



City Analysts Limited, Pigeon House Road, Ringsend, Dublin 4.

Tel: (01) 613 6003 Fax: (01) 613 6008

Email:

reports@cityanalysts.ie

www.cityanalysts.ie

Customer

Pascal Rooney Monaghan County Council Water Services Monaghan

Certificate Of Analysis

Job Number: 16-19219

Issue Number:

Report Date: 15 August 2016

Site: Not Applicable
PO Number: Not Supplied

Date Samples Received: 14/07/2016

Please find attached the results for the samples received at our laboratory on 14/07/2016.

Should you have any queries regarding the report or require any further services, we would be happy to discuss your requirements. For additional information about the company please log-on to our website at the above address.

Thank you for choosing City Analysts Limited. We look forward to assisting you again.

Authorised By: Authorised Date: 15 August 2016

Caitlin Quinn

Deputy Quality Manager

Notes:

Results relate only to the items tested.

Information on methods of analysis and performance characteristics is available on request. Any opinions or interpretations indicated are outside the scope of our INAB accreditation.

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Site: Not Applicable

Date of Sampling: 14/07/2016 Sample Description: 265475-344124 Truagh GWS Sample Type: Treated Date Sample Received: 14/07/2016

325807 Lab Reference Number:

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
S/S1016#	20/07/2016	1,2-Dichloroethane	< 0.50	ug/l	<= 3.00
D/D3001#	20/07/2016	Aluminium, Total	9.57	ug/l	<= 200.00
D/D3000#	19/07/2016	Ammonia as NH4	< 0.013	mg/l	<= 0.300
*U	-	Antimony	< 0.33	ug/l	<= 5.00
*U	-	Arsenic	0.20	ug/l	<= 10.00
S/S#	20/07/2016	Benzene	< 0.50	ug/l	<= 1.00
D/D3001#	19/07/2016	Boron	< 50.00	ug/l	<= 1000.00
U	-	Bromate as BrO3	< 0.30	ug/l	<= 10.00
U	-	Metaldehyde	< 0.01	ug/l	-
D/D3001#	20/07/2016	Cadmium	0.30	ug/l	<= 5.00
	21/07/2016	Chlorine, Free Onsite	0.090	mg/l	-
D/D3000#	19/07/2016	Chloride	27.577	mg/l	<= 250.000
D/D3001#	20/07/2016	Chromium	0.91	ug/l	<= 50.00
D/D3010#	19/07/2016	Colour True	< 5.00	Hazen	NAC & ATC
D/D3011#	14/07/2016	Conductivity @ 20 ℃	164.0	uS/cm @20℃	<= 2500.0
D/D3001#	19/07/2016	Copper	297.46	ug/l	<= 2000.00
*U	-	Cyanide, Total	< 1.70	ug/l	<= 50.00
*	-	Epichlorohydrin	< 0.10	ug/l	<= 0.10

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*U	-	Acrylamide	< 0.013	ug/l	<= 0.100
D/D3015#	18/07/2016	Fluoride	< 0.1	mg/l	<= 0.9
D/D3001#	18/07/2016	Magnesium	1.662	mg/l	-
D/D3001#	20/07/2016	Iron	62.24	ug/l	<= 200.00
D/D3001#	20/07/2016	Lead	2.69	ug/l	<= 10.00
D/D3001#	20/07/2016	Manganese	27.84	ug/l	<= 50.00
*U	-	Mercury	< 0.06	ug/l	<= 1.00
D/D3000#	19/07/2016	Nitrite as N	< 0.005	mg/l	-
D/D3000#	19/07/2016	Nitrate as N	< 2.000	mg/l	-
D/D3001#	20/07/2016	Nickel	3.26	ug/l	<= 20.00
D/	15/07/2016	Odour	0	N/A	-
D/	15/07/2016	Taste (Nature)	0	N/A	-
D/D1041#	14/07/2016	PH	7.43	pH Unit	6.50 - 9.50
*U	-	Selenium	< 0.16	ug/l	<= 10.00
D/D3001#	18/07/2016	Sodium	17.572	mg/l	<= 200.000
D/D3000#	15/07/2016	Sulphate	< 20.000	mg/l	<= 250.000
S/S1016#	20/07/2016	Tetrachloroethene	< 0.60	ug/l	<= 10.00
S/S3224#	21/07/2016	Total Organic Carbon	2.020	mg/l	NAC & ATC

