



CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

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Report Number: 671693-2

Date of Report: 02-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 Aberthaw Surface Water

Date Job Received at Concept: 28-Jul-2017

Date Analysis Started: 28-Jul-2017

Date Analysis Completed: 02-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 SOPs

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



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Report checked
and authorised by :
Aislinn Arthey
Trainee Project Manager

Issued by :
Aislinn Arthey
Trainee Project Manager

Concept Reference: 671693					
Project Site: Tarmac Aberthaw Surface Water					
Customer Reference: TA1037					
Water Analysed as Water					
Water Suite					
Concept Reference					671693 001
Customer Sample Reference					W1
Date Sampled					26-JUL-2017
Determinand	Method	Test Sample	LOD	Units	
Cd (Dissolved)	T281	F	0.00002	mg/l	0.00011
Pb (Dissolved)	T281	F	0.0003	mg/l	0.0004
Mn (Dissolved)	T281	F	0.001	mg/l	0.037
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	420
Electrical Conductivity	T7	F	1	µS/cm	1400
pH	T7	F			8.0

Concept Reference: 671693					
Project Site: Tarmac Aberthaw Surface Water					
Customer Reference: TA1037					
Water Analysed as Water					
Total and Speciated USEPA16 PAH (SE)					
Concept Reference					671693 001
Customer Sample Reference					W1
Date Sampled					26-JUL-2017
Determinand	Method	Test Sample	LOD	Units	
Naphthalene	T149	AR	0.01	µg/l	0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01
Acenaphthene	T149	AR	0.01	µg/l	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01
Phenanthrene	T149	AR	0.01	µg/l	<0.01
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	0.01

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

