

Pat Mcgrath
Cardiff City Council
Waste Mngement, Lamby Way
Rumney
Cardiff
CF3 2HP

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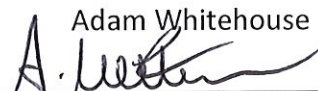
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Certificate of Analysis Number: 2415

Project/Site name:	Lamby Way		Samples Taken:	25-05-2018
Job Number:	-		Samples Received:	31-05-2018
Order Number:	-		Date Instructed:	31-05-2018
Sample Matrix:	Surface, Ground and Effluent Water		Analysis Complete:	24-06-2018
			Report Issued:	24-06-2018
			Sampled By:	Client

Disposal Times:

All water samples will be retained for a period of two weeks and all soil samples retained for a period of one month following the date of the issued certificate.

Approved by: Adam Whitehouse
Signature: 
Title: Quality Manager



Client: Cardiff City Council
FAO: Pat Mcgrath

CERTIFICATE OF ANALYSIS 2415

Report Date
24th July 2018

Results of analysis of 29 samples received
on the 31/05/18

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518006	310518007	310518008	310518009
Client Sample Reference:				SW2	SW3	SW4	SW5
Sample Date:				25/05/18	25/05/18	25/05/18	25/05/18
Sample Matrix:				Surface Water	Surface Water	Surface Water	Surface Water
INORG-L01	pH	pH units	A	7.6	7.4	7.5	7.8
INORG-L02	Conductivity	$\mu\text{S.cm}^{-1}$	A	692	915	1,450	1,520
INORG-L12	Ammonia	mg.l^{-1} as NH_4	A	0.04	7.3	4.4	66
INORG-L12	Ammonical Nitrogen	mg.l^{-1} as N	A	0.03	6.0	3.4	51
INORG-L06.1	BOD	mg.l^{-1} as O_2	A	2.7	3.5	7.0	8.3
INORG-L06.1	BOD ATU	mg.l^{-1} as O_2	A	2.1	3.2	6.7	4.8
INORG-L05	COD	mg.l^{-1} as O_2	A	21	18	40	37
INORG-L10	Total Suspended Solids	mg.l^{-1}	A	1.6	6.4	6.8	13.2
INORG-L13	Chloride	mg.l^{-1}	A	14.7	10.8	27.8	9.0
-	TON	mg.l^{-1} as N	N	0.5	6.1	<0.1	92.6
METALS-L	Nickel	$\mu\text{g.l}^{-1}$	A	3.5	12.1	20.0	8.1

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518010	-	-	-
Client Sample Reference:				SW6	-	-	-
Sample Date:				25/05/18	-	-	-
Sample Matrix:				Surface Water	-	-	-
INORG-L01	pH	pH units	A	7.7	-	-	-
INORG-L02	Conductivity	$\mu\text{S.cm}^{-1}$	A	565	-	-	-
INORG-L12	Ammonia	mg.l^{-1} as NH_4	A	0.57	-	-	-
INORG-L12	Ammonical Nitrogen	mg.l^{-1} as N	A	0.44	-	-	-
INORG-L06.1	BOD	mg.l^{-1} as O_2	A	3.8	-	-	-
INORG-L06.1	BOD ATU	mg.l^{-1} as O_2	A	3.1	-	-	-
INORG-L05	COD	mg.l^{-1} as O_2	A	26	-	-	-
INORG-L10	Total Suspended Solids	mg.l^{-1}	A	42.4	-	-	-
INORG-L13	Chloride	mg.l^{-1}	A	14.5	-	-	-
-	TON	mg.l^{-1} as N	N	1.0	-	-	-
METALS-L	Nickel	$\mu\text{g.l}^{-1}$	A	5.6	-	-	-

* Accreditation Status

Tests marked 'A' hold UKAS accreditation

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Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518011	310518012	310518013	310518014
Client Sample Reference:				L2	L4	L7	SL4
Sample Date:				25/06/18	25/06/18	25/06/18	25/06/18
Sample Matrix:				Leachate Water	Leachate Water	Leachate Water	Leachate Water
INORG-L12	Ammonia	mg.l ⁻¹ as NH ₄	A	1,460	1,740	156	338
INORG-L13	Chloride	mg.l ⁻¹	A	36.1	35.9	16.1	19.1
METALS-L	Nickel	µg.l ⁻¹	A	292	388	85.8	22.6
1450	Cadmium	µg.l ⁻¹	S-A	<0.080	<0.080	<0.080	<0.080
ORG-L17	Mecoprop	µg.l ⁻¹	A	25.4	16.7	21.5	30.4
ORG-L05	Xylene	µg.l ⁻¹	N	<1.0	8.0	<1.0	<1.0

