



# Comhairle Contae Mhuineacháin Monaghan County Council

Acmhainní Daonna  
Human Resource  
047 30586

Airgeadas  
Finance  
047 30589

Na Bóithre  
Roads  
047 30597

Clár na dToghthóirí  
Register of Electors  
047 30547

Comhshaoil  
Environment  
047 30593

Deontais Ardoideachais  
Higher Education Grants  
047 30550

Na hEalaíona  
Arts  
047 71114

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County Library  
047 51143

Mótarcháin  
Motor Tax  
047 81175

Músaem an Chontae  
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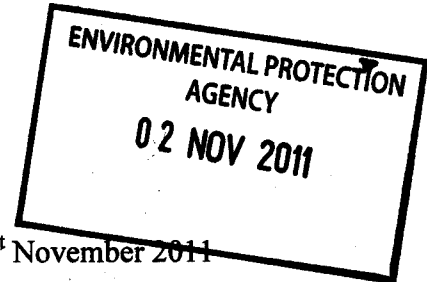
Pleanáil  
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047 30532

Pobal & Fiontar  
Community & Enterprise  
047 30500

Rialú Dóiteáin/Foirgnimh  
Fire/Building Control  
047 30521

Seirbhísí Uisce  
Water Services  
047 30504

Administration, Environmental Licensing Programme,  
Office of Climate, Licence and Resource Use,  
Environmental Protection Agency,  
Headquarters,  
P.O. Box 3000,  
Johnstown Castle Estate,  
Co. Wexford.



1<sup>st</sup> November 2011

**Re: DO494-01 & DO435-01** – Scotstown & Ballinode Agglomerations,  
revisions to Phosphate results submitted in initial discharge licence  
application.

Dear Sir/Madam,

I refer to the above referenced applications for Waste Water Discharge  
Licences for Scotstown and Ballinode agglomerations.

Clarification regarding monitoring results for Total Phosphorus, Ortho  
Phosphorus and Molybdate Reactive Phosphorus (MRP) for the two  
agglomerations submitted in the initial discharge licence application is as  
follows:

- All results tabulated for Total Phosphorus - influent, effluent,  
upstream and downstream are correct for both agglomerations.
- Ballinode WwTP – there are no Ortho P results tabulated until  
9/04/'09, this result is correct for this date. The result tabulated for  
Ortho P in table D.1 (i) (b) for Ortho P =23 is incorrect and therefore  
should be disregarded.
- Scotstown WwTP – the results tabulated for Ortho P with the  
exception of the result dated 9/04/'09 are incorrect and should be  
disregarded.



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•For both agglomerations, the results tabulated for MRP are not from laboratory analysis, they have been estimated using the formula  
Total P = 3.07 \* MRP due to molecular weight.

Attachments include laboratory certificates from Euro Environmental Services confirming the aforementioned monitoring results where applicable. Also included are revised tables D1 (iv) influent data and attachment E4 tables 1,2 and 3 for both agglomerations.  
Tables D1.(i)(b), F.1(i)(a)SW-1u and F.1(i)(a)SW-1d cannot be revised as they were submitted online and cannot be accessed.

As per your requirements the following are enclosed:

- 1 No original hard copy of the submission
- 1 No copy of the submission
- 1 No Electronic copy on CD-ROM.

If you require any further assistance, please do not hesitate to contact us.

Yours Sincerely,

Mark Johnston,  
Senior Executive Engineer,  
Water Services Section,  
Monaghan County Council.  
047 30513

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TABLE 1- ATTACHMENT E4 Rev 1 (Oct 2011)

Ballinodde Effluent

Effluent	26.05.2008	C	22	60	24	7.50	4.062	0.07	12.88	0.137	13.02	1.12	877	7.3	-0.1	70.47	10.2
Effluent	27.08.2008	C	<2	80	73	3.57	0.91	0.24	1.16	18.35	11.30						
Effluent	26.11.2008	C	9	27	13	2.80	4.77	14.14	0.91	0.24							
Effluent	09.04.2009	C	3	51	20	4.77	4.062	14.14	0.91	0.24							

Note 1: The estimated discharge Molybdate Reactive Median Phosphate (MRP) concentration was derived using Total P = 3.07 \* MRP due to molecular weight

