MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030865**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-32538	Sample Receipt Date	20/03/2024
MCQ Quote Number	ECA-2639-11	Date Analysis Started	20/03/2024
Purchase Order Number	120635	Completion Date	10/04/2024
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted],

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Senior Lab Administrator

Date Issued: 10/04/2024

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030865**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ132239	**CLS LTP**	20/03/2024	SAM031	Ammonia as N	<0.55	mg/l	Y	McQ	
			N/A	Cadmium (tot.unfilt)	<0.5	ug/l	Y	S	
			N/A	Chloronitroltoluenes (Individuals)	<5.0	ug/l	N	S	
			N/A	Chromium (tot.unfilt)	<3	ug/l	Y	S	
			SAM009	COD (Total)	29.0	mg/l	Y	McQ	
			N/A	Copper (tot.unfilt)	2.26	ug/l	Y	S	
			N/A	Lead (tot.unfilt)	<1	ug/l	Y	S	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			N/A	Nickel (tot.unfilt)	2.23	ug/l	Y	S	
			N/A	Nonyl phenol	<0.050	ug/l	N	S	
			N/A	Octyl phenol	<0.010	ug/l	Y	S	
			SAM004	pH	8.17	Units	Y	McQ	
			SAM001	Suspended Solids	10.0	mg/l	Y	McQ	
			N/A	Zinc (tot.unfilt)	34.2	ug/l	Y	S	
				McQuillan List 1 Suite (Waters)	-				
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,1-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,2-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethene	<1	ug/l	N	S	
			N/A	1,1-Dichloropropene	<1	ug/l	N	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,3-Trichloropropane	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	
			N/A	1,2-Dibromoethane	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2-Dichloroethane	<1	ug/l	N	S	
			N/A	1,2-Dichloropropane	<1	ug/l	N	S	
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,3-Dichloropropane	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	
			N/A	2,3,6-Trichlorobenzoic acid	<25	ug/l	N	S	
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenoxyacetic acid	<25	ug/l	N	S	
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-DB	<50	ug/l	N	S	
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dichlorophenoxyacetic acid	<25	ug/l	N	S	
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	
			N/A	2-Chlorotoluene	<1	ug/l	N	S	
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030865**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Bromofluorobenzene**	99.3	%	N	S	
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chlorotoluene	<1	ug/l	N	S	
			N/A	4-iso-Propyltoluene	<1	ug/l	N	S	
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	
			N/A	Alachlor	<0.01	ug/l	N	S	
			N/A	Aldrin	<0.1	ug/l	N	S	
			N/A	alpha-HCH	<0.1	ug/l	N	S	
			N/A	Anthracene (aq)	<1	ug/l	N	S	
			N/A	Atrazine	<0.02	ug/l	N	S	
			N/A	Azinphos ethyl	<0.04	ug/l	N	S	
			N/A	Azinphos methyl	<0.04	ug/l	N	S	
			N/A	Azobenzene (aq)	<1	ug/l	N	S	
			N/A	Benazolin	<20	ug/l	N	S	
			N/A	Benzene	<1	ug/l	N	S	
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	beta-HCH	<0.1	ug/l	N	S	
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	
			N/A	Bromobenzene	<1	ug/l	N	S	
			N/A	Bromochloromethane	<1	ug/l	N	S	
			N/A	Bromodichloromethane	<1	ug/l	N	S	
			N/A	Bromoform	<1	ug/l	N	S	
			N/A	Bromomethane	<1	ug/l	N	S	
			N/A	Bromoxynil	<20	ug/l	N	S	
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Cadmium (diss.filt)	<0.08	ug/l	N	S	
			N/A	Carbazole (aq)	<1	ug/l	N	S	
			N/A	Carbon disulphide	<1	ug/l	N	S	
			N/A	Carbontetrachloride	<1	ug/l	N	S	
			N/A	Carbophenothion	<0.02	ug/l	N	S	
			N/A	Chlorfenvinphos	<0.02	ug/l	N	S	
			N/A	Chlorobenzene	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030865**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Chloroethane	<1	ug/l	N	S	
			N/A	Chloroform	<1	ug/l	N	S	
			N/A	Chloromethane	<1	ug/l	N	S	
			N/A	Chlorothalonil	<0.01	ug/l	N	S	
			N/A	Chlorpyriphos	<0.02	ug/l	N	S	
			N/A	Chlorpyriphos-methyl	<0.02	ug/l	N	S	
			N/A	Chrysene (aq)	<1	ug/l	N	S	
			N/A	cis-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	cis-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	cis-Chlordane	<0.02	ug/l	N	S	
			N/A	Clopyralid	<20	ug/l	N	S	
			N/A	Coumaphos	<0.01	ug/l	N	S	
			N/A	Cyanazine	<0.01	ug/l	N	S	
			N/A	Cyanide, Free	<0.05	mg/l	N	S	
			N/A	Cyanide, Total	<0.05	mg/l	N	S	
			N/A	delta-HCH	<0.1	ug/l	N	S	
			N/A	Demeton-S-methyl	<0.02	ug/l	N	S	
			N/A	Diazinon	<0.02	ug/l	N	S	
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	
			N/A	Dibromochloromethane	<1	ug/l	N	S	
			N/A	Dibromofluoromethane**	110	%	N	S	
			N/A	Dibromomethane	<1	ug/l	N	S	
			N/A	Dibutyl tin	<30	ng/l	N	S	
			N/A	Dicamba	<20	ug/l	N	S	
			N/A	Dichlobenil	<0.02	ug/l	N	S	
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	
			N/A	Dichloromethane	<3	ug/l	N	S	
			N/A	Dichlorprop	<50	ug/l	N	S	
			N/A	Dichlorvos	<0.02	ug/l	N	S	
			N/A	Dieldrin	<0.1	ug/l	N	S	
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dimethoate	<0.02	ug/l	N	S	
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dinitro-o-cresol	<50	ug/l	N	S	
			N/A	Disulfoton	<0.02	ug/l	N	S	
			N/A	Endosulphan I	<0.1	ug/l	N	S	
			N/A	Endosulphan II	<0.2	ug/l	N	S	
			N/A	Endosulphan Sulphate	<0.2	ug/l	N	S	
			N/A	Endrin	<0.1	ug/l	N	S	
			N/A	Ethion	<0.02	ug/l	N	S	
			N/A	Ethylbenzene	<1	ug/l	N	S	
			N/A	Etridiazole	<0.01	ug/l	N	S	
			N/A	Etrimphos	<0.01	ug/l	N	S	
			N/A	Fenitrothion	<0.02	ug/l	N	S	
			N/A	Fenoprop (Silvex)	<50	ug/l	N	S	
			N/A	Fenthion	<0.02	ug/l	N	S	

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Fluorene (aq)	<1	ug/l	N	S	
			N/A	Fluoroxypyr	<50	ug/l	N	S	
			N/A	gamma-HCH (Lindane)	<0.1	ug/l	N	S	
			N/A	Heptachlor	<0.1	ug/l	N	S	
			N/A	Heptachlor epoxide	<0.1	ug/l	N	S	
			N/A	Hexachlorobenzene	<0.02	ug/l	N	S	
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	
			N/A	Ioxynil	<25	ug/l	N	S	
			N/A	Isodrin	<0.1	ug/l	N	S	
			N/A	Isophorone (aq)	<1	ug/l	N	S	
			N/A	Isopropylbenzene	<1	ug/l	N	S	
			N/A	m,p-Xylene	<1	ug/l	N	S	
			N/A	Malathion	<0.02	ug/l	N	S	
			N/A	MCPA	<25	ug/l	N	S	
			N/A	MCPB	<25	ug/l	N	S	
			N/A	Mecoprop	<20	ug/l	N	S	
			N/A	Mercury (diss.filt)	<0.01	ug/l	N	S	
			N/A	Metazachlor	<0.01	ug/l	N	S	
			N/A	Methyl Parathion	<0.02	ug/l	N	S	
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	N	S	
			N/A	Mevinphos	<0.02	ug/l	N	S	
			N/A	Mineral oil >C10 C40 (aq)	<100	ug/l	N	S	
			N/A	Naphthalene	<1	ug/l	N	S	
			N/A	Naphthalene (aq)	<1	ug/l	N	S	
			N/A	n-Butylbenzene	<1	ug/l	N	S	
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	
			N/A	o,p'-DDD (TDE)	<0.1	ug/l	N	S	
			N/A	o,p'-DDE	<0.1	ug/l	N	S	
			N/A	o,p'-DDT	<0.1	ug/l	N	S	
			N/A	o,p'-Methoxychlor	<0.1	ug/l	N	S	
			N/A	Omethoate	<0.01	ug/l	N	S	
			N/A	o-Xylene	<1	ug/l	N	S	
			N/A	p,p'-DDD (TDE)	<0.1	ug/l	N	S	
			N/A	p,p'-DDE	<0.1	ug/l	N	S	
			N/A	p,p'-DDT	<0.1	ug/l	N	S	
			N/A	p,p'-Methoxychlor	<0.1	ug/l	N	S	
			N/A	Parathion	<0.02	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030865**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Pendimethalin	<0.02	ug/l	N	S	
			N/A	Pentachlorobenzene	<0.01	ug/l	N	S	
			N/A	Pentachlorophenol	<20	ug/l	N	S	
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	
			N/A	Permethrin I	<0.1	ug/l	N	S	
			N/A	Permethrin II	<0.1	ug/l	N	S	
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	
			N/A	Phenol (aq)	<1	ug/l	N	S	
			N/A	Phorate	<0.02	ug/l	N	S	
			N/A	Phosalone	<0.02	ug/l	N	S	
			N/A	Phosphamidon I	<0.01	ug/l	N	S	
			N/A	Phosphamidon II	<0.01	ug/l	N	S	
			N/A	Pirimiphos-methyl	<0.02	ug/l	N	S	
			N/A	Prometryn	<0.01	ug/l	N	S	
			N/A	Propachlor	<0.01	ug/l	N	S	
			N/A	Propazine	<0.01	ug/l	N	S	
			N/A	Propetamphos	<0.02	ug/l	N	S	
			N/A	Propylbenzene	<1	ug/l	N	S	
			N/A	Propyzamide	<0.01	ug/l	N	S	
			N/A	Pyrene (aq)	<1	ug/l	N	S	
			N/A	Quintozene (PCNB)	<0.01	ug/l	N	S	
			N/A	sec-Butylbenzene	<1	ug/l	N	S	
			N/A	Simazine	<0.02	ug/l	N	S	
			N/A	Styrene	<1	ug/l	N	S	
			N/A	Surrogate**	96.1	%	N	S	
			N/A	Tecnazene	<0.02	ug/l	N	S	
			N/A	Telodrin	<0.01	ug/l	N	S	
			N/A	Terbutryn	0.0454	ug/l	N	S	
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	N	S	
			N/A	tert-Butylbenzene	<1	ug/l	N	S	
			N/A	Tetrabutyl tin	<12	ng/l	N	S	
			N/A	Tetrachloroethene	<1	ug/l	N	S	
			N/A	Toluene	<1	ug/l	N	S	
			N/A	Toluene-d8**	99.7	%	N	S	
			N/A	trans-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	trans-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	trans-Chlordane	<0.02	ug/l	N	S	
			N/A	Triadimefon	<0.02	ug/l	N	S	
			N/A	Triallate	<0.02	ug/l	N	S	
			N/A	Triazophos	<0.02	ug/l	N	S	
			N/A	Tributyl tin	<6	ng/l	N	S	
			N/A	Trichloroethene	<1	ug/l	N	S	
			N/A	Trichlorofluoromethane	<1	ug/l	N	S	
			N/A	Triclopyr	<25	ug/l	N	S	
			N/A	Trietazine	<0.01	ug/l	N	S	
			N/A	Trifluralin	<0.1	ug/l	N	S	
			N/A	Triphenyl tin	<6	ng/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030865**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Vinyl chloride	<1	ug/l	N	S	
				Sub Ureas (Urons)	-				
			N/A	Chlorotoluron	<0.10	ug/l	Y	S	
			N/A	Diuron	<0.10	ug/l	Y	S	
			N/A	Isoproturon	<0.10	ug/l	Y	S	
			N/A	Linuron	<0.10	ug/l	Y	S	
			N/A	Methabenzthiazuron	<0.10	ug/l	Y	S	
			N/A	Monolinuron	<0.10	ug/l	Y	S	
			N/A	Monuron	<0.10	ug/l	Y	S	
	Sample Matrix:	Landfill Leachate	**Analyst Comment:**						
Time Sampled: 10:30				Raised reporting limit for Sub Ureas due to the nature of the sample matrix.					

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	Ş	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø		

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030988**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-32690	Sample Receipt Date	11/04/2024
MCQ Quote Number	ECA-2639-11	Date Analysis Started	11/04/2024
Purchase Order Number	120676	Completion Date	24/04/2024
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted]

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Senior Lab Administrator

Date Issued: 24/04/2024

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030988**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ132958	**CLS LTP**	11/04/2024	SAM031	Ammonia as N	<0.11	mg/l	Y	McQ	
			N/A	Cadmium (tot.unfilt)	<0.5	ug/l	Y	S	
			N/A	Chloronitroltoluenes (Individuals)	<5.0	ug/l	N	S	
			N/A	Chromium (tot.unfilt)	<3	ug/l	Y	S	
			SAM009	COD (Total)	32.0	mg/l	Y	McQ	
			N/A	Copper (tot.unfilt)	3.15	ug/l	Y	S	
			N/A	Lead (tot.unfilt)	<1	ug/l	Y	S	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			N/A	Nickel (tot.unfilt)	2.36	ug/l	Y	S	
			N/A	Nonyl phenol	0.47	ug/l	N	S	
			N/A	Octyl phenol	<0.050	ug/l	Y	S	
			SAM004	pH	8.27	Units	Y	McQ	
			SAM001	Suspended Solids	13.0	mg/l	Y	McQ	
			N/A	Zinc (tot.unfilt)	19.7	ug/l	Y	S	
				McQuillan List 1 Suite (Waters)	-				
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,1-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,2-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethene	<1	ug/l	N	S	
			N/A	1,1-Dichloropropene	<1	ug/l	N	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,3-Trichloropropane	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	
			N/A	1,2-Dibromoethane	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2-Dichloroethane	<1	ug/l	N	S	
			N/A	1,2-Dichloropropane	<1	ug/l	N	S	
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,3-Dichloropropane	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	
			N/A	2,3,6-Trichlorobenzoic acid	<5	ug/l	N	S	
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-DB	<10	ug/l	N	S	
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	
			N/A	2-Chlorotoluene	<1	ug/l	N	S	
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030988**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Bromofluorobenzene**	101	%	N	S	
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chlorotoluene	<1	ug/l	N	S	
			N/A	4-iso-Propyltoluene	<1	ug/l	N	S	
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	
			N/A	Alachlor	<0.01	ug/l	N	S	
			N/A	Aldrin	<0.01	ug/l	N	S	
			N/A	alpha-HCH	<0.01	ug/l	N	S	
			N/A	Anthracene (aq)	<1	ug/l	N	S	
			N/A	Atrazine	<0.01	ug/l	N	S	
			N/A	Azinphos ethyl	<0.02	ug/l	N	S	
			N/A	Azinphos methyl	<0.02	ug/l	N	S	
			N/A	Azobenzene (aq)	<1	ug/l	N	S	
			N/A	Benazolin	<4	ug/l	N	S	
			N/A	Benzene	<1	ug/l	N	S	
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	beta-HCH	<0.01	ug/l	N	S	
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	
			N/A	Bromobenzene	<1	ug/l	N	S	
			N/A	Bromochloromethane	<1	ug/l	N	S	
			N/A	Bromodichloromethane	<1	ug/l	N	S	
			N/A	Bromoform	<1	ug/l	N	S	
			N/A	Bromomethane	<1	ug/l	N	S	
			N/A	Bromoxynil	<4	ug/l	N	S	
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Cadmium (diss.filt)	<0.08	ug/l	N	S	
			N/A	Carbazole (aq)	<1	ug/l	N	S	
			N/A	Carbon disulphide	<1	ug/l	N	S	
			N/A	Carbontetrachloride	<1	ug/l	N	S	
			N/A	Carbophenothion	<0.01	ug/l	N	S	
			N/A	Chlorfenvinphos	<0.01	ug/l	N	S	
			N/A	Chlorobenzene	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030988**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Chloroethane	<1	ug/l	N	S	
			N/A	Chloroform	<1	ug/l	N	S	
			N/A	Chloromethane	<1	ug/l	N	S	
			N/A	Chlorothalonil	<0.01	ug/l	N	S	
			N/A	Chlorpyriphos	<0.01	ug/l	N	S	
			N/A	Chlorpyriphos-methyl	<0.01	ug/l	N	S	
			N/A	Chrysene (aq)	<1	ug/l	N	S	
			N/A	cis-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	cis-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	cis-Chlordane	<0.01	ug/l	N	S	
			N/A	Clopyralid	<4	ug/l	N	S	
			N/A	Coumaphos	<0.01	ug/l	N	S	
			N/A	Cyanazine	<0.01	ug/l	N	S	
			N/A	Cyanide, Free	<0.05	mg/l	N	S	
			N/A	Cyanide, Total	<0.05	mg/l	N	S	
			N/A	delta-HCH	<0.01	ug/l	N	S	
			N/A	Demeton-S-methyl	<0.01	ug/l	N	S	
			N/A	Diazinon	<0.01	ug/l	N	S	
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	
			N/A	Dibromochloromethane	<1	ug/l	N	S	
			N/A	Dibromofluoromethane**	106	%	N	S	
			N/A	Dibromomethane	<1	ug/l	N	S	
			N/A	Dibutyl tin	<30	ng/l	N	S	
			N/A	Dicamba	<4	ug/l	N	S	
			N/A	Dichlobenil	<0.01	ug/l	N	S	
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	
			N/A	Dichloromethane	<3	ug/l	N	S	
			N/A	Dichlorprop	<10	ug/l	N	S	
			N/A	Dichlorvos	<0.01	ug/l	N	S	
			N/A	Dieldrin	<0.01	ug/l	N	S	
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dimethoate	<0.01	ug/l	N	S	
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dinitro-o-cresol	<10	ug/l	N	S	
			N/A	Disulfoton	<0.01	ug/l	N	S	
			N/A	Endosulphan I	<0.01	ug/l	N	S	
			N/A	Endosulphan II	<0.02	ug/l	N	S	
			N/A	Endosulphan Sulphate	<0.02	ug/l	N	S	
			N/A	Endrin	<0.01	ug/l	N	S	
			N/A	Ethion	<0.01	ug/l	N	S	
			N/A	Ethylbenzene	<1	ug/l	N	S	
			N/A	Etridiazole	<0.01	ug/l	N	S	
			N/A	Etrimphos	<0.01	ug/l	N	S	
			N/A	Fenitrothion	<0.01	ug/l	N	S	
			N/A	Fenoprop (Silvex)	<10	ug/l	N	S	
			N/A	Fenthion	<0.01	ug/l	N	S	

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Fluorene (aq)	<1	ug/l	N	S	
			N/A	Fluoroxypyr	<10	ug/l	N	S	
			N/A	gamma-HCH (Lindane)	<0.01	ug/l	N	S	
			N/A	Heptachlor	<0.01	ug/l	N	S	
			N/A	Heptachlor epoxide	<0.01	ug/l	N	S	
			N/A	Hexachlorobenzene	<0.01	ug/l	N	S	
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	
			N/A	Ioxynil	<5	ug/l	N	S	
			N/A	Isodrin	<0.01	ug/l	N	S	
			N/A	Isophorone (aq)	<1	ug/l	N	S	
			N/A	Isopropylbenzene	<1	ug/l	N	S	
			N/A	m,p-Xylene	<1	ug/l	N	S	
			N/A	Malathion	<0.01	ug/l	N	S	
			N/A	MCPA	<5	ug/l	N	S	
			N/A	MCPB	<5	ug/l	N	S	
			N/A	Mecoprop	<4	ug/l	N	S	
			N/A	Mercury (diss.filt)	<0.01	ug/l	N	S	
			N/A	Metazachlor	<0.01	ug/l	N	S	
			N/A	Methyl Parathion	<0.01	ug/l	N	S	
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	N	S	
			N/A	Mevinphos	<0.01	ug/l	N	S	
			N/A	Mineral oil >C10 C40 (aq)	<100	ug/l	N	S	
			N/A	Naphthalene	<1	ug/l	N	S	
			N/A	Naphthalene (aq)	<1	ug/l	N	S	
			N/A	n-Butylbenzene	<1	ug/l	N	S	
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	
			N/A	o,p'-DDD (TDE)	<0.01	ug/l	N	S	
			N/A	o,p'-DDE	<0.01	ug/l	N	S	
			N/A	o,p'-DDT	<0.01	ug/l	N	S	
			N/A	o,p'-Methoxychlor	<0.01	ug/l	N	S	
			N/A	Omethoate	<0.01	ug/l	N	S	
			N/A	o-Xylene	<1	ug/l	N	S	
			N/A	p,p'-DDD (TDE)	<0.01	ug/l	N	S	
			N/A	p,p'-DDE	<0.01	ug/l	N	S	
			N/A	p,p'-DDT	<0.01	ug/l	N	S	
			N/A	p,p'-Methoxychlor	<0.01	ug/l	N	S	
			N/A	Parathion	<0.01	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030988**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Pendimethalin	<0.01	ug/l	N	S	
			N/A	Pentachlorobenzene	<0.01	ug/l	N	S	
			N/A	Pentachlorophenol	<4	ug/l	N	S	
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	
			N/A	Permethrin I	<0.01	ug/l	N	S	
			N/A	Permethrin II	<0.01	ug/l	N	S	
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	
			N/A	Phenol (aq)	<1	ug/l	N	S	
			N/A	Phorate	<0.01	ug/l	N	S	
			N/A	Phosalone	<0.01	ug/l	N	S	
			N/A	Phosphamidon I	<0.01	ug/l	N	S	
			N/A	Phosphamidon II	<0.01	ug/l	N	S	
			N/A	Pirimiphos-methyl	<0.01	ug/l	N	S	
			N/A	Prometryn	<0.01	ug/l	N	S	
			N/A	Propachlor	<0.01	ug/l	N	S	
			N/A	Propazine	<0.01	ug/l	N	S	
			N/A	Propetamphos	<0.01	ug/l	N	S	
			N/A	Propylbenzene	<1	ug/l	N	S	
			N/A	Propyzamide	<0.01	ug/l	N	S	
			N/A	Pyrene (aq)	<1	ug/l	N	S	
			N/A	Quintozene (PCNB)	<0.01	ug/l	N	S	
			N/A	sec-Butylbenzene	<1	ug/l	N	S	
			N/A	Simazine	<0.01	ug/l	N	S	
			N/A	Styrene	<1	ug/l	N	S	
			N/A	Surrogate**	101	%	N	S	
			N/A	Tecnazene	<0.01	ug/l	N	S	
			N/A	Telodrin	<0.01	ug/l	N	S	
			N/A	Terbutryn	0.0532	ug/l	N	S	
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	N	S	
			N/A	tert-Butylbenzene	<1	ug/l	N	S	
			N/A	Tetrabutyl tin	<12	ng/l	N	S	
			N/A	Tetrachloroethene	<1	ug/l	N	S	
			N/A	Toluene	<1	ug/l	N	S	
			N/A	Toluene-d8**	99.8	%	N	S	
			N/A	trans-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	trans-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	trans-Chlordane	<0.01	ug/l	N	S	
			N/A	Triadimefon	<0.01	ug/l	N	S	
			N/A	Triallate	<0.01	ug/l	N	S	
			N/A	Triazophos	<0.01	ug/l	N	S	
			N/A	Tributyl tin	<6	ng/l	N	S	
			N/A	Trichloroethene	<1	ug/l	N	S	
			N/A	Trichlorofluoromethane	<1	ug/l	N	S	
			N/A	Triclopyr	<5	ug/l	N	S	
			N/A	Trietazine	<0.01	ug/l	N	S	
			N/A	Trifluralin	<0.01	ug/l	N	S	
			N/A	Triphenyl tin	<6	ng/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC030988**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Vinyl chloride	<1	ug/l	N	S	
				Sub Ureas (Urons)	-				
			N/A	Chlorotoluron	<0.10	ug/l	Y	S	
			N/A	Diuron	<0.10	ug/l	Y	S	
			N/A	Isoproturon	<0.10	ug/l	Y	S	
			N/A	Linuron	<0.10	ug/l	Y	S	
			N/A	Methabenzthiazuron	<0.10	ug/l	Y	S	
			N/A	Monolinuron	<0.10	ug/l	Y	S	
			N/A	Monuron	<0.10	ug/l	Y	S	
Time Sampled: 09:35	**Sample Matrix:**	Landfill Leachate	**Analyst Comment:**						

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	Ş	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø		

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC031963**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-33672	Sample Receipt Date	15/08/2024
MCQ Quote Number	ECA-2639-12	Date Analysis Started	15/08/2024
Purchase Order Number	123425	Completion Date	24/09/2024
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted]

