

Amendment To Report:

Veolia Water Outsourcing Ltd
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Belfast
BT3 9AR

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

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MCQ Job Number	ORD-32228	Sample Receipt Date	13/02/2024
MCQ Quote Number	ECA-5528-2	Date Analysis Started	15/02/2024
Purchase Order Number	Card	Completion Date	07/03/2024
No. of Samples	10	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 by:

[REDACTED]

Position: Senior Lab Administrator

Date Issued: 07/03/2024

Lab Ref	Sample Details	Sample Date	Method No.	Test	Result	Units	ACC	Lab	Sample Deviations
MCQ131012	Antrim	07/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 13:25 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131013	Portrush	06/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 00:00 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131014	Ballynacor	06/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 00:00 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131015	Kinnegar	07/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 12:11 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131016	New Holland	06/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 00:00 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131017	Culmore	07/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 13:05 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131018	Omagh	07/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 07:57 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131019	Enniskillen	07/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 06:52 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131020	Strabane	08/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 00:00 Sample Matrix: Sludge (S) Analyst Comments:									
MCQ131021	Dunmurray	08/02/2024	N/A	Veolia Sludge Suite	See below	-	N	S	
Time Sampled: 14:59 Sample Matrix: Sludge (S) Analyst Comments:									

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	∅		

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : ANTRIM

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156240
Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton	
pH 1:6 [Fresh]		8.14		
Oven Dry Matter	%	30.0	300.0	kg DM
Total Nitrogen	% w/w	4.77	28.62	Units N
Ammonium Nitrogen	mg/kg	16881	10.13	Units NH ₄ -N
Total Phosphorus (P)	% w/w	1.71	23.50	Units P ₂ O ₅
Total Potassium (K)	% w/w	0.148	1.07	Units K ₂ O
Total Magnesium (Mg)	% w/w	0.337	3.36	Units MgO
Total Sulphur (S)	% w/w	0.667	10.01	Units SO ₃
Total Copper (Cu)	mg/kg	96.2	0.03	kg Cu
Total Zinc (Zn)	mg/kg	362	0.11	kg Zn
Total Calcium (Ca)	mg/kg	16286	4.89	kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : ANTRIM

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156240

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	16286
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	4053
Total Iron (Fe)	mg/kg	30520
Total Molybdenum (Mo)	mg/kg	2.64
Total Manganese (Mn)	mg/kg	262
Total Lead (Pb)	mg/kg	13.7
Total Cadmium (Cd)	mg/kg	0.301
Total Mercury (Hg)	mg/kg	0.276
Total Nickel (Ni)	mg/kg	20.9
Total Chromium (Cr)	mg/kg	19.2
Organic Matter LOI	% w/w	80.6
Lime Equivalent as CaCO ₃	% w/w	<2
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	40.8
Total Arsenic (As)	mg/kg	1.89
Total Selenium (Se)	mg/kg	0.755
Total Boron (B)	mg/kg	8.64

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : ANTRIM

Sample Matrix : WASTE

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The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156240

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	63000
Salmonella spp [fresh]	in 25g	Positive
N. V. as CaO equivalents	% w/w	<1

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : PORTRUSH

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156241

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		8.38	
Oven Dry Matter	%	24.7	247.0 kg DM
Total Nitrogen	% w/w	6.06	29.94 Units N
Ammonium Nitrogen	mg/kg	21719	10.73 Units NH4-N
Total Phosphorus (P)	% w/w	1.02	11.54 Units P2O5
Total Potassium (K)	% w/w	0.140	0.83 Units K2O
Total Magnesium (Mg)	% w/w	0.549	4.50 Units MgO
Total Sulphur (S)	% w/w	0.816	10.08 Units SO3
Total Copper (Cu)	mg/kg	159	0.04 kg Cu
Total Zinc (Zn)	mg/kg	424	0.10 kg Zn
Total Calcium (Ca)	mg/kg	14106	3.48 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : PORTRUSH

