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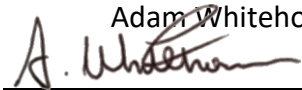
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Certificate of Analysis Number: 5367 Interim

Project/Site name:	Ferry Road	Samples Taken:	06-01-2022
Quotation Number:	DS210501	Samples Received:	06-01-2022
Order Number:	-	Date Instructed:	06-01-2022
Sample Matrix:	Surface Water	Analysis Complete:	12-01-2022
		Report Issued:	12-01-2022
		Sampled By:	Client

Amendment Records:

None

Approved by: Adam Whitehouse
Signature: 
Title: Laboratory Manager



Client: Cardiff City Council
FAO: Andrew Williamson

CERTIFICATE OF ANALYSIS 5367 Interim
Results of analysis of 1 sample received on
the 06/01/22

Report Date
12th January 2022

Code	Determinand	Units	*	Sample Identification			
Laboratory Sample Number:				070122045	-	-	-
Client Sample Reference:				Surface Water Drain	-	-	-
Sample Date:				06/01/22	-	-	-
Sample Matrix:				Surface Water	-	-	-
INORG-L12	Ammonia	mg.l ⁻¹ as N	A	57.3	-	-	-
INORG-L11	Nitrate	mg.l ⁻¹ as NO ₃	A	3.8	-	-	-
INORG-L14	Nitrite	mg.l ⁻¹ as NO ₂	A	0.056	-	-	-
1450	Arsenic	µg.l ⁻¹	S-A	To Follow	-	-	-
1450	Mercury	µg.l ⁻¹	S-A	To Follow	-	-	-
METALS-L	Barium	µg.l ⁻¹	A	666	-	-	-
METALS-L	Boron	µg.l ⁻¹	A	3,890	-	-	-
METALS-L	Cadmium	µg.l ⁻¹	A	<0.9	-	-	-
METALS-L	Chromium	µg.l ⁻¹	A	<1.0	-	-	-
METALS-L	Copper	µg.l ⁻¹	A	<0.8	-	-	-
METALS-L	Iron	µg.l ⁻¹	A	306	-	-	-
METALS-L	Lead	µg.l ⁻¹	A	<4.1	-	-	-
METALS-L	Manganese	µg.l ⁻¹	A	609	-	-	-
METALS-L	Nickel	µg.l ⁻¹	A	<1.5	-	-	-
METALS-L	Zinc	µg.l ⁻¹	A	<1.1	-	-	-
METALS-L	Potassium	mg.l ⁻¹	A	43.3	-	-	-
INORG-L37	Hexavalent Chromium	mg.l ⁻¹	N	<0.1	-	-	-
1300	Free Cyanide	mg.l ⁻¹	S-A	To Follow	-	-	-
1300	Total Cyanide	mg.l ⁻¹	S-A	To Follow	-	-	-
INORG-L01	pH	pH units	A	6.9	-	-	-
INORG-L13	Chloride	mg.l ⁻¹	A	228	-	-	-
INORG-L18	TOC	mg.l ⁻¹	A	To Follow	-	-	-
INORG-L20	Total Phenol	mg.l ⁻¹	A	0.11	-	-	-
METALS-L	Sulphate	mg.l ⁻¹	A	5.8	-	-	-
ORG-L17	Mecoprop	µg.l ⁻¹	N	To Follow	-	-	-
ORG-L01	TPH	mg.l ⁻¹	N	To Follow	-	-	-
1790	Dimethylphthalate	µg.l ⁻¹	S-N	To Follow	-	-	-
1790	Diethyl Phthalate	µg.l ⁻¹	S-N	To Follow	-	-	-
1790	Di-N-Bytul Phthalate	µg.l ⁻¹	S-N	To Follow	-	-	-
1790	Butylbenzyl Phthalate	µg.l ⁻¹	S-N	To Follow	-	-	-
1790	Bis(2-Ethylhexyl) Phthalate	µg.l ⁻¹	S-N	To Follow	-	-	-

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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