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Senior Lab Administrator

Date Issued: 24/09/2024

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC031963**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ137577	**CLS LTP**	15/08/2024	SAM031	Ammonia as N	<0.11	mg/l	Y	McQ	
			SAM038TT	Cadmium Tot	<0.976	ug/l	Y	McQ	
			N/A	Chloronitroltoluenes (Individuals)	<5.0	ug/l	N	S	
			SAM038TT	Chromium Tot	<4.058	ug/l	Y	McQ	
			SAM009	COD (Total)	<25	mg/l	Y	McQ	
			SAM038TT	Copper Tot	<7.918	ug/l	Y	McQ	
			SAM038TT	Lead Tot	<0.257	ug/l	Y	McQ	
			SAM038TT	Nickel Tot	<1.739	ug/l	Y	McQ	
			N/A	Nonyl phenol	<0.100	ug/l	N	S	
			N/A	Octyl phenol	<0.050	ug/l	Y	S	
			SAM004	pH	8.03	Units	Y	McQ	
			SAM001	Suspended Solids	8.00	mg/l	Y	McQ	
			SAM038TT	Zinc Tot	83.1	ug/l	Y	McQ	
				McQuillan List 1 Suite (Waters)	-				
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,1-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,2-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethene	<1	ug/l	N	S	
			N/A	1,1-Dichloropropene	<1	ug/l	N	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,3-Trichloropropane	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	
			N/A	1,2-Dibromoethane	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2-Dichloroethane	<1	ug/l	N	S	
			N/A	1,2-Dichloropropane	<1	ug/l	N	S	
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,3-Dichloropropane	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	
			N/A	2,3,6-Trichlorobenzoic acid	<5	ug/l	N	S	
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-DB	<10	ug/l	N	S	
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	
			N/A	2-Chlorotoluene	<1	ug/l	N	S	
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC031963**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Bromofluorobenzene**	98.1	%	N	S	
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chlorotoluene	<1	ug/l	N	S	
			N/A	4-iso-Propyltoluene	<1	ug/l	N	S	
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	
			N/A	Alachlor	<0.02	ug/l	N	S	
			N/A	Aldrin	<0.01	ug/l	N	S	
			N/A	alpha-HCH	<0.01	ug/l	N	S	
			N/A	Anthracene (aq)	<1	ug/l	N	S	
			N/A	Atrazine	<0.02	ug/l	N	S	
			N/A	Azinphos ethyl	<0.04	ug/l	N	S	
			N/A	Azinphos methyl	<0.04	ug/l	N	S	
			N/A	Azobenzene (aq)	<1	ug/l	N	S	
			N/A	Benazolin	<4	ug/l	N	S	
			N/A	Benzene	<1	ug/l	N	S	
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	beta-HCH	<0.01	ug/l	N	S	
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	
			N/A	Bromobenzene	<1	ug/l	N	S	
			N/A	Bromochloromethane	<1	ug/l	N	S	
			N/A	Bromodichloromethane	<1	ug/l	N	S	
			N/A	Bromoform	<1	ug/l	N	S	
			N/A	Bromomethane	<1	ug/l	N	S	
			N/A	Bromoxynil	<4	ug/l	N	S	
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Cadmium (diss.filt)	<0.08	ug/l	N	S	
			N/A	Carbazole (aq)	<1	ug/l	N	S	
			N/A	Carbon disulphide	<1	ug/l	N	S	
			N/A	Carbontetrachloride	<1	ug/l	N	S	
			N/A	Carbophenothion	<0.02	ug/l	N	S	
			N/A	Chlorfenvinphos	<0.02	ug/l	N	S	
			N/A	Chlorobenzene	<1	ug/l	N	S	
			N/A	Chloroethane	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC031963**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Chloroform	<1	ug/l	N	S	
			N/A	Chloromethane	<1	ug/l	N	S	
			N/A	Chlorothalonil	<0.02	ug/l	N	S	
			N/A	Chlorpyriphos	<0.02	ug/l	N	S	
			N/A	Chlorpyriphos-methyl	<0.02	ug/l	N	S	
			N/A	Chrysene (aq)	<1	ug/l	N	S	
			N/A	cis-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	cis-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	cis-Chlordane	<0.01	ug/l	N	S	
			N/A	cis-Chlordane	<1	ug/l	N	S	
			N/A	Clopyralid	<4	ug/l	N	S	
			N/A	Coumaphos	<0.02	ug/l	N	S	
			N/A	Cyanazine	<0.02	ug/l	N	S	
			N/A	Cyanide, Free	<0.05	mg/l	N	S	
			N/A	Cyanide, Total	<0.05	mg/l	N	S	
			N/A	delta-HCH	<0.01	ug/l	N	S	
			N/A	Demeton-S-methyl	<0.02	ug/l	N	S	
			N/A	Diazinon	<0.02	ug/l	N	S	
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	
			N/A	Dibromochloromethane	<1	ug/l	N	S	
			N/A	Dibromofluoromethane**	119	%	N	S	
			N/A	Dibromomethane	<1	ug/l	N	S	
			N/A	Dibutyl tin	<30	ng/l	N	S	
			N/A	Dicamba	<4	ug/l	N	S	
			N/A	Dichlobenil	<0.02	ug/l	N	S	
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	
			N/A	Dichloromethane	<3	ug/l	N	S	
			N/A	Dichlorprop	<10	ug/l	N	S	
			N/A	Dichlorvos	<0.02	ug/l	N	S	
			N/A	Dieldrin	<0.01	ug/l	N	S	
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dimethoate	<0.02	ug/l	N	S	
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dinitro-o-cresol	<10	ug/l	N	S	
			N/A	Disulfoton	<0.02	ug/l	N	S	
			N/A	Endosulphan I	<0.01	ug/l	N	S	
			N/A	Endosulphan II	<0.02	ug/l	N	S	
			N/A	Endosulphan Sulphate	<0.02	ug/l	N	S	
			N/A	Endrin	<0.01	ug/l	N	S	
			N/A	Ethion	<0.02	ug/l	N	S	
			N/A	Ethylbenzene	<1	ug/l	N	S	
			N/A	Etridiazole	<0.02	ug/l	N	S	
			N/A	Etrimphos	<0.02	ug/l	N	S	
			N/A	Fenitrothion	<0.02	ug/l	N	S	
			N/A	Fenoprop (Silvex)	<10	ug/l	N	S	
			N/A	Fenthion	<0.02	ug/l	N	S	

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Fluorene (aq)	<1	ug/l	N	S	
			N/A	Fluoroxypyr	<10	ug/l	N	S	
			N/A	gamma-HCH (Lindane)	<0.01	ug/l	N	S	
			N/A	Heptachlor	<0.01	ug/l	N	S	
			N/A	Heptachlor epoxide	<0.01	ug/l	N	S	
			N/A	Hexachlorobenzene	<0.02	ug/l	N	S	
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	
			N/A	Ioxynil	<5	ug/l	N	S	
			N/A	Isodrin	<0.01	ug/l	N	S	
			N/A	Isophorone (aq)	<1	ug/l	N	S	
			N/A	Isopropylbenzene	<1	ug/l	N	S	
			N/A	m,p-Xylene	<1	ug/l	N	S	
			N/A	Malathion	<0.02	ug/l	N	S	
			N/A	MCPA	<5	ug/l	N	S	
			N/A	MCPB	<5	ug/l	N	S	
			N/A	Mecoprop	<4	ug/l	N	S	
			N/A	Mercury (diss.filt)	<0.01	ug/l	N	S	
			N/A	Metazachlor	<0.02	ug/l	N	S	
			N/A	Methyl Parathion	<0.02	ug/l	N	S	
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	N	S	
			N/A	Mevinphos	<0.02	ug/l	N	S	
			N/A	Mineral oil >C10 C40 (aq)	<100	ug/l	N	S	
			N/A	Naphthalene	<1	ug/l	N	S	
			N/A	Naphthalene (aq)	<1	ug/l	N	S	
			N/A	n-Butylbenzene	<1	ug/l	N	S	
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	
			N/A	o,p'-DDD (TDE)	<0.01	ug/l	N	S	
			N/A	o,p'-DDE	<0.01	ug/l	N	S	
			N/A	o,p'-DDT	<0.01	ug/l	N	S	
			N/A	o,p'-Methoxychlor	<0.01	ug/l	N	S	
			N/A	o-Xylene	<1	ug/l	N	S	
			N/A	p,p'-DDD (TDE)	<0.01	ug/l	N	S	
			N/A	p,p'-DDE	<0.01	ug/l	N	S	
			N/A	p,p'-DDT	<0.01	ug/l	N	S	
			N/A	p,p'-Methoxychlor	<0.01	ug/l	N	S	
			N/A	Parathion	<0.02	ug/l	N	S	
			N/A	Pendimethalin	<0.02	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC031963**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Pentachlorobenzene	<0.02	ug/l	N	S	
			N/A	Pentachlorophenol	<4	ug/l	N	S	
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	
			N/A	Permethrin I	<0.01	ug/l	N	S	
			N/A	Permethrin II	<0.01	ug/l	N	S	
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	
			N/A	Phenol (aq)	<1	ug/l	N	S	
			N/A	Phorate	<0.02	ug/l	N	S	
			N/A	Phosalone	<0.02	ug/l	N	S	
			N/A	Phosphamidon I	<0.02	ug/l	N	S	
			N/A	Phosphamidon II	<0.02	ug/l	N	S	
			N/A	Pirimiphos-methyl	<0.02	ug/l	N	S	
			N/A	Prometryn	<0.02	ug/l	N	S	
			N/A	Propachlor	<0.02	ug/l	N	S	
			N/A	Propazine	<0.02	ug/l	N	S	
			N/A	Propetamphos	<0.02	ug/l	N	S	
			N/A	Propylbenzene	<1	ug/l	N	S	
			N/A	Propyzamide	<0.02	ug/l	N	S	
			N/A	Pyrene (aq)	<1	ug/l	N	S	
			N/A	Quintozene (PCNB)	<0.02	ug/l	N	S	
			N/A	sec-Butylbenzene	<1	ug/l	N	S	
			N/A	Simazine	<0.02	ug/l	N	S	
			N/A	Styrene	<1	ug/l	N	S	
			N/A	Surrogate**	67.5	%	N	S	
			N/A	Tecnazene	<0.02	ug/l	N	S	
			N/A	Telodrin	<0.02	ug/l	N	S	
			N/A	Terbutryn	<0.02	ug/l	N	S	
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	N	S	
			N/A	tert-Butylbenzene	<1	ug/l	N	S	
			N/A	Tetrabutyl tin	<12	ng/l	N	S	
			N/A	Tetrachloroethene	<1	ug/l	N	S	
			N/A	Toluene	<1	ug/l	N	S	
			N/A	Toluene-d8**	99.6	%	N	S	
			N/A	trans-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	trans-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	trans-Chlordane	<0.02	ug/l	N	S	
			N/A	trans-Chlordane	<1	ug/l	N	S	
			N/A	Triadimefon	<0.02	ug/l	N	S	
			N/A	Triallate	<0.02	ug/l	N	S	
			N/A	Triazophos	<0.02	ug/l	N	S	
			N/A	Tributyl tin	<6	ng/l	N	S	
			N/A	Trichloroethene	<1	ug/l	N	S	
			N/A	Trichlorofluoromethane	<1	ug/l	N	S	
			N/A	Triclopyr	<5	ug/l	N	S	
			N/A	Trietazine	<0.02	ug/l	N	S	
			N/A	Trifluralin	<0.01	ug/l	N	S	
			N/A	Triphenyl tin	<6	ng/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC031963**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Vinyl chloride	<1	ug/l	N	S	
				Sub Ureas (Urons)	-				
			N/A	Chlorotoluron	<0.10	ug/l	Y	S	
			N/A	Diuron	<0.10	ug/l	Y	S	
			N/A	Isoproturon	<0.10	ug/l	Y	S	
			N/A	Linuron	<0.10	ug/l	Y	S	
			N/A	Methabenzthiazuron	<0.10	ug/l	Y	S	
			N/A	Monolinuron	<0.10	ug/l	Y	S	
			N/A	Monuron	<0.10	ug/l	Y	S	

Time Sampled: 09:05 **Sample Matrix:** Landfill Leachate **Analyst Comment:**

Sample holding time exceeded due to late arrival of sample to subcontracted lab for SVOC analysis.
Raised reporting limits for Sub Ureas due to the nature of the sample matrix.

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	Ş	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø		

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC032833**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-34569	Sample Receipt Date	28/11/2024
MCQ Quote Number	ECA-2639-12	Date Analysis Started	28/11/2024
Purchase Order Number	125056	Completion Date	02/01/2025
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted]

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Senior Lab Administrator

Date Issued: 02/01/2025

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC032833**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ141622	**CLS LTP**	27/11/2024	SAM031	Ammonia as N	<0.11	mg/l	Y	McQ	
			SAM038TT	Cadmium Tot	<0.976	ug/l	Y	McQ	
			N/A	Chloronitroltoluenes (Individuals)	<5.0	ug/l	N	S	
			SAM038TT	Chromium Tot	<4.058	ug/l	Y	McQ	
			SAM009	COD (Total)	<25	mg/l	Y	McQ	
			SAM038TT	Copper Tot	<7.918	ug/l	Y	McQ	
			SAM038TT	Lead Tot	0.59	ug/l	Y	McQ	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			SAM038TT	Nickel Tot	2.07	ug/l	Y	McQ	
			N/A	Nonyl phenol	<0.050	ug/l	N	S	❦
			N/A	Octyl phenol	<0.050	ug/l	Y	S	❦
			SAM004	pH	8.11	Units	Y	McQ	
			SAM001	Suspended Solids	21.0	mg/l	Y	McQ	
			SAM038TT	Zinc Tot	38.4	ug/l	Y	McQ	
				McQuillan List 1 Suite (Waters)	-				
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,1-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,2-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethene	<1	ug/l	N	S	
			N/A	1,1-Dichloropropene	<1	ug/l	N	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,3-Trichloropropane	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	
			N/A	1,2-Dibromoethane	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2-Dichloroethane	<1	ug/l	N	S	
			N/A	1,2-Dichloropropane	<1	ug/l	N	S	
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,3-Dichloropropane	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	
			N/A	2,3,6-Trichlorobenzoic acid	<5	ug/l	N	S	
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-DB	<10	ug/l	N	S	
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	
			N/A	2-Chlorotoluene	<1	ug/l	N	S	
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC032833**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Bromofluorobenzene**	96.1	%	N	S	
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chlorotoluene	<1	ug/l	N	S	
			N/A	4-iso-Propyltoluene	<1	ug/l	N	S	
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	
			N/A	Alachlor	<0.02	ug/l	N	S	
			N/A	Aldrin	<0.05	ug/l	N	S	
			N/A	alpha-HCH	<0.05	ug/l	N	S	
			N/A	Anthracene (aq)	<1	ug/l	N	S	
			N/A	Atrazine	<0.02	ug/l	N	S	
			N/A	Azinphos ethyl	<0.04	ug/l	N	S	
			N/A	Azinphos methyl	<0.04	ug/l	N	S	
			N/A	Azobenzene (aq)	<1	ug/l	N	S	
			N/A	Benazolin	<4	ug/l	N	S	
			N/A	Benzene	<1	ug/l	N	S	
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	beta-HCH	<0.05	ug/l	N	S	
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	
			N/A	Bromobenzene	<1	ug/l	N	S	
			N/A	Bromochloromethane	<1	ug/l	N	S	
			N/A	Bromodichloromethane	<1	ug/l	N	S	
			N/A	Bromoform	<1	ug/l	N	S	
			N/A	Bromomethane	<1	ug/l	N	S	
			N/A	Bromoxynil	<4	ug/l	N	S	
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Cadmium (diss.filt)	<0.08	ug/l	N	S	
			N/A	Carbazole (aq)	<1	ug/l	N	S	
			N/A	Carbon disulphide	<1	ug/l	N	S	
			N/A	Carbontetrachloride	<1	ug/l	N	S	
			N/A	Carbophenothion	<0.02	ug/l	N	S	
			N/A	Chlorfenvinphos	<0.02	ug/l	N	S	
			N/A	Chlorobenzene	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC032833**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Chloroethane	<1	ug/l	N	S	
			N/A	Chloroform	<1	ug/l	N	S	
			N/A	Chloromethane	<1	ug/l	N	S	
			N/A	Chlorothalonil	<0.02	ug/l	N	S	
			N/A	Chlorpyriphos	<0.02	ug/l	N	S	
			N/A	Chlorpyriphos-methyl	<0.02	ug/l	N	S	
			N/A	Chrysene (aq)	<1	ug/l	N	S	
			N/A	cis-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	cis-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	cis-Chlordane	<0.05	ug/l	N	S	
			N/A	Clopyralid	<4	ug/l	N	S	
			N/A	Coumaphos	<0.02	ug/l	N	S	
			N/A	Cyanazine	<0.02	ug/l	N	S	
			N/A	Cyanide, Free	<0.05	mg/l	N	S	
			N/A	Cyanide, Total	<0.05	mg/l	N	S	
			N/A	delta-HCH	<0.05	ug/l	N	S	
			N/A	Demeton-S-methyl	<0.02	ug/l	N	S	
			N/A	Diazinon	<0.02	ug/l	N	S	
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	
			N/A	Dibromochloromethane	<1	ug/l	N	S	
			N/A	Dibromofluoromethane**	101	%	N	S	
			N/A	Dibromomethane	<1	ug/l	N	S	
			N/A	Dibutyl tin	<5	ng/l	N	S	
			N/A	Dicamba	<4	ug/l	N	S	
			N/A	Dichlobenil	<0.02	ug/l	N	S	
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	
			N/A	Dichloromethane	<3	ug/l	N	S	
			N/A	Dichlorprop	<10	ug/l	N	S	
			N/A	Dichlorvos	<0.02	ug/l	N	S	
			N/A	Dieldrin	<0.05	ug/l	N	S	
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dimethoate	<0.02	ug/l	N	S	
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dinitro-o-cresol	<10	ug/l	N	S	
			N/A	Disulfoton	<0.02	ug/l	N	S	
			N/A	Endosulphan I	<0.05	ug/l	N	S	
			N/A	Endosulphan II	<0.1	ug/l	N	S	
			N/A	Endosulphan Sulphate	<0.1	ug/l	N	S	
			N/A	Endrin	<0.05	ug/l	N	S	
			N/A	Ethion	<0.02	ug/l	N	S	
			N/A	Ethylbenzene	<1	ug/l	N	S	
			N/A	Etridiazole	<0.02	ug/l	N	S	
			N/A	Etrimphos	<0.02	ug/l	N	S	
			N/A	Fenitrothion	<0.02	ug/l	N	S	
			N/A	Fenoprop (Silvex)	<10	ug/l	N	S	
			N/A	Fenthion	<0.02	ug/l	N	S	

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Fluorene (aq)	<1	ug/l	N	S	
			N/A	Fluoroxypyr	<10	ug/l	N	S	
			N/A	gamma-HCH (Lindane)	<0.05	ug/l	N	S	
			N/A	Heptachlor	<0.05	ug/l	N	S	
			N/A	Heptachlor epoxide	<0.05	ug/l	N	S	
			N/A	Hexachlorobenzene	<0.02	ug/l	N	S	
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<0.02	ug/l	N	S	
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	
			N/A	Ioxynil	<5	ug/l	N	S	
			N/A	Isodrin	<0.05	ug/l	N	S	
			N/A	Isophorone (aq)	<1	ug/l	N	S	
			N/A	Isopropylbenzene	<1	ug/l	N	S	
			N/A	m,p-Xylene	<1	ug/l	N	S	
			N/A	Malathion	<0.02	ug/l	N	S	
			N/A	MCPA	<5	ug/l	N	S	
			N/A	MCPB	<5	ug/l	N	S	
			N/A	Mecoprop	<4	ug/l	N	S	
			N/A	Mercury (diss.filt)	<0.01	ug/l	N	S	
			N/A	Metazachlor	<0.02	ug/l	N	S	
			N/A	Methyl Parathion	<0.02	ug/l	N	S	
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	N	S	
			N/A	Mevinphos	<0.02	ug/l	N	S	
			N/A	Mineral oil >C10 C40 (aq)	<100	ug/l	N	S	
			N/A	Naphthalene	<1	ug/l	N	S	
			N/A	Naphthalene (aq)	<1	ug/l	N	S	
			N/A	n-Butylbenzene	<1	ug/l	N	S	
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	
			N/A	o,p'-DDD (TDE)	<0.05	ug/l	N	S	
			N/A	o,p'-DDE	<0.05	ug/l	N	S	
			N/A	o,p'-DDT	<0.05	ug/l	N	S	
			N/A	o,p'-Methoxychlor	<0.05	ug/l	N	S	
			N/A	o-Xylene	<1	ug/l	N	S	
			N/A	p,p'-DDD (TDE)	<0.05	ug/l	N	S	
			N/A	p,p'-DDE	<0.05	ug/l	N	S	
			N/A	p,p'-DDT	<0.05	ug/l	N	S	
			N/A	p,p'-Methoxychlor	<0.05	ug/l	N	S	
			N/A	Parathion	<0.02	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC032833**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Pendimethalin	<0.02	ug/l	N	S	
			N/A	Pentachlorobenzene	<0.02	ug/l	N	S	
			N/A	Pentachlorophenol	<4	ug/l	N	S	
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	
			N/A	Permethrin I	<0.05	ug/l	N	S	
			N/A	Permethrin II	<0.05	ug/l	N	S	
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	
			N/A	Phenol (aq)	<1	ug/l	N	S	
			N/A	Phorate	<0.02	ug/l	N	S	
			N/A	Phosalone	<0.02	ug/l	N	S	
			N/A	Phosphamidon I	<0.02	ug/l	N	S	
			N/A	Phosphamidon II	<0.02	ug/l	N	S	
			N/A	Pirimiphos-methyl	<0.02	ug/l	N	S	
			N/A	Prometryn	<0.02	ug/l	N	S	
			N/A	Propachlor	<0.02	ug/l	N	S	
			N/A	Propazine	<0.02	ug/l	N	S	
			N/A	Propetamphos	<0.02	ug/l	N	S	
			N/A	Propylbenzene	<1	ug/l	N	S	
			N/A	Propyzamide	<0.02	ug/l	N	S	
			N/A	Pyrene (aq)	<1	ug/l	N	S	
			N/A	Quintozene (PCNB)	<0.02	ug/l	N	S	
			N/A	sec-Butylbenzene	<1	ug/l	N	S	
			N/A	Simazine	<0.02	ug/l	N	S	
			N/A	Styrene	<1	ug/l	N	S	
			N/A	Surrogate**	80.7	%	N	S	
			N/A	Tecnazene	<0.02	ug/l	N	S	
			N/A	Telodrin	<0.02	ug/l	N	S	
			N/A	Terbutryn	0.0258	ug/l	N	S	
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	N	S	
			N/A	tert-Butylbenzene	<1	ug/l	N	S	
			N/A	Tetrabutyl tin	<2	ng/l	N	S	
			N/A	Tetrachloroethene	<1	ug/l	N	S	
			N/A	Toluene	<1	ug/l	N	S	
			N/A	Toluene-d8**	94.8	%	N	S	
			N/A	trans-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	trans-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	trans-Chlordane	<0.05	ug/l	N	S	
			N/A	Triadimefon	<0.02	ug/l	N	S	
			N/A	Triallate	<0.02	ug/l	N	S	
			N/A	Triazophos	<0.02	ug/l	N	S	
			N/A	Tributyl tin	<1	ng/l	N	S	
			N/A	Trichloroethene	<1	ug/l	N	S	
			N/A	Trichlorofluoromethane	<1	ug/l	N	S	
			N/A	Triclopyr	<5	ug/l	N	S	
			N/A	Trietazine	<0.02	ug/l	N	S	
			N/A	Trifluralin	<0.05	ug/l	N	S	
			N/A	Triphenyl tin	<1	ng/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC032833**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Vinyl chloride	<1	ug/l	N	S	
				Sub Ureas (Urons)	-				
			N/A	Chlorotoluron	<0.10	ug/l	Y	S	
			N/A	Diuron	<0.10	ug/l	Y	S	
			N/A	Isoproturon	<0.10	ug/l	Y	S	
			N/A	Linuron	<0.10	ug/l	Y	S	
			N/A	Methabenzthiazuron	<0.10	ug/l	Y	S	
			N/A	Monolinuron	<0.10	ug/l	Y	S	
			N/A	Monuron	<0.10	ug/l	Y	S	
Time Sampled: 10:00	**Sample Matrix:**	Landfill Leachate	**Analyst Comment:**						

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	Ş	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø	Reporting limit raised due to sample matrix interference	ᴥ
Container with headspace provided for Volatiles analysis	¥	Deviation from method	◊
Matrix Interference	∞	Unsuitable sample	Θ

Annual Environmental Monitoring Report

NIEA Template for Non-Landfill Operators (Issue Date: Dec 2018, Version 2)

For Non-Landfill installations permitted under the Pollution Prevention and Control (Industrial Emissions) Regulations Northern Ireland 2013

NOTE TO THE OPERATOR – PLEASE READ BEFORE USING THIS TEMPLATE

(a) This report should be completed with reference to the monitoring conditions detailed in the permit for the site.

