National Laboratory Service

Analytical Report

Final Report

Report ID - 20124247 - 1

Batch description: 316253

0754

Reported on:
31-Aug-2018

Kylie Roche
Kimberly-Clark
Aber Park
Aber Road
Coleshill Mill
Flint
Clwyd
CH6 5EX

Dear Kylie

Please find attached the results for the batch of 1 samples described below.

Samples Registered on:	06-Aug-2018
Analysis Started on:	06-Aug-2018
Analysis Completed on:	31-Aug-2018
Results for Batch Number	20124247
Your Purchase Order Number:	4300567664

You will be invoiced shortly by our accounts department.

If we can be of further assistance then please do not hesitate to contact us.

Yours sincerely

Vici Bentley
Customer Services Team Manager
Tel: 0800 092 0786
nls@environment-agency.gov.uk

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Reported on: 31-Aug-2018

Client: Kimberly-Clark

Project: 14839 Priority Hazardous Substances

Quote Description: Priority Hazardous Substances

Folder No: 004202776

Sampled on: 2-Aug-18 @ 11:30

Comments: tet sump at 11.30

Quote No: 14839

Matrix: Trade to Controlled Waters

Analyte	Result	Units	Flag	MRV	Accred	Lab ID	Testcode
DDT : Sum of components	<0.0200	ug/l			None	NLS	864
PAH : Total :- {Polynuclear Aromatic Hydrocarbons}	<0.0800	ug/l			None	NLS	864
Cadmium, Dissolved	<0.1	ug/l		0.1	UKAS	SX	33
Lead, Dissolved	<2	ug/l		2	UKAS	SX	33
Nickel, Dissolved	25.2	ug/l		1	UKAS	SX	33
Cadmium	<0.1	ug/l		0.1	UKAS	SX	34
Lead	<2	ug/l		2	UKAS	SX	34
Nickel	3.57	ug/l		1	UKAS	SX	34
Mercury, Dissolved	<0.01	ug/l		0.01	UKAS	SX	248
Mercury	<0.01	ug/l	DD	0.01	UKAS	SX	247
4-Nonylphenol Branched	<0.3	ug/l	DD	0.2	UKAS	NM	56
		ELEVATED_MRV : Matrix interference					
Aldrin	<0.005	ug/l	DD	0.002	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
DDE -pp	<0.005	ug/l	DD	0.002	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
DDT -op	<0.01	ug/l	DD, QB	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
DDT -pp	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Dieldrin	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Endosulfan A	<0.03	ug/l	DD	0.01	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Endosulfan B	<0.03	ug/l	DD	0.01	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Endrin	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
HCH -alpha	<0.01	ug/l	DD, QB	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
HCH -beta	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
HCH -delta	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
HCH -epsilon	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
HCH -gamma :- {Lindane}	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					

Hexachlorobenzene	<0.005	ug/l	DD	0.002	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Hexachlorobutadiene	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Isodrin	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Pentachlorobenzene	<0.005	ug/l	DD	0.002	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
TDE - pp	<0.01	ug/l	DD	0.004	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Trifluralin	<0.1	ug/l	DD	0.04	UKAS	SX	848
		ELEVATED_MRV : Matrix interference					
Atrazine	<0.01	ug/l	DD	0.01	UKAS	SX	849
Chlorfenvinphos	<0.01	ug/l	DD	0.01	UKAS	SX	849
Chlorpyrifos-ethyl	<0.01	ug/l	DD	0.01	UKAS	SX	849
Simazine	<0.01	ug/l	DD	0.01	UKAS	SX	849
Tributyl Tin as Cation	<0.003	ug/l	DD	0.003	None	SX	59
Anthracene	<0.01	ug/l	DD	0.01	UKAS	SX	852
Benzo(a)pyrene	<0.01	ug/l	DD	0.01	None	SX	852
Benzo(b)fluoranthene	<0.01	ug/l	DD	0.01	UKAS	SX	852
Benzo(ghi)perylene	<0.01	ug/l	DD	0.01	UKAS	SX	852
Benzo(k)fluoranthene	<0.01	ug/l	DD	0.01	UKAS	SX	852
Fluoranthene	<0.01	ug/l	DD	0.01	UKAS	SX	852
Indeno(1,2,3-cd)pyrene	<0.01	ug/l	DC, DD	0.01	UKAS	SX	852
Naphthalene	<0.01	ug/l	DD	0.01	UKAS	SX	852
Pentachlorophenol	0.379	ug/l	DD	0.02	UKAS	SX	62
1,2,3-Trichlorobenzene	<0.1	ug/l	DB, DC, DD	0.1	None	SX	1296
1,2,4-Trichlorobenzene	<0.1	ug/l	DB, DC, DD	0.1	None	SX	1296
1,2-Dichloroethane	<0.1	ug/l	DB, DC, DD	0.1	UKAS	SX	1296
1,3,5-Trichlorobenzene	<0.1	ug/l	DB, DC, DD	0.1	None	SX	1296
Benzene	<0.1	ug/l	DD	0.1	UKAS	SX	1296
Carbon tetrachloride :- {Tetrachloromethane}	<0.1	ug/l	DD	0.1	UKAS	SX	1296
Chloroform :- {Trichloromethane}	<0.1	ug/l	DD	0.1	UKAS	SX	1296
Dichloromethane :- {Methylene Dichloride}	<0.5	ug/l	DD	0.5	UKAS	SX	1296
Tetrachloroethylene :- {Perchloroethylene}	<0.1	ug/l	DD	0.1	UKAS	SX	1296
Trichloroethylene :- {Trichloroethene}	<0.1	ug/l	DD	0.1	None	SX	1296
Diuron	<1	ug/l	DD	0.01	None	SX	1131
		ELEVATED_MRV_100 : Dilution required (result accuracy may be reduced)					
Isoproturon	<1	ug/l	DD	0.01	None	SX	1131
		ELEVATED_MRV_100 : Dilution required (result accuracy may be reduced)					
Di-2-ethylhexyl phthalate :- {DEHP}	<0.3	ug/l	DD	0.3	None	NM	639
2,2,4,4,5,5-Hexabromodiphenyl ether :- {PBDE 153}	<0.00006	ug/l	DD	0.00006	None	LE	137
2,2,4,4,5,6-Hexabromodiphenyl ether :- {PBDE 154}	<0.00006	ug/l	DD	0.00006	None	LE	137
2,2,4,4,5-Pentabromodiphenyl ether :- {PBDE 99}	<0.00006	ug/l	DD	0.00006	None	LE	137
2,2,4,4,6-Pentabromodiphenyl ether :- {PBDE 100}	<0.00006	ug/l	DD	0.00006	None	LE	137

