

Customer

Pascal Rooney
Monaghan County Council
Water Services
Monaghan

Certificate Of Analysis

Job Number: 17-27819

Issue Number: 2

Report Date: 25 May 2017

Reason for re-issuing report: Final Report

Site: Oram GWS

PO Number: 51232215

Date Samples Received: 06/04/2017

Please find attached the results for the samples received at our laboratory on 06/04/2017.

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:



Shane Reynolds
Laboratory Manager

Authorised Date: 24 April 2017

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.

This test report shall not be reproduced except in full or with written approval of City Analysts Limited.

Certificate Of Analysis

Customer

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Report Reference: 17-27819

Report Version: 2

Site: Oram GWS

Sample Description: Art Mooney Centre, Oram

Date of Sampling: 06/04/2017

Sample Type: Treated

Date Sample Received: 06/04/2017

Lab Reference Number: 354055

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
Mon Audit 15-00900					
S/S1016#	13/04/2017	1,2-Dichloroethane	< 0.50	ug/l	<= 3.00
D/D3001#	07/04/2017	Aluminium, Total	< 5.0	ug/l	<= 200.0
D/D3000#	06/04/2017	Ammonia as NH4	< 0.013	mg/l	<= 0.300
S/S#	13/04/2017	Benzene	< 0.50	ug/l	<= 1.00
D/D3001#	11/04/2017	Boron	< 0.05	mg/l	<= 1.00
D/D3001#	07/04/2017	Cadmium	2.6	ug/l	<= 5.0
	06/04/2017	Chlorine, Free Onsite	0.830	mg/l	-
D/D3000#	06/04/2017	Chloride	50.629	mg/l	<= 250.000
D/D3001#	07/04/2017	Chromium	< 0.9	ug/l	<= 50.0
D/D3010#	10/04/2017	Colour Apparent	< 5.00	Hazen	-
D/D3011#	06/04/2017	Conductivity @ 20 °C	282.7	uS/cm @20 °C	<= 2500.0
D/D3001#	13/04/2017	Copper	0.0	mg/l	<= 2.0
D/D3015#	12/04/2017	Fluoride	< 0.1	mg/l	<= 0.9
D/D3001#	07/04/2017	Iron	< 7.2	ug/l	<= 200.0
D/D3001#	07/04/2017	Lead	< 1.7	ug/l	<= 10.0
D/D3001#	07/04/2017	Manganese	< 0.7	ug/l	<= 50.0
D/D3000#	06/04/2017	Nitrite as NO2	< 0.066	mg/l	<= 0.500

= INAB Accredited, U = UKAS Accredited, * = Subcontracted

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TVC - Total viable count

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D/D3000#	06/04/2017	Nitrate as N03	< 8.900	mg/l	<= 50.000
D/D3001#	07/04/2017	Nickel	3.9	ug/l	<= 20.0
D/	07/04/2017	Odour	0	N/A	-
D/	07/04/2017	Taste (Nature)	0	N/A	-
D/D1041#	06/04/2017	PH	6.99	pH Unit	6.50 - 9.50
D/D3001#	10/04/2017	Sodium	22.454	mg/l	<= 200.000
D/D3000#	06/04/2017	Sulphate	21.323	mg/l	<= 250.000
S/S1016#	13/04/2017	Tetrachloroethene	< 0.60	ug/l	<= 10.00
S/S1016#	13/04/2017	Chloroform	16.79	ug/l	-
S/S1016#	13/04/2017	Bromodichloromethane	11.17	ug/l	-
S/S1016#	13/04/2017	Chlorodibromomethane	4.73	ug/l	-
S/S1016#	13/04/2017	Bromoform	< 0.90	ug/l	-
S/S1016#	13/04/2017	Total THM	33.15	ug/l	<= 100.00
S/S3224#	13/04/2017	Total Organic Carbon	3.250	mg/l	NAC & ATC
S/S#	13/04/2017	Trichloroethene	< 0.60	ug/l	<= 10.00
D/D3054#	10/04/2017	Turbidity	0.27	NTU	NAC & ATC
D/D1214#	06/04/2017	Clostridium perfringens	< 1	cfu/100ml	<= 0
D/D1201#	06/04/2017	Coliforms	< 1.0	MPN/100ml	<= 0.0