(b) When completing this template, it is recommended that:

- All sections in the template should be included even if only to confirm that those sections are not relevant to the site and the reasons for this.
- All tabulated information should be included within the text of the report at the appropriate point.
- All data from the monitoring period should be provided in summary tables in the report appendices for review. Laboratory results sheets may be provided in addition but not instead of summary tables.
- Graphical representation of trends should be clearly titled, with units and trigger limits indicated. Graphs should not be over complicated; data from numerous monitoring points should be separated into relevant subsets for clarity in showing data trends.
- One figure or drawing can provide the information for more than one of the requirements as long as the information is clear.
- Details of any permit non-compliances or incidents should be provided together with explanatory information and remedial actions.
- All drawings to be to recognised scales and sufficient to show the following details as specified. Each drawing should have a label that includes:
    - Title of drawing
    - Installation name
    - Name and address of the operator
    - Date the drawing was made
    - Drawing identification number
    - Scale of the Drawing
    - Identification numbers must be included for each monitoring point
- **NB** - The full monitoring data sets for each monitoring requirement should be provided in separate Appendices to the report in an easily reviewable format. This should also include time series graphs to demonstrate trends in the data.

  Laboratory results may be provided in addition to summary tables. These may be submitted in electronic format.

  One hard copy of the report should be submitted together with an electronic copy (if available).

Contents

Glossary of Terms

Term	Meaning / Definition
TLAs	Three Letter Acronyms: to be replaced with your own terms

1. INTRODUCTION

1.1 Background

Culmore Leachate Treatment Plant is operated by Derry City and Strabane District Council in accordance with the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 under Permit Number P0380/11A/V1.

This report was completed by [redacted], Waste Services Officer with Derry City and Strabane District Council and the Operator Competence Certificate holder for the site.

The Leachate Treatment Plant forms part of the Culmore (Closed) Landfill Site WML 13/16 LN/08/24/C which is operated by Derry City and Strabane District Council since 1971. The landfill is located on land that had previously been reclaimed from the sea for agricultural usage. However, following a breach of the sea defences the area had reverted to tidal mudflats. The site was filled from the southern perimeter, infilling moving progressively northwards. Culmore Landfill Site has no engineered cells and has been designed on the principle of "dilute and disperse" and relies on the slow release of leachate by various attenuation mechanisms. The total area of the site is approximately 40 hectares and can be subdivided into a number of different areas, based on the history of infilling:

1. Approximately five hectares in the southern area have been top soiled and restored to grassland following completion of landfilling and are occasionally used for rough pasture. This area was closed and restored to agricultural use in 1983 in accordance with the 1982 Council Waste Disposal Resolution.
2. The north-western area was divided into tidal lagoons which were edged by earthen and rock-fill bunds. In 1998 the Environment and Heritage Service issued a directive which prohibited the Council from infilling these lagoons. The area was subsequently added to the adjacent ASSI area. In order to compensate for this loss of fill space Council was permitted to overfill the already land filled section of the site and these overfilling operations continued to March 2007.

A site layout is included in Appendix 1.

The site is accessed via a tarmac road which runs into the site in a west-to-east direction from the Coney Road before turning north towards the centre of the site. A site office is located at the entrance to the site which is secured by lockable gates.

As the landfill site was not an engineered site the Closure Licence specified that a leachate treatment plant be installed to manage leachate generation and escape from the site into the surrounding Lough Foyle. The leachate treatment plant was installed as part of the wider restoration and capping of the landfill site which took place between January 2013 and October 2016 and is regulated through its own PPC Permit.

Planning permission was granted for the Leachate Treatment Plant on 28th February 2012 with the PPC permit issued on 19th December 2012.

1.2 Scope and Objective

The main objective of the report is to communicate the monitoring data for the year as required by Schedule 5 of the permit. This report covers the eighth operational year of the facility from January to December 2024. The plant operates continuously 24 hours a day, 7 days per week and is controlled by a Programmable Logic Controller (PLC). The OCC holder and technically competent person for the site monitors the daily operation of the site.

1.3 Terms of Reference

As mentioned in 1.2 above this is the eight Annual Environmental Monitoring Report as 2017 was the first operational year of the plant. The site holds PPC Permit P0380/11A/V1 and the only activity on site has been the collection and treatment of leachate from the landfill site.

1.4 Limitations of the Review

This report provides all the available monitoring data for the period January to December 2024. No restrictions or limitations were encountered during the monitoring period.

2. SITE CHARACTERISTICS

2.1 Site Location

Culmore Landfill Site and accompanying Leachate Treatment Plant is located approximately 1.5 km off the A2 Derry to Muff Road. It is located approximately 6 km northeast of Derry City Centre and 1 km from the main clustering of houses at Culmore. The site is accessed via an entrance from the Coney Road. The grid reference for the site entrance is OS IGR C 4760, 2385 and for the centre of the site is C 4800, 2400. A site location map has been provided in Appendix 2.

The potential receptors close to the site include both residential and agricultural properties and water courses including the Foyle Estuary and are summarised below:

Receptor Name	Receptor Type	Minimum Distance (from boundary to closest receptor)	Directions from Site
Cluster A	Cluster of Residential Properties	2 m	West
House B	Residential Property	31 m	South West
House C	Residential Property	30 m	South West
Cluster D	Cluster of Residential Properties	60 m	West
Cluster E	Cluster of Residential Properties	79 m	West
House F	Residential Property	170 m	West North West
House G	Residential Property	400 m	South west
House H	Residential Property	460 m	South West
River Foyle	River	6 m	North East

2.2 Installation details

The Leachate Treatment System comprises of a 300mm toe-drain installed around the perimeter of the site which drains under gravity to seven collection tanks distributed around the site. Collected leachate is pumped from these tanks to a treatment tank located 125m east of the site entrance. In addition to these tanks, pumps are also installed in vertical boreholes to collect leachate not intercepted by the perimeter drains. The collected leachate undergoes primary treatment onsite before being pumped via a pumping main to the nearby Culmore Wastewater Treatment works for final treatment. The system uses an aerator to increase oxygen levels to enable nitrification processes within the tank to take place. The main treatment tank is a 9.38 m diameter 4.26 m high glass lined steel tank and sits within an impermeable, reinforced concrete bund designed to hold 110% of the capacity of the tank. The tank is covered with a roof and a ladder on the side of the tank enables access for inspection and maintenance. On top of the bund walls sits a 2.8 m high close boarded absorbent acoustic barrier which screens the site visually and also reduces noise.

The treatment system is permitted to treat 24, 999.99 tonnes per year.

The entire plant is controlled automatically by a Programmable Logic Controller (PLC) through a profibus network with Supervisory Control and Data Acquisition (SCADA) provision which allows the system to be monitored remotely by Council staff. Ultrasonic sensors and float switches are fitted to all tanks to measure the water level and send alarms should high levels be detected.

2.3 Hydrogeology

Hydrogeology investigations were carried out as part of the preparation of the Closure Report in 2007. As the Leachate Treatment Plant is located on this site the same hydrogeology conditions apply.

The site's geology has been determined through a study of information made available by the Geological Survey of Northern Ireland (GSNI) and a number of boreholes drilled in April 1996 and between April and June 2007.

The bedrock underlying the area is ancient, crystalline, metamorphic basement, of Dalradian age and it is deformed structurally by the Caledonian orogeny giving the terrain its dominant northeast-southwest grain direction. Lough Foyle is underlain by a deep sedimentary basin, infilled with younger strata including rocks of Carboniferous, Triassic and Jurassic age. Only Carboniferous sandstones extended inland and these only for a short distance.

During the Pleistocene period, ice deposited glacial debris on the lower ground, mostly in the form of till (Boulder Clay). Subsequently, in the late glacial or immediate post glacial times, raised beach deposits of course gravel and sand were placed on and above what are now the shores of Lough Foyle. Since glacial times fine-grained alluvium (mostly silt) has been deposited on the floodplains of streams along the shore, whilst in the estuary, marine clays have accumulated, extending slightly inland.

The Culmore site is believed to be underlain by marine clay. At the western side of the site, the marine clay thickens to form a low natural embankment. This rises at the side of a narrow inlet from the Lough, which also bounds the site to the west. Beyond the clay embankment to the west of the site there is a ridge of permeable sands/gravels, with alluvium and till running inland beyond this ridge.

The main hydrology concern is the tidal influence of the River Foyle and its estuary, which form the eastern and northern boundaries of the site. A narrow inlet from the Lough is evident along a section of the western boundary of the site.

The sand and gravel deposits form a shallow minor local aquifer. The water table generally lies within the waste materials. The bedrock in the area is classified as a Class B aquifer indicating moderate permeability. There are no known records of bedrock abstraction wells in the vicinity of the site.

The site location is of significant importance as it is situated on the banks of Lough Foyle which has a number of designations; Special Protection Area (SPA), Ramsar Site, and Area of Special Scientific Interest (ASSI). The landfill site is situated on the boundary of these designations.

2.4 Hydrology

As mentioned earlier, the main hydrology concern is the tidal influence of the River Foyle and its estuary and the small stream which runs along the western boundary of the site. The Leachate Treatment Plant does not hold any consents to discharge under the Water Order (Northern Ireland) 1999 but the now restored landfill site previously held five such consents numbers CN 101/11/2, CN 102/11/2, CN 103/11/2, CN 104/11/2 and CN 105/11/2 which were revoked by NIEA Water Management Unit following a post-restoration site review. The restoration works and in particular the installation of a Geosynthetic Clay Liner (GCL) on top of the landfill has limited the amount of rainwater entering the waste mass reducing leachate generation. This rainwater is prevented from becoming contaminated and is diverted into Lough Foyle through a network of drainage pipes.

The facility holds a Trade Effluent Discharge Consent with Northern Ireland Water (NIW) which allows treated leachate to be discharged to the nearby Culmore Wastewater Treatment Works.

2.5 Environmentally Sensitive Areas

Lough Foyle is designated a Natura 2000 and Special Protection Area under Article 4.1 of the EC Directive 79/409 on the Conservation of Wild Birds, by regularly supporting, in winter, internationally important numbers of Whooper Swan, Light bellied Brent Goose and Bar-tailed Godwit. Also, it qualifies under Article 4.2 of the Directive by supporting over 20,000 migratory wildfowl.

In addition, the site is designated as a Ramsar site and as an Area of Special Scientific Interest. The location of the Leachate Treatment Plant within the site means that it is not in close proximity to these areas. The PPC permitted site is surrounded with an impermeable, reinforced concrete bund designed to retain 110% of the tanks capacity and therefore any spillages will be prevented from impacting on protected areas. The plant has also been

located where ground levels are a couple of meters lower than the surrounding lands which means that any potential impact caused by the plant on wildlife is reduced.

2.6 Current Site Operations

Schedule 1 of the PPC Permit specifies the operations on site as the disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by biological treatment. Directly associated activities involve the receipt, storage and handling of waste as well as the export of treated leachate.

Raw leachate, EWC 19 07 02, from the landfill site collects in each of the seven sumps and three vertical boreholes before being pumped to the glass lined treatment tank for primary treatment after which it is discharged to the nearby Culmore Wastewater Works via a pumping main for further treatment.

In total there was 3,593 m3 of leachate treated and discharged at the site during 2024. Quarterly waste returns have been submitted to NIEA Waste Returns Section and a summary is provided below:

Quarter	**Waste Received on Site**		**Waste Removed from Site**	
	EWC Waste Code	**Volume (m3)**	**EWC Waste Code**	**Volume (m3)**
Q1 2024 January, February, March	19 07 02	1,223	16 10 02	1,223
Q2 2024 April, May, June	19 07 02	790	16 10 02	790
Q3 2024 July, August, September	19 07 02	395	16 10 02	395
Q4 2021 October, November, December	19 07 02	1,185	16 10 02	1,185

2.7 Pre-operational Measures and Improvement Conditions

No pre-operational measure or improvement conditions have occurred during the monitoring period.

3. EMISSIONS

3.1 Emissions – Permit Conditions

This report has been prepared to satisfy Permit P0380/11A/V1.

Emissions from the site are covered in Schedule 4 of the permit and cover emissions to sewer and air. The monitoring frequency for emissions to sewer is quarterly with an annual report to be submitted by 31st January after the monitoring period. The location of the monitoring points is shown in Appendix 3.

Schedule 4 of Permit P0380/11A/V1 also details that point source emissions to air can arise from the vent on the sodium hydroxide bulk storage tank as well as from inspection hatches on raw leachate balance tank and Sequence Batch Reactor (SBR) treatment tank.

3.2 Emissions - Results and Discussion

Schedule 4 of Permit P0380/11A/V1 outlines the monitoring requirements for the site. These include monitoring of point source emissions to Sewer and monitoring of point source emissions to air.

The emission monitoring point to sewer is the Treated Leachate Discharge Point, the location of which is shown in Appendix 3. The monitoring frequency specified in the permit is quarterly and is conducted by taking a grab sample from the treated effluent sump prior to it discharging to sewer. Samples taken are sent to a UKAS accredited laboratory for analysis. Analysis certificates are included as Appendix 4. The parameters tested are those listed in Table S4.1 of Permit P0380/11A/V1. Limits for each parameter are also outlined in the permit and have been included in the table below.

	Parameter	Units	2024				PPC Limit
			Q1 20/03/2024	Q2 11/04/2024	Q3 15/08/2024	Q4 27/11/2024	
1	Ammonia as N	mg/l	<0.55	<0.11	< 0.11	0.11	100mg/l
2	Cadmium (tot.unfilt)	ug/l	<0.5	<0.5	<0.976	<0.976	10mg/l
3	Chromium (tot.unfilt)	ug/l	<3	<3	<4.058	<4.058	
4	Copper (tot.unfilt)	ug/l	2.26	3.15	<7.918	<7.918	
5	Lead (tot.unfilt)	ug/l	<1	<1	<0.257	0.59	
6	Mercury (tot.unfilt)	ug/l	<0.02	<0.02	<0.01	<0.02	
7	Nickel (tot.unfilt)	ug/l	2.23	2.36	<1.739	2.07	
8	Zinc (tot.unfilt)	ug/l	34.2	19.7	83.1	38.4	
9	Chloronitrotoluenes	ug/l	<5	<5	5	<5	0.2mg/l
10	COD (Total)	mg/l	29.0	32	<25	<25	600mg/l
11	Nonyl phenol	ug/l	<0.050	0.47	<0.100	<0.050	0.07mg/l
12	Octyl phenol	ug/l	<0.010	<0.050	<0.050	<0.050	0.03mg/l

13	pH	Units	8.17	8.27	8.03	8.11	≥6 and ≤9
14	Suspended Solids	mg/l	10	13	8	21	120mg/l
15	1,2,3-Trichlorobenzene	ug/l	< 1.0	< 1	< 1	<1	0.2mg/l
16	1,2,4-Trichlorobenzene	ug/l	< 0.10	< 1	<1	<1	0.2mg/l
17	1,2-Dichloroethane	ug/l	< 2.0	< 1.0	<1	<1	0.2mg/l
18	Anthracene	ug/l	< 1	< 1	<1	< 1	0.03mg/l
19	Benzene	ug/l	< 1	< 1	< 1.0	< 1	0.2mg/l
20	Bis(2-Ethylhexyl)Phthalate	ug/l	< 2	< 2	<2	< 2	0.3mg/l
21	Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	0.25mg/l
22	Diazinon	ug/l	< 0.02	< 0.01	<0.02	< 0.02	0.005mg/l
23	Endosulfan I	ug/l	< 0.1	< 0.01	<0.01	< 0.05	0.01ng/l
24	Fluoranthene	ug/l	< 0.1	< 1		< 1	0.03mg/l
25	Hexachlorobutadiene	ug/l	< 1	< 1	< 1	< 1	0.05mg/l
26	Mecoprop	ug/l	<20	<4	<4	<4	0.2mg/l
27	Naphthalene	ug/l	< 1	< 1	< 1	< 1	0.5mg/l
28	Phenol	ug/l	< 1	< 1	<1	< 1	0.15mg/l
29	Tetrachloroethene	ug/l	< 1	< 1.0	< 1.0	< 1.0	0.2mg/l
30	Triazophos	ug/l	< 0.02	< 0.01	< 0.02	< 0.02	0.001mg/l
31	Tributyl Tin	ug/l	< 0.6	< 12	<6	< 1	0.001ng/l
32	Trichloroethene	ug/l	< 1	< 1.0	< 1.0	< 1.0	0.2mg/l
33	Trifluralin	ug/l	< 0.1	< 0.01	<0.01	< 0.05	0.01mg/l
34	Diuron	mg/l	< 0.10	< 0.10	<0.1	<0.10	0.05mg/l
35	Isoproturon	mg/l	< 0.10	< 0.10	<0.1	<0.10	0.06mg/l
36	Linuron	mg/l	< 0.10	< 0.10	<0.1	<0.10	0.1mg/l

Results for all parameters have been provided across the four monitoring periods.

Sample results provided for emissions to sewer for parameters 1 – 12, Suspended Solids to Chloronitrotoluenes, are all below the limits set by permit P0380/11A/V1.

Parameters 24 – 36 listed in the table above are all within the limits set by the permit as are Trifluralin, Mecoprop, Anthracene, Fluoranthene and Napthalene.

Schedule 4 of Permit P0380/11A/V1 also details that point source emissions to air can arise from the vent on the sodium hydroxide bulk storage tank as well as from inspection hatches on raw leachate balance tank and Sequence Batch Reactor (SBR) treatment tank.

No sodium hydroxide is stored on site as the current pH of the incoming leachate does not need to be adjusted to aid the treatment process. No emissions to air have therefore occurred in relation to the storage of sodium hydroxide. If this situation changes any abatement measures will be considered.

Opening the inspection hatches on the raw leachate tank and Sequence Batch Reactor (SBR) treatment tank have also been identified as point source emissions to air. The hatch on the SBR tank has remained closed during the monitoring period therefore no emissions will have occurred. Manhole lids are removed when necessary to facilitate inspection and maintenance arrangements. This is typically carried out in the presence of the OCC holder for the site and visual and olfactory monitoring is utilised to determine any emissions. During the monitoring period no emissions were detected.

3.3 Emissions – Conclusions

Results provided for the majority of specified parameters concerning emissions to sewer are below the limits outlined in the permit. As mentioned in 3.2 there are some parameter limits which are lower than the laboratory's reporting limit therefore it cannot be determined if these parameters were below the limit detailed in the permit.

As the permitted facility discharges to sewer, a discharge consent has been issued by Northern Ireland Water (NIW). To ensure the discharge is compliant with this consent NI Water collect and analyse their own samples from the sewer emission monitoring point at a frequency of six times per year completed on a bi-monthly basis. NI Water have deemed the effluent discharged from the plant to be compliant with this consent during the latest monitoring period as all parameters were within consent conditions. The Annual NI Water Trade Effluent Compliance Report is provided in Appendix 5.

There have not been any significant difficulties with completing the monitoring required during the monitoring period. The omission of results for some parameters for quarter three in relation to the sewer emissions was addressed and results for all parameters are available for the remaining quarters.

No emissions to air have been detected during the monitoring period.

4. PERFORMANCE PARAMETERS

4.1 Performance Parameters – Permit Conditions

The performance parameters for Culmore (Closed) Landfill Site Leachate Treatment Plant are listed in Schedule 5, Table S5.2 of Permit P0380/11A/V1.

Four performance parameters require assessment and these are:

1. Quantity of leachate treated
2. Water usage
3. Energy used
4. Waste Returns

4.2 Performance Parameters – Results and Discussion

Results for the performance parameters outlined in 4.1 are provided in the table below.

Parameter	Frequency of assessment	Quantity	Units
Quantity of leachate treated	Annually	3,593	m3
Water Usage	Annually	0	m3
Energy used	Annually	38,790	kWh
Waste returns	Annually	3,593	m3

The quantity of leachate treated is measured using a flow meter positioned on the pipework leading from the Treated Effluent monitoring point to the connection into the sewer. Leachate volumes are measured in cubic metres and figures are reported through quarterly waste returns. The quantity treated during the monitoring period was 3,593 m3.

4.3 Performance Parameters – Conclusions

During the monitoring period 3,593 m3 of leachate was treated, 0 m3 of water was used and electricity usage was 38,790 kWh.

Energy usage will continue to be monitored in forthcoming monitoring periods. As the source of electricity is derived from the combustion of landfill gas this negates the use of fossil fuels to generate electricity and could therefore be viewed as a relatively green fuel source despite it not being renewable.

There have not been any issues encountered in the compilation of data to assess the performance parameters in this monitoring period.

5. ANNUAL PRODUCTION / TREATMENT RETURNS

5.1 Annual Production / Treatment Returns - Permit Conditions

Schedule 1, Table S1.4 of Permit P0380/11A/V1 specifies the total annual waste input limit of landfill leachate to be 24,999.99 tonnes per annum.	

5.3 Annual Production / Treatment Returns - Results and Discussion

Waste returns for the year have been completed and submitted on time to NIEA Waste Returns Section within one month following quarter end. For the monitoring period covered by this report, 3,593 m3 of leachate was collected and treated. This figure is well within the total annual waste input of 24, 999.99 tonnes specified by Permit P0380/11A/V1.

5.4 Annual Production / Treatment Returns – Conclusions

During the monitoring period, 3,593m3 of leachate was treated at the facility. The plant is optimised to treat available leachate however as the amount of leachate treated is dependent on the availability of leachate within the waste mass which is influenced by environmental and climatic factors it is not possible to take direct action to modify or improve this quantity.

6. OTHER CONDITIONS

Odour and noise and vibration monitoring requirements are outlined in Section 4 of Permit P0380/11A/V1.

Odour, particulate matter, deposited dust, noise and/or vibration are monitored proactively by the OCC holder through regular site inspections of the facility. No concerns have been noted in relation to these factors during the monitoring period.

There have not been any complaints in relation to odour, particulate matter, deposited dust, noise and/or vibration during the monitoring period.

7. ADDITIONAL MANDATORY INFORMATION

Derry City and Strabane District Council confirm that the required financial provision to operate, maintain and monitor the plant is available. The financial provision for the leachate treatment plant has been included in the wider financial provision calculations for the closed landfill and has been carried out in accordance with NIEA Guidance Document, 'Financial Provision for Waste Management Activities in Northern Ireland'.

[redacted] Waste Services Officer, as a holder of WAMITAB Operators Competence Certificate (OCC) HROC3 is the technically competent person with responsibility for operating the plant. The competent person carries out inspections of the facility and also monitors remotely using the SCADA provision.

Council have not received any complaints about the facility during the monitoring period.

No Schedule 6 notifications have been made to NIEA during the monitoring period.

No weather data is being recorded at the site.

A maintenance contract has been put in place for the plant with a specialist contractor to ensure that the equipment remains in optimal working order and to address any breakdowns or faults.

8. CONCLUSIONS & RECOMMENDATIONS

During the monitoring period, January to December 2024, all monitoring was completed in compliance with the conditions of Permit P0380/11A/V1. Results for monitoring emissions to sewer have been below the limits specified by the permit. No significant issues with completing monitoring were encountered.

In total for 2024, 3,593 m3 of leachate was treated by the plant and waste returns have been submitted to NIEA Waste Returns Section on a quarterly basis.

With regards to amending monitoring parameters or limits, it may be beneficial to review the limits for those parameters where the limit set is below the laboratory's reporting threshold as it is not always possible to identify if the limit has been exceeded.

Close monitoring of the facility will continue into the next monitoring period by the OCC holder in accordance with permit conditions and pre-existing communication channels will be maintained with NIEA about the operation of the plant and in the event of any issues arising.

9. NEXT ANNUAL MONITORING REPORT

In accordance with Schedule 5 of Permit P0380/11A/V1 the next annual report will be due on 31st January after the monitoring period which will be 31st January 2025.

10. REFERENCES

- Culmore Landfill Site Closure Report, Final, 03/08/2007, RPS
- Culmore Landfill Site Financial Provision, Final, 08/09/2010, RPS

11. APPENDICES

Appendix 1 – Site Layout

Appendix 2 – Site Location Map

Appendix 3 – Location of Monitoring Points

Appendix 4 – Laboratory Analysis Certificates

Appendix 5 – Northern Ireland Water Annual Compliance Report

Annual Environmental Monitoring Report

NIEA Template for Non-Landfill Operators (Issue Date: Dec 2018, Version 2)

For Non-Landfill installations permitted under the Pollution Prevention and Control (Industrial Emissions) Regulations Northern Ireland 2013

NOTE TO THE OPERATOR – PLEASE READ BEFORE USING THIS TEMPLATE

(a) This report should be completed with reference to the monitoring conditions detailed in the permit for the site.

(b) When completing this template, it is recommended that:

- All sections in the template should be included even if only to confirm that those sections are not relevant to the site and the reasons for this.
- All tabulated information should be included within the text of the report at the appropriate point.
- All data from the monitoring period should be provided in summary tables in the report appendices for review. Laboratory results sheets may be provided in addition but not instead of summary tables.
- Graphical representation of trends should be clearly titled, with units and trigger limits indicated. Graphs should not be over complicated; data from numerous monitoring points should be separated into relevant subsets for clarity in showing data trends.
- One figure or drawing can provide the information for more than one of the requirements as long as the information is clear.
- Details of any permit non-compliances or incidents should be provided together with explanatory information and remedial actions.
- All drawings to be to recognised scales and sufficient to show the following details as specified. Each drawing should have a label that includes:
    - Title of drawing
    - Installation name
    - Name and address of the operator
    - Date the drawing was made
    - Drawing identification number
    - Scale of the Drawing
    - Identification numbers must be included for each monitoring point
- **NB** - The full monitoring data sets for each monitoring requirement should be provided in separate Appendices to the report in an easily reviewable format. This should also include time series graphs to demonstrate trends in the data.