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156241

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	14106
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	4448
Total Iron (Fe)	mg/kg	12856
Total Molybdenum (Mo)	mg/kg	4.20
Total Manganese (Mn)	mg/kg	236
Total Lead (Pb)	mg/kg	43.9
Total Cadmium (Cd)	mg/kg	0.476
Total Mercury (Hg)	mg/kg	0.416
Total Nickel (Ni)	mg/kg	53.3
Total Chromium (Cr)	mg/kg	43.1
Organic Matter LOI	% w/w	77.4
Lime Equivalent as CaCO ₃	% w/w	2.66
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	25.9
Total Arsenic (As)	mg/kg	2.83
Total Selenium (Se)	mg/kg	1.18
Total Boron (B)	mg/kg	28.2

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : PORTRUSH

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156241

Date Received	15-FEB-2024
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Date Reported	06-MAR-2024
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ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	28500
Salmonella spp [fresh]	in 25g	Negative
N. V. as CaO equivalents	% w/w	1.49

The nutrients in manure are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of manure. More detailed information can be obtained from DEFRA RB209.

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : BALLYNACOR

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156242

Date Received	15-FEB-2024
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Date Reported	06-MAR-2024
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ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		6.77	
Oven Dry Matter	%	26.7	267.0 kg DM
Total Nitrogen	% w/w	4.29	22.91 Units N
Ammonium Nitrogen	mg/kg	10119	5.40 Units NH4-N
Total Phosphorus (P)	% w/w	1.83	22.38 Units P2O5
Total Potassium (K)	% w/w	0.127	0.82 Units K2O
Total Magnesium (Mg)	% w/w	0.402	3.56 Units MgO
Total Sulphur (S)	% w/w	0.758	10.12 Units SO3
Total Copper (Cu)	mg/kg	112	0.03 kg Cu
Total Zinc (Zn)	mg/kg	435	0.12 kg Zn
Total Calcium (Ca)	mg/kg	14752	3.94 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : BALLYNACOR

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156242

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	14752
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	2197
Total Iron (Fe)	mg/kg	38696
Total Molybdenum (Mo)	mg/kg	3.79
Total Manganese (Mn)	mg/kg	382
Total Lead (Pb)	mg/kg	29.5
Total Cadmium (Cd)	mg/kg	0.404
Total Mercury (Hg)	mg/kg	0.856
Total Nickel (Ni)	mg/kg	32.4
Total Chromium (Cr)	mg/kg	127
Organic Matter LOI	% w/w	55.0
Lime Equivalent as CaCO ₃	% w/w	2.73
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	68.4
Total Arsenic (As)	mg/kg	3.52
Total Selenium (Se)	mg/kg	0.991
Total Boron (B)	mg/kg	9.51

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : BALLYNACOR

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156242

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	40650
Salmonella spp [fresh]	in 25g	Positive
N. V. as CaO equivalents	% w/w	1.53

The nutrients in manure are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of manure. More detailed information can be obtained from DEFRA RB209.

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : KINNEGAR

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156243

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		7.75	
Oven Dry Matter	%	25.3	253.0 kg DM
Total Nitrogen	% w/w	3.91	19.78 Units N
Ammonium Nitrogen	mg/kg	9862	4.99 Units NH ₄ -N
Total Phosphorus (P)	% w/w	0.730	8.46 Units P ₂ O ₅
Total Potassium (K)	% w/w	0.095	0.58 Units K ₂ O
Total Magnesium (Mg)	% w/w	0.307	2.58 Units MgO
Total Sulphur (S)	% w/w	0.531	6.72 Units SO ₃
Total Copper (Cu)	mg/kg	111	0.03 kg Cu
Total Zinc (Zn)	mg/kg	359	0.09 kg Zn
Total Calcium (Ca)	mg/kg	8702	2.20 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : KINNEGAR

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156243

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	8702
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	1944
Total Iron (Fe)	mg/kg	7859
Total Molybdenum (Mo)	mg/kg	3.15
Total Manganese (Mn)	mg/kg	120
Total Lead (Pb)	mg/kg	44.9
Total Cadmium (Cd)	mg/kg	0.477
Total Mercury (Hg)	mg/kg	0.585
Total Nickel (Ni)	mg/kg	16.1
Total Chromium (Cr)	mg/kg	59.9
Organic Matter LOI	% w/w	81.2
Lime Equivalent as CaCO ₃	% w/w	<2
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	46.7
Total Arsenic (As)	mg/kg	2.27
Total Selenium (Se)	mg/kg	1.22
Total Boron (B)	mg/kg	9.77

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : KINNEGAR

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156243

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	48600
Salmonella spp [fresh]	in 25g	Positive
N. V. as CaO equivalents	% w/w	<1

The nutrients in manure are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of manure. More detailed information can be obtained from DEFRA RB209.