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D/D1201#	06/04/2017	E.coli	< 1.0	MPN/100ml	<= 0.0
D/D3200	06/04/2017	Faecal Enterococci	< 1.0	MPN/100ml	<= 0.0
D/D1208#	06/04/2017	TVC @ 22°C	1	cfu/ml	NAC

Comments

E285261 N322594

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Report Reference: 17-27819

Report Version: 1

Site: Oram GWS

Sample Description: Art Mooney Centre

Date of Sampling: 08/05/2017

Sample Type: Treated

Date Sample Received: 08/05/2017

Lab Reference Number: 357139

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*U	-	Antimony	< 0.33	ug/l	<= 5.00
*U	-	Arsenic	0.26	ug/l	<= 10.00
U	-	Bromate as BrO3	< 0.30	ug/l	<= 10.00
U	-	Metalddehyde	< 0.01	ug/l	-
*U	-	Cyanide, Total	< 1.70	ug/l	<= 50.00
*	-	Cypermethrin	< 0.01	ug/l	-
*U	-	Glyphosate	< 0.01	ug/l	-
*U	-	Mercury	< 0.06	ug/l	<= 1.00
*U	-	Selenium	< 0.16	ug/l	<= 10.00
*	-	Pesticides Total	0.00	ug/l	<= 0.50
Acid Herbicides					
*U	-	Propyzamide	< 0.01	ug/l	<= 0.10
*U	-	2,4 D	< 0.01	ug/l	<= 0.10
*U	-	Bentazone	< 0.01	ug/l	<= 0.10
*U	-	Bromoxynil	< 0.01	ug/l	<= 0.10
*U	-	Clopyralid	< 0.01	ug/l	<= 0.10
*U	-	Dicamba	< 0.02	ug/l	<= 0.10
*U	-	Dichlorprop	< 0.01	ug/l	<= 0.10

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*U	-	MCPA	< 0.01	ug/l	<= 0.10
*U	-	MCPB	< 0.01	ug/l	<= 0.10
*U	-	Mecoprop (Total)	< 0.01	ug/l	<= 0.10
*U	-	Tricloypr	< 0.01	ug/l	<= 0.10
*	-	2,3,6 TBA	< 0.02	ug/l	-
*U	-	Benazolin	< 0.01	ug/l	<= 0.10
*U	-	Fenoprop	< 0.01	ug/l	<= 0.10
*U	-	Picloram	< 0.01	ug/l	<= 0.10
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
*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

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Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*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					
*U	-	Chlorfenvinphos	< 0.01	ug/l	<= 0.10
*U	-	Diazinon	< 0.01	ug/l	<= 0.10
*U	-	Dichlorvos	< 0.01	ug/l	<= 0.10
*U	-	Dimethoate	< 0.01	ug/l	<= 0.10
*U	-	Malathion	< 0.01	ug/l	<= 0.10
*U	-	Propetamphos	< 0.01	ug/l	<= 0.10
PAH EPA Suite (6 Constituents)					
*U	-	Fluoranthene	< 0.01	ug/l	-

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*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
Triazines					
*U	-	Atrazine	< 0.01	ug/l	<= 0.10
*U	-	Prometryn	< 0.01	ug/l	-
*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 Canazoles					

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Site: Oram GWS
Sample Description: Art Mooney Centre
Sample Type: Treated
Lab Reference Number: 357139

Date of Sampling: 08/05/2017
Date Sample Received: 08/05/2017

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*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
*U	-	Epoxiconazole	< 0.01	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

Comments

Pesticide analysis for Oram sample resampled 08/05/17 due to container damage during freighting.

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