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518015	310518016	310518017	310518018
Client Sample Reference:				SL5	SL6	SL7	SL8
Sample Date:				25/06/18	25/06/18	25/06/18	25/06/18
Sample Matrix:				Leachate Water	Leachate Water	Leachate Water	Leachate Water
INORG-L12	Ammonia	mg.l ⁻¹ as NH ₄	A	130	156	1,170	1,300
INORG-L13	Chloride	mg.l ⁻¹	A	16.0	22.7	9.1	17.2
METALS-L	Nickel	µg.l ⁻¹	A	14.0	23.4	46.8	162
1450	Cadmium	µg.l ⁻¹	S-A	<0.080	<0.080	<0.080	<0.080
ORG-L17	Mecoprop	µg.l ⁻¹	A	16.4	17.0	18.7	9.4
ORG-L05	Xylene	µg.l ⁻¹	N	<1.0	4.4	<1.1	<1.1

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Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518019	310518020	310518021	310518022
Client Sample Reference:				C20	C21	C22	SW7/C25
Sample Date:				25/05/18	25/05/18	25/05/18	25/05/18
Sample Matrix:				Groundwater	Groundwater	Groundwater	Groundwater
INORG-L01	pH	pH units	A	7.2	7.4	7.1	7.8
INORG-L02	Conductivity	$\mu\text{S.cm}^{-1}$	A	17,600	5,170	21,100	2,680
INORG-L12	Ammonical Nitrogen	mg.l^{-1} as N	A	2.0	0.1	3.0	4.0
INORG-L13	Chloride	mg.l^{-1}	A	14.0	2.4	20.1	30.2
INORG-L06.1	BOD	mg.l^{-1} as O_2	A	2.8	1.3	4.1	8.6
INORG-L09	Alkalinity	mg.l^{-1} as HCO_3	A	1,400	1,220	1,460	854
INORG-L11	Nitrate	mg.l^{-1} as N	N	0.1	2.3	<0.1	9.6
INORG-L14	Nitrite	mg.l^{-1} as N	A	0.006	<0.004	0.009	3.9
METALS-L	Sulphate	mg.l^{-1} as SO_4	A	433	683	1,220	86.2
INORG-L37	Sulphide	mg.l^{-1} as S	N	<0.10	<0.10	<0.10	<0.10
INORG-L18	TOC	mg.l^{-1} as C	A	141	75.4	211	50.6
1450	Cadmium	$\mu\text{g.l}^{-1}$	S-A	<0.080	<0.080	0.15	0.10
1450	Mercury	$\mu\text{g.l}^{-1}$	S-A	<0.50	<0.50	<0.50	<0.50
ORG-L17	Mecoprop	$\mu\text{g.l}^{-1}$	A	<0.1	<0.1	<0.1	<0.1
ORG-L05	Xylene	$\mu\text{g.l}^{-1}$	N	<1.1	<1.1	<1.1	<1.1
INORG-L05	COD	mg.l^{-1} as O_2	A	76	41	85	34
METALS-L	Iron	$\mu\text{g.l}^{-1}$	A	62.8	22.9	3,250	43.6
METALS-L	Manganese	$\mu\text{g.l}^{-1}$	A	43.9	21.1	5,520	42.0
METALS-L	Calcium	mg.l^{-1}	A	230	171	283	118
METALS-L	Magnesium	mg.l^{-1}	A	318	136	379	44.0
METALS-L	Sodium	mg.l^{-1}	A	3,250	930	3,330	288
METALS-L	Potassium	mg.l^{-1}	A	129	59.0	103	23.6
METALS-L	Nickel	$\mu\text{g.l}^{-1}$	A	8.6	5.9	6.3	10.2
METALS-L	Chromium	$\mu\text{g.l}^{-1}$	A	8.8	7.1	13.3	5.7
METALS-L	Copper	$\mu\text{g.l}^{-1}$	A	11.9	15.9	2.3	47.4
METALS-L	Lead	$\mu\text{g.l}^{-1}$	A	<4.1	<4.1	<4.1	7.5
METALS-L	Zinc	$\mu\text{g.l}^{-1}$	A	<1.1	<1.1	<1.1	11.3

