

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

Dear Kylie

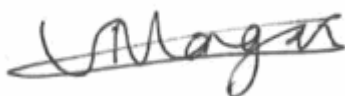
Please find attached the results for the batch of 3 samples described below.

Samples Registered on:	02-Sep-2016
Analysis Started on:	03-Sep-2016
Analysis Completed on:	19-Sep-2016
Results for Batch Number	20098795
Your Purchase Order Number:	4300513801

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 Morgan

Customer Services Team Leader

Tel: (0113) 231 2177

nls@environment-agency.gov.uk

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation. Details of analytical procedures and performance data are available on request. The date of sample analysis is available on request.

The Environment Agency carries out analytical work to high standards and within the scope of its UKAS accreditation, but has no knowledge of whether the circumstances or the validity of the procedures used to obtain the samples provided to the laboratory were representative of the need for which the information was required.

The Environment Agency and/or its staff does not therefore accept any liability for the consequences of any acts or omissions made on the basis of the analysis or advice or interpretation provided.

Client: Kimberly-Clark

Project: 13601 Treated Effluent Tank

Quote Description: Phase 1 Part A

Folder No: 003639591

Sampled on: 1-Sep-16 @ 10:30

Comments: TET SUMP TIME 10.30

Quote No: 13601

Matrix: Trade to Controlled Waters

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Flag</u>	<u>MRV</u>	<u>Accred</u>	<u>Lab ID</u>	<u>Testcode</u>
Cadmium	<0.1	ug/l		0.1	UKAS	SX	34
Lead	<2	ug/l		2	UKAS	SX	34
Nickel	3.78	ug/l	QB	1	UKAS	SX	34
Mercury	<0.01	ug/l		0.01	UKAS	SX	247
Acenaphthene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Acenaphthylene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Anthracene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Benzo(a)anthracene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Benzo(a)pyrene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Benzo(b)fluoranthene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Benzo(e)pyrene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Benzo(ghi)perylene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Benzo(k)fluoranthene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Chrysene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Dibenzo(ah)anthracene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Fluoranthene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Fluorene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Indeno(1,2,3-cd)pyrene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Naphthalene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Perylene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Phenanthrene	<0.02	ug/l		0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference					
Pyrene	<0.02	ug/l		0.01	UKAS	SX	852

Benzene

<0.1

ELEVATED_MRV : Matrix interference

ug/l

0.1

UKAS

SX

1296

Client: Kimberly-Clark Project: 13601 Treated Effluent Tank
Quote Description: Phase 1 Part B
Folder No: 003639592 Sampled on: 1-Sep-16 @ 10:30
Comments: TET SUMP TIME 10.30
Quote No: 13601 Matrix: Trade to Controlled Waters

Analyte	Result	Units	Flag	MRV	Accred	Lab ID	Testcode
Cadmium	<0.1	ug/l		0.1	UKAS	SX	34
Mercury	<0.01	ug/l		0.01	UKAS	SX	247
Acenaphthene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Acenaphthylene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Anthracene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(a)anthracene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(a)pyrene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(b)fluoranthene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(e)pyrene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(ghi)perylene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(k)fluoranthene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Chrysene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Dibenzo(ah)anthracene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Fluoranthene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Fluorene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Indeno(1,2,3-cd)pyrene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Naphthalene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Perylene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Phenanthrene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Pyrene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			

