

Gareth Ffoulkes
Cardiff City Council
Waste Management
Lamby Way
Rumney
Cardiff
CF3 2HP

Decus Research Limited
ExCAL House
Capel Hendre Industrial Estate
Ammanford
Carmarthenshire
SA18 3SJ

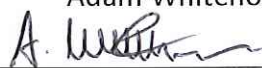
Tel: 01269 844558
Fax: 01269 841867
Email: info@decusuk.co.uk

Certificate of Analysis Number: 2028 and 2044 (SW7/C25 Data Compilation)

Project/Site name:	Lamby Way	Samples Taken:	07-09-2017 and 27-09-2017
Job Number:	-	Samples Received:	07-09-2017 and 27-09-2017
Order Number:	-	Date Instructed:	07-09-2017 and 27-09-2017
Sample Matrix:	Surface Water	Analysis Complete:	16-10-2017
		Report Issued:	20-11-2017
		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: Gareth Ffoulkes

CERTIFICATE OF ANALYSIS 2028 and 2044

Report Date
20th October 2017

Results of analysis of 2 samples received
on the 07/09/17 and 29/09/17

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				110917052	-	-	-
Client Sample Reference:				SW7	-	-	-
Sample Date:				07/09/17	-	-	-
Sample Matrix:				Surface Water	-	-	-
INORG-L12	Ammonical Nitrogen	mg.l ⁻¹ as N	A	<0.01	-	-	-
INORG-L01	pH	pH units	A	8.1	-	-	-
INORG-L13	Chloride	mg.l ⁻¹	A	912	-	-	-
INORG-L02	Conductivity	µS.cm ⁻¹	A	4,340	-	-	-
1450	Cadmium	µg.l ⁻¹	S - N	<0.080	-	-	-
METALS-L	Nickel	µg.l ⁻¹	A	51.9	-	-	-
METALS-L	Chromium	µg.l ⁻¹	A	48.9	-	-	-
METALS-L	Copper	µg.l ⁻¹	A	7.1	-	-	-
METALS-L	Lead	µg.l ⁻¹	A	5.0	-	-	-
METALS-L	Zinc	µg.l ⁻¹	A	5.6	-	-	-
ORL-L17	Mecoprop	µg.l ⁻¹	A	<0.10	-	-	-
1760	m & p Xylene	µg.l ⁻¹	S - A	<1.0	-	-	-
1760	o Xylene	µg.l ⁻¹	S - A	<1.0	-	-	-
INORG-L06.1	BOD	mg.l ⁻¹ as O ₂	A	37.8	-	-	-
INORG-L09	Alkalinity	mg.l ⁻¹ as HCO ₃	A	834	-	-	-
INORG-L11	Nitrate	mg.l ⁻¹ as NO ₃	A	14.1	-	-	-
INORG-L14	Nitrite	mg.l ⁻¹ as NO ₂	A	0.17	-	-	-
METALS-L	Iron	µg.l ⁻¹	A	2,059	-	-	-
METALS-L	Manganese	µg.l ⁻¹	A	602	-	-	-
METALS-L	Calcium	mg.l ⁻¹	A	92.5	-	-	-
METALS-L	Magnesium	mg.l ⁻¹	A	54.9	-	-	-
METALS-L	Sodium	mg.l ⁻¹	A	505	-	-	-
METALS-L	Potassium	mg.l ⁻¹	A	163	-	-	-
METALS-L	Sulphate	mg.l ⁻¹ as SO ₄	A	37.3	-	-	-
INORG-L37	Sulphide	mg.l ⁻¹ as H ₂ S	N	<0.10	-	-	-
INORG-L05	COD	mg.l ⁻¹ as O ₂	A	410	-	-	-
1450	Mercury	µg.l ⁻¹	S - N	1.8	-	-	-
INORG-L18	TOC	mg.l ⁻¹ as C	A	165	-	-	-

* 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



Client: Cardiff City Council
FAO: Gareth Ffoulkes

CERTIFICATE OF ANALYSIS 2028 and 2044

Report Date
20th October 2017

Results of analysis of 2 samples received
on the 07/09/17 and 29/09/17

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				290917028	-	-	-
Client Sample Reference:				C25	-	-	-
Sample Date:				27/09/17	-	-	-
Sample Matrix:				Surface Water	-	-	-
INORG-L12	Ammonia	mg.l ⁻¹ as NH ₄	A	1.7	-	-	-
INORG-L13	Chloride	mg.l ⁻¹	A	17.9	-	-	-
INORG-L31	Cyanide	mg.l ⁻¹	N	<0.1	-	-	-
INORG-L20	Mono Phenols	mg.l ⁻¹	A	<0.02	-	-	-
INORG-L21.1	Ortho-Phosphate	mg.l ⁻¹ P	A	0.4	-	-	-
METALS-L	Sulphate	mg.l ⁻¹	A	152	-	-	-
INORG-L10	Suspended Solids	mg.l ⁻¹	A	24.4	-	-	-
INORG-L05	COD	mg.l ⁻¹ O ₂	A	204	-	-	-
METALS-L	Arsenic	µg.l ⁻¹	S-N	6.3	-	-	-
METALS-L	Chromium	µg.l ⁻¹	A	9.1	-	-	-
METALS-L	Copper	µg.l ⁻¹	A	12.8	-	-	-
METALS-L	Nickel	µg.l ⁻¹	A	15.4	-	-	-
METALS-L	Zinc	µg.l ⁻¹	A	11.7	-	-	-
METALS-L	Sulphur	mg.l ⁻¹	A	50.6	-	-	-
1630	Dissolved Methane	mg.l ⁻¹	S-N	<0.050	-	-	-

*** 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



Client: Cardiff City Council
FAO: Gareth Ffoulkes

CERTIFICATE OF ANALYSIS 2028 and 2044

Report Date
20th October 2017

Results of analysis of 2 samples received
on the 07/09/17 and 29/09/17

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-L06.1	ISO 17025
Determination of metals in waters by ICP-MS (Sub-contracted method)	1450	ISO 17025
Determination of metals in waters by ICP-OES (In-house method)	METALS-L	ISO 17025
Determination of Cyanide in water by colorimetric analysis (In-house method)	INORG-L31	None
Determination of COD in waters by colorimetric photometer (In-house method)	INORG-L05	ISO 17025
Determination of Ortho-Phosphates in waters by colorimetric photometer (In-house method)	INORG-L21.1	ISO 17025
Determination of suspended solids in waters by gravimetric (In-house method)	INORG-L10	ISO 17025
Determination of Dissolved Methane in waters by GC-MS (Sub-Contracted method)	1630	None
Determination of sulphate in waters by ICP-OES and calculation (In-house method)	METALS-L	ISO 17025

*** 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



Client: Cardiff City Council
FAO: Gareth Ffoulkes

CERTIFICATE OF ANALYSIS 2028 and 2044

Report Date
20th October 2017

Results of analysis of 2 samples received
on the 07/09/17 and 29/09/17

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