  Laboratory results may be provided in addition to summary tables. These may be submitted in electronic format.

  One hard copy of the report should be submitted together with an electronic copy (if available).

Contents

Glossary of Terms

Term	Meaning / Definition
TLAs	Three Letter Acronyms: to be replaced with your own terms

1. INTRODUCTION

1.1 Background

Culmore Leachate Treatment Plant is operated by Derry City and Strabane District Council in accordance with the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013 under Permit Number P0380/11A/V1.

This report was completed by [redacted] Waste Services Officer with Derry City and Strabane District Council and the Operator Competence Certificate holder for the site.

The Leachate Treatment Plant forms part of the Culmore (Closed) Landfill Site WML 13/16 LN/08/24/C which is operated by Derry City and Strabane District Council since 1971. The landfill is located on land that had previously been reclaimed from the sea for agricultural usage. However, following a breach of the sea defences the area had reverted to tidal mudflats. The site was filled from the southern perimeter, infilling moving progressively northwards. Culmore Landfill Site has no engineered cells and has been designed on the principle of "dilute and disperse" and relies on the slow release of leachate by various attenuation mechanisms. The total area of the site is approximately 40 hectares and can be subdivided into a number of different areas, based on the history of infilling:

1. Approximately five hectares in the southern area have been top soiled and restored to grassland following completion of landfilling and are occasionally used for rough pasture. This area was closed and restored to agricultural use in 1983 in accordance with the 1982 Council Waste Disposal Resolution.
2. The north-western area was divided into tidal lagoons which were edged by earthen and rock-fill bunds. In 1998 the Environment and Heritage Service issued a directive which prohibited the Council from infilling these lagoons. The area was subsequently added to the adjacent ASSI area. In order to compensate for this loss of fill space Council was permitted to overfill the already land filled section of the site and these overfilling operations continued to March 2007.

A site layout is included in Appendix 1.

The site is accessed via a tarmac road which runs into the site in a west-to-east direction from the Coney Road before turning north towards the centre of the site. A site office is located at the entrance to the site which is secured by lockable gates.

As the landfill site was not an engineered site the Closure Licence specified that a leachate treatment plant be installed to manage leachate generation and escape from the site into the surrounding Lough Foyle. The leachate treatment plant was installed as part of the wider restoration and capping of the landfill site which took place between January 2013 and October 2016 and is regulated through its own PPC Permit.

Planning permission was granted for the Leachate Treatment Plant on 28th February 2012 with the PPC permit issued on 19th December 2012.

1.2 Scope and Objective

The main objective of the report is to communicate the monitoring data for the year as required by Schedule 5 of the permit. This report covers the eighth operational year of the facility from January to December 2025. The plant operates continuously 24 hours a day, 7 days per week and is controlled by a Programmable Logic Controller (PLC). The OCC holder and technically competent person for the site monitors the daily operation of the site.

1.3 Terms of Reference

As mentioned in 1.2 above this is the ninth Annual Environmental Monitoring Report as 2017 was the first operational year of the plant. The site holds PPC Permit P0380/11A/V1 and the only activity on site has been the collection and treatment of leachate from the landfill site.

1.4 Limitations of the Review

This report provides all the available monitoring data for the period January to December 2025. No restrictions or limitations were encountered during the monitoring period.

2. SITE CHARACTERISTICS

2.1 Site Location

Culmore Landfill Site and accompanying Leachate Treatment Plant is located approximately 1.5 km off the A2 Derry to Muff Road. It is located approximately 6 km northeast of Derry City Centre and 1 km from the main clustering of houses at Culmore. The site is accessed via an entrance from the Coney Road. The grid reference for the site entrance is OS IGR C 4760, 2385 and for the centre of the site is C 4800, 2400. A site location map has been provided in Appendix 2.

The potential receptors close to the site include both residential and agricultural properties and water courses including the Foyle Estuary and are summarised below:

Receptor Name	Receptor Type	Minimum Distance (from boundary to closest receptor)	Directions from Site
Cluster A	Cluster of Residential Properties	2 m	West
House B	Residential Property	31 m	South West
House C	Residential Property	30 m	South West
Cluster D	Cluster of Residential Properties	60 m	West
Cluster E	Cluster of Residential Properties	79 m	West
House F	Residential Property	170 m	West North West
House G	Residential Property	400 m	South west
House H	Residential Property	460 m	South West
River Foyle	River	6 m	North East

2.2 Installation details

The Leachate Treatment System comprises of a 300mm toe-drain installed around the perimeter of the site which drains under gravity to seven collection tanks distributed around the site. Collected leachate is pumped from these tanks to a treatment tank located 125m east of the site entrance. In addition to these tanks, pumps are also installed in vertical boreholes to collect leachate not intercepted by the perimeter drains. The collected leachate undergoes primary treatment onsite before being pumped via a pumping main to the nearby Culmore Wastewater Treatment works for final treatment. The system uses an aerator to increase oxygen levels to enable nitrification processes within the tank to take place. The main treatment tank is a 9.38 m diameter 4.26 m high glass lined steel tank and sits within an impermeable, reinforced concrete bund designed to hold 110% of the capacity of the tank. The tank is covered with a roof and a ladder on the side of the tank enables access for inspection and maintenance. On top of the bund walls sits a 2.8 m high close boarded absorbent acoustic barrier which screens the site visually and also reduces noise.

The treatment system is permitted to treat 24, 999.99 tonnes per year.

The entire plant is controlled automatically by a Programmable Logic Controller (PLC) through a profibus network with Supervisory Control and Data Acquisition (SCADA) provision which allows the system to be monitored remotely by Council staff. Ultrasonic sensors and float switches are fitted to all tanks to measure the water level and send alarms should high levels be detected.

2.3 Hydrogeology

Hydrogeology investigations were carried out as part of the preparation of the Closure Report in 2007. As the Leachate Treatment Plant is located on this site the same hydrogeology conditions apply.

The site's geology has been determined through a study of information made available by the Geological Survey of Northern Ireland (GSNI) and a number of boreholes drilled in April 1996 and between April and June 2007.

The bedrock underlying the area is ancient, crystalline, metamorphic basement, of Dalradian age and it is deformed structurally by the Caledonian orogeny giving the terrain its dominant northeast-southwest grain direction. Lough Foyle is underlain by a deep sedimentary basin,

infilled with younger strata including rocks of Carboniferous, Triassic and Jurassic age. Only Carboniferous sandstones extended inland and these only for a short distance.

During the Pleistocene period, ice deposited glacial debris on the lower ground, mostly in the form of till (Boulder Clay). Subsequently, in the late glacial or immediate post glacial times, raised beach deposits of course gravel and sand were placed on and above what are now the shores of Lough Foyle. Since glacial times fine-grained alluvium (mostly silt) has been deposited on the floodplains of streams along the shore, whilst in the estuary, marine clays have accumulated, extending slightly inland.

The Culmore site is believed to be underlain by marine clay. At the western side of the site, the marine clay thickens to form a low natural embankment. This rises at the side of a narrow inlet from the Lough, which also bounds the site to the west. Beyond the clay embankment to the west of the site there is a ridge of permeable sands/gravels, with alluvium and till running inland beyond this ridge.

The main hydrology concern is the tidal influence of the River Foyle and its estuary, which form the eastern and northern boundaries of the site. A narrow inlet from the Lough is evident along a section of the western boundary of the site.

The sand and gravel deposits form a shallow minor local aquifer. The water table generally lies within the waste materials. The bedrock in the area is classified as a Class B aquifer indicating moderate permeability. There are no known records of bedrock abstraction wells in the vicinity of the site. The site location is of significant importance as it is situated on the banks of Lough Foyle which has a number of designations; Special Protection Area (SPA), Ramsar Site, and Area of Special Scientific Interest (ASSI). The landfill site is situated on the boundary of these designations.

2.4 Hydrology

As mentioned earlier, the main hydrology concern is the tidal influence of the River Foyle and its estuary and the small stream which runs along the western boundary of the site. The Leachate Treatment Plant does not hold any consents to discharge under the Water Order (Northern Ireland) 1999 but the now restored landfill site previously held five such consents numbers CN 101/11/2, CN 102/11/2, CN 103/11/2, CN 104/11/2 and CN 105/11/2 which were revoked by NIEA Water Management Unit following a post-restoration site review. The restoration works and in particular the installation of a Geosynthetic Clay Liner (GCL) on top of the landfill has limited the amount of rainwater entering the waste mass reducing leachate generation. This rainwater is prevented from becoming contaminated and is diverted into Lough Foyle through a network of drainage pipes.

The facility holds a Trade Effluent Discharge Consent with Northern Ireland Water (NIW) which allows treated leachate to be discharged to the nearby Culmore Wastewater Treatment Works.

2.5 Environmentally Sensitive Areas

Lough Foyle is designated a Natura 2000 and Special Protection Area under Article 4.1 of the EC Directive 79/409 on the Conservation of Wild Birds, by regularly supporting, in winter, internationally important numbers of Whooper Swan, Light bellied Brent Goose and Bar-tailed Godwit. Also, it qualifies under Article 4.2 of the Directive by supporting over 20,000 migratory wildfowl.

In addition, the site is designated as a Ramsar site and as an Area of Special Scientific Interest. The location of the Leachate Treatment Plant within the site means that it is not near these areas. The PPC permitted site is surrounded with an impermeable, reinforced concrete bund designed to retain 110% of the tanks capacity and therefore any spillages will be prevented from impacting on protected areas. The plant has also been located where ground levels are a couple of meters lower than the surrounding lands which means that any potential impact caused by the plant on wildlife is reduced.

2.6 Current Site Operations

Schedule 1 of the PPC Permit specifies the operations on site as the disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by biological treatment. Directly associated activities involve the receipt, storage and handling of waste as well as the export of treated leachate.

Raw leachate, EWC 19 07 02, from the landfill site collects in each of the seven sumps and three vertical boreholes before being pumped to the glass lined treatment tank for primary treatment after which it is discharged to the nearby Culmore Wastewater Works via a pumping main for further treatment.

In total there was 6679 m3 of leachate treated and discharged at the site during 2025. Quarterly waste returns have been submitted to NIEA Waste Returns Section and a summary is provided below:

Quarter	**Waste Received on Site**		**Waste Removed from Site**	
	EWC Waste Code	**Volume (m3)**	**EWC Waste Code**	**Volume (m3)**
Q1 2024 January, February, March	19 07 02	1716.26	16 10 02	1716.26
Q2 2024 April, May, June	19 07 02	432.21	16 10 02	432.21
Q3 2024 July, August, September	19 07 02	787.79	16 10 02	787.79
Q4 2021 October, November, December	19 07 02	3743	16 10 02	3743

2.7 Pre-operational Measures and Improvement Conditions

No pre-operational measure or improvement conditions have occurred during the monitoring period.

3. EMISSIONS

3.1 Emissions – Permit Conditions

This report has been prepared to satisfy Permit P0380/11A/V1.

Emissions from the site are covered in Schedule 4 of the permit and cover emissions to sewer and air. The monitoring frequency for emissions to sewer is quarterly with an annual report to be submitted by 31st January after the monitoring period. The location of the monitoring points is shown in Appendix 3.

Schedule 4 of Permit P0380/11A/V1 also details that point source emissions to air can arise from the vent on the sodium hydroxide bulk storage tank as well as from inspection hatches on raw leachate balance tank and Sequence Batch Reactor (SBR) treatment tank.

3.2 Emissions - Results and Discussion

Schedule 4 of Permit P0380/11A/V1 outlines the monitoring requirements for the site. These include monitoring of point source emissions to Sewer and monitoring of point source emissions to air.

The emission monitoring point to sewer is the Treated Leachate Discharge Point, the location of which is shown in Appendix 3. The monitoring frequency specified in the permit is quarterly and is conducted by taking a grab sample from the treated effluent sump prior to it discharging to sewer. Samples taken are sent to a UKAS accredited laboratory for analysis. Analysis certificates are included as Appendix 4. The parameters tested are those listed in Table S4.1 of Permit P0380/11A/V1. Limits for each parameter are also outlined in the permit and have been included in the table below.

	Parameter	Units	2025				PPC Limit
			Q1 13/03/2025	Q2 19/06/2025	Q3 17/09/2025	Q4 11/12/2025	
1	Ammonia as N	mg/l	<0.11	<0.55	< 0.11	3.44	100mg/l
2	Cadmium (tot.unfilt)	ug/l	<0.976	<0.5	<0.5	<0.976	10mg/l
3	Chromium (tot.unfilt)	ug/l	<4.058	<3	<3	<4.058	
4	Copper (tot.unfilt)	ug/l	<7.918	3.57	6.73	<7.918	
5	Lead (tot.unfilt)	ug/l	0.63	<1	<1	0.43	
6	Mercury (tot.unfilt)	ug/l	<0.02	<0.02	<0.02	<0.02	
7	Nickel (tot.unfilt)	ug/l	2.84	2.96	2.5	4.22	
8	Zinc (tot.unfilt)	ug/l	<34.667	13.3	23.7	<34.667	
9	Chloronitrotoluenes	ug/l	<1	<5	<1	<5	0.2mg/l
10	COD (Total)	mg/l	26.0	34	42.0	<25	600mg/l
11	Nonyl phenol	ug/l	<0.050	0.47	<0.050	<0.050	0.07mg/l
12	Octyl phenol	ug/l	<0.010	<0.050	<0.050	<0.050	0.03mg/l
13	pH	Units	8.16	8.24	7.72	7.56	≥6 and ≤9
14	Suspended Solids	mg/l	25	18	51	15	120mg/l
15	1,2,3-Trichlorobenzene	ug/l	< 1	< 1	< 1	<1	0.2mg/l
16	1,2,4-Trichlorobenzene	ug/l	< 1	< 1	<1	<1	0.2mg/l
17	1,2-Dichloroethane	ug/l	< 1	< 1.0	<1	<1	0.2mg/l
18	Anthracene	ug/l	< 1	< 1	<1	< 1	0.03mg/l
19	Benzene	ug/l	< 1	< 1	< 1.0	< 1	0.2mg/l
20	Bis(2-Ethylhexyl)Phthalate	ug/l	< 2	< 2	<2	< 2	0.3mg/l
21	Carbon Tetrachloride	ug/l	< 1	< 1	< 1	< 1	0.25mg/l
22	Diazinon	ug/l	< 0.5	< 0.01	<0.05	< 0.02	0.005mg/l
23	Endosulfan I	ug/l	< 0.02	< 2	<0.2	< 0.05	0.01ng/l
24	Fluoranthene	ug/l	< 1	< 1	<1	< 1	0.03mg/l
25	Hexachlorobutadiene	ug/l	< 1	< 1	< 1	< 1	0.05mg/l
26	Mecoprop	ug/l	<4	<0.2	<4	<0.04	0.2mg/l
27	Naphthalene	ug/l	< 1	< 1	< 1	< 1	0.5mg/l
28	Phenol	ug/l	< 1	< 1	<1	< 1	0.15mg/l
29	Tetrachloroethene	ug/l	< 1	< 1.0	< 1.0	< 1.0	0.2mg/l
30	Triazophos	ug/l	< 0.5	< 0.01	< 0.05	< 0.02	0.001mg/l
31	Tributyl Tin	ug/l	< 1	< 1	<1	< 1	0.001ng/l
32	Trichloroethene	ug/l	< 1	< 1.0	< 1.0	< 1.0	0.2mg/l
33	Trifluralin	ug/l	< 0.02	< 2	<0.2	< 0.05	0.01mg/l
34	Diuron	mg/l	< 0.10	< 1	<0.1	<0.50	0.05mg/l
35	Isoproturon	mg/l	< 0.10	< 1	<0.1	<0.50	0.06mg/l
36	Linuron	mg/l	< 0.10	< 1	<0.1	<0.50	0.1mg/l

Results for all parameters have been provided across the four monitoring periods.

Sample results provided for emissions to sewer for parameters 1 – 12, Suspended Solids to Chloronitrotoluenes, are all below the limits set by permit P0380/11A/V1.

Parameters 24 – 36 listed in the table above are all within the limits set by the permit as are Trifluralin, Mecoprop, Anthracene, Fluoranthene and Napthalene.

Schedule 4 of Permit P0380/11A/V1 also details that point source emissions to air can arise from the vent on the sodium hydroxide bulk storage tank as well as from inspection hatches on raw leachate balance tank and Sequence Batch Reactor (SBR) treatment tank.

No sodium hydroxide is stored on site as the current pH of the incoming leachate does not need to be adjusted to aid the treatment process. No emissions to air have therefore occurred in relation to the storage of sodium hydroxide. If this situation changes any abatement measures will be considered.

Opening the inspection hatches on the raw leachate tank and Sequence Batch Reactor (SBR) treatment tank have also been identified as point source emissions to air. The hatch on the SBR tank has remained closed during the monitoring period therefore no emissions will have occurred. Manhole lids are removed when necessary to facilitate inspection and maintenance arrangements. This is typically carried out in the presence of the OCC holder for the site and visual and olfactory monitoring is utilised to determine any emissions. During the monitoring period no emissions were detected.

3.3 Emissions – Conclusions

Results provided for the majority of specified parameters concerning emissions to sewer are below the limits outlined in the permit. As mentioned in 3.2 there are some parameter limits which are lower than the laboratory's reporting limit therefore it cannot be determined if these parameters were below the limit detailed in the permit.

As the permitted facility discharges to sewer, a discharge consent has been issued by Northern Ireland Water (NIW). To ensure the discharge is compliant with this consent NI Water collect and analyse their own samples from the sewer emission monitoring point at a frequency of six times per year completed on a bi-monthly basis. NI Water have deemed the effluent discharged from the plant to be compliant with this consent during the latest monitoring period as all parameters were within consent conditions. The Annual NI Water Trade Effluent Compliance Report is provided in Appendix 5.

There have not been any significant difficulties with completing the monitoring required during the monitoring period. The omission of results for some parameters for quarter three in relation to the sewer emissions was addressed and results for all parameters are available for the remaining quarters.

No emissions to air have been detected during the monitoring period.

4. PERFORMANCE PARAMETERS

4.1 Performance Parameters – Permit Conditions

The performance parameters for Culmore (Closed) Landfill Site Leachate Treatment Plant are listed in Schedule 5, Table S5.2 of Permit P0380/11A/V1.

Four performance parameters require assessment, and these are:

1. Quantity of leachate treated
2. Water usage
3. Energy used
4. Waste Returns

4.2 Performance Parameters – Results and Discussion

Results for the performance parameters outlined in 4.1 are provided in the table below.

Parameter	Frequency of assessment	Quantity	Units
Quantity of leachate treated	Annually	6679	m3
Water Usage	Annually	0	m3
Energy used	Annually	39,781	kWh
Waste returns	Annually	6679	m3

The quantity of leachate treated is measured using a flow meter positioned on the pipework leading from the Treated Effluent monitoring point to the connection into the sewer. Leachate volumes are measured in cubic metres and figures are reported through quarterly waste returns. The quantity treated during the monitoring period was 6679 m3.

4.3 Performance Parameters – Conclusions

During the monitoring period 6679 m3 of leachate was treated, 0 m3 of water was used and electricity usage was 39,781 kWh.

Energy usage will continue to be monitored in forthcoming monitoring periods. As the source of electricity is derived from the combustion of landfill gas this negates the use of fossil fuels to generate electricity and could therefore be viewed as a relatively green fuel source despite it not being renewable.

There have not been any issues encountered in the compilation of data to assess the performance parameters in this monitoring period.

5. ANNUAL PRODUCTION / TREATMENT RETURNS

5.1 Annual Production / Treatment Returns - Permit Conditions

Schedule 1, Table S1.4 of Permit P0380/11A/V1 specifies the total annual waste input limit of landfill leachate to be 24,999.99 tonnes per annum.

5.3 Annual Production / Treatment Returns - Results and Discussion

Waste returns for the year have been completed and submitted on time to NIEA Waste Returns Section within one month following quarter end. For the monitoring period covered by this report, 6679 m3 of leachate was collected and treated. This figure is well within the total annual waste input of 24, 999.99 tonnes specified by Permit P0380/11A/V1.

5.4 Annual Production / Treatment Returns – Conclusions

During the monitoring period, 6679m3 of leachate was treated at the facility. The plant is optimised to treat available leachate however as the amount of leachate treated is dependent on the availability of leachate within the waste mass which is influenced by environmental and climatic factors it is not possible to take direct action to modify or improve this quantity.

6. OTHER CONDITIONS

Odour and noise and vibration monitoring requirements are outlined in Section 4 of Permit P0380/11A/V1.

Odour, particulate matter, deposited dust, noise and/or vibration are monitored proactively by the OCC holder through regular site inspections of the facility. No concerns have been noted in relation to these factors during the monitoring period.

There have not been any complaints in relation to odour, particulate matter, deposited dust, noise and/or vibration during the monitoring period.

7. ADDITIONAL MANDATORY INFORMATION

Derry City and Strabane District Council confirm that the required financial provision to operate, maintain and monitor the plant is available. The financial provision for the leachate treatment plant has been included in the wider financial provision calculations for the closed landfill and has been carried out in accordance with NIEA Guidance Document, 'Financial Provision for Waste Management Activities in Northern Ireland'.

[redacted] Waste Services Officer, as a holder of WAMITAB Operators Competence Certificate (OCC) HROC3 is the technically competent person with responsibility for operating the plant. The competent person carries out inspections of the facility and also monitors remotely using the SCADA provision.

Council have not received any complaints about the facility during the monitoring period.

No Schedule 6 notifications have been made to NIEA during the monitoring period.

No weather data is being recorded at the site.

A maintenance contract has been put in place for the plant with a specialist contractor to ensure that the equipment remains in optimal working order and to address any breakdowns or faults.

8. CONCLUSIONS & RECOMMENDATIONS

compliance with the conditions of Permit P0380/11A/V1. Results for monitoring emissions to sewer have been below the limits specified by the permit. No significant issues with completing monitoring were encountered.

In total for 2025, 6679 m3 of leachate was treated by the plant and waste returns have been submitted to NIEA Waste Returns Section on a quarterly basis.

With regards to amending monitoring parameters or limits, it may be beneficial to review the limits for those parameters where the limit set is below the laboratory's reporting threshold as it is not always possible to identify if the limit has been exceeded.

Close monitoring of the facility will continue into the next monitoring period by the OCC holder in accordance with permit conditions and pre-existing communication channels will be maintained with NIEA about the operation of the plant and in the event of any issues arising.

9. NEXT ANNUAL MONITORING REPORT

In accordance with Schedule 5 of Permit P0380/11A/V1 the next annual report will be due on 31st January after the monitoring period which will be 31st January 2027.

