



Waste Water Discharge Licence Applications

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

Technical Support: Cora Systems
Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Discharge Point

Cork County Council > Carrignavar > SW-1

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

Discharge Point Details

Emission To:	<input type="text" value="Surface Water"/>	Flow rate of receiving waters (Dry Weather Flow) (m ³ /sec)	<input type="text" value="0.295308814"/>
Emission Point Reference Number	<input type="text" value="SW-1"/>	Flow rate of receiving waters (95% Flow) (m ³ /sec)	<input type="text" value="0.048363281"/>
Water Body	<input type="text" value="River Water Body"/>	Volume to be emitted (Normal / Day) (m ³)	<input type="text" value="127"/>
Local Authority Ref No.	<input type="text"/>	Volume to be emitted (Maximum / Day) (m ³)	<input type="text" value="764"/>
Source of Emission	<input type="text" value="Waste Water Treatment Plant"/>	Volume to be emitted (Maximum Rate / Hour) (m ³)	<input type="text" value="32"/>
Location	<input type="text" value="Carrignavar"/>	Volume to be emitted (Dry Weather Flow) (m ³ /sec)	<input type="text" value="0.09"/>
Easting (6 digits)	<input type="text" value="167464"/>	Periods of Emission (Minutes per Hour)	<input type="text" value="60"/>
Northing (6 digits)	<input type="text" value="81691"/>	Periods of Emission (Hours per Day)	<input type="text" value="24"/>
	<input checked="" type="checkbox"/> Verified using GPS	Periods of Emission (Days per Year)	<input type="text" value="365"/>
Name of receiving waters	<input type="text" value="Clognagashee River"/>	Frequency of Discharge (days / annum):	<input type="text" value="365"/>
River Basin District	<input type="text" value="South Western RBD"/>	Quantity of Waste Water Discharged (m ³ /annum):	<input type="text" value="139448"/>
Designation of receiving waters	<input (ref.="" f.1)"="" type="text" value="Moderate"/>		

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

All volumes 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.

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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
SW01	Primary	Cork County Council	River	Clohnagashee	Not Applicable	167464	081691

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Tel: 053 9160600

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Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Discharge Point

Cork County Council > Carrignavar > SW-1

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

Discharge Point Details

Emission To:	<input type="text" value="Surface Water"/>	Flow rate of receiving waters (Dry Weather Flow) (m ³ /sec)	<input type="text" value="0.295308814"/>
Emission Point Reference Number	<input type="text" value="SW-1"/>	Flow rate of receiving waters (95% Flow) (m ³ /sec)	<input type="text" value="0.048363281"/>
Water Body	<input type="text" value="River Water Body"/>	Volume to be emitted (Normal / Day) (m ³)	<input type="text" value="127"/>
Local Authority Ref No.	<input type="text"/>	Volume to be emitted (Maximum / Day) (m ³)	<input type="text" value="764"/>
Source of Emission	<input type="text" value="Waste Water Treatment Plant"/>	Volume to be emitted (Maximum Rate / Hour) (m ³)	<input type="text" value="32"/>
Location	<input type="text" value="Carrignavar"/>	Volume to be emitted (Dry Weather Flow) (m ³ /sec)	<input type="text" value="0.09"/>
Easting (6 digits)	<input type="text" value="167464"/>	Periods of Emission (Minutes per Hour)	<input type="text" value="60"/>
Northing (6 digits)	<input type="text" value="81691"/>	Periods of Emission (Hours per Day)	<input type="text" value="24"/>
	<input checked="" type="checkbox"/> Verified using GPS	Periods of Emission (Days per Year)	<input type="text" value="365"/>
Name of receiving waters	<input type="text" value="Clognagashee River"/>	Frequency of Discharge (days / annum):	<input type="text" value="365"/>
River Basin District	<input type="text" value="South Western RBD"/>	Quantity of Waste Water Discharged (m ³ /annum):	<input type="text" value="139448"/>
Designation of receiving waters	<input type="text" value="'Moderate' (ref. F.1)"/>		
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	<input type="text" value="All volumes 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."/>		



Waste Water Discharge Licence Applications

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

Technical Support: Cora Systems
Tel: 071 9616943

[Home](#)

[Applications](#)

[Reports](#)

[Help](#)

[Useful Links](#)

[Logout](#)