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : NEW HOLLAND

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156244

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		6.54	
Oven Dry Matter	%	27.2	272.0 kg DM
Total Nitrogen	% w/w	4.84	26.33 Units N
Ammonium Nitrogen	mg/kg	8836	4.81 Units NH4-N
Total Phosphorus (P)	% w/w	1.81	22.55 Units P2O5
Total Potassium (K)	% w/w	0.100	0.66 Units K2O
Total Magnesium (Mg)	% w/w	0.276	2.49 Units MgO
Total Sulphur (S)	% w/w	0.630	8.57 Units SO3
Total Copper (Cu)	mg/kg	80.0	0.02 kg Cu
Total Zinc (Zn)	mg/kg	399	0.11 kg Zn
Total Calcium (Ca)	mg/kg	13848	3.77 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : NEW HOLLAND

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156244

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	13848
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	2081
Total Iron (Fe)	mg/kg	33020
Total Molybdenum (Mo)	mg/kg	3.08
Total Manganese (Mn)	mg/kg	721
Total Lead (Pb)	mg/kg	16.5
Total Cadmium (Cd)	mg/kg	0.356
Total Mercury (Hg)	mg/kg	0.223
Total Nickel (Ni)	mg/kg	15.7
Total Chromium (Cr)	mg/kg	19.4
Organic Matter LOI	% w/w	78.6
Lime Equivalent as CaCO ₃	% w/w	<2
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	21.3
Total Arsenic (As)	mg/kg	2.56
Total Selenium (Se)	mg/kg	0.940
Total Boron (B)	mg/kg	12.7

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : NEW HOLLAND

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156244

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	54900
Salmonella spp [fresh]	in 25g	Negative
N. V. as CaO equivalents	% w/w	<1

The nutrients in manure are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of manure. More detailed information can be obtained from DEFRA RB209.

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : CULMORE

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156245

Date Received	15-FEB-2024
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Date Reported	06-MAR-2024
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ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		7.38	
Oven Dry Matter	%	27.8	278.0 kg DM
Total Nitrogen	% w/w	4.81	26.74 Units N
Ammonium Nitrogen	mg/kg	10094	5.61 Units NH4-N
Total Phosphorus (P)	% w/w	0.836	10.64 Units P2O5
Total Potassium (K)	% w/w	0.083	0.56 Units K2O
Total Magnesium (Mg)	% w/w	0.368	3.40 Units MgO
Total Sulphur (S)	% w/w	0.562	7.81 Units SO3
Total Copper (Cu)	mg/kg	126	0.04 kg Cu
Total Zinc (Zn)	mg/kg	391	0.11 kg Zn
Total Calcium (Ca)	mg/kg	10210	2.84 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : CULMORE

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156245

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	10210
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	1868
Total Iron (Fe)	mg/kg	13705
Total Molybdenum (Mo)	mg/kg	3.32
Total Manganese (Mn)	mg/kg	177
Total Lead (Pb)	mg/kg	35.3
Total Cadmium (Cd)	mg/kg	0.459
Total Mercury (Hg)	mg/kg	0.324
Total Nickel (Ni)	mg/kg	22.9
Total Chromium (Cr)	mg/kg	25.3
Organic Matter LOI	% w/w	78.3
Lime Equivalent as CaCO ₃	% w/w	<2
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	28.6
Total Arsenic (As)	mg/kg	3.96
Total Selenium (Se)	mg/kg	1.06
Total Boron (B)	mg/kg	11.4

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : CULMORE

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156245

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	45150
Salmonella spp [fresh]	in 25g	Positive
N. V. as CaO equivalents	% w/w	<1

The nutrients in manure are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of manure. More detailed information can be obtained from DEFRA RB209.