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Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518023	310518024	310518025	310518026
Client Sample Reference:				C1	C6	C2	C3
Sample Date:				25/05/18	25/05/18	25/05/18	25/05/18
Sample Matrix:				Groundwater	Groundwater	Groundwater	Groundwater
INORG-L01	pH	pH units	A	7.4	7.5	7.3	7.8
INORG-L02	Conductivity	$\mu\text{S.cm}^{-1}$	A	1,490	15,210	1,400	1,430
INORG-L12	Ammonical Nitrogen	mg.l^{-1} as N	A	0.08	0.48	0.04	37
INORG-L13	Chloride	mg.l^{-1}	A	26.4	3.8	30.0	18.4
INORG-L06.1	BOD	mg.l^{-1} as O_2	A	4.1	2.5	0.6	5.1
INORG-L09	Alkalinity	mg.l^{-1} as HCO_3	A	976	2,620	1,160	1,040
INORG-L11	Nitrate	mg.l^{-1} as N	N	0.4	0.2	0.9	4.5
INORG-L14	Nitrite	mg.l^{-1} as N	A	0.008	0.005	<0.004	0.045
METALS-L	Sulphate	mg.l^{-1} as SO_4	A	38.9	145	138	207
INORG-L37	Sulphide	mg.l^{-1} as S	N	<0.10	<0.10	<0.10	<0.10
INORG-L18	TOC	mg.l^{-1} as C	A	49.4	205	62.1	70.2
1450	Cadmium	$\mu\text{g.l}^{-1}$	S-A	<0.080	<0.080	<0.080	0.13
1450	Mercury	$\mu\text{g.l}^{-1}$	S-A	<0.50	<0.50	<0.50	<0.50
ORG-L17	Mecoprop	$\mu\text{g.l}^{-1}$	A	<0.1	<0.1	<0.1	<0.1
ORG-L05	Xylene	$\mu\text{g.l}^{-1}$	N	<1.1	<1.1	<1.1	<1.1
INORG-L05	COD	mg.l^{-1} as O_2	A	15	62	26	64
METALS-L	Iron	$\mu\text{g.l}^{-1}$	A	36.3	49.3	8.1	2,310
METALS-L	Manganese	$\mu\text{g.l}^{-1}$	A	1,720	73.6	2.9	428
METALS-L	Calcium	mg.l^{-1}	A	111	186	147	108
METALS-L	Magnesium	mg.l^{-1}	A	89.8	246	66.3	42.3
METALS-L	Sodium	mg.l^{-1}	A	99.3	2,890	67.6	121
METALS-L	Potassium	mg.l^{-1}	A	35.9	99.6	11.1	114
METALS-L	Nickel	$\mu\text{g.l}^{-1}$	A	5.9	3.6	8.4	10.8
METALS-L	Chromium	$\mu\text{g.l}^{-1}$	A	6.7	8.6	4.3	7.9
METALS-L	Copper	$\mu\text{g.l}^{-1}$	A	11.5	3.3	20.9	15.8
METALS-L	Lead	$\mu\text{g.l}^{-1}$	A	<4.1	<4.1	9.7	9.8
METALS-L	Zinc	$\mu\text{g.l}^{-1}$	A	<1.1	1.5	1.7	14.8