Monitoring Point

Cork County Council > Carrignavar > SW-1 > aSW-1u: Edit Monitoring Point

[Monitoring Point Details](#) [Monitoring Details](#) [Monitoring Test Details](#) [Dangerous Substar](#)

Monitoring Point Details

Monitoring Point

Monitoring Location

Easting (6 digits)

Northing (6 digits)

Verified Using GPS

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

Technical Support: Cora Systems
Tel: 071 9616943

[Home](#)

[Applications](#)

[Reports](#)

[Help](#)

[Useful Links](#)

[Logout](#)

Monitoring Point

Cork County Council > Carrignavar > SW-1 > aSW-1d: Edit Monitoring Point

[Monitoring Point Details](#) [Monitoring Details](#) [Monitoring Test Details](#) [Dangerous Substar](#)

Monitoring Point Details

Monitoring Point

Monitoring Location

Easting (6 digits)

Northing (6 digits)

Verified Using GPS

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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
aSW01a	Primary	M	167479	081735	Y
aSW01u	Primary	M	168359	081921	Y
aSW01d	Primary	M	168259	080490	Y

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

Technical Support: Cora Systems
Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Discharge Point

Cork County Council > Carrignavar > SW-1

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

Emissions to surface/ground waters

Substance	Unit of Measure	Sampling Method	As discharged Max daily average	kg/Day
pH	pH	<input type="text"/>	= <input type="text" value="7.4"/>	
Temperature	°C	<input type="text"/>	= <input type="text"/>	
Electrical Conductivity (@ 25 °C)	µS/cm	<input type="text"/>	= <input type="text" value="502"/>	
Suspended Solids	mg/l	<input type="text"/>	= <input type="text" value="68"/>	
Ammonia (as N)	mg/l	<input type="text"/>	= <input type="text" value="17.5"/>	
Biochemical Oxygen Demand	mg/l	<input type="text"/>	= <input type="text" value="51"/>	
Chemical Oxygen Demand	mg/l	<input type="text"/>	= <input type="text" value="133"/>	
Total Nitrogen (as N)	mg/l	<input type="text"/>	= <input type="text" value="27.78"/>	
Nitrite (as N)	mg/l	<input type="text"/>	= <input type="text" value="1.046"/>	
Nitrate (as N)	mg/l	<input type="text"/>	= <input type="text" value="0.794"/>	
Total Phosphorous (as P)	mg/l	<input type="text"/>	= <input type="text" value="2.51"/>	
OrthoPhosphate (as P)	mg/l	<input type="text"/>	= <input type="text" value="2.11"/>	
Sulphate (SO ₄)	mg/l	<input type="text"/>	= <input type="text" value="32.4"/>	
Phenols (Sum)	µg/l	<input type="text"/>	< <input type="text" value="0.1"/>	

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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.



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

Technical Support: Cora Systems
Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Discharge Point

[Cork County Council](#) > [Carrignavar](#) > [SW-1](#)

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

Dangerous Substance Emissions

Substance	Unit of Measure	Sampling Method	As discharged Max daily average	kg/Day
Atrazine	µg/l	<input type="text"/>	< <input type="text" value="0.01"/>	<input type="text"/>
Dichloromethane	µg/l	<input type="text"/>	< <input type="text" value="1"/>	<input type="text"/>
Simazine	µg/l	<input type="text"/>	< <input type="text" value="0.01"/>	<input type="text"/>
Toluene	µg/l	<input type="text"/>	< <input type="text" value="0.28"/>	<input type="text"/>
Tributyltin	µg/l	<input type="text"/>	= <input type="text"/>	<input type="text"/>
Xylenes	µg/l	<input type="text"/>	< <input type="text" value="0.73"/>	<input type="text"/>
Arsenic	µg/l	<input type="text"/>	< <input type="text" value="0.96"/>	<input type="text"/>
Chromium	µg/l	<input type="text"/>	< <input type="text" value="20"/>	<input type="text"/>
Copper	µg/l	<input type="text"/>	= <input type="text" value="61.9"/>	<input type="text"/>
Cyanide	µg/l	<input type="text"/>	< <input type="text" value="5"/>	<input type="text"/>
Flouride	µg/l	<input type="text"/>	= <input type="text" value="45"/>	<input type="text"/>
Lead	µg/l	<input type="text"/>	< <input type="text" value="20"/>	<input type="text"/>
Nickel	µg/l	<input type="text"/>	< <input type="text" value="20"/>	<input type="text"/>
Zinc	µg/l	<input type="text"/>	= <input type="text" value="33.1"/>	<input type="text"/>
Boron	µg/l	<input type="text"/>	= <input type="text" value="29"/>	<input type="text"/>
Cadmium	µg/l	<input type="text"/>	< <input type="text" value="20"/>	<input type="text"/>
Mercury	µg/l	<input type="text"/>	< <input type="text" value="0.03"/>	<input type="text"/>
Selenium	µg/l	<input type="text"/>	< <input type="text" value="0.74"/>	<input type="text"/>
Barium	µg/l	<input type="text"/>	= <input type="text" value="98.9"/>	<input type="text"/>

