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Julia Frost
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TOYOTA



Ref: Environmental Permit EPR/BK6483IU/V003

Date: 27/01/2016

Dear Julia,

With reference to permit improvement condition 9.22 and our subsequent response on 14/01/2016, I attach the Quarter 4 report for monitoring of our Waste Water Treatment Plant emissions. The report compares sample analysis by Toyota and a UKAS accredited lab, using methods based on TGN M18.

If you have any queries, please do not hesitate to contact me.

Yours sincerely,

Keith Martin
Senior Engineer
Facilities and Environment

Enc: Reporting Form "Sewer2/280709A" (Q1)

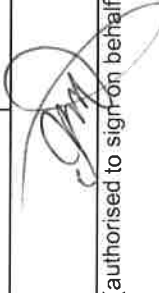
MONITORING RETURNS N. AIA 15		INITIALS	DATE
CHECKED VS AUTHORISATION	JF	11/2	
PACKING	JB	22.16.	
OK FOR PUBLIC REGISTER	JF	11/2	
WPP TO WPP'S REGISTER			



Permit Number: EPR/BK6483IU/V003
Facility: Deeside engine Casting

Operator: Toyota Motor Manufacturing (UK) Ltd
Form Number: Sewer2 / 280709A

Reporting of emissions to sewer for Quarter:				Q1 Jan - Mar 2016		TMUK		UKAS Accredited Lab.		
Emission Point	Substance/Parameter	ELV	Reference Period	Sample Date	Test Method	Result	Test Method	Result	Uncertainty	
S1	pH	5 - 10	Daily Composite Sample	14/01/2016	Laboratory bench pH probe.	7.51	Based "The Measurement of Electrical Conductivity and Laboratory Determination of the pH Value of Natural, Treated and Wastewaters 1978".	7.3	1%	
S1	Total Suspended Solids	200 mg/l	Daily Composite Sample	14/01/2016	Internal Method: Filter Paper + balance	18.0 mg/l	Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."	19.0 mg/l	9.20%	
S1	COD	1500 mg/l	Daily Composite Sample	14/01/2016	Internal Titration Method	390 mg/l	Dichromate oxidation / digestion.	225.0 mg/l	8.90%	
S1	Total Hydrocarbon Oil	150 mg/l	Daily Composite Sample	14/01/2016	Internal Gravimetric Method	2.0 mg/l	Solvent extract of the sample / GC/FID	2.78 mg/l	17.40%	
S1	Sulphate	1000 mg/l	Daily Composite Sample	14/01/2016	Internal Method AA Spectrophotometer	180.0 mg/l	Determination by ICPOES.	208.0 mg/l	6.40%	
S1	Copper	1 mg/l	Daily Composite Sample	14/01/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	0.003 mg/l	2.70%	
S1	Zinc	2 mg/l	Daily Composite Sample	14/01/2016	Internal Method AA Spectrophotometer	0.23 mg/l	Determination by ICPMS	0.044 mg/l	5.70%	
S1	Lead	1 mg/l	Daily Composite Sample	14/01/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	<0.001 mg/l	2.50%	
S1	Nickel	1 mg/l	Daily Composite Sample	14/01/2016	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	0.011 mg/l	2.20%	

Signed:  Date: 27/01/2016
(authorised to sign on behalf of operator)