10. REFERENCES

- Culmore Landfill Site Closure Report, Final, 03/08/2007, RPS
- Culmore Landfill Site Financial Provision, Final, 08/09/2010, RPS

11. APPENDICES

Appendix 1 – Site Layout

Appendix 2 – Site Location Map

Appendix 3 – Location of Monitoring Points

Appendix 4 – Laboratory Analysis Certificates

Appendix 5 – NI Water returns to NIEA

CULMORE LANDFILL SITE

Legend

- Existing vegetation & scrub, to be retained.
- Existing rock armor & shingle, to be retained.
- Proposed native & ornamental species tree planting. (Refer to: Key - Tree Species & Table 2 & 3 Extra Heavy/Semi Mature Tree Planting)
- Native Woodland Mix. (Refer to: Table 1: Native Woodland Mix))
- Amenity Grass Mix areas for active/passive recreation. (Refer to: Table 5: Amenity Grass Seeding)
- Meadow Grass Mix with Wildflower. (Refer to: Table 6: Meadow Grass with Wildflower)
- Close mown Meadow Grass pathways. (Refer to: Table 6: Meadow Grass with Wildflower)
- Willow planting
- Proposed Hawthorn/Blackthorn Hedgerow. 1-1.5m Width. (Refer to: Table 4: Hedgerow Planting)
- Windbreak Shade Netting (s221) 1m height by 10m lengths. Knitted Polyethylene monofilament, fixed to timber stakes with metal staples. Stakes: 2,400 mm long round, 100 mm minimum diameter, pressure treated sawn larch, (preserved with water-borne copper-chrome-arsenic to I.S. 131, to a net dry salt retention of 5.3 kg per cubic metre of timber). 1600 mm to be left over ground.
- Proposed ground modeling contours @ 1m increments. (Refer to Engineers drawings)
- 6m
- Combined pedestrian/cyle paths. Footway Width: 3.0 & 4.0m
  - 25mm Wearing Course
  - 50mm Binder Course
  - 150mm Granular Sub Base (Type 3)
  - Layer of Tensar Geogrid TX170
  - Variable depth Granular Sub Base (Type 3)
  - Layer of Tensar Geogrid TX170 and Protection Geotextile
  - Edging: Precast Concrete Country Kerb, laid flush (width x height x length): 125 x 150 x 915mm. Radii of 15 m or less. To BS EN 1343 & Series 1100 Vol.1 Specification for Highways.
  - Note: full construction make-up to continue under kerbline and aprox 250mm beyond to reduce/combat uneven settlement
- Secondary Access pathways: RCP055: 100% Recycled mixed plastic Decking Boards, as supplied by British Recycled Products, or equal approved.
  - Dimensions: (width x height x length) 200 x 47 x 3250mm
  - Colour: Brown
  - Method of Fixing: Decking boards fixed to Tensar Geogrid SS40, or equal approved: Lay on 150mm Type 3 stone granular sub base: Lay on base layer of Tensar Geogrid SS40. Base layer of Tensar to be pinned to capping layer at required intervals.
  Boards to be laid **flush** with ground level and 'not' as raised walkways.
  - Boards spaced at 20mm joint widths.
  - Edging boards (to match) to be used full length of footways, flush with finished surface level.
- View point platforms: RCP055: 100% Recycled mixed plastic Decking Boards, as supplied by British Recycled Products, or equal approved.
  - Dimensions of platform: (diameter) 8 - 10m
  - Colour: Brown
  - Method of fixing: As per manufacturerers/engineers specification. Platform levels/finished height to be no greater than 120mm above existing ground level.
  - Boards spaced at 20mm joint widths.
  - Edging boards to match to be used around the perimeter with kicker-board.
- Bitumen Road Surface to DMRB Standards. (Manual of Contract Documents for Highways Works)
- Grasscrete: Cellular reinforced concrete system, as supplied by:
  Grass Concrete Limited
  Duncan House
  142 Thornes Lane
  Thornes
  Wakefield
  West Yorkshire
  WF2 7RE
  England
  Tel: +44 (0) 1924 379443 (or equal approved)
- Swales. (Refer to Engineers drawings for details to parking areas)
- Spiral sculptured earth mounding. (Approx height 4 metres)
- Proposed location for landmark public artwork.
- Bespoke paving pattern detail to viewing platform. SureSet Resin Bound Gravel Surfacing, or equal approved. Bespoke 450mm high x 600mm wide polished concrete wall surround, with radial seating timbers fixed to top surface (iroko/stainless steel).
- Seating: 15Nr - Broxap BX 2041-BP Riverside Seat, length 1800mm, weight 45kg. Base plate fixed. (or equal approved)
  Bins: 10Nr - Broxap BX17 4030 Okehampton Bin. (or equal approved)
- Proposed Public Facility Building/Information Center, subject to separate planning approval.
- Wing Walls and Piers to gated entrance: Natural Stone walling with recessed mortar pointing, natural stone coping to wall & piers, aprox 1.2-1.4m height.
- 2,4m High Fence Line. (Details to be submitted for approval by the Department prior to erection)
- Onsite Landfill Infrastructure Plant/Buildings, subject to separate planning approval. (Planning Application Reference - A /2009/ 0844/F & A /2010/ 0393/F)
- Proposed bird hide. (Details to be submitted for approval by the Department prior to erection)
- Views out of Parkland Area.
- Red Line boundary
- Previously Planted Woodland Mix

Key: Tree Species

- Aesculus hippocastanum (Horse Chestnut) 'Semi Mature'
  Aesculus hippocastanum (Horse Chestnut) 'Extra Heavy Standard'
- Alnus glutinosa (Common Alder) 'Semi Mature'
  Alnus glutinosa (Common Alder) 'Extra Heavy Standard'
- Betula pendula (Silver Birch) 'Semi Mature'
  Betula pendula (Silver Birch) 'Extra Heavy Standard'
- Sorbus acuparia (Rowan) 'Semi Mature'
  Sorbus acuparia (Rowan) 'Standard'
- Picea sitchensis (Sitka Spruce) 'Semi Mature'
  Picea sitchensis (Sitka Spruce) 'Extra Heavy Standard'
- Pinus sylvestris (Scots Pine) 'Semi Mature'
  Pinus sylvestris (Scots Pine) 'Extra Heavy Standard'
- Quercus robur (Oak) 'Semi Mature'
  Quercus robur (Oak) 'Extra Heavy Standard'
  Quercus robur 'Fastigaita Koster' (Oak) 'Extra Heavy Standard'
- Salix alba (Willow) 'Semi Mature'
  Salix alba (Willow) 'Extra Heavy Standard'
- Taxus bacata (Yew) 'Semi Mature'
  Taxus bacata (Yew) 'Extra Heavy Standard'

Notes:

- Native Woodland Mix planting to be protected with Windbreak Shade Netting (s221) 1m height, knitted polyethylene monofilament, stapled to timber stakes. Staking @ 4m centers, 2,400 mm long round, pressure treated larch, 100 mm minimum diameter, pressure treated sawn larch, (preserved with water-borne copper-chrome- arsenic to I.S. 131, to a net dry salt retention of 5.3 kg per cubic meter of timber), 1600 mm to be left over ground.

- Formal Sports Area details to be submitted for Department approval prior to construction.

Table 1: Native Woodland Mix

Plant Species	Form	Age/Condition	Overall Height	Root Condition	Planting Centres	% Mix	Total Area: 34, 901 m2
Understory 30% of Woodland Mix						**42%**	**Total Plant Nr**
Corylus avellana (Hazel)	Transplant	1+1	40-60cm	B	1.0m	12%	1,674
Crataegus monogyna (Common Hawthorn)	Transplant	1+1	40-60cm	B	1.0m	27%	3,837
Ilex aquifolium (Holly)	Transplant	1+1	40-60cm	B	1.0m	17%	2,511
Prunus avium (Wild Cherry)	Transplant	1+1	40-60cm	B	1.0m	15%	2,093
Prunus spinosa (Blackthorn)	Transplant	1+1	40-60cm	B	1.0m	30%	4,256

Native Woodland Mix (CONTINUED)

Pioneer Species 30% of Woodland Mix						**25%**	
Alnus glutinosa (Common Alder)	Transplant	1+1	60-80cm	B	1.0m	29%	2,511
Betula Pendula (Silver Birch)	Transplant	1+1	60-80cm	B	1.0m	29%	2,511
Fraxinus excelsior (Ash)	Transplant	1+1	60-80cm	B	1.0m	0%	0
Sorbus acuparia (Rowan)	Transplant	1+1	60-80cm	B	1.0m	23%	2,000
Salix repens ssp argentea (Creeping Willow)	Transplant	1+1	60-80cm	B	1.0m	19%	1,674

Native Woodland Mix (CONTINUED)

Climax Species 40% of Woodland Mix						**33%**	
Alnus glutinosa (Common Alder)	Transplant	1+2	100-125cm	B	1.0m	30%	3,349
Betula Pendula (Silver Birch)	Transplant	1+2	100-125cm	B	1.0m	35%	3,906
Quercus robur (Common Oak)	Transplant	1+2	100-125cm	B	1.0m	35%	3,906
Fraxinus excelsior (Ash)	Transplant	1+2	100-125cm	B	1.0m	0%	0

Table 2: Standard and Standard Extra Heavy Tree Planting

Plant Species	Form	Age/Condition	Girth	Overall Height/Spread	Root Condition	Min breaks	Planting Centres	Total plant nr
Aesculus hippocastanum (Horse Chestnut)	Standard Extra Heavy	3x transplanted	18-20cm	min 450cm	RB	5	As Shown	2
Betula pendula (Silver Birch)	Standard Extra Heavy	3x transplanted	18-20cm	min 450cm	RB	5	As Shown	17
Sorbus acuparia (Rowan)	Standard						As Shown	100
Alnus glutinosa (Common Alder)	Standard Extra Heavy	3x transplanted	18-20cm	min 450cm	RB	5	As Shown	23
Taxus bacata (Yew)	Standard Extra Heavy	3x transplanted	18-20cm	min 450cm	RB	5	As Shown	7
Quercus robur (Common Oak)	Standard Extra Heavy	3x transplanted	18-20cm	min 450cm	RB	5	As Shown	0
Quercus robur 'Fastigiata Koster' (Cyprus Oak)	Standard Extra Heavy	3x transplanted	18-20cm	min 450cm	RB	5	As Shown	0
Salix alba (Willow)	Standard Extra Heavy	3x transplanted	18-20cm	min 450cm	RB	5	As Shown	18
Pines								
Picea sitchensis (Sitka Spruce)	Standard Extra Heavy	3x transplanted		100-125	RB	Leaders/Laterals	As Shown	0
Pinus sylvestris (Scots Pine)	Standard Extra Heavy	3x transplanted		min 450cm	RB	Leaders/Laterals	As Shown	0

Table 3: Semi Mature Tree Planting

Plant Species	Form	Age/Condition	Girth	Overall Height/Spread	Root Condition	Min breaks	Planting Centres	Total Area: Total plant nr
Aesculus hippocastanum (Horse Chestnut)	Semi mature	4x transplanted	25-30cm	min 450cm	RB	5	As Shown	10
Betula pendula (Silver Birch)	Semi mature	4x transplanted	25-30cm	min 450cm	RB	5	As Shown	9
Fraxinus excelsior (Ash)	Semi mature	4x transplanted	25-30cm	min 450cm	RB	5	As Shown	0
Alnus glutinosa (Common Alder)	Semi mature	4x transplanted	25-30cm	min 450cm	RB	5	As Shown	3
Taxus bacata (Yew)	Semi mature	4x transplanted	25-30cm	min 450cm	RB	5	As Shown	4
Quercus robur (Common Oak)	Semi mature	4x transplanted	25-30cm	min 450cm	RB	5	As Shown	62
Salix alba (Willow)	Semi mature	4x transplanted	25-30cm	min 450cm	RB	5	As Shown	15
Pines								
Picea sitchensis (Sitka Spruce)	Semi mature	4x transplanted		175-200	RB		As Shown	0
Pinus sylvestris (Scots Pine)	Semi mature	4x transplanted		200-225	RB		As Shown	0

Table 4: Hedgerow Planting — Total Area: 60 linear metres

Plant Species	Age/Condition	Overall Height	Root Condition	Planting Centres	% Mix	Total plant nr
Crataegus monogyna (Common hawthorn)	2x transplanted	60-80cm	B	45cm in Double Row (Staggered alternately)	50%	133
Prunus spinosa (Blackthorn)	2x transplanted	60-80cm	B	45cm in Double Row (Staggered alternately)	50%	133

Table 5: Amenity Grass Seeding	Sowing Rate
Grass for general areas	
(A15 Reclamation Landfill, as supplied by British Seed Houses)	
Celianna Strong Creeping Red Fescue 35%	Sowing rate 25g/m2 (250Kgs/ha)
Cadix Perennial Ryegrass 30%	
Canon Flattened Meadow Grass 15%	(Over seeding 15g/m2 (150kgs/ha)
Calliope Chewings Fescue 10%	
Highland Browntop Bent 7.5%	
Aberace Small Leaved White Clover 2.5%	Total Area: 183,573 m2

Table 6: Meadow Grass with Wildflower	Sowing Rate
Grass for Meadow areas	
(40%, A4 Low Maintenance Mix, as supplied by British Seed Houses)	
Aniset Strong Creeping Red Fescue 40%	Sowing rate 25g/m2 (250Kgs/ha)
Raisa Chewings Fescue 30%	
Mentor Hard Fescue 25%	(Over seeding 15g/m2 (150kgs/ha)
Highland Bent Grass 5%	
(30%, Perrennial Annuals, as supplied by British Seed Houses)	
Achillea millefolium (Yarrow) 20%	
Campanula rotundifolia (Harebell) 20%	
Cardamine pratensis (Cuckooflower) 20%	
Leucanthemum vulgare (Ox eye daisy) 20%	
Lotus corniculatus (Common Birdsfoot Trefoil) 20%	
(30%, WF10 Cornfield Annuals, as supplied by British Seed Houses)	
Agrostema githago (Corn Cockle) 25%	
Anthemis arvensis (Corn Chamomile) 25%	
Centaurea cyanus (Cornflower) 25%	
Chrysanthemum segetum (Corn Marigold)	Total Area: 25,000 m2

Note:
Remaining trees to replace/supplement existing planting, at locations agreed with the Engineer.

Revision	Date	Description	Drawn	Ckd
D	21.01.16	Tree Planting Amended	MC	JD
C	20.01.16	Tree Planting Amended	MC	JD
B	13.01.16	Tree Planting Amended	MC	JD

STATUS

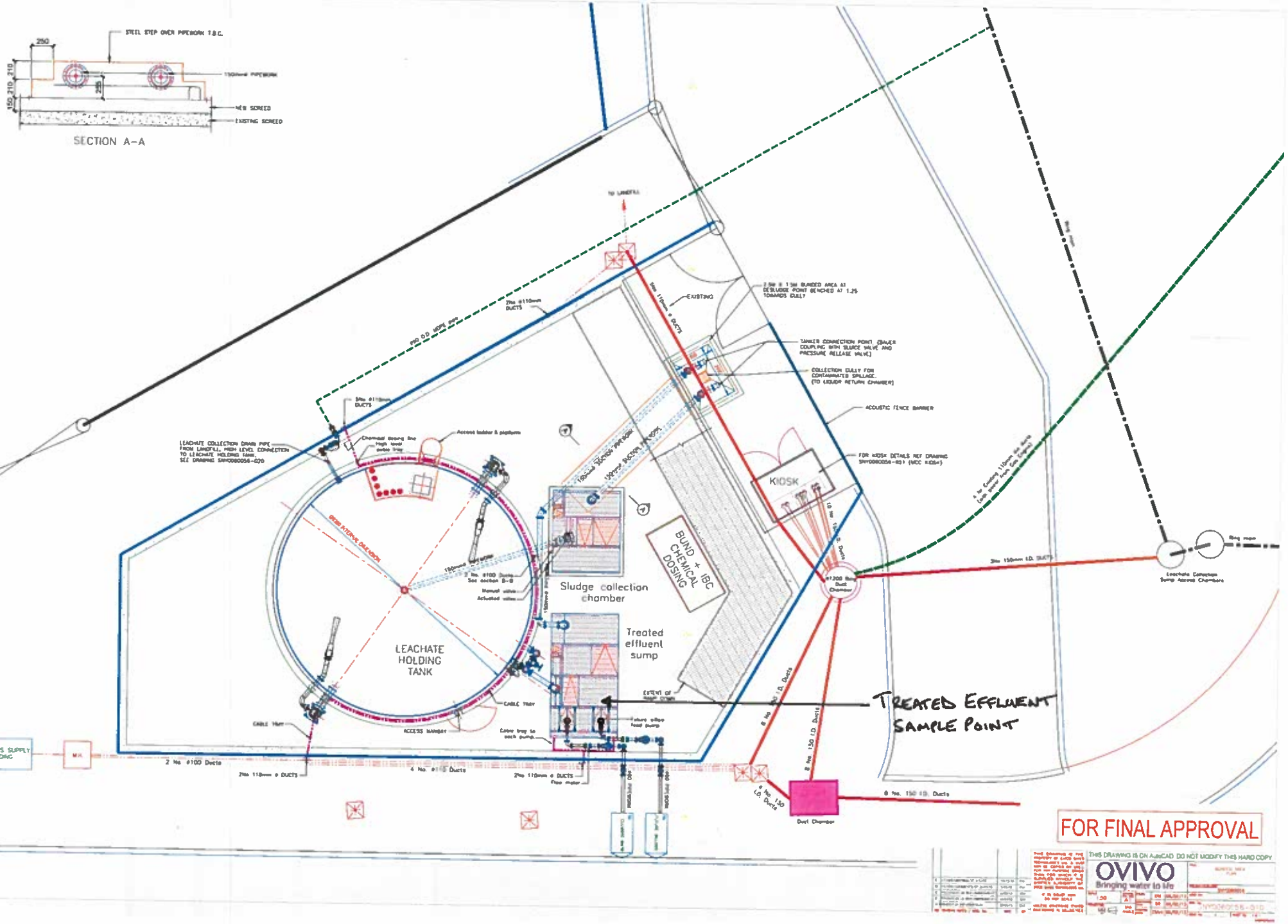
RPS PLANNING & ENVIRONMENT
Elmwood House
74 Boucher Road
Belfast
Northern Ireland
BT12 6RZ
T: 028 9066 7914
F: 028 9066 8286
W: rpsgroup.com/ireland

PROJECT
CULMORE LANDFILL SITE

TITLE
General Arrangement

SCALE/PAPER SIZE	DRAWN BY	
1:1000@A0	WOD	
DATE	CHECKED BY	
01.06.11	RH	
PROJECT NUMBER	DRAWING NUMBER	REVISION
NI0936	0936.1.03	B

RPS P&E


STEEL STEP OVER PIPEWORK T.B.C.
250
150
210
210
NEW SCREED
EXISTING SCREED
SECTION A-A
to LANDFILL
EXISTING
TANKER CONNECTION POINT (BAUER COUPLING WITH SLUICE VALVE AND PRESSURE RELEASE VALVE)
COLLECTION DULLY FOR CONTAMINATED SPILLAGE. (TO LIQUOR RETURN CHAMBER)
ACOUSTIC FENCE BARRIER
KIOSK
BUND + IBC CHEMICAL DOSING
Sludge collection chamber
Treated effluent sump
LEACHATE HOLDING TANK
ACCESS HANGER
CABLE TRAY
MAINS SUPPLY BUILDING
M/E
Duct Chamber
TREATED EFFLUENT SAMPLE POINT
FOR FINAL APPROVAL
THIS DRAWING IS ON AutoCAD DO NOT MODIFY THIS HARD COPY
OVIVO
Bringing water to life

[redacted]

From: [redacted] COLIN C T [redacted]
Sent: 30 January 2025 22:45
To: [redacted], Kiera [redacted]
Cc: [redacted] Brendan (Contractor - M&D SERVICES - UK) [redacted]
SEAN [redacted]
Subject: FW: 2024 Annual report and PRTR reminders
Importance: High

Kiera,

DuPont (U.K.) Industrial Ltd, Cell 3 Landfill, at Maydown Works, Electra Road, Derry, BT47 6TH, was granted permit P0377/11A/V1, *under the Pollution Prevention and Control (Industrial Emissions) Regulations (Northern Ireland) 2013,* on 19th March 2014.

To date (30th January 2025), no waste has ever been deposited in the cell, and hence there have been no specific groundwater, surface water or leachate samples taken/analysed.

I confirm that [redacted] (our landfill manager) is the technical competent person who manages landfill requirements at the Maydown Site *(see* [redacted] *WAMITAB certificates attached).*

I confirm that there have been no complaints registered against the landfill.

I confirm that there have been no non-compliances recorded in environmental inspection reports carried out by NIEA.

As no waste has ever been deposited in the cell, there have been no compliance tests carried out to satisfy Waste Acceptance Criteria.

I confirm that there have been no Schedule 6s sent to the Agency, as no notifications have been required.

Please note that from 19th March 2014, when the permit was granted, no waste has ever been deposited in the cell.

A template bond document that you provided was populated, and reviewed/signed by [redacted] (Guarantor) and DuPont (U.K.) Industrial Limited (Permit Holder).
In February 2023, Du Pont (U.K.) Industrial Limited submitted a Guarantee Bond between DuPont (U.K.) Industrial Limited (Permit Holder), [redacted] (Guarantor) and the Northern Ireland Environment Agency, for an amount of [redacted] To date, we have not received a copy of the guarantee bond, signed by the Northern Ireland Environment Agency. If NIEA has signed the document, then would you please return a copy to me at the address below. If the document has not yet been signed by NIEA, then please let me know if you require any further information.

Many thanks.

Regards,
Colin

Colin [redacted]
Process Safety Management Leader & Environmental Management Representative
Du Pont (U.K.) Industrial Limited
Maydown Works
Londonderry
BT47 6TH
Northern Ireland
Mob: [redacted]

DUPONT

From: [redacted] Brendan (Contractor - M&D SERVICES - UK) [redacted]
Sent: 04 December 2024 13:12
To: [redacted] COLIN C T [redacted]
Subject: [EXTERNAL] FW: 2024 Annual report and PRTR reminders

Colin,

See below note from Kiera.

Regards
[redacted]
Waste/Hazardous Goods
Maydown Works
Londonderry
BT47 6TH
[redacted]

From: [redacted] Kiera [redacted]
Sent: Wednesday, December 4, 2024 1:04 PM
To: [redacted] Brendan (Contractor - M&D SERVICES - UK)[redacted]
Subject: 2024 Annual report and PRTR reminders

SUBJECT: 2025 ANNUAL ENVIRONMENTAL MONITORING REPORT AND POLLUTION INVENTORY REPORTING

Dear Operator,

The Annual Environmental Monitoring Report and Pollution Inventory Reporting Form is due on or before **31st January 2025** unless otherwise stated in Condition 5.2 'Reporting' of your Permit:

Attached is guidance for the completion of the annual report (landfill and non-landfill activities) and below are the links to the PRTR Form and Guidance.

https://www.daera-ni.gov.uk/publications/pollution-inventory-reporting-form [daera-ni.gov.uk]

https://www.daera-ni.gov.uk/publications/pollution-inventory-reporting-guidance [daera-ni.gov.uk]

The following information must also be included in the Annual Report(s):

FOR ALL OPERATORS

1. A statement to confirm that the required arrangements for the attendance of technically competent person(s) are in place. Provide an update on what actions have been taken to comply with the new requirements of the Waste Management Licensing (Amendment) Regulations (NI) 2015 - Operators are required to demonstrate that they have acquired

the appropriate level of Technical Competence in the operations they are carrying out, and to provide a copy of the Operator Competence Certificate to the Department. Further information can be found in our Guidance Document: Waste Management - Technical Competence for Operators of Authorised Waste Facilities (Available at https://www.daera-ni.gov.uk/sites/default/files/publications/doe/waste-guidance-technical-competence-operators-waste-facilties-2015.pdf [daera-ni.gov.uk])

2. Figures for the amount of energy, potable water and non-potable water consumed on site in the last 12 months

3. Details of any nuisance complaints, how these complaints were dealt with and whether they are likely to re-occur (this may lead to a required change in working practice.)

4. Details of any non-compliances recorded in environmental inspection reports carried out by NIEA and what actions have been taken to address these non-compliances.

5. Details of any compliance tests carried out to satisfy the Waste Acceptance Criteria or for the purposes of waste classification using WM3 or leaching tests.

6. Details of any Schedule 6 Notification Forms sent to the Agency.

IN ADDITION FOR GAS ENGINES

NIEA are required to provide emissions data as part of an annual international review of emission estimates. We require you to provide the following information as part of the National Atmospheric Emissions Inventory (http://naei.beis.gov.uk/ [naei.beis.gov.uk]):

- Representative Gas Flow at Engine (m3/hr)
- Gas Control (Yes/No)
- Flare (% use during 2024 and the Representative Gas Flow (m3/hr) if use is >10%)
- Total volume of gas combusted in engine and flare during 2024 (m3)
- % Methane Content of gas combusted in engines and flare
- Methodology used to calculate gas volumes
- The total amount of waste received at the site in 2024 (Tonnes)

IN ADDITION FOR LANDFILL OPERATORS

- Topographical survey
- The volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
- An assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys; and
- Calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey.

I trust the above is in order however if you have any queries, please do not hesitate to contact us.