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Lab Reference Number: 325807

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
S/S#	20/07/2016	Trichloroethene	< 0.60	ug/l	<= 10.00
D/D3054#	20/07/2016	Turbidity	0.46	NTU	NAC & ATC
*U	-	Vinyl Chloride	< 0.50	ug/l	<= 0.10
*	-	Pesticides Total	0.00	ug/l	<= 0.50
D/D1214#	14/07/2016	Clostridium perfringens	< 1	cfu/100ml	<= 0
D/D1201#	14/07/2016	Coliforms	< 1.0	MPN/100ml	<= 0.0
D/D1201#	14/07/2016	E.coli	< 1.0	MPN/100ml	<= 0.0
D/D3200	14/07/2016	Faecal Enterococci	< 1.0	MPN/100ml	<= 0.0
D/D1208#	15/07/2016	TVC @ 22℃	< 1	cfu/ml	NAC
Acid Herbicide	es				
*U	-	2,3,6-TBA Trichlorobenzoic Acid	< 0.01	ug/l	-
*U	-	2,4,5-T	< 0.01	ug/l	-
*U	-	2,4,5-TP Fenoprop	< 0.01	ug/l	=
*U	-	2,4-D	< 0.01	ug/l	-
*U	-	2,4-DB	< 0.01	ug/l	-
*U	-	2,4-DP Dichlorprop	< 0.01	ug/l	-
*U	-	Asulam	< 0.01	ug/l	-
*U	-	Benazolin	< 0.01	ug/l	-

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325807 Lab Reference Number:

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*U	-	Bentazone	< 0.00	ug/l	-
*U	-	Bromoxynil	< 0.01	ug/l	-
*U	-	Clopyralid	< 0.02	ug/l	-
*U	-	Dicamba	< 0.02	ug/l	-
*U	-	Fluroxypyr	< 0.01	ug/l	-
*U	-	Imazapyr	< 0.01	ug/l	-
*U	-	loxynil	< 0.00	ug/l	-
*U	-	MCPA	< 0.01	ug/l	-
*U	-	МСРВ	< 0.01	ug/l	-
*U	-	MCPP (Mecoprop)	< 0.00	ug/l	-
*U	-	Pentachlorophenol	< 0.01	ug/l	-
*U	-	Triclopyr	< 0.01	ug/l	-
OCP					•
*U	-	Dieldrin	< 0.01	ug/l	<= 0.03
*U	-	p,p'-DDT	< 0.01	ug/l	<= 0.10
*U	-	Aldrin	< 0.01	ug/l	<= 0.03
*U	-	Alpha BHC	< 0.01	ug/l	<= 0.10
*U	-	Beta BHC	< 0.01	ug/l	<= 0.10

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Lab Reference Number: 325807

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*U	-	Gamma BHC	< 0.01	ug/l	<= 0.10
*U	-	Chlorothalonil	< 0.01	ug/l	<= 0.10
*U	-	Dichlobenil	< 0.01	ug/l	<= 0.10
*U	-	Alpha-Endosulphan	< 0.01	ug/l	<= 0.10
*U	-	Endosulphan-beta	< 0.02	ug/l	<= 0.10
*U	-	Endrin	< 0.01	ug/l	<= 0.10
*U	-	Hexachlorobenzene	< 0.01	ug/l	<= 0.10
*U	-	Heptachlor	< 0.01	ug/l	<= 0.03
*U	-	Heptachlor Epoxide	< 0.01	ug/l	<= 0.03
*U	-	Isodrin	< 0.01	ug/l	<= 0.10
*U	-	Alachlor	< 0.01	ug/l	<= 0.03
*U	-	Heptachlor-endo-epoxide	< 0.01	ug/l	<= 0.10
*U	-	Heptachlor-exo-epoxide	< 0.01	ug/l	-
OPP			•		
*	-	Cypermethrin	< 0.01	ug/l	-
*U	-	Malathion	< 0.01	ug/l	<= 0.10
*U	-	Chlorfenvinphos	< 0.01	ug/l	<= 0.10
*U	-	Diflufenican	< 0.01	ug/l	<= 0.10

