg/l	17/11/09	=	5.15
Total Phosphorous (as P)	mg/l	17/11/09	=	0.097
OrthoPhosphate (as P)	mg/l	17/11/09	=	0.1
Sulphate (SO <sub>4</sub> )	mg/l	17/11/09	<	30
Phenols (Sum)	µg/l		=	

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper.  
For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments



## Waste Water Discharge Licence Applications

Licence Issues: Office of Climate, Licensing and Resource Use  
Tel: 053 9160600

Technical Support: Cora Systems  
Tel: 071 9616943

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### Monitoring Point

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[Dangerous Substance Monitoring Details](#)
[Dangerous Substance Test Details](#)

#### Dangerous Substance Monitoring Details

Substance	Unit of Measure	Sampling Method	Limit of Quantification	Analysis Method / Technique
Atrazine	µg/l	Grab	0.96	HPLC
Dichloromethane	µg/l	Grab	1	GC-MS1
Simazine	µg/l	Grab	0.01	HPLC
Toluene	µg/l	Grab	0.02	GC-MS1
Tributyltin	µg/l	Grab	0.02	GC-MS1
Xylenes	µg/l	Grab	1	GC-MS1
Arsenic	µg/l	Grab	0.96	ICP-MS
Chromium	µg/l	Grab	20	ICP-OES
Copper	µg/l	Grab	20	ICP-OES
Cyanide	µg/l	Grab	5	Colorimetric
Flouride	µg/l	Grab	100	ISE
Lead	µg/l	Grab	20	ICP-OES
Nickel	µg/l	Grab	20	ICP-OES
Zinc	µg/l	Grab	20	ICP-OES
Boron	µg/l	Grab	20	ICP-OES
Cadmium	µg/l	Grab	20	ICP-OES
Mercury	µg/l	Grab	0.2	ICP-MS
Selenium	µg/l	Grab	0.74	ICP-MS
Barium	µg/l	Grab	20	ICP-OES

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Additional Comments



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### Monitoring Point

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#### Dangerous Substance Test Details

Atrazine 
Add New Row

Substance	Unit of Measure	Date (DD/MM/YY)		Value
Atrazine	µg/l	<input type="text"/>	= <input type="text"/>	<input type="text"/>
Dichloromethane	µg/l	17/11/09	< <input type="text"/>	1
Simazine	µg/l	<input type="text"/>	= <input type="text"/>	<input type="text"/>
Toluene	µg/l	17/11/09	< <input type="text"/>	0.28
Tributyltin	µg/l	<input type="text"/>	= <input type="text"/>	<input type="text"/>
Xylenes	µg/l	17/11/09	< <input type="text"/>	1
Arsenic	µg/l	17/11/09	< <input type="text"/>	0.17
Chromium	µg/l	17/11/09	< <input type="text"/>	20
Copper	µg/l	17/11/09	< <input type="text"/>	20
Cyanide	µg/l	17/11/09	< <input type="text"/>	5
Flouride	µg/l	17/11/09	< <input type="text"/>	30
Lead	µg/l	17/11/09	< <input type="text"/>	20
Nickel	µg/l	17/11/09	< <input type="text"/>	20
Zinc	µg/l	17/11/09	< <input type="text"/>	20
Boron	µg/l	17/11/09	< <input type="text"/>	20
Cadmium	µg/l	17/11/09	< <input type="text"/>	20
Mercury	µg/l	17/11/09	< <input type="text"/>	0.03
Selenium	µg/l	17/11/09	= <input type="text"/>	1.1
Barium	µg/l	17/11/09	= <input type="text"/>	42.5

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Additional Comments

Save
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