Regards,

[redacted]

Du Pont (U.K.) Industrial Limited
4th floor, Kings Court, London Road
Stevenage, Hertfordshire, SG1 2NG
United Kingdom
Place of Registration: England and Wales
Company Registration No.: 03911468

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033087**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-34849	Sample Receipt Date	16/01/2025
MCQ Quote Number	ECA-2639-12	Date Analysis Started	16/01/2025
Purchase Order Number	125094	Completion Date	29/01/2025
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted]

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Senior Lab Administrator

Date Issued: 29/01/2025

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033087**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ142982	**CLS LTP**	15/01/2025	SAM031	Ammonia as N	<0.11	mg/l	Y	McQ	
			SAM038TT	Cadmium Tot	<0.976	ug/l	Y	McQ	
			N/A	Chloronitroltoluenes (Individuals)	<1	ug/l	N	S	
			SAM038TT	Chromium Tot	<4.058	ug/l	Y	McQ	
			SAM009	COD (Total)	37.0	mg/l	Y	McQ	
			SAM038TT	Copper Tot	<7.918	ug/l	Y	McQ	
			SAM038TT	Lead Tot	1.57	ug/l	Y	McQ	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			SAM038TT	Nickel Tot	4.30	ug/l	Y	McQ	
			N/A	Nonyl phenol	<0.050	ug/l	N	S	
			N/A	Octyl phenol	<0.050	ug/l	Y	S	
			CTF004	pH Unaccredited	8.01	Units	N	McQ	
			SAM001	Suspended Solids	35.0	mg/l	Y	McQ	
			SAM038TT	Zinc Tot	<34.667	ug/l	Y	McQ	
				McQuillan List 1 Suite (Waters)		-			
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,1-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,2-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethene	<1	ug/l	N	S	
			N/A	1,1-Dichloropropene	<1	ug/l	N	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,3-Trichloropropane	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	
			N/A	1,2-Dibromoethane	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2-Dichloroethane	<1	ug/l	N	S	
			N/A	1,2-Dichloropropane	<1	ug/l	N	S	
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,3-Dichloropropane	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	
			N/A	2,3,6-Trichlorobenzoic acid	<5	ug/l	N	S	
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-DB	<10	ug/l	N	S	
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	
			N/A	2-Chlorotoluene	<1	ug/l	N	S	
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033087**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Bromofluorobenzene**	91.7	%	N	S	
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chlorotoluene	<1	ug/l	N	S	
			N/A	4-iso-Propyltoluene	<1	ug/l	N	S	
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	
			N/A	Alachlor	<0.05	ug/l	N	S	
			N/A	Aldrin	<0.2	ug/l	N	S	
			N/A	alpha-HCH	<0.2	ug/l	N	S	
			N/A	Anthracene (aq)	<1	ug/l	N	S	
			N/A	Atrazine	<0.05	ug/l	N	S	
			N/A	Azinphos ethyl	<0.1	ug/l	N	S	
			N/A	Azinphos methyl	<0.1	ug/l	N	S	
			N/A	Azobenzene (aq)	<1	ug/l	N	S	
			N/A	Benazolin	<4	ug/l	N	S	
			N/A	Benzene	<1	ug/l	N	S	
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	beta-HCH	<0.2	ug/l	N	S	
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	
			N/A	Bromobenzene	<1	ug/l	N	S	
			N/A	Bromochloromethane	<1	ug/l	N	S	
			N/A	Bromodichloromethane	<1	ug/l	N	S	
			N/A	Bromoform	<1	ug/l	N	S	
			N/A	Bromomethane	<1	ug/l	N	S	
			N/A	Bromoxynil	<4	ug/l	N	S	
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Cadmium (diss.filt)	<0.08	ug/l	N	S	
			N/A	Carbazole (aq)	<1	ug/l	N	S	
			N/A	Carbon disulphide	<1	ug/l	N	S	
			N/A	Carbontetrachloride	<1	ug/l	N	S	
			N/A	Carbophenothion	<0.05	ug/l	N	S	
			N/A	Chlorfenvinphos	<0.05	ug/l	N	S	
			N/A	Chlorobenzene	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033087**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Chloroethane	<1	ug/l	N	S	
			N/A	Chloroform	<1	ug/l	N	S	
			N/A	Chloromethane	<1	ug/l	N	S	
			N/A	Chlorothalonil	<0.05	ug/l	N	S	
			N/A	Chlorpyriphos	<0.05	ug/l	N	S	
			N/A	Chlorpyriphos-methyl	<0.05	ug/l	N	S	
			N/A	Chrysene (aq)	<1	ug/l	N	S	
			N/A	cis-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	cis-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	cis-Chlordane	<0.05	ug/l	N	S	
			N/A	Clopyralid	<4	ug/l	N	S	
			N/A	Coumaphos	<0.05	ug/l	N	S	
			N/A	Cyanazine	<0.05	ug/l	N	S	
			N/A	Cyanide, Free	<0.05	mg/l	N	S	
			N/A	Cyanide, Total	<0.05	mg/l	N	S	
			N/A	delta-HCH	<0.2	ug/l	N	S	
			N/A	Demeton-S-methyl	<0.05	ug/l	N	S	
			N/A	Diazinon	<0.05	ug/l	N	S	
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	
			N/A	Dibromochloromethane	<1	ug/l	N	S	
			N/A	Dibromofluoromethane**	113	%	N	S	
			N/A	Dibromomethane	<1	ug/l	N	S	
			N/A	Dibutyl tin	<5	ng/l	N	S	
			N/A	Dicamba	<4	ug/l	N	S	
			N/A	Dichlobenil	<0.05	ug/l	N	S	
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	
			N/A	Dichloromethane	<3	ug/l	N	S	
			N/A	Dichlorprop	<10	ug/l	N	S	
			N/A	Dichlorvos	<0.05	ug/l	N	S	
			N/A	Dieldrin	<0.2	ug/l	N	S	
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dimethoate	<0.05	ug/l	N	S	
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dinitro-o-cresol	<10	ug/l	N	S	
			N/A	Disulfoton	<0.05	ug/l	N	S	
			N/A	Endosulphan I	<0.2	ug/l	N	S	
			N/A	Endosulphan II	<0.4	ug/l	N	S	
			N/A	Endosulphan Sulphate	<0.4	ug/l	N	S	
			N/A	Endrin	<0.2	ug/l	N	S	
			N/A	Ethion	<0.05	ug/l	N	S	
			N/A	Ethylbenzene	<1	ug/l	N	S	
			N/A	Etridiazole	<0.05	ug/l	N	S	
			N/A	Etrimphos	<0.05	ug/l	N	S	
			N/A	Fenitrothion	<0.05	ug/l	N	S	
			N/A	Fenoprop (Silvex)	<10	ug/l	N	S	
			N/A	Fenthion	<0.05	ug/l	N	S	

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Fluorene (aq)	<1	ug/l	N	S	
			N/A	Fluoroxypyr	<10	ug/l	N	S	
			N/A	gamma-HCH (Lindane)	<0.2	ug/l	N	S	
			N/A	Heptachlor	<0.2	ug/l	N	S	
			N/A	Heptachlor epoxide	<0.2	ug/l	N	S	
			N/A	Hexachlorobenzene	<0.05	ug/l	N	S	
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	
			N/A	Ioxynil	<5	ug/l	N	S	
			N/A	Isodrin	<0.2	ug/l	N	S	
			N/A	Isophorone (aq)	<1	ug/l	N	S	
			N/A	Isopropylbenzene	<1	ug/l	N	S	
			N/A	m,p-Xylene	<1	ug/l	N	S	
			N/A	Malathion	<0.05	ug/l	N	S	
			N/A	MCPA	<5	ug/l	N	S	
			N/A	MCPB	<5	ug/l	N	S	
			N/A	Mecoprop	<4	ug/l	N	S	
			N/A	Mercury (diss.filt)	<0.01	ug/l	N	S	
			N/A	Metazachlor	<0.05	ug/l	N	S	
			N/A	Methyl Parathion	<0.05	ug/l	N	S	
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	N	S	
			N/A	Mevinphos	<0.05	ug/l	N	S	
			N/A	Mineral oil >C10 C40 (aq)	<100	ug/l	N	S	
			N/A	Naphthalene	<1	ug/l	N	S	
			N/A	Naphthalene (aq)	<1	ug/l	N	S	
			N/A	n-Butylbenzene	<1	ug/l	N	S	
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	
			N/A	o,p'-DDD (TDE)	<0.2	ug/l	N	S	
			N/A	o,p'-DDE	<0.2	ug/l	N	S	
			N/A	o,p'-DDT	<0.2	ug/l	N	S	
			N/A	o,p'-Methoxychlor	<0.2	ug/l	N	S	
			N/A	o-Xylene	<1	ug/l	N	S	
			N/A	p,p'-DDD (TDE)	<0.2	ug/l	N	S	
			N/A	p,p'-DDE	<0.2	ug/l	N	S	
			N/A	p,p'-DDT	<0.2	ug/l	N	S	
			N/A	p,p'-Methoxychlor	<0.2	ug/l	N	S	
			N/A	Parathion	<0.05	ug/l	N	S	
			N/A	Pendimethalin	<0.05	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033087**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Pentachlorobenzene	<0.05	ug/l	N	S	
			N/A	Pentachlorophenol	<4	ug/l	N	S	
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	
			N/A	Permethrin I	<0.2	ug/l	N	S	
			N/A	Permethrin II	<0.2	ug/l	N	S	
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	
			N/A	Phenol (aq)	<1	ug/l	N	S	
			N/A	Phorate	<0.05	ug/l	N	S	
			N/A	Phosalone	<0.05	ug/l	N	S	
			N/A	Phosphamidon I	<0.05	ug/l	N	S	
			N/A	Phosphamidon II	<0.05	ug/l	N	S	
			N/A	Pirimiphos-methyl	<0.05	ug/l	N	S	
			N/A	Prometryn	<0.05	ug/l	N	S	
			N/A	Propachlor	<0.05	ug/l	N	S	
			N/A	Propazine	<0.05	ug/l	N	S	
			N/A	Propetamphos	<0.05	ug/l	N	S	
			N/A	Propylbenzene	<1	ug/l	N	S	
			N/A	Propyzamide	<0.05	ug/l	N	S	
			N/A	Pyrene (aq)	<1	ug/l	N	S	
			N/A	Quintozene (PCNB)	<0.05	ug/l	N	S	
			N/A	sec-Butylbenzene	<1	ug/l	N	S	
			N/A	Simazine	<0.05	ug/l	N	S	
			N/A	Styrene	<1	ug/l	N	S	
			N/A	Surrogate**	82.4	%	N	S	
			N/A	Tecnazene	<0.05	ug/l	N	S	
			N/A	Telodrin	<0.05	ug/l	N	S	
			N/A	Terbutryn	<0.05	ug/l	N	S	
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	N	S	
			N/A	tert-Butylbenzene	<1	ug/l	N	S	
			N/A	Tetrabutyl tin	<2	ng/l	N	S	
			N/A	Tetrachloroethene	<1	ug/l	N	S	
			N/A	Toluene	<1	ug/l	N	S	
			N/A	Toluene-d8**	97.4	%	N	S	
			N/A	trans-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	trans-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	trans-Chlordane	<0.05	ug/l	N	S	
			N/A	Triadimefon	<0.05	ug/l	N	S	
			N/A	Triallate	<0.05	ug/l	N	S	
			N/A	Triazophos	<0.05	ug/l	N	S	
			N/A	Tributyl tin	<1	ng/l	N	S	
			N/A	Trichloroethene	<1	ug/l	N	S	
			N/A	Trichlorofluoromethane	<1	ug/l	N	S	
			N/A	Triclopyr	<5	ug/l	N	S	
			N/A	Trietazine	<0.05	ug/l	N	S	
			N/A	Trifluralin	<0.2	ug/l	N	S	
			N/A	Triphenyl tin	<1	ng/l	N	S	
			N/A	Vinyl chloride	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033087**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
				Sub Ureas (Urons)	-				
			N/A	Chlorotoluron	<0.10	ug/l	Y	S	
			N/A	Diuron	<0.10	ug/l	Y	S	
			N/A	Isoproturon	<0.10	ug/l	Y	S	
			N/A	Linuron	<0.10	ug/l	Y	S	
			N/A	Methabenzthiazuron	<0.10	ug/l	Y	S	
			N/A	Monolinuron	<0.10	ug/l	Y	S	
			N/A	Monuron	<0.10	ug/l	Y	S	
Time Sampled: 15:15	**Sample Matrix:**	Landfill Leachate	**Analyst Comment:**						

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	$	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø	Reporting limit raised due to sample matrix interference	♠
Container with headspace provided for Volatiles analysis	¥	Deviation from method	◊
Matrix Interference	∞	Unsuitable sample	Θ

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033526**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-35292	Sample Receipt Date	13/03/2025
MCQ Quote Number	ECA-2639-13	Date Analysis Started	13/03/2025
Purchase Order Number	127164	Completion Date	04/04/2025
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted]

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Administrator

Date Issued: 04/04/2025

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033526**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ144874	**CLS LTP**	12/03/2025	SAM031	Ammonia as N	<0.11	mg/l	Y	McQ	
			SAM038TT	Cadmium Tot	<0.976	ug/l	Y	McQ	
			N/A	Chloronitroltoluenes (Individuals)	< 1	ug/l	N	S	
			SAM038TT	Chromium Tot	<4.058	ug/l	Y	McQ	
			SAM009	COD (Total)	26.0	mg/l	Y	McQ	
			SAM038TT	Copper Tot	<7.918	ug/l	Y	McQ	
			SAM038TT	Lead Tot	0.63	ug/l	Y	McQ	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			SAM038TT	Nickel Tot	2.84	ug/l	Y	McQ	
			SAM004	pH	8.16	Units	Y	McQ	
			SAM001	Suspended Solids	25.0	mg/l	Y	McQ	
			SAM038TT	Zinc Tot	<34.667	ug/l	Y	McQ	
				Alkylphenols by GCMS	-				
			N/A	4-n-Octylphenol	<0.050	ug/l	N	S	
			N/A	4-Nonylphenol	<0.050	ug/l	N	S	
			N/A	4-t-Octlyphenol monoethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol diethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol triethoxylate	<0.010	ug/l	N	S	
			N/A	Nonlyphenol	<0.050	ug/l	N	S	
			N/A	Nonylphenol diethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol monoethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol triethoxylate	<0.050	ug/l	N	S	
				McQuillan List 1 Suite (Waters)	-				
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,1-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	N	S	
			N/A	1,1,2-Trichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethane	<1	ug/l	N	S	
			N/A	1,1-Dichloroethene	<1	ug/l	N	S	
			N/A	1,1-Dichloropropene	<1	ug/l	N	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,3-Trichloropropane	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	
			N/A	1,2-Dibromoethane	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2-Dichloroethane	<1	ug/l	N	S	
			N/A	1,2-Dichloropropane	<1	ug/l	N	S	
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,3-Dichloropropane	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene	<1	ug/l	N	S	
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	
			N/A	2,3,6-Trichlorobenzoic acid	<5	ug/l	N	S	
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-DB	<10	ug/l	N	S	
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dichlorophenoxyacetic acid	<5	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033526**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	
			N/A	2-Chlorotoluene	<1	ug/l	N	S	
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Bromofluorobenzene**	101	%	N	S	
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chlorotoluene	<1	ug/l	N	S	
			N/A	4-iso-Propyltoluene	<1	ug/l	N	S	
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	
			N/A	Alachlor	<0.02	ug/l	N	S	
			N/A	Aldrin	<0.02	ug/l	N	S	
			N/A	alpha-HCH	<0.02	ug/l	N	S	
			N/A	Anthracene (aq)	<1	ug/l	N	S	
			N/A	Atrazine	<0.5	ug/l	N	S	
			N/A	Azinphos ethyl	<1	ug/l	N	S	
			N/A	Azinphos methyl	<1	ug/l	N	S	
			N/A	Azobenzene (aq)	<1	ug/l	N	S	
			N/A	Benazolin	<4	ug/l	N	S	
			N/A	Benzene	<1	ug/l	N	S	
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	beta-HCH	<0.02	ug/l	N	S	
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	
			N/A	Bromobenzene	<1	ug/l	N	S	
			N/A	Bromochloromethane	<1	ug/l	N	S	
			N/A	Bromodichloromethane	<1	ug/l	N	S	
			N/A	Bromoform	<1	ug/l	N	S	
			N/A	Bromomethane	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033526**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Bromoxynil	<4	ug/l	N	S	
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Cadmium (diss.filt)	<0.08	ug/l	N	S	
			N/A	Carbazole (aq)	<1	ug/l	N	S	
			N/A	Carbon disulphide	<1	ug/l	N	S	
			N/A	Carbontetrachloride	<1	ug/l	N	S	
			N/A	Carbophenothion	<0.5	ug/l	N	S	
			N/A	Chlorfenvinphos	<0.5	ug/l	N	S	
			N/A	Chlorobenzene	<1	ug/l	N	S	
			N/A	Chloroethane	<1	ug/l	N	S	
			N/A	Chloroform	<1	ug/l	N	S	
			N/A	Chloromethane	<1	ug/l	N	S	
			N/A	Chlorothalonil	<0.02	ug/l	N	S	
			N/A	Chlorpyriphos	<0.5	ug/l	N	S	
			N/A	Chlorpyriphos-methyl	<0.5	ug/l	N	S	
			N/A	Chrysene (aq)	<1	ug/l	N	S	
			N/A	cis-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	cis-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	cis-Chlordane	<0.02	ug/l	N	S	
			N/A	Clopyralid	<4	ug/l	N	S	
			N/A	Coumaphos	<0.02	ug/l	N	S	
			N/A	Cyanazine	<0.02	ug/l	N	S	
			N/A	Cyanide, Free	<0.05	mg/l	N	S	
			N/A	Cyanide, Total	<0.05	mg/l	N	S	
			N/A	delta-HCH	<0.2	ug/l	N	S	
			N/A	Demeton-S-methyl	<0.5	ug/l	N	S	
			N/A	Diazinon	<0.5	ug/l	N	S	
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	
			N/A	Dibromochloromethane	<1	ug/l	N	S	
			N/A	Dibromofluoromethane**	109	%	N	S	
			N/A	Dibromomethane	<1	ug/l	N	S	
			N/A	Dibutyl tin	<5	ng/l	N	S	
			N/A	Dicamba	<4	ug/l	N	S	
			N/A	Dichlobenil	<0.5	ug/l	N	S	
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	
			N/A	Dichloromethane	<3	ug/l	N	S	
			N/A	Dichlorprop	<10	ug/l	N	S	
			N/A	Dichlorvos	<0.5	ug/l	N	S	
			N/A	Dieldrin	<0.02	ug/l	N	S	
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dimethoate	<0.5	ug/l	N	S	
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dinitro-o-cresol	<10	ug/l	N	S	
			N/A	Disulfoton	<0.5	ug/l	N	S	
			N/A	Endosulphan I	<0.02	ug/l	N	S	
			N/A	Endosulphan II	<0.04	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033526**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Endosulphan Sulphate	<0.04	ug/l	N	S	
			N/A	Endrin	<0.02	ug/l	N	S	
			N/A	Ethion	<0.5	ug/l	N	S	
			N/A	Ethylbenzene	<1	ug/l	N	S	
			N/A	Etridiazole	<0.02	ug/l	N	S	
			N/A	Etrimphos	<0.02	ug/l	N	S	
			N/A	Fenitrothion	<0.5	ug/l	N	S	
			N/A	Fenoprop (Silvex)	<10	ug/l	N	S	
			N/A	Fenthion	<0.5	ug/l	N	S	
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Fluorene (aq)	<1	ug/l	N	S	
			N/A	Fluoroxypyr	<10	ug/l	N	S	
			N/A	gamma-HCH (Lindane)	<0.02	ug/l	N	S	
			N/A	Heptachlor	<0.02	ug/l	N	S	
			N/A	Heptachlor epoxide	<0.02	ug/l	N	S	
			N/A	Hexachlorobenzene	<0.5	ug/l	N	S	
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	
			N/A	Ioxynil	<5	ug/l	N	S	
			N/A	Isodrin	<0.02	ug/l	N	S	
			N/A	Isophorone (aq)	<1	ug/l	N	S	
			N/A	Isopropylbenzene	<1	ug/l	N	S	
			N/A	m,p-Xylene	<1	ug/l	N	S	
			N/A	Malathion	<0.5	ug/l	N	S	
			N/A	MCPA	<5	ug/l	N	S	
			N/A	MCPB	<5	ug/l	N	S	
			N/A	Mecoprop	<4	ug/l	N	S	
			N/A	Mercury (diss.filt)	0.0101	ug/l	N	S	
			N/A	Metazachlor	<0.02	ug/l	N	S	
			N/A	Methyl Parathion	<0.5	ug/l	N	S	
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	N	S	
			N/A	Mevinphos	<0.5	ug/l	N	S	
			N/A	Mineral oil >C10 C40 (aq)	<100	ug/l	N	S	
			N/A	Naphthalene	<1	ug/l	N	S	
			N/A	Naphthalene (aq)	<1	ug/l	N	S	
			N/A	n-Butylbenzene	<1	ug/l	N	S	
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	
			N/A	o,p'-DDD (TDE)	<0.02	ug/l	N	S	
			N/A	o,p'-DDE	<0.02	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033526**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	o,p'-DDT	<0.2	ug/l	N	S	
			N/A	o,p'-Methoxychlor	<0.2	ug/l	N	S	
			N/A	o-Xylene	<1	ug/l	N	S	
			N/A	p,p'-DDD (TDE)	<0.02	ug/l	N	S	
			N/A	p,p'-DDE	<0.02	ug/l	N	S	
			N/A	p,p'-DDT	<0.2	ug/l	N	S	
			N/A	p,p'-Methoxychlor	<0.2	ug/l	N	S	
			N/A	Parathion	<0.5	ug/l	N	S	
			N/A	Pendimethalin	<0.05	ug/l	N	S	
			N/A	Pentachlorobenzene	<0.02	ug/l	N	S	
			N/A	Pentachlorophenol	<4	ug/l	N	S	
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	
			N/A	Permethrin I	<0.02	ug/l	N	S	
			N/A	Permethrin II	<0.02	ug/l	N	S	
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	
			N/A	Phenol (aq)	<1	ug/l	N	S	
			N/A	Phorate	<0.5	ug/l	N	S	
			N/A	Phosalone	<0.5	ug/l	N	S	
			N/A	Phosphamidon I	<0.02	ug/l	N	S	
			N/A	Phosphamidon II	<0.02	ug/l	N	S	
			N/A	Pirimiphos-methyl	<0.5	ug/l	N	S	
			N/A	Prometryn	<0.02	ug/l	N	S	
			N/A	Propachlor	<0.02	ug/l	N	S	
			N/A	Propazine	<0.02	ug/l	N	S	
			N/A	Propetamphos	<0.5	ug/l	N	S	
			N/A	Propylbenzene	<1	ug/l	N	S	
			N/A	Propyzamide	<0.02	ug/l	N	S	
			N/A	Pyrene (aq)	<1	ug/l	N	S	
			N/A	Quintozene (PCNB)	<0.02	ug/l	N	S	
			N/A	sec-Butylbenzene	<1	ug/l	N	S	
			N/A	Simazine	<0.5	ug/l	N	S	
			N/A	Styrene	<1	ug/l	N	S	
			N/A	Surrogate**	87.3	%	N	S	
			N/A	Tecnazene	<0.5	ug/l	N	S	
			N/A	Telodrin	<0.02	ug/l	N	S	
			N/A	Terbutryn	0.0283	ug/l	N	S	
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	N	S	
			N/A	tert-Butylbenzene	<1	ug/l	N	S	
			N/A	Tetrabutyl tin	<2	ng/l	N	S	
			N/A	Tetrachloroethene	<1	ug/l	N	S	
			N/A	Toluene	<1	ug/l	N	S	
			N/A	Toluene-d8**	99.8	%	N	S	
			N/A	trans-1,2-Dichloroethene	<1	ug/l	N	S	
			N/A	trans-1,3-Dichloropropene	<1	ug/l	N	S	
			N/A	trans-Chlordane	<0.02	ug/l	N	S	
			N/A	Triadimefon	<0.5	ug/l	N	S	
			N/A	Triallate	<0.5	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC033526**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Triazophos	<0.5	ug/l	N	S	
			N/A	Tributyl tin	<1	ng/l	N	S	
			N/A	Trichloroethene	<1	ug/l	N	S	
			N/A	Trichlorofluoromethane	<1	ug/l	N	S	
			N/A	Triclopyr	<5	ug/l	N	S	
			N/A	Trietazine	<0.02	ug/l	N	S	
			N/A	Trifluralin	<0.02	ug/l	N	S	
			N/A	Triphenyl tin	<1	ng/l	N	S	
			N/A	Vinyl chloride	<1	ug/l	N	S	
				Sub Ureas (Urons)	-				
			N/A	Chlorotoluron	<0.10	ug/l	Y	S	✱
			N/A	Diuron	<0.10	ug/l	Y	S	✱
			N/A	Isoproturon	<0.10	ug/l	Y	S	✱
			N/A	Linuron	<0.10	ug/l	Y	S	✱
			N/A	Methabenzthiazuron	<0.10	ug/l	Y	S	✱
			N/A	Monolinuron	<0.10	ug/l	Y	S	✱
			N/A	Monuron	<0.10	ug/l	Y	S	✱

Time Sampled: 16:00 **Sample Matrix:** Landfill Leachate **Analyst Comment:**

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	$	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø	Reporting limit raised due to sample matrix interference	♠
Container with headspace provided for Volatiles analysis	¥	Deviation from method	◊
Matrix Interference	∞	Unsuitable sample	Θ

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035255**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-37039	Sample Receipt Date	19/06/2025
MCQ Quote Number	ECA-2639-15	Date Analysis Started	20/06/2025
Purchase Order Number	129602	Completion Date	11/08/2025
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted]

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Laboratory Technical Supervisor

Date Issued: 11/08/2025

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035255**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ149064	**CLS LTP**	19/06/2025	SAM031	Ammonia as N	<0.55	mg/l	Y	McQ	
			N/A	Cadmium (tot.unfilt)	<0.5	ug/l	Y	S	
			N/A	Chloronitroltoluenes (Individuals)	<5.0	ug/l	N	S	
			N/A	Chromium (tot.unfilt)	<3	ug/l	Y	S	
			SAM009	COD (Total)	34.0	mg/l	Y	McQ	
			N/A	Copper (tot.unfilt)	3.57	ug/l	Y	S	
			N/A	Lead (tot.unfilt)	<1	ug/l	Y	S	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			N/A	Nickel (tot.unfilt)	2.96	ug/l	Y	S	
			SAM004	pH	8.24	Units	Y	McQ	
			SAM001	Suspended Solids	18.0	mg/l	Y	McQ	
			N/A	Zinc (tot.unfilt)	13.3	ug/l	Y	S	
				Alkylphenols by GCMS (W)	-				
			N/A	4-n-Octylphenol	<0.050	ug/l	N	S	
			N/A	4-Nonylphenol	<0.050	ug/l	N	S	
			N/A	4-t-Octlyphenol monoethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol diethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol triethoxylate	<0.010	ug/l	N	S	
			N/A	Nonlyphenol	<0.050	ug/l	N	S	
			N/A	Nonylphenol diethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol monoethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol triethoxylate	<0.050	ug/l	N	S	
				McQuillan List 1 (W)	-				
			N/A	1,1-Dichloroethane	<1	ug/l	Y	S	@
			N/A	1,1-Dichloroethene	<1	ug/l	Y	S	@
			N/A	1,1-Dichloropropene	<1	ug/l	Y	S	@
			N/A	1,1,1-Trichloroethane	<1	ug/l	Y	S	@
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	Y	S	@
			N/A	1,1,2-Trichloroethane	<1	ug/l	Y	S	@
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	Y	S	@
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	@
			N/A	1,2-Dibromoethane	<1	ug/l	Y	S	@
			N/A	1,2-Dichlorobenzene	<1	ug/l	Y	S	@
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	@
			N/A	1,2-Dichloroethane	<1	ug/l	Y	S	@
			N/A	1,2-Dichloropropane	<1	ug/l	Y	S	@
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	@
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	Y	S	@
			N/A	1,2,3-Trichloropropane	<1	ug/l	Y	S	@
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	@
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	Y	S	@
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	@
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	Y	S	@
			N/A	1,3-Dichlorobenzene	<1	ug/l	Y	S	@
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	@
			N/A	1,3-Dichloropropane	<1	ug/l	Y	S	@
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	@
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	Y	S	@
			N/A	1,4-Dichlorobenzene	<1	ug/l	Y	S	@
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	@
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	@
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	@
			N/A	2-Chlorotoluene	<1	ug/l	Y	S	@
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	@
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	@
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	@
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	@