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Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)		
*U	-	Propetamphos	< 0.01	ug/l	<= 0.10		
PAH EPA Suit	te (6 Constituer	nts)			•		
*U	-	Fluoranthene	< 0.01	ug/l	=		
*U	-	Benzo(b)fluoranthene	< 0.01	ug/l	-		
*U	-	Benzo(k)fluoranthene	< 0.01	ug/l	-		
*U	-	Benzo(a)pyrene	< 0.01	ug/l	-		
*U	-	Benzo(ghi)perylene	< 0.01	ug/l	-		
*U	-	Ideno (123cd) pyrene	< 0.01	ug/l	-		
*U	-	Anthracene	< 0.01	ug/l	-		
*U	-	Total PAH	< 0.01	ug/l	<= 0.10		
THM					•		
S/S1016#	20/07/2016	Chloroform	59.98	ug/l	-		
S/S1016#	20/07/2016	Bromodichloromethane	13.28	ug/l	-		
S/S1016#	20/07/2016	Chlorodibromomethane	1.68	ug/l	-		
S/S1016#	20/07/2016	Bromoform	< 0.90	ug/l	-		
S/S1016#	20/07/2016	Total THM	74.94	ug/l	<= 100.00		
Triazines	Triazines						
*U	-	Atrazine	< 0.01	ug/l	<= 0.10		

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TVC - Total viable count

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325807 Lab Reference Number:

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*U	-	Propazine	< 0.01	ug/l	<= 0.10
*U	-	Simazine	< 0.01	ug/l	<= 0.10
*U	-	Terbutryn	< 0.01	ug/l	<= 0.10
*U	-	Trietazine	< 0.01	ug/l	<= 0.10
*U	-	Fenpropimorph	< 0.01	ug/l	<= 0.10
*U	-	Pendimethalin	< 0.01	ug/l	<= 0.10
*U	-	Pirimicarb	< 0.01	ug/l	<= 0.10
Urons and Car	nazoles				
*U	-	Chlorotoluron	< 0.01	ug/l	<= 0.10
*U	-	Diuron	< 0.01	ug/l	<= 0.10
*U	-	Isoproturon	< 0.01	ug/l	<= 0.10
*U	-	Linuron	< 0.01	ug/l	<= 0.10
*U	-	Monuron	< 0.01	ug/l	<= 0.10
*U	-	Methabenzthiazuron	< 0.01	ug/l	<= 0.10
*U	-	Metamitron	< 0.01	ug/l	<= 0.10
*U	-	Prothioconazole	< 0.01	ug/l	<= 0.10
*U	-	Tebuconazole	< 0.01	ug/l	<= 0.10
*U	-	Tebuthiuron	< 0.01	ug/l	<= 0.10

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Site:

Not Applicable

265475-344124 Truagh GWS Date of Sampling: 14/07/2016 Sample Description: Sample Type: Treated Date Sample Received: 14/07/2016

Lab Reference Number: 325807

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*U	-	Epoxiconazole	< 0.03	ug/l	<= 0.10
*U	-	Carbetamide	< 0.01	ug/l	<= 0.10
*U	=	Carbofuran	< 0.01	ug/l	<= 0.10
*U	=	Propiconazole	< 0.01	ug/l	<= 0.10

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