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<b>Customer</b>	Gearoid McCarthy Monaghan Co. Co. County Offices The Glen Co Monaghan	<b>Lab Report Ref. No.</b>	0810/067/07
		<b>Date of Receipt</b>	09/04/2009
		<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
<b>Customer PO</b>		<b>Date of Report</b>	28/04/2009
<b>Customer Ref</b>	Ballinode WWTP - Outlet 09/04/09	<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.07	mg/L as N	
Arsenic	177	ICPMS	<0.96	ug/L	
Atrazine	191	HPLC	<0.01	ug/L	
Barium	177	ICPMS	21.1	ug/L	
BOD	113	Electrometry	3	mg/L	
Boron	177	ICPMS	231.0	ug/L	
Cadmium	177	ICPMS	<0.09	ug/L	
Chromium	177	ICPMS	<0.93	ug/L	
COD	107	Colorimetry	51	mg/L	UKAS
Conductivity	112	Electrometry	877.0	µscm -1@25C	UKAS
Copper	177	ICPMS	10	ug/L	
Cyanide	138	Colorimetry	<5	ug/L	
Dichloromethane	154	GCMS	<1	ug/L	
Fluoride	115	Colorimetry	0.45	mg/L	
Lead	177	ICPMS	0.4	ug/L	
Mercury	178	ICPMS	<0.2	ug/L	
Nickel	177	ICPMS	0.9	ug/L	
Nitrate	103	Colorimetry	12.88	mg/L as N	
Nitrite	118	Colorimetry	0.137	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	1.12	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	13.02	mg/L as N	
Nitrogen (Total)	0	Calculation	14.14	mg/L as N	
pH	110	Electrometry	7.3	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	4.062	mg/L as P	UKAS

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

Date: 28/04/09

Acc. : Accredited Parameters by ISO 17025:2005

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<b>Customer Ref</b>	Ballinode WWTP - Outlet 09/04/09	<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phosphate (Total)	166	Digestion/ Colorimetry	4.767	mg/L as P	UKAS
Selenium	177	ICPMS	3	ug/L	
Simazine	191	HPLC	<0.01	ug/L	
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	20	mg/L	
Sulphate	119	Colorimetry	70.47	mg/L as SO4	UKAS
Temperature	715	DO Meter	10.2	degrees C	
Toluene	179	GCMS	<0.28	ug/L	
Tributyltin*	0	GCMS	<0.02	ug/L as Sn	
Volatile Organic Compounds	154	GCMS	<1	ug/L	
Xylene	179	GCMS	<1	ug/L	
Zinc	177	ICPMS	29.9	ug/L	

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Donna Heslin - Laboratory Manager

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<b>Customer PO</b>		<b>Date of Receipt</b>	09/04/2009
<b>Customer Ref</b>	Ballinode WWTP - Upstream 09/04/09	<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	28/04/2009
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.08	mg/L as N	
Arsenic	177	ICPMS	1.7	ug/L	
Atrazine	191	HPLC	<0.01	ug/L	
Barium	177	ICPMS	38.4	ug/L	
BOD	113	Electrometry	<2	mg/L	
Boron	177	ICPMS	99.4	ug/L	
Cadmium	177	ICPMS	1	ug/L	
Chromium	177	ICPMS	<0.93	ug/L	
COD	107	Colorimetry	36	mg/L	UKAS
Conductivity	112	Electrometry	166.0 uscm <sup>-1</sup> @25C		UKAS
Copper	177	ICPMS	3	ug/L	
Cyanide	138	Colorimetry	<5	ug/L	
Dichloromethane	154	GCMS	<1	ug/L	
Fluoride	115	Colorimetry	0.18	mg/L	
Lead	177	ICPMS	1.8	ug/L	
Mercury	178	ICPMS	<0.2	ug/L	
Nickel	177	ICPMS	2.7	ug/L	
Nitrate	103	Colorimetry	0.31	mg/L as N	
Nitrite	118	Colorimetry	0.006	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	<1.00	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	0.31	mg/L as N	
Nitrogen (Total)	0	Calculation	<1.00	mg/L as N	
pH	110	Electrometry	7.5	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	0.055	mg/L as P	UKAS