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

Technical Support: Cora Systems
Tel: 071 9616943

[Home](#)
[Applications](#)
[Reports](#)
[Help](#)
[Useful Links](#)
[Logout](#)

Monitoring Point

[Cork County Council](#) > [Carrignavar](#) > [SW-1](#) > [aSW-1u: Edit Monitoring Point](#)

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

Monitoring Details

Substance	Unit of Measure	Sampling Method	Limit of Quantification	Analysis Method / Technique
pH	pH	Grab	2	Electrochemical
Temperature	°C	Grab	0.5	Electrochemical
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	0.2	ISE
Hardness (as CaCO ₃)	mg/l	Grab	1	Titrimetric
Total Nitrogen (as N)	mg/l	Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	mg/l	Grab	0.1	Colorimetric
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 ₄)	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

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

Technical Support: Cora Systems
Tel: 071 9616943

[Home](#)

[Applications](#)

[Reports](#)

[Help](#)

[Useful Links](#)

[Logout](#)

Monitoring Point

[Cork County Council](#) > [Carrignavar](#) > [SW-1](#) > [aSW-1u: Edit Monitoring Point](#)

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

Monitoring Test Details

pH

Substance	Unit of Measure	Date (DD/MM/YY)		Value
pH	pH	16/09/09	=	7.7
Temperature	°C	01/01/09	=	0
Electrical Conductivity (@ 25 °C)	µS/cm	16/09/09	=	212
Suspended Solids	mg/l	16/09/09	<	2.5
Ammonia (as N)	mg/l	16/09/09	<	0.1
Biochemical Oxygen Demand	mg/l	16/09/09	=	2
Chemical Oxygen Demand	mg/l	16/09/09	<	21
Dissolved Oxygen	mg/l	01/01/09	=	0
Hardness (as CaCO ₃)	mg/l	01/01/09	=	0
Total Nitrogen (as N)	mg/l	16/09/09	=	5.78
Nitrite (as N)	mg/l	16/09/09	=	0.299
Nitrate (as N)	mg/l	16/09/09	=	5.196
Total Phosphorous (as P)	mg/l	16/09/09	<	0.05
OrthoPhosphate (as P)	mg/l	16/09/09	<	0.05
Sulphate (SO ₄)	mg/l	16/09/09	<	30
Phenols (Sum)	µg/l	01/01/09	=	0

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Waste Water Discharge Licence Applications

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

Technical Support: Cora Systems
Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Monitoring Point

Cork County Council > Carrignavar > SW-1 > aSW-1u: Edit Monitoring Point

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

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



Waste Water Discharge Licence Applications

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

Technical Support: Cora Systems
Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Monitoring Point

Cork County Council > Carrignavar > SW-1 > aSW-1u: Edit Monitoring Point

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

Dangerous Substance Test Details

Substance	Unit of Measure	Date (DD/MM/YY)	Value
Atrazine Add New Row			
Atrazine	µg/l	01/01/09	= 0
Dichloromethane	µg/l	01/01/09	= 0
Simazine	µg/l	01/01/09	= 0
Toluene	µg/l	01/01/09	= 0
Tributyltin	µg/l	01/01/09	= 0
Xylenes	µg/l	01/01/09	= 0
Arsenic	µg/l	01/01/09	= 0
Chromium	µg/l	16/09/09	< 20
Copper	µg/l	16/09/09	< 20
Cyanide	µg/l	01/01/09	= 0
Flouride	µg/l	16/09/09	< 31
Lead	µg/l	16/09/09	< 20
Nickel	µg/l	16/09/09	< 20
Zinc	µg/l	16/09/09	< 20
Boron	µg/l	16/09/09	< 20
Cadmium	µg/l	16/09/09	< 20
Mercury	µg/l	01/01/09	= 0
Selenium	µg/l	01/01/09	= 0
Barium	µg/l	16/09/09	= 36.8