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : OMAGH

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156246

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		6.77	
Oven Dry Matter	%	21.5	215.0 kg DM
Total Nitrogen	% w/w	4.09	17.59 Units N
Ammonium Nitrogen	mg/kg	9833	4.23 Units NH4-N
Total Phosphorus (P)	% w/w	0.855	8.42 Units P2O5
Total Potassium (K)	% w/w	0.145	0.75 Units K2O
Total Magnesium (Mg)	% w/w	0.334	2.38 Units MgO
Total Sulphur (S)	% w/w	0.610	6.56 Units SO3
Total Copper (Cu)	mg/kg	111	0.02 kg Cu
Total Zinc (Zn)	mg/kg	674	0.14 kg Zn
Total Calcium (Ca)	mg/kg	12863	2.77 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : OMAGH

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156246

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	12863
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	1705
Total Iron (Fe)	mg/kg	11293
Total Molybdenum (Mo)	mg/kg	2.81
Total Manganese (Mn)	mg/kg	216
Total Lead (Pb)	mg/kg	30.6
Total Cadmium (Cd)	mg/kg	0.474
Total Mercury (Hg)	mg/kg	0.442
Total Nickel (Ni)	mg/kg	20.9
Total Chromium (Cr)	mg/kg	35.1
Organic Matter LOI	% w/w	79.8
Lime Equivalent as CaCO ₃	% w/w	<2
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	34.3
Total Arsenic (As)	mg/kg	4.19
Total Selenium (Se)	mg/kg	1.23
Total Boron (B)	mg/kg	9.16

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : OMAGH

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156246

Date Received	15-FEB-2024
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Date Reported	06-MAR-2024
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ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	44550
Salmonella spp [fresh]	in 25g	Negative
N. V. as CaO equivalents	% w/w	<1

The nutrients in manure are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of manure. More detailed information can be obtained from DEFRA RB209.

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : ENNISKILLEN

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156247

Date Received	15-FEB-2024
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Date Reported	06-MAR-2024
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ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		7.66	
Oven Dry Matter	%	23.9	239.0 kg DM
Total Nitrogen	% w/w	4.80	22.94 Units N
Ammonium Nitrogen	mg/kg	12223	5.84 Units NH4-N
Total Phosphorus (P)	% w/w	1.63	17.84 Units P2O5
Total Potassium (K)	% w/w	0.120	0.69 Units K2O
Total Magnesium (Mg)	% w/w	0.207	1.64 Units MgO
Total Sulphur (S)	% w/w	0.845	10.10 Units SO3
Total Copper (Cu)	mg/kg	120	0.03 kg Cu
Total Zinc (Zn)	mg/kg	459	0.11 kg Zn
Total Calcium (Ca)	mg/kg	20068	4.80 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : ENNISKILLEN

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156247

Date Received	15-FEB-2024
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Date Reported	06-MAR-2024
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ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	20068
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	2010
Total Iron (Fe)	mg/kg	20230
Total Molybdenum (Mo)	mg/kg	3.62
Total Manganese (Mn)	mg/kg	168
Total Lead (Pb)	mg/kg	17.2
Total Cadmium (Cd)	mg/kg	0.478
Total Mercury (Hg)	mg/kg	0.492
Total Nickel (Ni)	mg/kg	21.0
Total Chromium (Cr)	mg/kg	30.9
Organic Matter LOI	% w/w	73.9
Lime Equivalent as CaCO ₃	% w/w	2.15
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	140
Total Arsenic (As)	mg/kg	3.15
Total Selenium (Se)	mg/kg	1.25
Total Boron (B)	mg/kg	8.43

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : ENNISKILLEN

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156247

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	36150
Salmonella spp [fresh]	in 25g	Negative
N. V. as CaO equivalents	% w/w	1.21

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WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : STRABANE