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Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518027	310518028	310518029	310518030
Client Sample Reference:				C5	C8	C12	C13
Sample Date:				25/05/18	25/05/18	25/05/18	25/05/18
Sample Matrix:				Groundwater	Groundwater	Groundwater	Groundwater
INORG-L01	pH	pH units	A	7.6	7.5	7.4	7.7
INORG-L02	Conductivity	$\mu\text{S.cm}^{-1}$	A	7,790	17,510	17,300	11,260
INORG-L12	Ammonical Nitrogen	mg.l^{-1} as N	A	42	1.7	1.7	11
INORG-L13	Chloride	mg.l^{-1}	A	7.3	2.6	2.6	5.4
INORG-L06.1	BOD	mg.l^{-1} as O_2	A	2.6	6.5	4.0	9.8
INORG-L09	Alkalinity	mg.l^{-1} as HCO_3	A	976	1,950	2,200	1,770
INORG-L11	Nitrate	mg.l^{-1} as N	N	1.1	0.2	<0.1	0.4
INORG-L14	Nitrite	mg.l^{-1} as N	A	0.080	0.600	0.019	0.005
METALS-L	Sulphate	mg.l^{-1} as SO_4	A	3.0	590	705	20.5
INORG-L37	Sulphide	mg.l^{-1} as S	N	<0.10	<0.10	<0.10	<0.10
INORG-L18	TOC	mg.l^{-1} as C	A	55.6	150	135	65.7
1450	Cadmium	$\mu\text{g.l}^{-1}$	S-A	0.46	0.26	0.080	0.082
1450	Mercury	$\mu\text{g.l}^{-1}$	S-A	<0.50	<0.50	<0.50	<0.50
ORG-L17	Mecoprop	$\mu\text{g.l}^{-1}$	A	<0.1	<0.1	<0.1	<0.1
ORG-L05	Xylene	$\mu\text{g.l}^{-1}$	N	<1.1	<1.1	<1.1	<1.1
INORG-L05	COD	mg.l^{-1} as O_2	A	37	52	55	37
METALS-L	Iron	$\mu\text{g.l}^{-1}$	A	1,110	14.6	634	498
METALS-L	Manganese	$\mu\text{g.l}^{-1}$	A	360	40.4	269	1,390
METALS-L	Calcium	mg.l^{-1}	A	109	191	188	233
METALS-L	Magnesium	mg.l^{-1}	A	150	345	322	254
METALS-L	Sodium	mg.l^{-1}	A	1,430	3,180	3,050	1,830
METALS-L	Potassium	mg.l^{-1}	A	51.9	120	127	46.2
METALS-L	Nickel	$\mu\text{g.l}^{-1}$	A	7.1	4.7	4.3	4.9
METALS-L	Chromium	$\mu\text{g.l}^{-1}$	A	8.8	9.4	8.2	10.2
METALS-L	Copper	$\mu\text{g.l}^{-1}$	A	31.1	29.2	15.2	2.6
METALS-L	Lead	$\mu\text{g.l}^{-1}$	A	7.1	4.7	4.3	4.9
METALS-L	Zinc	$\mu\text{g.l}^{-1}$	A	15.8	6.0	<1.1	<1.1

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Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				310518031	310518032	310518033	-
Client Sample Reference:				C14	C16	C18	-
Sample Date:				25/05/18	25/05/18	25/05/18	-
Sample Matrix:				Groundwater	Groundwater	Groundwater	-
INORG-L01	pH	pH units	A	7.4	7.1	7.8	-
INORG-L02	Conductivity	$\mu\text{S.cm}^{-1}$	A	19,700	19,590	2,110	-
INORG-L12	Ammonical Nitrogen	mg.l^{-1} as N	A	45	17	5.0	-
INORG-L13	Chloride	mg.l^{-1}	A	2.4	3.4	27.8	-
INORG-L06.1	BOD	mg.l^{-1} as O_2	A	10.0	10.0	0.8	-
INORG-L09	Alkalinity	mg.l^{-1} as HCO_3	A	2,680	2,870	2,070	-
INORG-L11	Nitrate	mg.l^{-1} as N	N	<0.1	1.8	0.3	-
INORG-L14	Nitrite	mg.l^{-1} as N	A	0.010	0.046	0.016	-
METALS-L	Sulphate	mg.l^{-1} as SO_4	A	327	753	130	-
INORG-L37	Sulphide	mg.l^{-1} as S	N	<1.0	<0.10	<0.10	-
INORG-L18	TOC	mg.l^{-1} as C	A	169	73.7	24.5	-
1450	Cadmium	$\mu\text{g.l}^{-1}$	S-A	0.24	0.12	0.18	-
1450	Mercury	$\mu\text{g.l}^{-1}$	S-A	<0.50	<0.50	<0.50	-
ORG-L17	Mecoprop	$\mu\text{g.l}^{-1}$	A	<0.1	<0.1	<0.1	-
ORG-L05	Xylene	$\mu\text{g.l}^{-1}$	N	<1.1	<1.1	<1.1	-
INORG-L05	COD	mg.l^{-1} as O_2	A	101	65	24	-
METALS-L	Iron	$\mu\text{g.l}^{-1}$	A	288	177	33.2	-
METALS-L	Manganese	$\mu\text{g.l}^{-1}$	A	559	1,410	1.7	-
METALS-L	Calcium	mg.l^{-1}	A	202	246	118	-
METALS-L	Magnesium	mg.l^{-1}	A	368	377	47.9	-
METALS-L	Sodium	mg.l^{-1}	A	3,320	3,160	234	-
METALS-L	Potassium	mg.l^{-1}	A	126	109	25.3	-
METALS-L	Nickel	$\mu\text{g.l}^{-1}$	A	8.5	3.0	6.8	-
METALS-L	Chromium	$\mu\text{g.l}^{-1}$	A	11.0	10.8	5.5	-
METALS-L	Copper	$\mu\text{g.l}^{-1}$	A	13.3	17.2	53.1	-
METALS-L	Lead	$\mu\text{g.l}^{-1}$	A	8.5	<4.1	6.8	-
METALS-L	Zinc	$\mu\text{g.l}^{-1}$	A	18.9	<1.1	9.6	-