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035255**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	@
			N/A	2,3,6-Trichlorobenzoic acid	<0.25	ug/l	N	S	@
			N/A	2,4-DB	<0.5	ug/l	N	S	@
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	@
			N/A	2,4-Dichlorophenoxyacetic acid	<0.25	ug/l	N	S	@
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	@
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	@
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	@
			N/A	2,4,5-Trichlorophenoxyacetic acid	<0.25	ug/l	N	S	@
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	@
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	@
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	@
			N/A	4-Bromofluorobenzene**	97.8	%	N	S	@
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	@
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	@
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	@
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	@
			N/A	4-Chlorotoluene	<1	ug/l	Y	S	@
			N/A	4-iso-Propyltoluene	<1	ug/l	Y	S	@
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	@
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	@
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	@
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	@
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	@
			N/A	Alachlor	<0.02	ug/l	N	S	@
			N/A	Aldrin	<2	ug/l	N	S	@
			N/A	alpha-HCH	<2	ug/l	N	S	@
			N/A	Anthracene (aq)	<1	ug/l	N	S	@
			N/A	Atrazine	<0.01	ug/l	N	S	@
			N/A	Azinphos ethyl	<0.02	ug/l	N	S	@
			N/A	Azinphos methyl	<0.02	ug/l	N	S	@
			N/A	Azobenzene (aq)	<1	ug/l	N	S	@
			N/A	Benazolin	<0.2	ug/l	N	S	@
			N/A	Benzene	<1	ug/l	Y	S	@
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	@
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	@
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	@
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	@
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	@
			N/A	beta-HCH	<2	ug/l	N	S	@
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	@
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	@
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	@
			N/A	Bromobenzene	<1	ug/l	Y	S	@
			N/A	Bromochloromethane	<1	ug/l	Y	S	@
			N/A	Bromodichloromethane	<1	ug/l	Y	S	@

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035255**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Bromoform	<1	ug/l	Y	S	@
			N/A	Bromomethane	<1	ug/l	Y	S	@
			N/A	Bromoxynil	<0.2	ug/l	N	S	@
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	@
			N/A	Cadmium (diss.filt) -s	<0.08	ug/l	Y	S	@
			N/A	Carbazole (aq)	<1	ug/l	N	S	@
			N/A	Carbon disulphide	<1	ug/l	Y	S	@
			N/A	Carbontetrachloride	<1	ug/l	Y	S	@
			N/A	Carbophenothion	<0.01	ug/l	N	S	@
			N/A	Chlorfenvinphos	<0.01	ug/l	N	S	@
			N/A	Chlorobenzene	<1	ug/l	Y	S	@
			N/A	Chloroethane	<1	ug/l	Y	S	@
			N/A	Chloroform	<1	ug/l	Y	S	@
			N/A	Chloromethane	<1	ug/l	Y	S	@
			N/A	Chlorothalonil	<0.02	ug/l	N	S	@
			N/A	Chlorpyriphos	<0.01	ug/l	N	S	@
			N/A	Chlorpyriphos-methyl	<0.01	ug/l	N	S	@
			N/A	Chrysene (aq)	<1	ug/l	N	S	@
			N/A	cis-1,2-Dichloroethene	<1	ug/l	Y	S	@
			N/A	cis-1,3-Dichloropropene	<1	ug/l	Y	S	@
			N/A	cis-Chlordane	<2	ug/l	N	S	@
			N/A	Clopyralid	<0.2	ug/l	N	S	@
			N/A	Coumaphos	<0.02	ug/l	N	S	@
			N/A	Cyanazine	0.153	ug/l	N	S	@
			N/A	Cyanide, Free -s	<0.05	mg/l	Y	S	@
			N/A	Cyanide, Total -s	<0.05	mg/l	Y	S	@
			N/A	delta-HCH	<2	ug/l	N	S	@
			N/A	Demeton-S-methyl	<0.01	ug/l	N	S	@
			N/A	Diazinon	<0.01	ug/l	N	S	@
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	@
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	@
			N/A	Dibromochloromethane	<1	ug/l	Y	S	@
			N/A	Dibromofluoromethane**	107	%	N	S	@
			N/A	Dibromomethane	<1	ug/l	Y	S	@
			N/A	Dibutyl tin	<5	ng/l	N	S	@
			N/A	Dicamba	<0.2	ug/l	N	S	@
			N/A	Dichlobenil	<0.01	ug/l	N	S	@
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	@
			N/A	Dichloromethane	<3	ug/l	Y	S	@
			N/A	Dichlorprop	<0.5	ug/l	N	S	@
			N/A	Dichlorvos	<0.01	ug/l	N	S	@
			N/A	Dieldrin	<2	ug/l	N	S	@
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	@
			N/A	Dimethoate	<0.01	ug/l	N	S	@
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	@
			N/A	Dinitro-o-cresol	<0.5	ug/l	N	S	@
			N/A	Disulfoton	<0.01	ug/l	N	S	@

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Endosulphan I	<2	ug/l	N	S	@
			N/A	Endosulphan II	<4	ug/l	N	S	@
			N/A	Endosulphan Sulphate	<4	ug/l	N	S	@
			N/A	Endrin	<2	ug/l	N	S	@
			N/A	Ethion	<0.01	ug/l	N	S	@
			N/A	Ethylbenzene	<1	ug/l	Y	S	@
			N/A	Etridiazole	<0.02	ug/l	N	S	@
			N/A	Etrimphos	<0.02	ug/l	N	S	@
			N/A	Fenchlorophos	<0.01	ug/l	N	S	@
			N/A	Fenitrothion	<0.01	ug/l	N	S	@
			N/A	Fenoprop (Silvex)	<0.5	ug/l	N	S	@
			N/A	Fenthion	<0.01	ug/l	N	S	@
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	@
			N/A	Fluorene (aq)	<1	ug/l	N	S	@
			N/A	Fluoroxypyr	<0.5	ug/l	N	S	@
			N/A	gamma-HCH (Lindane)	<2	ug/l	N	S	@
			N/A	Heptachlor	<2	ug/l	N	S	@
			N/A	Heptachlor epoxide	<2	ug/l	N	S	@
			N/A	Hexachlorobenzene	<0.01	ug/l	N	S	@
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	@
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	@
			N/A	Hexachlorobutadiene	<0.01	ug/l	Y	S	@
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	@
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	@
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	@
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	@
			N/A	Ioxynil	<0.25	ug/l	N	S	@
			N/A	Isodrin	<2	ug/l	N	S	@
			N/A	Isophorone (aq)	<1	ug/l	N	S	@
			N/A	Isopropylbenzene	<1	ug/l	Y	S	@
			N/A	m,p-Xylene	<1	ug/l	Y	S	@
			N/A	Malathion	<0.01	ug/l	N	S	@
			N/A	MCPA	<0.25	ug/l	N	S	@
			N/A	MCPB	<0.25	ug/l	N	S	@
			N/A	Mecoprop	<0.2	ug/l	N	S	@
			N/A	Mercury (diss.filt) -s	<0.01	ug/l	Y	S	@
			N/A	Metazachlor	<0.02	ug/l	N	S	@
			N/A	Methyl Parathion	<0.01	ug/l	N	S	@
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	Y	S	@
			N/A	Mevinphos	<0.01	ug/l	N	S	@
			N/A	Mineral oil >C10 C40 (aq) -s	<100	ug/l	N	S	@
			N/A	n-Butylbenzene	<1	ug/l	Y	S	@
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	@
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	@
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	@
			N/A	Naphthalene	<1	ug/l	Y	S	@

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035255**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Naphthalene (aq)	<1	ug/l	N	S	@
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	@
			N/A	o-Xylene	<1	ug/l	Y	S	@
			N/A	o,p'-DDD (TDE)	<2	ug/l	N	S	@
			N/A	o,p'-DDE	<2	ug/l	N	S	@
			N/A	o,p'-DDT	<2	ug/l	N	S	@
			N/A	o,p'-Methoxychlor	<2	ug/l	N	S	@
			N/A	p,p'-DDD (TDE)	<2	ug/l	N	S	@
			N/A	p,p'-DDE	<2	ug/l	N	S	@
			N/A	p,p'-DDT	<2	ug/l	N	S	@
			N/A	p,p'-Methoxychlor	<2	ug/l	N	S	@
			N/A	Parathion	<0.01	ug/l	N	S	@
			N/A	Pendimethalin	<0.01	ug/l	N	S	@
			N/A	Pentachlorobenzene	<0.02	ug/l	N	S	@
			N/A	Pentachlorophenol	<0.2	ug/l	N	S	@
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	@
			N/A	Permethrin I	<2	ug/l	N	S	@
			N/A	Permethrin II	<2	ug/l	N	S	@
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	@
			N/A	Phenol (aq)	<1	ug/l	N	S	@
			N/A	Phorate	<0.01	ug/l	N	S	@
			N/A	Phosalone	<0.01	ug/l	N	S	@
			N/A	Phosphamidon I	<0.02	ug/l	N	S	@
			N/A	Phosphamidon II	<0.02	ug/l	N	S	@
			N/A	Pirimiphos-methyl	<0.01	ug/l	N	S	@
			N/A	Prometryn	<0.02	ug/l	N	S	@
			N/A	Propachlor	<0.02	ug/l	N	S	@
			N/A	Propazine	<0.02	ug/l	N	S	@
			N/A	Propetamphos	<0.01	ug/l	N	S	@
			N/A	Propylbenzene	<1	ug/l	Y	S	@
			N/A	Propyzamide	<0.02	ug/l	N	S	@
			N/A	Pyrene (aq)	<1	ug/l	N	S	@
			N/A	Quintozene (PCNB)	<0.02	ug/l	N	S	@
			N/A	sec-Butylbenzene	<1	ug/l	Y	S	@
			N/A	Simazine	<0.01	ug/l	N	S	@
			N/A	Styrene	<1	ug/l	Y	S	@
			N/A	Surrogate**	77.3	%	N	S	@, @
			N/A	Tecnazene	<0.01	ug/l	N	S	@
			N/A	Telodrin	<0.02	ug/l	N	S	@
			N/A	Terbutryn	<0.02	ug/l	N	S	@
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	Y	S	@
			N/A	tert-Butylbenzene	<1	ug/l	Y	S	@
			N/A	Tetrabutyl tin	<2	ng/l	N	S	@
			N/A	Tetrachloroethene	<1	ug/l	Y	S	@
			N/A	Toluene	<1	ug/l	Y	S	@
			N/A	Toluene-d8**	100	%	N	S	@
			N/A	trans-1,2-Dichloroethene	<1	ug/l	Y	S	@

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035255**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	trans-1,3-Dichloropropene	<1	ug/l	Y	S	@
			N/A	trans-Chlordane	<0.01	ug/l	N	S	@
			N/A	trans-Chlordane	<2	ug/l	N	S	@
			N/A	Triadimefon	<0.01	ug/l	N	S	@
			N/A	Triallate	<0.01	ug/l	N	S	@
			N/A	Triazophos	<0.01	ug/l	N	S	@
			N/A	Tributyl tin	<1	ng/l	N	S	@
			N/A	Trichloroethene	<1	ug/l	Y	S	@
			N/A	Trichlorofluoromethane	<1	ug/l	Y	S	@
			N/A	Triclopyr	<0.25	ug/l	N	S	@
			N/A	Trietazine	<0.02	ug/l	N	S	@
			N/A	Trifluralin	<2	ug/l	N	S	@
			N/A	Triphenyl tin	<1	ng/l	N	S	@
			N/A	Vinyl chloride	<1	ug/l	Y	S	@
				Sub Ureas (GEO37)	-				
			N/A	Chlorotoluron	<1.00	ug/l	Y	S	♗
			N/A	Diuron	<1.00	ug/l	Y	S	♗
			N/A	Isoproturon	<1.00	ug/l	Y	S	♗
			N/A	Linuron	<1.00	ug/l	Y	S	♗
			N/A	Methabenzthiazuron	<1.00	ug/l	Y	S	♗
			N/A	Monolinuron	<1.00	ug/l	Y	S	♗
			N/A	Monuron	<1.00	ug/l	Y	S	♗
	Sample Matrix:	Landfill Leachate	**Analyst Comment:**						

Time Sampled:
09:00

This sample has been analysed for Sub Ureas Waters method GEO37 outside recommended stability times. It is therefore possible that the results provided may be compromised.

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	Ş	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø	Reporting limit raised due to sample matrix interference	❟
Container with headspace provided for Volatiles analysis	¥	Deviation from method	◊
Matrix Interference	∞	Unsuitable sample	Θ

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035935**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-37718	Sample Receipt Date	18/09/2025
MCQ Quote Number	ECA-2639-15	Date Analysis Started	18/09/2025
Purchase Order Number	131711	Completion Date	08/10/2025
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted],

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Laboratory Technical Supervisor

Date Issued: 08/10/2025

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035935**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ151520	**CLS LTP**	17/09/2025	SAM031	Ammonia as N	<0.11	mg/l	Y	McQ	
			N/A	Cadmium (tot.unfilt)	<0.5	ug/l	Y	S	
			N/A	Chromium (tot.unfilt)	<3	ug/l	Y	S	
			SAM009	COD (Total)	42.0	mg/l	Y	McQ	
			N/A	Copper (tot.unfilt)	6.73	ug/l	Y	S	
			N/A	Lead (tot.unfilt)	<1	ug/l	Y	S	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			N/A	Nickel (tot.unfilt)	2.5	ug/l	Y	S	
			SAM004	pH	7.72	Units	Y	McQ	
			SAM001	Suspended Solids	51.0	mg/l	Y	McQ	
			N/A	Zinc (tot.unfilt)	23.7	ug/l	Y	S	
				Alkylphenols by GCMS (W)	-				
			N/A	4-n-Octylphenol	<0.050	ug/l	N	S	
			N/A	4-Nonylphenol	<0.050	ug/l	N	S	
			N/A	4-t-Octlyphenol monoethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol diethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol triethoxylate	<0.010	ug/l	N	S	
			N/A	Nonlyphenol	<0.050	ug/l	N	S	
			N/A	Nonylphenol diethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol monoethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol triethoxylate	<0.050	ug/l	N	S	
				McQuillan List 1 (W)	-				
			N/A	1,1-Dichloroethane	<1	ug/l	Y	S	
			N/A	1,1-Dichloroethene	<1	ug/l	Y	S	
			N/A	1,1-Dichloropropene	<1	ug/l	Y	S	
			N/A	1,1,1-Trichloroethane	<1	ug/l	Y	S	
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	Y	S	
			N/A	1,1,2-Trichloroethane	<1	ug/l	Y	S	
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	Y	S	
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	
			N/A	1,2-Dibromoethane	<1	ug/l	Y	S	
			N/A	1,2-Dichlorobenzene	<1	ug/l	Y	S	
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2-Dichloroethane	<1	ug/l	Y	S	
			N/A	1,2-Dichloropropane	<1	ug/l	Y	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	Y	S	
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,3-Trichloropropane	<1	ug/l	Y	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	Y	S	
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	Y	S	
			N/A	1,3-Dichlorobenzene	<1	ug/l	Y	S	
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	1,3-Dichloropropane	<1	ug/l	Y	S	
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	Y	S	
			N/A	1,4-Dichlorobenzene	<1	ug/l	Y	S	
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	
			N/A	2-Chlorotoluene	<1	ug/l	Y	S	
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	
			N/A	2,3,6-Trichlorobenzoic acid	<5	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035935**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2,4-DB	<10	ug/l	N	S	
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,4,5-Trichlorophenoxyacetic acid	<5	ug/l	N	S	
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Bromofluorobenzene**	97.3	%	N	S	
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	
			N/A	4-Chlorotoluene	<1	ug/l	Y	S	
			N/A	4-iso-Propyltoluene	<1	ug/l	Y	S	
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	
			N/A	Alachlor	<0.05	ug/l	N	S	
			N/A	Aldrin	<0.2	ug/l	N	S	
			N/A	alpha-HCH	<0.2	ug/l	N	S	
			N/A	Anthracene (aq)	<1	ug/l	N	S	
			N/A	Atrazine	<0.05	ug/l	N	S	
			N/A	Azinphos ethyl	<0.1	ug/l	N	S	
			N/A	Azinphos methyl	<0.1	ug/l	N	S	
			N/A	Azobenzene (aq)	<1	ug/l	N	S	
			N/A	Benazolin	<4	ug/l	N	S	
			N/A	Benzene	<1	ug/l	Y	S	
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	
			N/A	beta-HCH	<0.2	ug/l	N	S	
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	
			N/A	Bromobenzene	<1	ug/l	Y	S	
			N/A	Bromochloromethane	<1	ug/l	Y	S	
			N/A	Bromodichloromethane	<1	ug/l	Y	S	
			N/A	Bromoform	<2	ug/l	Y	S	
			N/A	Bromomethane	<1	ug/l	Y	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035935**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Bromoxynil	<4	ug/l	N	S	
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Cadmium (diss.filt) -s	<0.08	ug/l	Y	S	
			N/A	Carbazole (aq)	<1	ug/l	N	S	
			N/A	Carbon disulphide	<1	ug/l	Y	S	
			N/A	Carbontetrachloride	<1	ug/l	Y	S	
			N/A	Carbophenothion	<0.05	ug/l	N	S	
			N/A	Chlorfenvinphos	<0.05	ug/l	N	S	
			N/A	Chlorobenzene	<1	ug/l	Y	S	
			N/A	Chloroethane	<1	ug/l	Y	S	
			N/A	Chloroform	<1	ug/l	Y	S	
			N/A	Chloromethane	<1	ug/l	Y	S	
			N/A	Chlorothalonil	<0.05	ug/l	N	S	
			N/A	Chlorpyriphos	<0.05	ug/l	N	S	
			N/A	Chlorpyriphos-methyl	<0.05	ug/l	N	S	
			N/A	Chrysene (aq)	<1	ug/l	N	S	
			N/A	cis-1,2-Dichloroethene	<1	ug/l	Y	S	
			N/A	cis-1,3-Dichloropropene	<1	ug/l	Y	S	
			N/A	cis-Chlordane	<0.2	ug/l	N	S	
			N/A	Clopyralid	<4	ug/l	N	S	
			N/A	Coumaphos	<0.05	ug/l	N	S	
			N/A	Cyanazine	<0.05	ug/l	N	S	
			N/A	Cyanide, Free -s	<0.05	mg/l	Y	S	
			N/A	Cyanide, Total -s	<0.05	mg/l	Y	S	
			N/A	delta-HCH	<0.2	ug/l	N	S	
			N/A	Demeton-S-methyl	<0.05	ug/l	N	S	
			N/A	Diazinon	<0.05	ug/l	N	S	
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	
			N/A	Dibromochloromethane	<1	ug/l	Y	S	
			N/A	Dibromofluoromethane**	98.4	%	N	S	
			N/A	Dibromomethane	<1	ug/l	Y	S	
			N/A	Dibutyl tin	<5	ng/l	N	S	
			N/A	Dicamba	<4	ug/l	N	S	
			N/A	Dichlobenil	<0.05	ug/l	N	S	
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	
			N/A	Dichloromethane	<3	ug/l	Y	S	
			N/A	Dichlorprop	<10	ug/l	N	S	
			N/A	Dichlorvos	<0.05	ug/l	N	S	
			N/A	Dieldrin	<0.2	ug/l	N	S	
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dimethoate	<0.05	ug/l	N	S	
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	
			N/A	Dinitro-o-cresol	<10	ug/l	N	S	
			N/A	Disulfoton	<0.05	ug/l	N	S	
			N/A	Endosulphan I	<0.2	ug/l	N	S	
			N/A	Endosulphan II	<0.4	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035935**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Endosulphan Sulphate	<0.4	ug/l	N	S	
			N/A	Endrin	<0.2	ug/l	N	S	
			N/A	Ethion	<0.05	ug/l	N	S	
			N/A	Ethylbenzene	<1	ug/l	Y	S	
			N/A	Etridiazole	<0.05	ug/l	N	S	
			N/A	Etrimphos	<0.05	ug/l	N	S	
			N/A	Fenchlorophos	<0.05	ug/l	N	S	
			N/A	Fenitrothion	<0.05	ug/l	N	S	
			N/A	Fenoprop (Silvex)	<10	ug/l	N	S	
			N/A	Fenthion	<0.05	ug/l	N	S	
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	
			N/A	Fluorene (aq)	<1	ug/l	N	S	
			N/A	Fluoroxypyr	<10	ug/l	N	S	
			N/A	gamma-HCH (Lindane)	<0.2	ug/l	N	S	
			N/A	Heptachlor	<0.2	ug/l	N	S	
			N/A	Heptachlor epoxide	<0.2	ug/l	N	S	
			N/A	Hexachlorobenzene	<0.05	ug/l	N	S	
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	
			N/A	Hexachlorobutadiene	<1	ug/l	Y	S	
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	
			N/A	Ioxynil	<5	ug/l	N	S	
			N/A	Isodrin	<0.2	ug/l	N	S	
			N/A	Isophorone (aq)	<1	ug/l	N	S	
			N/A	Isopropylbenzene	<1	ug/l	Y	S	
			N/A	m,p-Xylene	<1	ug/l	Y	S	
			N/A	Malathion	<0.05	ug/l	N	S	
			N/A	MCPA	<5	ug/l	N	S	
			N/A	MCPB	<5	ug/l	N	S	
			N/A	Mecoprop	<4	ug/l	N	S	
			N/A	Mercury (diss.filt) -s	<0.01	ug/l	Y	S	
			N/A	Metazachlor	<0.05	ug/l	N	S	
			N/A	Methyl Parathion	<0.05	ug/l	N	S	
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	Y	S	
			N/A	Mevinphos	<0.05	ug/l	N	S	
			N/A	Mineral oil >C10 C40 (aq) -s	<100	ug/l	N	S	
			N/A	n-Butylbenzene	<1	ug/l	Y	S	
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	
			N/A	Naphthalene	<1	ug/l	Y	S	
			N/A	Naphthalene (aq)	<1	ug/l	N	S	
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035935**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	o-Xylene	<1	ug/l	Y	S	
			N/A	o,p'-DDD (TDE)	<0.2	ug/l	N	S	
			N/A	o,p'-DDE	<0.2	ug/l	N	S	
			N/A	o,p'-DDT	<0.2	ug/l	N	S	
			N/A	o,p'-Methoxychlor	<0.2	ug/l	N	S	
			N/A	p,p'-DDD (TDE)	<0.2	ug/l	N	S	
			N/A	p,p'-DDE	<0.2	ug/l	N	S	
			N/A	p,p'-DDT	<0.2	ug/l	N	S	
			N/A	p,p'-Methoxychlor	<0.2	ug/l	N	S	
			N/A	Parathion	<0.05	ug/l	N	S	
			N/A	Pendimethalin	<0.05	ug/l	N	S	
			N/A	Pentachlorobenzene	<0.05	ug/l	N	S	
			N/A	Pentachlorophenol	<4	ug/l	N	S	
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	
			N/A	Permethrin I	<0.2	ug/l	N	S	
			N/A	Permethrin II	<0.2	ug/l	N	S	
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	
			N/A	Phenol (aq)	<1	ug/l	N	S	
			N/A	Phorate	<0.05	ug/l	N	S	
			N/A	Phosalone	<0.05	ug/l	N	S	
			N/A	Phosphamidon I	NDP	ug/l	N	S	Θ
			N/A	Phosphamidon II	NDP	ug/l	N	S	Θ
			N/A	Pirimiphos-methyl	<0.05	ug/l	N	S	
			N/A	Prometryn	<0.05	ug/l	N	S	
			N/A	Propachlor	<0.05	ug/l	N	S	
			N/A	Propazine	<0.05	ug/l	N	S	
			N/A	Propetamphos	<0.05	ug/l	N	S	
			N/A	Propylbenzene	<1	ug/l	Y	S	
			N/A	Propyzamide	<0.05	ug/l	N	S	
			N/A	Pyrene (aq)	<1	ug/l	N	S	
			N/A	Quintozene (PCNB)	<0.05	ug/l	N	S	
			N/A	sec-Butylbenzene	<1	ug/l	Y	S	
			N/A	Simazine	<0.05	ug/l	N	S	
			N/A	Styrene	<1	ug/l	Y	S	
			N/A	Surrogate**	81.5	%	N	S	@
			N/A	Tecnazene	<0.05	ug/l	N	S	
			N/A	Telodrin	<0.05	ug/l	N	S	
			N/A	Terbutryn	<0.05	ug/l	N	S	
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	Y	S	
			N/A	tert-Butylbenzene	<1	ug/l	Y	S	
			N/A	Tetrabutyl tin	<2	ng/l	N	S	
			N/A	Tetrachloroethene	<1	ug/l	Y	S	
			N/A	Toluene	<1	ug/l	Y	S	
			N/A	Toluene-d8**	99.7	%	N	S	
			N/A	trans-1,2-Dichloroethene	<1	ug/l	Y	S	
			N/A	trans-1,3-Dichloropropene	<1	ug/l	Y	S	
			N/A	trans-Chlordane	<0.2	ug/l	N	S	

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC035935**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Triadimefon	<0.05	ug/l	N	S	
			N/A	Triallate	<0.05	ug/l	N	S	
			N/A	Triazophos	<0.05	ug/l	N	S	
			N/A	Tributyl tin	<1	ng/l	N	S	
			N/A	Trichloroethene	<1	ug/l	Y	S	
			N/A	Trichlorofluoromethane	<1	ug/l	Y	S	
			N/A	Triclopyr	<5	ug/l	N	S	
			N/A	Trietazine	<0.05	ug/l	N	S	
			N/A	Trifluralin	<0.2	ug/l	N	S	
			N/A	Triphenyl tin	<1	ng/l	N	S	
			N/A	Vinyl chloride	<1	ug/l	Y	S	
				Sub Ureas (GEO37)		-			
			N/A	Chlorotoluron	<0.10	ug/l	Y	S	
			N/A	Diuron	<0.10	ug/l	Y	S	
			N/A	Isoproturon	<0.10	ug/l	Y	S	
			N/A	Linuron	<0.10	ug/l	Y	S	
			N/A	Methabenzthiazuron	<0.10	ug/l	Y	S	
			N/A	Monolinuron	<0.10	ug/l	Y	S	
			N/A	Monuron	<0.10	ug/l	Y	S	
Time Sampled: 13:01	**Sample Matrix:**	Landfill Leachate	**Analyst Comment:**	NDP - No Determination Possible.					