2,2,4,4-Tetrabromodiphenyl ether :- {PBDE 47}	<0.00006	ug/l	DD	*0.00006*	None	LE	137
2,4,4-Tribromodiphenyl ether :- {PBDE 28}	<0.00006	ug/l	DD	*0.00006*	None	LE	137

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Method Description Summary for all samples in batch Number 20124247

33	SX M ICPMS Routine - Metals - filtered; acid digested; determined by ICPMS
34	SX M ICPMS Routine - Metals - acid digested; determined by ICPMS
56	NM O ALKYL PHENOLS - Nonyl; Octyl Phenols - solvent extracted; determined by GCMS
59	SX O TINS - Organotins (speciated) - solvent extracted; determined by GCMS
62	SX O PHENOLS - Phenols (speciated) - solvent extracted, PFB derivitised, determined by GCMS
137	LE O PBDE - Liquid/Liquid Extraction, followed by SPE clean-up and analysis by GCMS/NCI
247	SX M Mercury - determined by CV-AFS
248	SX M Mercury - filtered; determined by CV-AFS
639	NM O DEHP - solvent extracted; determined by GCMS
848	SX O OCP - OCPs, PCBs - solvent extracted; determined by GCMS (SIM)
849	SX O ONP - solvent extracted; determined by GCMS (SIM)
852	SX O PAH - (speciated) - solvent extracted; determined by GCMS
864	Parameter by calculation
1131	SX O Urocarb - direct aqueous injection by LCMS triple quad
1296	SX O VOLATILES - direct aqueous injected; determined by P and T GCMS

James Trout
Laboratory Site Manager

'The results in this Certificate of Analysis are the definitive test results. Any accompanying results are provided for ease of use by the customer and should be used with caution.

All reporting limits quoted are those achievable for clean samples of the relevant matrix. No allowance is made for instances when dilutions are necessary owing to the nature of the sample or insufficient volume of the sample being available. In these cases higher reporting limits may be quoted and will be above the MRV.
Minimum Reporting Value (MRV). A minimum concentration selected for reporting purposes (i.e. the less than value), which is higher than the statistically derived method limit of detection.

Solid sample results are determined on a "dried" sample fraction except for parameters where the method description identifies that "as received" sample was used.

Uncertainty of Measurement information relating to sample results is supplied upon request. Uncertainty is estimated from the performance of routine quality control standards, using the calculation 2 X Relative Standard Deviation + Bias. This is based on the guidance issued by the UKTAG Chemistry task team - Guidance on the implementation of the Quality Assurance/Quality Control requirements' associated with Commission Directive 2009/90/EC, Article 4 (UoM = 2 X %RSD), with a contribution added for the bias.

Key to Results Flags:

DB Samples received outside specified stability times. It is possible that the results may be compromised.

DC Analysis started outside of specified stability time. It is possible that the results may be compromised.

DD Sample temperature not verified during transport.

QB QC Flag. Result accepted against QC breach

The analysis start date specified is the date of the first test, dates for other analysis are available on request.

Please note all samples will be retained for 10 working days for aqueous samples and 30 working days for solid samples after reporting unless otherwise agreed with Customer Services
Key to Accreditation: UKAS = Methodology accredited to ISO/IEC 17025:2005, MCertS = Methodology accredited to MCertS Performance Standard for testing of soils, none = Methodology not accredited
Key to Lab ID: LE = Leeds, NM = Nottingham, SX = Starcross, SC = Sub-Contracted outside NLS, FI = Field Data - outside NLS, NLS = Calculated

Any subsequent version of this report denoted with a higher version number will supersede this and any previous versions

END OF TEST REPORT