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156248

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		7.60	
Oven Dry Matter	%	24.7	247.0 kg DM
Total Nitrogen	% w/w	6.11	30.18 Units N
Ammonium Nitrogen	mg/kg	12444	6.15 Units NH4-N
Total Phosphorus (P)	% w/w	1.00	11.31 Units P2O5
Total Potassium (K)	% w/w	0.127	0.76 Units K2O
Total Magnesium (Mg)	% w/w	0.385	3.16 Units MgO
Total Sulphur (S)	% w/w	0.964	11.91 Units SO3
Total Copper (Cu)	mg/kg	165	0.04 kg Cu
Total Zinc (Zn)	mg/kg	777	0.19 kg Zn
Total Calcium (Ca)	mg/kg	14470	3.57 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : STRABANE

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156248

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	14470
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	1870
Total Iron (Fe)	mg/kg	15736
Total Molybdenum (Mo)	mg/kg	4.55
Total Manganese (Mn)	mg/kg	272
Total Lead (Pb)	mg/kg	44.4
Total Cadmium (Cd)	mg/kg	0.964
Total Mercury (Hg)	mg/kg	0.423
Total Nickel (Ni)	mg/kg	36.0
Total Chromium (Cr)	mg/kg	54.2
Organic Matter LOI	% w/w	71.2
Lime Equivalent as CaCO ₃	% w/w	3.69
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	45.6
Total Arsenic (As)	mg/kg	4.72
Total Selenium (Se)	mg/kg	2.04
Total Boron (B)	mg/kg	15.6

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : STRABANE

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156248

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	41100
Salmonella spp [fresh]	in 25g	Positive
N. V. as CaO equivalents	% w/w	2.07

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WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : DUNMURRAY

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156249

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value	Amount per fresh ton
pH 1:6 [Fresh]		8.04	
Oven Dry Matter	%	21.8	218.0 kg DM
Total Nitrogen	% w/w	5.38	23.46 Units N
Ammonium Nitrogen	mg/kg	13356	5.82 Units NH4-N
Total Phosphorus (P)	% w/w	2.21	22.07 Units P2O5
Total Potassium (K)	% w/w	0.078	0.41 Units K2O
Total Magnesium (Mg)	% w/w	0.226	1.64 Units MgO
Total Sulphur (S)	% w/w	0.764	8.33 Units SO3
Total Copper (Cu)	mg/kg	103	0.02 kg Cu
Total Zinc (Zn)	mg/kg	446	0.10 kg Zn
Total Calcium (Ca)	mg/kg	12535	2.73 kg Ca

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : DUNMURRAY

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References	
Report Number	22226
Sample Number	156249

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	12535
E Coli [Fresh]	cfu/g	1500
Conductivity 1:6 [Fresh]	uS/cm	1854
Total Iron (Fe)	mg/kg	45092
Total Molybdenum (Mo)	mg/kg	4.07
Total Manganese (Mn)	mg/kg	362
Total Lead (Pb)	mg/kg	20.3
Total Cadmium (Cd)	mg/kg	0.353
Total Mercury (Hg)	mg/kg	0.640
Total Nickel (Ni)	mg/kg	16.7
Total Chromium (Cr)	mg/kg	23.1
Organic Matter LOI	% w/w	77.7
Lime Equivalent as CaCO ₃	% w/w	<2
Fluoride [100:1 H ₂ SO ₄ Soluble]	mg/kg	19.8
Total Arsenic (As)	mg/kg	3.53
Total Selenium (Se)	mg/kg	1.02
Total Boron (B)	mg/kg	12.1

WASTE ANALYSIS RESULTS (Imperial Units)

Sample Reference : DUNMURRAY

Sample Matrix : WASTE

The sample submitted was small and made it difficult to complete all analysis requested.

The sample will be kept as the dry ground sample for at least 1 month.

Laboratory References

Report Number	22226
Sample Number	156249

Date Received	15-FEB-2024
Date Reported	06-MAR-2024

ANALYTICAL RESULTS *on 'dry matter' basis.*

Determinand	Units	Value
B.O.D. [fresh]	mg/l	32550
Salmonella spp [fresh]	in 25g	Negative
N. V. as CaO equivalents	% w/w	<1

The nutrients in manure are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of manure. More detailed information can be obtained from DEFRA RB209.