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Sample Matrix:				Surface Water	-	-	-
1790	Di-N-Octyl Phthalate	µg.l ⁻¹	S-N	To Follow	-	-	-
ORG-L02	Naphthalene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Acenaphthene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	4-nitrophenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2,3,4,6-tetrachlorophenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Fluorene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Phenanthrene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Anthracene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Fluoranthene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Pyrene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Benza(a)anthracene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Chrysene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Benzo(b)fluoranthene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Benzo(a)pyrene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Indeno(123-cd)pyrene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Dibenza(ah)anthracene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	Benzo(ghi)perylene	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2-chlorophenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2-methylphenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	4-methylphenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2 nitrophenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2,4-dimethylphenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2,4-dichlorophenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2,6-dichlorophenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	4-chloro,3-methylphenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2,4,6-trichlorophenol	µg.l ⁻¹	A	To Follow	-	-	-
ORG-L02	2,4,5-trichlorophenol	µg.l ⁻¹	A	To Follow	-	-	-
1810	Alpha-BHC	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Beta-BHC	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Gamma-BHC	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Delta-BHC	µg.l ⁻¹	S-N	To Follow	-	-	-

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Client Sample Reference:				Surface Water Drain	-	-	-
Sample Date:				06/01/22	-	-	-
Sample Matrix:				Surface Water	-	-	-
1810	Heptachlor	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Aldrin	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Heptachlor Epoxide	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Endosulphan	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	pp-DDE	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Dieidrin	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Endosulphan-l	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	pp-DDD	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Endrin Aldehyde	µg.l ⁻¹	S-N	To Follow	-	-	-
1810	Endosulphan Sulphate	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Demeton-O	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Phorate	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Demeton-S	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Disulfoton	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Fenthion	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Trichloronate	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Prothiofos	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Fensulphothion	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Sulprofos	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Azinphos-Methyl	µg.l ⁻¹	S-N	To Follow	-	-	-
1820	Coumaphos	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Atraton	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Prometon	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Simazine	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Atrazine	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Propazine	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Terbutylazine	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Sebumeeton	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Simetryn	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Ametryn	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Prometryn	µg.l ⁻¹	S-N	To Follow	-	-	-
1830	Terbutryn	µg.l ⁻¹	S-N	To Follow	-	-	-

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Analytical Method	Method Code	Accreditation Status
Determination of pH in waters by discrete analyser ECM unit (In-house method)	INORG-L01	ISO 17025
Determination of ammonia in waters by discrete analyser (In-house method)	INORG-L12	ISO 17025
Determination of chloride by discrete analyser (In-house method)	INORG-L13	ISO 17025
Determination of metals in waters by ICP-OES (In-house method)	METALS-L	ISO 17025
Determination of mecoprop in waters by GS-MS (In-house method)	ORG-L17	ISO 17025
Determination of total organic carbon in waters by photometer (In-house method)	INORG-L18	ISO 17025
Determination of PAHs in water by GC-MS (In-house method)	ORG-L02	ISO 17025
Determination of Mineral Oil in Water by GC-MS (In-house method)	ORG-L01	None
Determination of Cyanide in water by discrete analyser (Sub-contracted method)	1300	ISO 17025
Determination of Phenol in water by discrete analyser (In-house method)	INORG-L20	ISO 17025
Determination of metals in waters by ICP-MS (Sub-Contracted method)	1450	None
Determination of Phenol(SVOC) in water by GC-MS (In-house method)	ORG-L02	ISO 17025
Determination of TPH in Water by GC-MS (In-house method)	ORG-L01	None
Determination of nitrate in water by discrete analyser (In-house method)	INORG-L11	ISO 17025
Determination of nitrite in water by discrete analyser (In-house method)	INORG-L14	ISO 17025
Determination of VOCs in waters by GC-MS (Sub-Contracted method)	1760	None

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Analytical Method	Method Code	Accreditation Status
Determination of Organochlorine Pesticides in Water by GC-MS (In-house method)	ORG-L19	None
Determination of Organo-N,P-Pesticides in Water by GC-MS (Sub-contracted method)	1820, 1830	None
Determination of Alkalinity in water by discrete analyser (In-house method)	INORG-L09	ISO 17025
Determination of bacterial counts in waters (Sub-contracted methods)	MM18, M027, MM19, MM21, MM20, MM22	ISO 17025

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.

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*****

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