Signed : Donna Heslin

Donna Heslin - Laboratory Manager

Date : 28/04/09

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		<b>Sample Type</b>	Trade Effluent

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Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phosphate (Total)	166	Digestion/ Colorimetry	0.123	mg/L as P	UKAS
Selenium	177	ICPMS	3	ug/L	
Simazine	191	HPLC	<0.01	ug/L	
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	10	mg/L	
Sulphate	119	Colorimetry	2.39	mg/L as SO4	UKAS
Temperature	715	DO Meter	10.0	degrees C	
Toluene	179	GCMS	<0.28	ug/L	
Tributyltin*	0	GCMS	<0.02	ug/L as Sn	
Volatile Organic Compounds	154	GCMS	<1	ug/L	
Xylene	179	GCMS	<1	ug/L	
Zinc	177	ICPMS	<4.6	ug/L	

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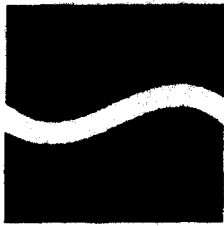
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Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.03	mg/L as N	
Arsenic	177	ICPMS	<0.96	ug/L	
Atrazine	191	HPLC	<0.01	ug/L	
Barium	177	ICPMS	30.9	ug/L	
BOD	113	Electrometry	<2	mg/L	
Boron	177	ICPMS	160.8	ug/L	
Cadmium	177	ICPMS	<0.09	ug/L	
Chromium	177	ICPMS	<0.93	ug/L	
COD	107	Colorimetry	39	mg/L	UKAS
Conductivity	112	Electrometry	172.0	µscm -1@25C	UKAS
Copper	177	ICPMS	<0.2	ug/L	
Cyanide	138	Colorimetry	<5	ug/L	
Dichloromethane	154	GCMS	<1	ug/L	
Fluoride	115	Colorimetry	0.18	mg/L	
Lead	177	ICPMS	<0.38	ug/L	
Mercury	178	ICPMS	<0.2	ug/L	
Nickel	177	ICPMS	1.1	ug/L	
Nitrate	103	Colorimetry	0.27	mg/L as N	
Nitrite	118	Colorimetry	0.003	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	<1.00	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	0.28	mg/L as N	
Nitrogen (Total)	0	Calculation	<1.00	mg/L as N	
pH	110	Electrometry	7.6	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	0.019	mg/L as P	UKAS

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

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		<b>Sample Type</b>	Trade Effluent

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Test Parameter	SOP	Analytical Technique	Result	Units	Acc:
Phosphate (Total)	166	Digestion/ Colorimetry	0.105	mg/L as P	UKAS
Selenium	177	ICPMS	1	ug/L	
Simazine	191	HPLC	<0.01	ug/L	
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	5	mg/L	
Sulphate	119	Colorimetry	2.23	mg/L as SO4	UKAS
Temperature	715	DO Meter	10.2	degrees C	
Toluene	179	GCMS	<0.28	ug/L	
Tributyltin*	0	GCMS	<0.02	ug/L as Sn	
Volatile Organic Compounds	154	GCMS	<1	ug/L	
Xylene	179	GCMS	<1	ug/L	
Zinc	177	ICPMS	<4.6	ug/L	

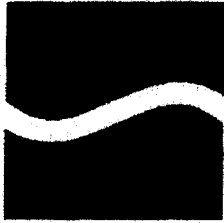
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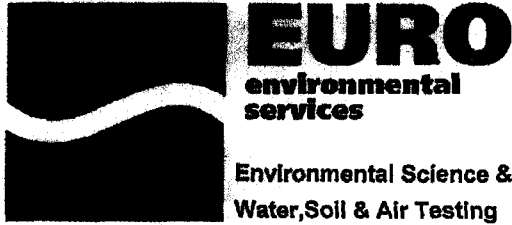
Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	42.49	mg/L as N	UKAS
BOD	113	Electrometry	240	mg/L	
COD	107	Colorimetry	737	mg/L	UKAS
Conductivity	112	Electrometry	1250.0	µscm -1@25C	UKAS
Nitrate	103	Colorimetry	0.35	mg/L as N	
Nitrite	118	Colorimetry	0.068	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	43.68	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	0.42	mg/L as N	
Nitrogen (Total)	0	Calculation	44.10	mg/L as N	
pH	110	Electrometry	7.5	pH Units	UKAS
Phenols (Total)	223	GCMS	29.62	ug/L	
Phosphate (Ortho)	117	Colorimetry	7.104	mg/L as P	UKAS
Phosphate (Total)	166	Digestion/ Colorimetry	9.478	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	234	mg/L	
Sulphate	119	Colorimetry	128.50	mg/L as SO4	UKAS
Temperature	715	DO Meter	12.7	degrees C	

