

Concept Life Sciences

Certificate of Analysis

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Report Number: 673057-1

Date of Report: 09-Aug-2017

Customer: Sirius Environmental
Office Suite 2
The Beacon Centre for Enterprise
Dafen
Llanelli
SA14 8LQ

Customer Contact: Mr Dylan Thomas

Customer Job Reference: TA1037

Customer Purchase Order: 1487/TA1037/D.Thomas

Customer Site Reference: Tarmac A

Date Job Received at Concept: 03-Aug-2017

Date Analysis Started: 04-Aug-2017

Date Analysis Completed: 09-Aug-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual



1549

Report checked
and authorised by :
Claire Brown Crociquia
Customer Service Manager

Issued by :
Claire Brown Crociquia
Customer Service Manager



Concept Reference: 673057 Project Site: Tarmac A Customer Reference: TA1037	
Water	Analysed as Water
Water Suite	

Concept Reference					673057 001
Customer Sample Reference					W1 Surface Water
Date Sampled					02-AUG-2017
Determinand	Method	Test Sample	LOD	Units	
Cd (Dissolved)	T281	F	0.00002	mg/l	0.00009
Pb (Dissolved)	T281	F	0.0003	mg/l	<0.0003
Mn (Dissolved)	T281	F	0.001	mg/l	0.030
Hg (Dissolved)	T281	F	0.00005	mg/l	<0.00005
Ni (Dissolved)	T281	F	0.001	mg/l	0.003
Total Hardness expressed as CaCO3	T649	F	10	mg/l	400
Electrical Conductivity	T7	F	1	µS/cm	1400
pH	T7	F			7.80

Concept Reference: 673057 Project Site: Tarmac A Customer Reference: TA1037	
Water Total and Speciated USEPA16 PAH (SE)	Analysed as Water

Concept Reference					673057 001
Customer Sample Reference					W1 Surface Water
Date Sampled					02-AUG-2017
Determinand	Method	Test Sample	LOD	Units	
Naphthalene	T149	AR	0.01	µg/l	0.02
Acenaphthylene	T149	AR	0.01	µg/l	<0.01
Acenaphthene	T149	AR	0.01	µg/l	0.02
Fluorene	T149	AR	0.01	µg/l	<0.01
Phenanthrene	T149	AR	0.01	µg/l	0.02
Anthracene	T149	AR	0.01	µg/l	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01
PAH(total)	T149	AR	0.01	µg/l	0.05

Concept Reference: 673057 Project Site: Tarmac A Customer Reference: TA1037	
Water Total Petroleum Hydrocarbons CWG (SE)	Analysed as Water

Water	Analysed as Water
Total Petroleum Hydrocarbons CWG (SE)	

Concept Reference					673057 001
Customer Sample Reference					W1 Surface Water
Date Sampled					02-AUG-2017
Determinand	Method	Test Sample	LOD	Units	
Benzene	T54	AR	1	µg/l	<1
Toluene	T54	AR	1	µg/l	<1
EthylBenzene	T54	AR	1	µg/l	<1
M/P Xylene	T54	AR	1	µg/l	<1
O Xylene	T54	AR	1	µg/l	<1
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	<0.020
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	<0.020
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	<0.020
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	<0.020
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	<0.020
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	<0.020
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	<0.01
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	<0.01
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	<0.01
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	0.01
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	0.01
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	0.01
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	<0.01
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	0.01

Index to symbols used in 673057-1

Value	Description
F	Filtered
AR	As Received
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T54	GC/MS (Headspace)
T649	ICP/OES (Calc)
T149	GC/MS (SiR)
T219	GC/FID (SE)
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Cd (Dissolved)	T281	F	0.00002	mg/l	U	001
Pb (Dissolved)	T281	F	0.0003	mg/l	U	001
Mn (Dissolved)	T281	F	0.001	mg/l	U	001
Hg (Dissolved)	T281	F	0.00005	mg/l	U	001
Ni (Dissolved)	T281	F	0.001	mg/l	U	001
Total Hardness expressed as CaCO3	T649	F	10	mg/l	U	001
Electrical Conductivity	T7	F	1	µS/cm	U	001
pH	T7	F			U	001
Benzene	T54	AR	1	µg/l	U	001
Toluene	T54	AR	1	µg/l	U	001
EthylBenzene	T54	AR	1	µg/l	U	001
M/P Xylene	T54	AR	1	µg/l	U	001
O Xylene	T54	AR	1	µg/l	U	001
TPH (C5-C6 aliphatic)	T54	AR	0.020	mg/l	N	001

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
TPH (C6-C7 aromatic)	T54	AR	0.020	mg/l	N	001
TPH (C6-C8 aliphatic)	T54	AR	0.020	mg/l	N	001
TPH (C7-C8 aromatic)	T54	AR	0.020	mg/l	N	001
TPH (C8-C10 aliphatic)	T54	AR	0.020	mg/l	N	001
TPH (C8-C10 aromatic)	T54	AR	0.020	mg/l	N	001
TPH (C10-C12 aliphatic)	T219	AR	0.01	mg/l	N	001
TPH (C10-C12 aromatic)	T219	AR	0.01	mg/l	N	001
TPH (C12-C16 aliphatic)	T219	AR	0.01	mg/l	N	001
TPH (C12-C16 aromatic)	T219	AR	0.01	mg/l	N	001
TPH (C16-C21 aliphatic)	T219	AR	0.01	mg/l	N	001
TPH (C16-C21 aromatic)	T219	AR	0.01	mg/l	N	001
TPH (C21-C35 aliphatic)	T219	AR	0.01	mg/l	N	001
TPH (C21-C35 aromatic)	T219	AR	0.01	mg/l	N	001
Naphthalene	T149	AR	0.01	µg/l	U	001
Acenaphthylene	T149	AR	0.01	µg/l	U	001
Acenaphthene	T149	AR	0.01	µg/l	U	001
Fluorene	T149	AR	0.01	µg/l	U	001
Phenanthrene	T149	AR	0.01	µg/l	U	001
Anthracene	T149	AR	0.01	µg/l	U	001
Fluoranthene	T149	AR	0.01	µg/l	U	001
Pyrene	T149	AR	0.01	µg/l	U	001
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001
Chrysene	T149	AR	0.01	µg/l	U	001
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	N	001
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001
PAH(total)	T149	AR	0.01	µg/l	N	001