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Analytical Method	Method Code	Accreditation Status
Determination of pH in waters by electrode probe meter (In-house method)	INORG-L01	ISO 17025
Determination of ammonia in waters by colorimetric photometer (In-house method)	INORG-L12	ISO 17025
Determination of chloride by colorimetric photometer (In-house method)	INORG-L13	ISO 17025
Determination of BOD in waters by titration (In-house method)	INORG-L06	ISO 17025
Determination of metals (Cr, Ni, Cu, Zn, SO ₄) in waters by ICP-OES (In-house method)	METALS-L	ISO 17025
Determination of COD in waters by colorimetric photometer (In-house method)	INORG-L05	ISO 17025
Determination of suspended solids in waters by gravimetric (In-house method)	INORG-L10	ISO 17025
Determination of Sulphide in water by Colorimetric analysis (In-house method)	INORG-L37	None
Determination of Cd, Hg) in waters by ICP-MS (Sub-Contracted method)	1450	ISO 17025
Determination of Xylene by GC-MS (In-house method)	ORG-L05	None
Determination of mecoprop by GC-MS (In-house method)	ORG-L17	ISO 17025
Determination of alkalinity by colorimetric photometer (In-house method)	INORG-L07	ISO 17025
Determination of nitrate in waters by colorimetric photometer (In-house method)	INORG-L11	ISO 17025
Determination of nitrite in waters by colorimetric photometer (In-house method)	INORG-L14	ISO 17025
Determination of TON by summation of nitrate and nitrite (In-house method)	-	None
Determination of TOC in waters by colorimetric photometer (In-house method)	INORG-L18	ISO 17025

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All results only relate to the items tested.

This report supersedes any previous versions issued by the laboratory.

A full list of determinants relating to abbreviations such as PAHs, VOCs, SVOCs, PCBs etc. is available upon request.

Where results have been labelled as deviating for any reason, the data may not be representative of the sample at the point of sampling:

[I/S]: Insufficient Sample

[U/S]: Unsuitable Sample

[A]: Date of Sampling not supplied

[B]: Sample age exceeds recommended storage time

[C]: Samples not received in appropriate containers

[D]: Broken Container

< "Less Than"

> "Greater Than"

Where any sub-contracted results have been noted as deviating by the laboratory in question, their deviations codes will be applied and detailed.

Accreditation statements are correct at the time of issue.

This report shall not be reproduced in part without the approval of Decus Research Ltd, nor used in any way as to lead to misrepresentation of the results or their implications.

*****END OF REPORT*****

* Accreditation Status

Tests marked 'A' hold UKAS accreditation

Tests marked 'N' do not hold UKAS accreditation

Tests marked 'S - A' were sub-contracted to an approved laboratory with accreditation on the specific method

Tests marked 'S - N' were sub-contracted to an approved laboratory without accreditation on the specific method

Any comments or interpretations are beyond the scope of UKAS accreditation