Signed: Donna Heslin  
Donna Heslin - Laboratory Manager

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Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	42.49	mg/L as N	UKAS
BOD	113	Electrometry	240	mg/L	
COD	107	Colorimetry	737	mg/L	UKAS
Conductivity	112	Electrometry	1250.0	µscm -1@25C	UKAS
Nitrate	103	Colorimetry	0.35	mg/L as N	
Nitrite	118	Colorimetry	0.068	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation Titrim	43.68	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	0.42	mg/L as N	
Nitrogen (Total)	0	Calculation	44.10	mg/L as N	
pH	110	Electrometry	7.5	pH Units	UKAS
Phenols (Total)	223	GCMS	29.62	ug/L	
Phosphate (Ortho)	117	Colorimetry	7.104	mg/L as P	UKAS
Phosphate (Total)	166	Digestion/ Colorimetry	9.478	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	234	mg/L	
Sulphate	119	Colorimetry	128.50	mg/L as SO4	UKAS
Temperature	715	DO Meter	12.7	degrees C	

Signed : Donna Heslin

**Donna Heslin - Laboratory Manager**

Date : 28/04/09

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<b>Customer</b>	Eugene Farmer Monaghan Co Co Monaghan WWTP Monaghan Co Co The Glen Monaghan	<b>Lab Report Ref. No.</b>	0810/054/01
<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Ballinode Raw 28/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	36.24	mg/L as N	UKAS
BOD	113	Electrometry	215	mg/L	UKAS
COD	107	Colorimetry	1290	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	<0.03	mg/L as N	
Phosphate (Total)	166	Digestion/ Colorimetry	4.273	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	182	mg/L	

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<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Ballinode Final 26/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.24	mg/L as N	UKAS
BOD	113	Electrometry	9	mg/L	UKAS
COD	107	Colorimetry	27	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	10.80	mg/L as N	
Phosphate (Total)	166	Digestion/ Colorimetry	2.848	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	13	mg/L	

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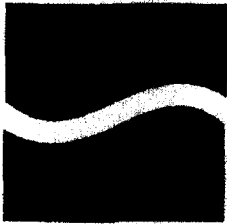
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<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Ballinode U.S 26/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	<0.06	mg/L as N	
BOD	113	Electrometry	<2	mg/L	
COD	107	Colorimetry	32	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	0.47	mg/L as N	
Phosphate (Total)	166	Digestion/ Colorimetry	0.085	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	3	mg/L	

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<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Ballinode D.S 26/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	<0.08	mg/L as N	
BOD	113	Electrometry	<2	mg/L	
COD	107	Colorimetry	27	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	0.58	mg/L as N	
Phosphate (Total)	166	Digestion/ Colorimetry	0.051	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	4	mg/L	

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<b>Customer PO</b>		<b>Date of Receipt</b>	09/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Outlet 09/04/09	<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	28/04/2009
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.18	mg/L as N	UKAS
Arsenic	177	ICPMS	<0.96	ug/L	
Atrazine	191	HPLC	<0.01	ug/L	
Barium	177	ICPMS	21.9	ug/L	
BOD	113	Electrometry	<2	mg/L	
Boron	177	ICPMS	<4.2	ug/L	
Cadmium	177	ICPMS	<0.09	ug/L	
Chromium	177	ICPMS	<0.93	ug/L	
COD	107	Colorimetry	24	mg/L	UKAS
Conductivity	112	Electrometry	633.0 uscm -1 @25C		UKAS
Copper	177	ICPMS	4	ug/L	
Cyanide	138	Colorimetry	<5	ug/L	
Dichloromethane	154	GCMS	<1	ug/L	
Fluoride	115	Colorimetry	0.39	mg/L	
Lead	177	ICPMS	<0.38	ug/L	
Mercury	178	ICPMS	<0.2	ug/L	
Nickel	177	ICPMS	<0.47	ug/L	
Nitrate	103	Colorimetry	9.81	mg/L as N	
Nitrite	118	Colorimetry	0.197	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	1.12	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	10.01	mg/L as N	
Nitrogen (Total)	0	Calculation	11.13	mg/L as N	
pH	110	Electrometry	8.0	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	2.390	mg/L as P	UKAS