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	Ş	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø	Reporting limit raised due to sample matrix interference	❟
Container with headspace provided for Volatiles analysis	¥	Deviation from method	◊
Matrix Interference	∞	Unsuitable sample	Θ

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC036715**
Issue No.: **1**

Amendment to report: -

Derry City & Strabane District Council
C/O Council Offices
Derry

McQuillan Envirocare Ltd t/a McQuillan Environmental
Caulside Drive, New Park Industrial Estate
Antrim, BT41 2DU

Tel: (028) 9446 6708
Fax: (028) 9442 9580

www.mcquillancompanies.com
samplebooking@mcqcos.com

MCQ Job Number	ORD-38516	Sample Receipt Date	11/12/2025
MCQ Quote Number	ECA-2639-15	Date Analysis Started	11/12/2025
Purchase Order Number	132730	Completion Date	30/01/2026
No. of Samples	1	Turnaround Time	10 working days

Dear [redacted],

Analysis of your sample(s) is now complete and we have pleasure in enclosing the appropriate test report.

All analysis was completed within McQuillan Environmental Analytical Laboratory (MCQ) unless otherwise specified. Results relate only to the items tested. Any analysis that was subcontracted to an approved laboratory is indicated by 'S'. Please refer to the table at the end of your test certificate for explanations of sample deviations.

Where sample data is provided by the customer, the results relate to the sample supplied and on the basis that this data is correct. Incorrect sampling dates and/or sample information will affect the validity of results. This Test Certificate supersedes any version previously issued by the laboratory. The report shall not be reproduced except in full without approval of the laboratory.

Should you have any queries regarding this report(s) or any part of our service, please contact Sample Booking on 028 9448 3195 who will be happy to discuss your requirements.

Thank you for using our Laboratory and we look forward to receiving your next samples.

Yours Sincerely [redacted]

Report Authorised [redacted] Position: Laboratory Technical Supervisor

Date Issued: 30/01/2026

UKAS TESTING
4209

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC036715**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ154827	**CLS LTP**	11/12/2025	SAM031	Ammonia as N	3.44	mg/l	Y	McQ	
			SAM038TT	Cadmium Tot	<0.976	ug/l	Y	McQ	
			N/A	Chloronitroltoluenes (Individuals)	<5.0	ug/l	N	S	
			SAM038TT	Chromium Tot	<4.058	ug/l	Y	McQ	
			SAM009	COD (Total)	37.0	mg/l	Y	McQ	
			SAM038TT	Copper Tot	<7.918	ug/l	Y	McQ	
			SAM038TT	Lead Tot	0.43	ug/l	Y	McQ	
			N/A	Mercury (tot.unfilt)	<0.02	ug/l	Y	S	
			SAM038TT	Nickel Tot	4.22	ug/l	Y	McQ	
			SAM004	pH	7.56	Units	Y	McQ	±
			SAM001	Suspended Solids	15.0	mg/l	Y	McQ	
			SAM038TT	Zinc Tot	<34.667	ug/l	Y	McQ	
				Alkylphenols by GCMS (W)	-				
			N/A	4-n-Octylphenol	<0.050	ug/l	N	S	
			N/A	4-Nonylphenol	<0.050	ug/l	N	S	
			N/A	4-t-Octlyphenol monoethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol diethoxylate	<0.010	ug/l	N	S	
			N/A	4-t-Octylphenol triethoxylate	<0.010	ug/l	N	S	
			N/A	Nonlyphenol	<0.050	ug/l	N	S	
			N/A	Nonylphenol diethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol monoethoxylate	<0.050	ug/l	N	S	
			N/A	Nonylphenol triethoxylate	<0.050	ug/l	N	S	
				McQuillan List 1 (W)	-				
			N/A	1,1-Dichloroethane	<1	ug/l	Y	S	8
			N/A	1,1-Dichloroethene	<1	ug/l	Y	S	8
			N/A	1,1-Dichloropropene	<1	ug/l	Y	S	8
			N/A	1,1,1-Trichloroethane	<1	ug/l	Y	S	8
			N/A	1,1,1,2-Tetrachloroethane	<1	ug/l	Y	S	8
			N/A	1,1,2-Trichloroethane	<1	ug/l	Y	S	8
			N/A	1,1,2,2-Tetrachloroethane	<1	ug/l	Y	S	8
			N/A	1,2-Dibromo-3-chloropropane	<1	ug/l	N	S	8
			N/A	1,2-Dibromoethane	<1	ug/l	Y	S	8
			N/A	1,2-Dichlorobenzene	<1	ug/l	Y	S	8
			N/A	1,2-Dichlorobenzene (aq)	<1	ug/l	N	S	8
			N/A	1,2-Dichloroethane	<1	ug/l	Y	S	8
			N/A	1,2-Dichloropropane	<1	ug/l	Y	S	8
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	N	S	8
			N/A	1,2,3-Trichlorobenzene	<1	ug/l	Y	S	8
			N/A	1,2,3-Trichloropropane	<1	ug/l	Y	S	8
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	Y	S	8
			N/A	1,2,4-Trichlorobenzene	<1	ug/l	N	S	8
			N/A	1,2,4-Trichlorobenzene (aq)	<1	ug/l	N	S	8
			N/A	1,2,4-Trimethylbenzene	<1	ug/l	Y	S	8
			N/A	1,3-Dichlorobenzene	<1	ug/l	Y	S	8
			N/A	1,3-Dichlorobenzene (aq)	<1	ug/l	N	S	8
			N/A	1,3-Dichloropropane	<1	ug/l	Y	S	8
			N/A	1,3,5-Trichlorobenzene	<1	ug/l	N	S	8
			N/A	1,3,5-Trimethylbenzene	<1	ug/l	Y	S	8
			N/A	1,4-Dichlorobenzene	<1	ug/l	Y	S	8
			N/A	1,4-Dichlorobenzene (aq)	<1	ug/l	N	S	8
			N/A	2-Chloronaphthalene (aq)	<1	ug/l	N	S	8
			N/A	2-Chlorophenol (aq)	<1	ug/l	N	S	8
			N/A	2-Chlorotoluene	<1	ug/l	Y	S	8
			N/A	2-Methylnaphthalene (aq)	<1	ug/l	N	S	8
			N/A	2-Methylphenol (aq)	<1	ug/l	N	S	8
			N/A	2-Nitroaniline (aq)	<1	ug/l	N	S	8
			N/A	2-Nitrophenol (aq)	<1	ug/l	N	S	8

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC036715**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	2,2-Dichloropropane	<1	ug/l	N	S	8
			N/A	2,3,6-Trichlorobenzoic acid	<0.05	ug/l	N	S	8
			N/A	2,4-DB	<0.1	ug/l	N	S	8
			N/A	2,4-Dichlorophenol (aq)	<1	ug/l	N	S	8
			N/A	2,4-Dichlorophenoxyacetic acid	<0.05	ug/l	N	S	8
			N/A	2,4-Dimethylphenol (aq)	<1	ug/l	N	S	8
			N/A	2,4-Dinitrotoluene (aq)	<1	ug/l	N	S	8
			N/A	2,4,5-Trichlorophenol (aq)	<1	ug/l	N	S	8
			N/A	2,4,5-Trichlorophenoxyacetic acid	<0.05	ug/l	N	S	8
			N/A	2,4,6-Trichlorophenol (aq)	<1	ug/l	N	S	8
			N/A	2,6-Dinitrotoluene (aq)	<1	ug/l	N	S	8
			N/A	3-Nitroaniline (aq)	<1	ug/l	N	S	8
			N/A	4-Bromofluorobenzene**	94.4	%	N	S	8
			N/A	4-Bromophenylphenylether (aq)	<1	ug/l	N	S	8
			N/A	4-Chloro-3-methylphenol (aq)	<1	ug/l	N	S	8
			N/A	4-Chloroaniline (aq)	<1	ug/l	N	S	8
			N/A	4-Chlorophenylphenylether (aq)	<1	ug/l	N	S	8
			N/A	4-Chlorotoluene	<1	ug/l	Y	S	8
			N/A	4-iso-Propyltoluene	<1	ug/l	Y	S	8
			N/A	4-Methylphenol (aq)	<1	ug/l	N	S	8
			N/A	4-Nitroaniline (aq)	<1	ug/l	N	S	8
			N/A	4-Nitrophenol (aq)	<1	ug/l	N	S	8
			N/A	Acenaphthene (aq)	<1	ug/l	N	S	8
			N/A	Acenaphthylene (aq)	<1	ug/l	N	S	8
			N/A	Alachlor	<0.05	ug/l	N	S	8
			N/A	Aldrin	<0.05	ug/l	N	S	8
			N/A	alpha-HCH	<0.05	ug/l	N	S	8
			N/A	Anthracene (aq)	<1	ug/l	N	S	8
			N/A	Atrazine	<0.02	ug/l	N	S	8
			N/A	Azinphos ethyl	<0.04	ug/l	N	S	8
			N/A	Azinphos methyl	<0.04	ug/l	N	S	8
			N/A	Azobenzene (aq)	<1	ug/l	N	S	8
			N/A	Benazolin	<0.04	ug/l	N	S	8
			N/A	Benzene	<1	ug/l	Y	S	8
			N/A	Benzo(a)anthracene (aq)	<1	ug/l	N	S	8
			N/A	Benzo(a)pyrene (aq)	<1	ug/l	N	S	8
			N/A	Benzo(b)fluoranthene (aq)	<1	ug/l	N	S	8
			N/A	Benzo(g,h,i)perylene (aq)	<1	ug/l	N	S	8
			N/A	Benzo(k)fluoranthene (aq)	<1	ug/l	N	S	8
			N/A	beta-HCH	<0.05	ug/l	N	S	8
			N/A	bis(2-Chloroethoxy)methane (aq)	<1	ug/l	N	S	8
			N/A	bis(2-Chloroethyl)ether (aq)	<1	ug/l	N	S	8
			N/A	bis(2-Ethylhexyl) phthalate (aq)	<2	ug/l	N	S	8
			N/A	Bromobenzene	<1	ug/l	Y	S	8
			N/A	Bromochloromethane	<1	ug/l	Y	S	8
			N/A	Bromodichloromethane	<1	ug/l	Y	S	8

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC036715**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Bromoform	<1	ug/l	Y	S	8
			N/A	Bromomethane	<1	ug/l	Y	S	8
			N/A	Bromoxynil	<0.04	ug/l	N	S	8
			N/A	Butylbenzyl phthalate (aq)	<1	ug/l	N	S	8
			N/A	Cadmium (diss.filt) -s	<0.08	ug/l	Y	S	8
			N/A	Carbazole (aq)	<1	ug/l	N	S	8
			N/A	Carbon disulphide	<1	ug/l	Y	S	8
			N/A	Carbontetrachloride	<1	ug/l	Y	S	8
			N/A	Carbophenothion	<0.02	ug/l	N	S	8
			N/A	Chlorfenvinphos	<0.02	ug/l	N	S	8
			N/A	Chlorobenzene	<1	ug/l	Y	S	8
			N/A	Chloroethane	<1	ug/l	Y	S	8
			N/A	Chloroform	<1	ug/l	Y	S	8
			N/A	Chloromethane	<1	ug/l	Y	S	8
			N/A	Chlorothalonil	<0.05	ug/l	N	S	8
			N/A	Chlorpyriphos	<0.02	ug/l	N	S	8
			N/A	Chlorpyriphos-methyl	<0.02	ug/l	N	S	8
			N/A	Chrysene (aq)	<1	ug/l	N	S	8
			N/A	cis-1,2-Dichloroethene	<1	ug/l	Y	S	8
			N/A	cis-1,3-Dichloropropene	<1	ug/l	Y	S	8
			N/A	cis-Chlordane	<0.05	ug/l	N	S	8
			N/A	Clopyralid	<0.04	ug/l	N	S	8
			N/A	Coumaphos	<0.05	ug/l	N	S	8
			N/A	Cyanazine	<0.05	ug/l	N	S	8
			N/A	Cyanide, Free -s	<0.05	mg/l	Y	S	8
			N/A	Cyanide, Total -s	<0.05	mg/l	Y	S	8
			N/A	delta-HCH	<0.05	ug/l	N	S	8
			N/A	Demeton-S-methyl	<0.02	ug/l	N	S	8
			N/A	Diazinon	<0.02	ug/l	N	S	8
			N/A	Dibenzo(a,h)anthracene (aq)	<1	ug/l	N	S	8
			N/A	Dibenzofuran (aq)	<1	ug/l	N	S	8
			N/A	Dibromochloromethane	<1	ug/l	Y	S	8
			N/A	Dibromofluoromethane**	107	%	N	S	8
			N/A	Dibromomethane	<1	ug/l	Y	S	8
			N/A	Dibutyl tin	<5	ng/l	N	S	8
			N/A	Dicamba	<0.04	ug/l	N	S	8
			N/A	Dichlobenil	<0.02	ug/l	N	S	8
			N/A	Dichlorodifluoromethane	<1	ug/l	N	S	8
			N/A	Dichloromethane	<3	ug/l	Y	S	8
			N/A	Dichlorprop	<0.1	ug/l	N	S	8
			N/A	Dichlorvos	<0.02	ug/l	N	S	8
			N/A	Dieldrin	<0.05	ug/l	N	S	8
			N/A	Diethyl phthalate (aq)	<1	ug/l	N	S	8
			N/A	Dimethoate	<0.02	ug/l	N	S	8
			N/A	Dimethyl phthalate (aq)	<1	ug/l	N	S	8
			N/A	Dinitro-o-cresol	<0.1	ug/l	N	S	8
			N/A	Disulfoton	<0.02	ug/l	N	S	8

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Endosulphan I	<0.05	ug/l	N	S	8
			N/A	Endosulphan II	<0.1	ug/l	N	S	8
			N/A	Endosulphan Sulphate	<0.1	ug/l	N	S	8
			N/A	Endrin	<0.05	ug/l	N	S	8
			N/A	Ethion	<0.02	ug/l	N	S	8
			N/A	Ethylbenzene	<1	ug/l	Y	S	8
			N/A	Etridiazole	<0.05	ug/l	N	S	8
			N/A	Etrimphos	<0.05	ug/l	N	S	8
			N/A	Fenchlorophos	<0.02	ug/l	N	S	8
			N/A	Fenitrothion	<0.02	ug/l	N	S	8
			N/A	Fenoprop (Silvex)	<0.1	ug/l	N	S	8
			N/A	Fenthion	<0.02	ug/l	N	S	8
			N/A	Fluoranthene (aq)	<1	ug/l	N	S	8
			N/A	Fluorene (aq)	<1	ug/l	N	S	8
			N/A	Fluoroxypyr	<0.1	ug/l	N	S	8
			N/A	gamma-HCH (Lindane)	<0.05	ug/l	N	S	8
			N/A	Heptachlor	<0.05	ug/l	N	S	8
			N/A	Heptachlor epoxide	<0.05	ug/l	N	S	8
			N/A	Hexachlorobenzene	<0.02	ug/l	N	S	8
			N/A	Hexachlorobenzene (aq)	<1	ug/l	N	S	8
			N/A	Hexachlorobutadiene	<1	ug/l	N	S	8
			N/A	Hexachlorobutadiene	<1	ug/l	Y	S	8
			N/A	Hexachlorobutadiene (aq)	<1	ug/l	N	S	8
			N/A	Hexachlorocyclopentadiene (aq)	<1	ug/l	N	S	8
			N/A	Hexachloroethane (aq)	<1	ug/l	N	S	8
			N/A	Indeno(1,2,3-cd)pyrene (aq)	<1	ug/l	N	S	8
			N/A	Ioxynil	<0.05	ug/l	N	S	8
			N/A	Isodrin	<0.05	ug/l	N	S	8
			N/A	Isophorone (aq)	<1	ug/l	N	S	8
			N/A	Isopropylbenzene	<1	ug/l	Y	S	8
			N/A	m,p-Xylene	<1	ug/l	Y	S	8
			N/A	Malathion	<0.02	ug/l	N	S	8
			N/A	MCPA	<0.05	ug/l	N	S	8
			N/A	MCPB	<0.05	ug/l	N	S	8
			N/A	Mecoprop	<0.04	ug/l	N	S	8
			N/A	Mercury (diss.filt) -s	<0.01	ug/l	Y	S	8
			N/A	Metazachlor	<0.05	ug/l	N	S	8
			N/A	Methyl Parathion	<0.02	ug/l	N	S	8
			N/A	Methyl tertiary butyl ether (MTBE)	<1	ug/l	Y	S	8
			N/A	Mevinphos	<0.02	ug/l	N	S	8
			N/A	Mineral oil >C10 C40 (aq) -s	<100	ug/l	N	S	8
			N/A	n-Butylbenzene	<1	ug/l	Y	S	8
			N/A	n-Dibutyl phthalate (aq)	<1	ug/l	N	S	8
			N/A	n-Dioctyl phthalate (aq)	<5	ug/l	N	S	8
			N/A	n-Nitroso-n-dipropylamine (aq)	<1	ug/l	N	S	8
			N/A	Naphthalene	<1	ug/l	Y	S	8

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC036715**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	Naphthalene (aq)	<1	ug/l	N	S	8
			N/A	Nitrobenzene (aq)	<1	ug/l	N	S	8
			N/A	o-Xylene	<1	ug/l	Y	S	8
			N/A	o,p'-DDD (TDE)	<0.05	ug/l	N	S	8
			N/A	o,p'-DDE	<0.05	ug/l	N	S	8
			N/A	o,p'-DDT	<0.05	ug/l	N	S	8
			N/A	o,p'-Methoxychlor	<0.05	ug/l	N	S	8
			N/A	p,p'-DDD (TDE)	<0.05	ug/l	N	S	8
			N/A	p,p'-DDE	<0.05	ug/l	N	S	8
			N/A	p,p'-DDT	<0.05	ug/l	N	S	8
			N/A	p,p'-Methoxychlor	<0.05	ug/l	N	S	8
			N/A	Parathion	<0.02	ug/l	N	S	8
			N/A	Pendimethalin	<0.02	ug/l	N	S	8
			N/A	Pentachlorobenzene	<0.05	ug/l	N	S	8
			N/A	Pentachlorophenol	<0.04	ug/l	N	S	8
			N/A	Pentachlorophenol (aq)	<1	ug/l	N	S	8
			N/A	Permethrin I	<0.05	ug/l	N	S	8
			N/A	Permethrin II	<0.05	ug/l	N	S	8
			N/A	Phenanthrene (aq)	<1	ug/l	N	S	8
			N/A	Phenol (aq)	<1	ug/l	N	S	8
			N/A	Phorate	<0.02	ug/l	N	S	8
			N/A	Phosalone	<0.02	ug/l	N	S	8
			N/A	Phosphamidon I	<0.05	ug/l	N	S	8
			N/A	Phosphamidon II	<0.05	ug/l	N	S	8
			N/A	Pirimiphos-methyl	<0.02	ug/l	N	S	8
			N/A	Prometryn	<0.05	ug/l	N	S	8
			N/A	Propachlor	<0.05	ug/l	N	S	8
			N/A	Propazine	<0.05	ug/l	N	S	8
			N/A	Propetamphos	<0.02	ug/l	N	S	8
			N/A	Propylbenzene	<1	ug/l	Y	S	8
			N/A	Propyzamide	<0.05	ug/l	N	S	8
			N/A	Pyrene (aq)	<1	ug/l	N	S	8
			N/A	Quintozene (PCNB)	<0.05	ug/l	N	S	8
			N/A	sec-Butylbenzene	<1	ug/l	Y	S	8
			N/A	Simazine	<0.02	ug/l	N	S	8
			N/A	Styrene	<1	ug/l	Y	S	8
			N/A	Surrogate**	70	%	N	S	@, 8
			N/A	Tecnazene	<0.02	ug/l	N	S	8
			N/A	Telodrin	<0.05	ug/l	N	S	8
			N/A	Terbutryn	<0.05	ug/l	N	S	8
			N/A	tert-Amyl methyl ether (TAME)	<1	ug/l	Y	S	8
			N/A	tert-Butylbenzene	<1	ug/l	Y	S	8
			N/A	Tetrabutyl tin	<2	ng/l	N	S	8
			N/A	Tetrachloroethene	<1	ug/l	Y	S	8
			N/A	Toluene	<1	ug/l	Y	S	8
			N/A	Toluene-d8**	98.6	%	N	S	8
			N/A	trans-1,2-Dichloroethene	<1	ug/l	Y	S	8

MCQUILLAN ENVIRONMENTAL

Test Certificate

Certificate: **ECTC036715**
Issue No.: **1**

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
			N/A	trans-1,3-Dichloropropene	<1	ug/l	Y	S	8
			N/A	trans-Chlordane	<0.05	ug/l	N	S	8
			N/A	Triadimefon	<0.02	ug/l	N	S	8
			N/A	Triallate	<0.02	ug/l	N	S	8
			N/A	Triazophos	<0.02	ug/l	N	S	8
			N/A	Tributyl tin	<1	ng/l	N	S	8
			N/A	Trichloroethene	<1	ug/l	Y	S	8
			N/A	Trichlorofluoromethane	<1	ug/l	Y	S	8
			N/A	Triclopyr	<0.05	ug/l	N	S	8
			N/A	Trietazine	<0.05	ug/l	N	S	8
			N/A	Trifluralin	<0.05	ug/l	N	S	8
			N/A	Triphenyl tin	<1	ng/l	N	S	8
			N/A	Vinyl chloride	<1	ug/l	Y	S	8
				Sub Ureas (GEO37)	-				
			N/A	Chlorotoluron	<0.50	ug/l	Y	S	8
			N/A	Diuron	<0.50	ug/l	Y	S	8
			N/A	Isoproturon	<0.50	ug/l	Y	S	8
			N/A	Linuron	<0.50	ug/l	Y	S	8
			N/A	Methabenzthiazuron	<0.50	ug/l	Y	S	8
			N/A	Monolinuron	<0.50	ug/l	Y	S	8
			N/A	Monuron	<0.50	ug/l	Y	S	8

Sample Matrix: Landfill Leachate

Analyst Comment:

Time Sampled:
Not Provided

This sample has been analysed for Sub Ureas Waters method GEO37 outside recommended stability times. It is therefore possible that the results provided may be compromised.

Sample Deviations:

Sample Deviations Legend - Results may be compromised if the following deviations apply			
Comment	C	Incorrect Container	‡
Container with Headspace provided	8	Insufficient sample volume	Ë
BOD Overdiluted, therefore result indicative only	Ş	BOD Underdiluted, therefore result indicative only	#
High Chloride concentration, COD could not be determined	§	Holding time exceeded due to sampled on date/time	@
Holding time exceeded in Lab	±	Holding time exceeded due to delayed instructions	&
Sample integrity Jeopardized in receipt	Ø	Reporting limit raised due to sample matrix interference	❟
Container with headspace provided for Volatiles analysis	¥	Deviation from method	◊
Matrix Interference	∞	Unsuitable sample	Θ