



Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Report Number: 480639-1

Date of Report: 04-Jun-2015

Customer: Mayer Environmental Limited
Transport Avenue
Brentford
Middlesex
TW8 9HA

Customer Contact: Mr Peter Jenkins

Customer Job Reference:

Customer Site Reference: EMR Boreham

Date Job Received at SAL: 27-May-2015

Date Analysis Started: 27-May-2015

Date Analysis Completed: 04-Jun-2015

The results reported relate to samples received in the laboratory
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 SAL SOPs
All results have been reviewed in accordance with Section 25 of the SAL Quality Manual



1549

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

Issued by :
Miss Claire Brown
Customer Service Manager

SAL Reference: 480639 Project Site: EMR Boreham Customer Reference:							
Water		Analysed as Water					
Discharge Consent 1							
SAL Reference				480639 001	480639 002	480639 003	
Customer Sample Reference				Upstream from Discharge Point	Downstream from Discharge Point	Discharge Pipe	
Date Sampled				22-MAY-2015	22-MAY-2015	22-MAY-2015	
Determinand	Method	Test Sample	LOD	Units			
BOD (ATU)	T264	AR	1	mg/l	<1	<1	30
Mineral Oil	T219	AR	0.02	mg/l	<0.02	<0.02	<0.02
Suspended Solids (Total)	T2	AR	10	mg/l	50	16	43

SAL Reference: 480639 Project Site: EMR Boreham Customer Reference:							
Water		Analysed as Water					
WQ1 Water Suite							
SAL Reference				480639 001	480639 002	480639 003	
Customer Sample Reference				Upstream from Discharge Point	Downstream from Discharge Point	Discharge Pipe	
Date Sampled				22-MAY-2015	22-MAY-2015	22-MAY-2015	
Determinand	Method	Test Sample	LOD	Units			
As (Total)	T301	AR	0.0002	mg/l	0.0029	0.0037	0.0039
B (Total)	T301	AR	0.05	mg/l	<0.05	<0.05	1.1
Cd (Total)	T301	AR	0.00002	mg/l	0.00005	0.00009	0.0017
Cr (Total)	T301	AR	0.001	mg/l	0.001	0.001	0.017
Cu (Total)	T301	AR	0.0005	mg/l	0.0031	0.0044	0.13
Fe (Total)	T301	AR	0.005	mg/l	1.0	0.40	3.0
Pb (Total)	T301	AR	0.0003	mg/l	0.0017	0.0036	0.15
Mn (Total)	T301	AR	0.001	mg/l	0.15	0.12	0.27
Hg (Total)	T301	AR	0.00005	mg/l	<0.00005	<0.00005	0.00059
Ni (Total)	T301	AR	0.001	mg/l	0.011	0.012	0.026
Se (Total)	T301	AR	0.0005	mg/l	0.0012	0.0013	0.0022
Zn (Total)	T301	AR	0.002	mg/l	0.012	0.016	0.60
Ammoniacal nitrogen	T686	F	0.05	mg/l	0.09	0.07	3.3
Alkalinity expressed as CaCO3	T22	AR	20	mg/l	230	220	200
Chemical Oxygen Demand	T221	AR	20	mg/l	42	23	180
Chloride	T686	F	1	mg/l	63	62	130
Cyanide(Total)	T220	AR	0.01	mg/l	<0.01	0.02	0.05
Electrical Conductivity	T7	AR	1	µS/cm	770	770	1100
Nitrite	T686	F	0.1	mg/l	0.2	0.2	<0.1
pH	T7	AR			7.9	7.9	7.2
Phenols(Mono)	T221	AR	0.020	mg/l	<0.020	<0.020	0.030
Phosphate	T686	F	0.5	mg/l	<0.5	<0.5	0.7
Sulphate ion	T686	F	0.5	mg/l	91	89	120
Sulphide	T222	AR	0.1	mg/l	<0.1	<0.1	18

Index to symbols used in 480639-1

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

Method Index

Value	Description
T2	Grav
T686	Discrete Analyser
T221	Colorimetry (CE)
T222	Colorimetric (Ammonium Molybdate)

T22	Titration
T219	GC/FID (SE)
T220	Colorimetry (SD)
T301	ICP/MS (Total)
T264	Probe (Incubation Carbonaceous) (5 Days)
T7	Probe

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
BOD (ATU)	T264	AR	1	mg/l	N	001-003
Mineral Oil	T219	AR	0.02	mg/l	N	001-003
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-003
As (Total)	T301	AR	0.0002	mg/l	U	001-003
B (Total)	T301	AR	0.05	mg/l	U	001-003
Cd (Total)	T301	AR	0.00002	mg/l	U	001-003
Cr (Total)	T301	AR	0.001	mg/l	U	001-003
Cu (Total)	T301	AR	0.0005	mg/l	U	001-003
Fe (Total)	T301	AR	0.005	mg/l	U	001-003
Pb (Total)	T301	AR	0.0003	mg/l	U	001-003
Mn (Total)	T301	AR	0.001	mg/l	U	001-003
Hg (Total)	T301	AR	0.00005	mg/l	U	001-003
Ni (Total)	T301	AR	0.001	mg/l	U	001-003
Se (Total)	T301	AR	0.0005	mg/l	U	001-003
Zn (Total)	T301	AR	0.002	mg/l	U	001-003
Ammoniacal nitrogen	T686	F	0.05	mg/l	U	001-003
Alkalinity expressed as CaCO3	T22	AR	20	mg/l	U	001-003
Chemical Oxygen Demand	T221	AR	20	mg/l	N	001-003
Chloride	T686	F	1	mg/l	U	001-003
Cyanide(Total)	T220	AR	0.01	mg/l	U	001-003
Electrical Conductivity	T7	AR	1	µS/cm	U	001-003
Nitrite	T686	F	0.1	mg/l	U	001-003
pH	T7	AR			U	001-003
Phenols(Mono)	T221	AR	0.020	mg/l	U	001-003
Phosphate	T686	F	0.5	mg/l	U	001-003
Sulphate ion	T686	F	0.5	mg/l	U	001-003
Sulphide	T222	AR	0.1	mg/l	N	001-003