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Donna Heslin - Laboratory Manager

Date : 28/04/09

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		<b>Date of Receipt</b>	09/04/2009
		<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
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<b>Customer PO</b>		<b>Date of Report</b>	28/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Outlet 09/04/09	<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phosphate (Total)	166	Digestion/ Colorimetry	2.534	mg/L as P	UKAS
Selenium	177	ICPMS	1	ug/L	
Simazine	191	HPLC	<0.01	ug/L	
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	<3	mg/L	
Sulphate	119	Colorimetry	54.06	mg/L as SO4	UKAS
Temperature	715	DO Meter	10.9	degrees C	
Toluene	179	GCMS	<0.28	ug/L	
Tributyltin*	0	GCMS	<0.02	ug/L as Sn	
Volatile Organic Compounds	154	GCMS	1.488	ug/L	
Xylene	179	GCMS	<1	ug/L	
Zinc	177	ICPMS	13.1	ug/L	

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		<b>Date of Receipt</b>	09/04/2009
		<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
<b>Customer PO</b>		<b>Date of Report</b>	28/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Upstream 09/04/09	<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.02	mg/L as N	
Arsenic	177	ICPMS	<0.96	ug/L	
Atrazine	191	HPLC	<0.01	ug/L	
Barium	177	ICPMS	29.9	ug/L	
BOD	113	Electrometry	<2	mg/L	
Boron	177	ICPMS	<4.2	ug/L	
Cadmium	177	ICPMS	<0.09	ug/L	
Chromium	177	ICPMS	<0.93	ug/L	
COD	107	Colorimetry	43	mg/L	UKAS
Conductivity	112	Electrometry	141.0	µscm <sup>-1</sup> @25C	UKAS
Copper	177	ICPMS	<0.2	ug/L	
Cyanide	138	Colorimetry	<5	ug/L	
Dichloromethane	154	GCMS	<1	ug/L	
Fluoride	115	Colorimetry	0.19	mg/L	
Lead	177	ICPMS	<0.38	ug/L	
Mercury	178	ICPMS	<0.2	ug/L	
Nickel	177	ICPMS	1.2	ug/L	
Nitrate	103	Colorimetry	0.31	mg/L as N	
Nitrite	118	Colorimetry	0.004	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	<1.00	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	0.31	mg/L as N	
Nitrogen (Total)	0	Calculation	<1.00	mg/L as N	
pH	110	Electrometry	7.7	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	0.031	mg/L as P	UKAS

Signed: Donna Heslin

Donna Heslin - Laboratory Manager

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<b>Customer PO</b>		<b>Date of Receipt</b>	09/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Upstream 09/04/09	<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	28/04/2009
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phosphate (Total)	166	Digestion/ Colorimetry	0.076	mg/L as P	UKAS
Selenium	177	ICPMS	<0.74	ug/L	
Simazine	191	HPLC	<0.01	ug/L	
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	17	mg/L	
Sulphate	119	Colorimetry	1.55	mg/L as SO4	
Temperature	715	DO Meter	11.9	degrees C	
Toluene	179	GCMS	<0.28	ug/L	
Tributyltin*	0	GCMS	<0.02	ug/L as Sn	
Volatile Organic Compounds	154	GCMS	<1	ug/L	
Xylene	179	GCMS	<1	ug/L	
Zinc	177	ICPMS	<4.6	ug/L	