Client: Kimberly-Clark

Project: 13601 Treated Effluent Tank

Quote Description: Metals and Priority Hazards

Folder No: 003639593

Sampled on: 1-Sep-16 @ 10:30

Comments: TET SUMP TIME 10.30

Quote No: 13601

Matrix: Trade to Controlled Waters

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Flag</u>	<u>MRV</u>	<u>Accred</u>	<u>Lab ID</u>	<u>Testcode</u>
Arsenic	<1	ug/l		1	UKAS	SX	30
Cadmium	<0.1	ug/l		0.1	UKAS	SX	34
Copper	4.03	ug/l	QB	1	UKAS	SX	34
Lead	<2	ug/l		2	UKAS	SX	34
Nickel	9.30	ug/l	QB	1	UKAS	SX	34
Zinc	57.0	ug/l		5	UKAS	SX	34
Mercury	<0.01	ug/l		0.01	UKAS	SX	247
4-Nonylphenol Branched	<0.2	ug/l		0.2	UKAS	NM	56
Endosulfan A	<0.03	ug/l		0.01	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
Endosulfan B	<0.03	ug/l		0.01	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
HCH -alpha	<0.01	ug/l		0.004	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
HCH -beta	<0.01	ug/l		0.004	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
HCH -delta	<0.01	ug/l		0.004	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
HCH -epsilon	<0.01	ug/l		0.004	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
HCH -gamma :- {Lindane}	<0.01	ug/l		0.004	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
Hexachlorobenzene	<0.005	ug/l		0.002	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
Hexachlorobutadiene	<0.01	ug/l		0.004	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
Pentachlorobenzene	<0.005	ug/l		0.002	UKAS	SX	848
				ELEVATED_MRV : Matrix interference			
Tributyl Tin as Cation	<0.003	ug/l		0.003	None	SX	59
Acenaphthene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Acenaphthylene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Anthracene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(a)anthracene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			
Benzo(a)pyrene	<0.02	ug/l		0.01	UKAS	SX	852
				ELEVATED_MRV : Matrix interference			

Benzo(b)fluoranthene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Benzo(e)pyrene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Benzo(ghi)perylene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Benzo(k)fluoranthene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Chrysene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Dibenzo(ah)anthracene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Fluoranthene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Fluorene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Indeno(1,2,3-cd)pyrene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Naphthalene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Perylene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Phenanthrene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
Pyrene	<0.02	ug/l	0.01	UKAS	SX	852
		ELEVATED_MRV : Matrix interference				
2,2,3,4,4,5,6-Heptabromodiphenyl ether :- {PBDE 183}	<0.00006	ug/l	0.00006	None	NM	137
2,2,3,4,4,5-Hexabromodiphenyl ether :- {PBDE 138}	<0.00006	ug/l	0.00006	None	NM	137
2,2,3,4,4-Pentabromodiphenyl ether :- {PBDE 85}	<0.00006	ug/l	0.00006	None	NM	137
2,2,4,4,5,5-Hexabromodiphenyl ether :- {PBDE 153}	<0.00006	ug/l	0.00006	None	NM	137
2,2,4,4,5,6-Hexabromodiphenyl ether :- {PBDE 154}	<0.00006	ug/l	0.00006	None	NM	137
2,2,4,4,5-Pentabromodiphenyl ether :- {PBDE 99}	<0.00006	ug/l	0.00006	None	NM	137
2,2,4,4,6-Pentabromodiphenyl ether :- {PBDE 100}	<0.00006	ug/l	0.00006	None	NM	137
2,2,4,4-Tetrabromodiphenyl ether :- {PBDE 47}	<0.00006	ug/l	0.00006	None	NM	137
2,3,4,4-Tetrabromodiphenyl ether :- {PBDE 66}	<0.00006	ug/l	0.00006	None	NM	137
2,4,4-Tribromodiphenyl ether :- {PBDE 28}	<0.00006	ug/l	0.00006	None	NM	137

Method Description Summary for all samples in batch Number 20098795

30	SX M Hydride As - Arsenic - acid digested; determined by Hydride - AAS
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
137	NM O PBDE - Liquid/Liquid Extraction, clean-up with column chromatography and analysis via GCMS/NCI
247	SX M Mercury - determined by CV-AFS
848	SX O OCP - OCPs, PCBs - solvent extracted; determined by GCMS (SIM)
852	SX O PAH - (speciated) - solvent extracted; determined by GCMS
1296	SX O VOLATILES - direct aqueous injected; determined by P and T GCMS



James Trout
Laboratory Site Manager

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 $2 \times \text{Relative Standard Deviation} + \text{Bias}$. 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 = $2 \times \%RSD$), with a contribution added for the bias.

Key to Results Flags:

QB Reported result associated with analytical quality control flag. Reason for flag identified

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