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Additional Comments: default of 01/01/09 and 0 where results are not available

Save
Cancel



Waste Water Discharge Licence Applications

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

Technical Support: Cora Systems
Tel: 071 9616943

[Home](#)

[Applications](#)

[Reports](#)

[Help](#)

[Useful Links](#)

[Logout](#)

Monitoring Point

[Cork County Council](#) > [Carrignavar](#) > [SW-1](#) > [aSW-1d: Edit Monitoring Point](#)

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

Monitoring Details

Substance	Unit of Measure	Sampling Method	Limit of Quantification	Analysis Method / Technique
pH	pH	Grab	2	Electrochemical
Temperature	°C	Grab	0.5	Electrochemical
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	0.2	ISE
Hardness (as CaCO ₃)	mg/l	Grab	1	Titrimetric
Total Nitrogen (as N)	mg/l	Grab	0.05	Digestion & Colorimetric
Nitrite (as N)	mg/l	Grab	0.1	Colorimetric
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 ₄)	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

Save

Cancel



Waste Water Discharge Licence Applications

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

Technical Support: Cora Systems
Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Monitoring Point

Cork County Council > Carrignavar > SW-1 > aSW-1d: Edit Monitoring Point

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

Monitoring Test Details

Substance	Unit of Measure	Date (DD/MM/YY)		Value
pH Add New Row				
pH	pH	16/09/09	=	7.7
Temperature	°C	01/01/09	=	0
Electrical Conductivity (@ 25 °C)	µS/cm	16/09/09	=	193
Suspended Solids	mg/l	16/09/09	=	15
Ammonia (as N)	mg/l	16/09/09	<	0.1
Biochemical Oxygen Demand	mg/l	16/09/09	=	3
Chemical Oxygen Demand	mg/l	16/09/09	<	21
Dissolved Oxygen	mg/l	01/01/09	=	0
Hardness (as CaCO ₃)	mg/l	01/01/09	=	0
Total Nitrogen (as N)	mg/l	16/09/09	=	5.1
Nitrite (as N)	mg/l	16/09/09	=	0.249
Nitrate (as N)	mg/l	16/09/09	=	4.666
Total Phosphorous (as P)	mg/l	16/09/09	<	0.05
OrthoPhosphate (as P)	mg/l	16/09/09	<	0.05
Sulphate (SO ₄)	mg/l	16/09/09	<	30
Phenols (Sum)	µg/l	16/09/09	<	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.

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Waste Water Discharge Licence Applications

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

Technical Support: Cora Systems
Tel: 071 9616943

- [Home](#)
- [Applications](#)
- [Reports](#)
- [Help](#)
- [Useful Links](#)
- [Logout](#)

Monitoring Point

Cork County Council > Carrignavar > SW-1 > aSW-1d: Edit Monitoring Point

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

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	GS-MS1
Simazine	µg/l	Grab	0.01	HPLC
Toluene	µg/l	Grab	0.02	GS-MS1
Tributyltin	µg/l	Grab	0.02	GS-MS1
Xylenes	µg/l	Grab	1	GS-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



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

Cork County Council > Carrignavar > SW-1 > aSW-1d: Edit Monitoring Point

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

Atrazine		Add New Row		
Substance	Unit of Measure	Date (DD/MM/YY)		Value
Atrazine	µg/l	16/09/09	<	0.01
Dichloromethane	µg/l	16/09/09	<	1
Simazine	µg/l	16/09/09	<	0.01
Toluene	µg/l	16/09/09	<	0.28
Tributyltin	µg/l	01/01/09	=	0
Xylenes	µg/l	16/09/09	<	1
Arsenic	µg/l	16/09/09	<	0.96
Chromium	µg/l	16/09/09	<	20
Copper	µg/l	16/09/09	<	20
Cyanide	µg/l	16/09/09	<	5
Flouride	µg/l	16/09/09	<	61
Lead	µg/l	16/09/09	<	20
Nickel	µg/l	16/09/09	<	20
Zinc	µg/l	16/09/09	<	20
Boron	µg/l	16/09/09	<	20
Cadmium	µg/l	16/09/09	<	20
Mercury	µg/l	16/09/09	<	0.03
Selenium	µg/l	16/09/09	<	0.74
Barium	µg/l	16/09/09	<	20

Additional Comments: TBT testing not required