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<b>Customer PO</b>		<b>Date of Receipt</b>	09/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Downstream 09/04/09	<b>Date Testing Commenced</b>	09/04/2009
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		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	28/04/2009
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.02	mg/L as N	
Arsenic	177	ICPMS	<0.96	ug/L	
Atrazine	191	HPLC	<0.01	ug/L	
Barium	177	ICPMS	26.8	ug/L	
BOD	113	Electrometry	<2	mg/L	
Boron	177	ICPMS	<4.2	ug/L	
Cadmium	177	ICPMS	<0.09	ug/L	
Chromium	177	ICPMS	<0.93	ug/L	
COD	107	Colorimetry	40	mg/L	UKAS
Conductivity	112	Electrometry	153.0 uscm -1 @25C		UKAS
Copper	177	ICPMS	<0.2	ug/L	
Cyanide	138	Colorimetry	<5	ug/L	
Dichloromethane	154	GCMS	<1	ug/L	
Fluoride	115	Colorimetry	0.18	mg/L	
Lead	177	ICPMS	<0.38	ug/L	
Mercury	178	ICPMS	<0.2	ug/L	
Nickel	177	ICPMS	0.5	ug/L	
Nitrate	103	Colorimetry	0.28	mg/L as N	
Nitrite	118	Colorimetry	0.005	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	<1.00	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	0.29	mg/L as N	
Nitrogen (Total)	0	Calculation	<1.00	mg/L as N	
pH	110	Electrometry	7.6	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	0.021	mg/L as P	UKAS

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Donna Heslin - Laboratory Manager

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		<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
<b>Customer PO</b>		<b>Date of Report</b>	28/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Downstream 09/04/09	<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Phosphate (Total)	166	Digestion/ Colorimetry	0.075	mg/L as P	UKAS
Selenium	177	ICPMS	1	ug/L	
Simazine	191	HPLC	<0.01	ug/L	
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	5	mg/L	
Sulphate	119	Colorimetry	1.49	mg/L as SO4	
Temperature	715	DO Meter	10.5	degrees C	
Toluene	179	GCMS	<0.28	ug/L	
Tributyltin*	0	GCMS	<0.02	ug/L as Sn	
Volatile Organic Compounds	154	GCMS	<1	ug/L	
Xylene	179	GCMS	<1	ug/L	
Zinc	177	ICPMS	<4.6	ug/L	

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<b>Customer PO</b>		<b>Date of Receipt</b>	09/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Inlet 09/04/09	<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	28/04/2009
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	5.59	mg/L as N	UKAS
BOD	113	Electrometry	9	mg/L	
COD	107	Colorimetry	38	mg/L	UKAS
Conductivity	112	Electrometry	751.0	µscm <sup>-1</sup> @25°C	UKAS
Nitrate	103	Colorimetry	0.63	mg/L as N	
Nitrite	118	Colorimetry	1.470	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	6.72	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	2.10	mg/L as N	UKAS
Nitrogen (Total)	0	Calculation	8.82	mg/L as N	
pH	110	Electrometry	7.6	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	2.667	mg/L as P	UKAS
Phosphate (Total)	166	Digestion/ Colorimetry	2.793	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	17	mg/L	
Sulphate	119	Colorimetry	67.99	mg/L as SO <sub>4</sub>	UKAS
Temperature	715	DO Meter	9.7	degrees C	

Signed : Donna Heslin

Donna Heslin - Laboratory Manager

Date : 28/04/09

Acc. : Accredited Parameters by ISO 17025:2005

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<b>Customer</b>	Gearoid McCarthy Monaghan Co. Co. County Offices The Glen Co Monaghan	<b>Lab Report Ref. No.</b>	0810/067/11
<b>Customer PO</b>		<b>Date of Receipt</b>	09/04/2009
<b>Customer Ref</b>	Scotstown WWTP - Inlet 09/04/09	<b>Date Testing Commenced</b>	09/04/2009
		<b>Received or Collected</b>	Collected by Euro
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	21/04/2009
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	5.59	mg/L as N	UKAS
BOD	113	Electrometry	9	mg/L	UKAS
COD	107	Colorimetry	38	mg/L	UKAS
Conductivity	112	Electrometry	751.0	µscm -1@25C	UKAS
Nitrate	103	Colorimetry	0.63	mg/L as N	
Nitrite	118	Colorimetry	1.470	mg/L as N	
Nitrogen (Total Kjeldahl)	104	Digestion/ Distillation/ Titrim	6.72	mg/L as N	
Nitrogen (Total Oxidised)	151	Colorimetry	2.10	mg/L as N	UKAS
Nitrogen (Total)	0	Calculation	8.82	mg/L as N	
pH	110	Electrometry	7.6	pH Units	UKAS
Phenols (Total)	223	GCMS	<0.10	ug/L	
Phosphate (Ortho)	117	Colorimetry	2.667	mg/L as P	UKAS
Phosphate (Total)	166	Digestion/ Colorimetry	2.793	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	17	mg/L	
Sulphate	119	Colorimetry	67.99	mg/L as SO4	UKAS
Temperature	715	DO Meter	9.7	degrees C	

Signed : Donna Heslin

**Donna Heslin - Laboratory Manager**

Date : 21/04/09

Acc. : Accredited Parameters by ISO 17025:2005

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<b>Customer</b>	Eugene Farmer Monaghan Co Co Monaghan WWTP Monaghan Co Co The Glen Monaghan	<b>Lab Report Ref. No.</b>	0810/054/05
<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Scotstown Raw 26/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	39.39	mg/L as N	UKAS
BOD	113	Electrometry	540	mg/L	UKAS
COD	107	Colorimetry	1720	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	0.11	mg/L as N	
Phosphate (Total)	166	Digestion/ Colorimetry	2.198	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	615	mg/L	

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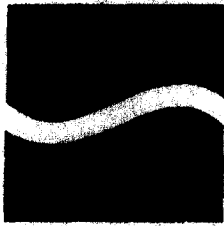
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Donna Heslin - Laboratory Manager

Date : 08/12/08

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<b>Customer</b>	Eugene Farmer Monaghan Co Co Monaghan WWTP Monaghan Co Co The Glen Monaghan	<b>Lab Report Ref. No.</b>	0810/054/06
<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Scotstown Final 26/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	0.21	mg/L as N	UKAS
BOD	113	Electrometry	<2	mg/L	
COD	107	Colorimetry	17	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	7.94	mg/L as N	UKAS
Phosphate (Total)	166	Digestion/ Colorimetry	1.734	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	3	mg/L	

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**Donna Heslin - Laboratory Manager**

Date :                     08/12/08                    

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<b>Customer</b>	Eugene Farmer Monaghan Co Co Monaghan WWTP Monaghan Co Co The Glen Monaghan	<b>Lab Report Ref. No.</b>	0810/054/07
<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Scotstown U.S 26/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	<0.06	mg/L as N	
BOD	113	Electrometry	<2	mg/L	
COD	107	Colorimetry	58	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	0.36	mg/L as N	
Phosphate (Total)	166	Digestion/ Colorimetry	0.051	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	<3	mg/L	

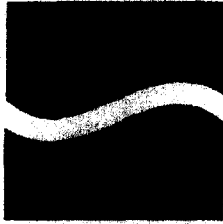
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<b>Customer</b>	Eugene Farmer Monaghan Co Co Monaghan WWTP Monaghan Co Co The Glen Monaghan	<b>Lab Report Ref. No.</b>	0810/054/08
<b>Customer PO</b>		<b>Date of Receipt</b>	29/11/2008
<b>Customer Ref</b>	Scotstown D.S 26/11/08	<b>Date Testing Commenced</b>	01/12/2008
		<b>Received or Collected</b>	Courier: Interlink
		<b>Condition on Receipt</b>	Acceptable
		<b>Date of Report</b>	08/12/2008
		<b>Sample Type</b>	Trade Effluent

## CERTIFICATE OF ANALYSIS

Test Parameter	SOP	Analytical Technique	Result	Units	Acc.
Ammonia	114	Colorimetry	<0.06	mg/L as N	
BOD	113	Electrometry	<2	mg/L	
COD	107	Colorimetry	30	mg/L	UKAS
Nitrogen (Total Oxidised)	151	Colorimetry	0.46	mg/L as N	
Phosphate (Total)	166	Digestion/ Colorimetry	0.045	mg/L as P	UKAS
Solids (Total Suspended)	106	Filtration/ Drying @ 104C	<3	mg/L	

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