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TOYOTA

Julia Frost
Regulatory Officer
Natural Resources Wales
Chester Road
Buckley
Flintshire, CH7 3AJ

Ref: Environmental Permit EPR/BK6483IU

Date: 3 March 2017

Dear Julia,

With reference to permit improvement condition 9.22 and our subsequent response on 24/04/2010, I attach the 2017 Quarter 1 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,



Chris Mould
Principal Engineer
Facilities and Environment

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



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				Q1 Oct - 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	16/02/2017	Laboratory bench pH probe.	7.49	Based on "The Measurement of Electrical Conductivity and Laboratory Determination of the pH Value of Natural, Treated and Wastewaters 1978".	7.4	1%
S1	Total Suspended Solids	200 mg/l	Daily Composite Sample	16/02/2017	Internal Method: Filter Paper + balance	32 mg/l	Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."	47 mg/l	9.20%
S1	COD	1500 mg/l	Daily Composite Sample	16/02/2017	Internal Titration Method	616 mg/l	Dichromate oxidation / digestion.	569 mg/l	8.90%
S1	Total Hydrocarbon Oil	150 mg/l	Daily Composite Sample	16/02/2017	Internal Gravimetric Method	7 mg/l	Solvent extract of the sample / GCFID	7.77 mg/l	17.40%
S1	Sulphate	1000 mg/l	Daily Composite Sample	16/02/2017	Internal Method AA Spectrophotometer	480 mg/l	Determination by ICPOES.	257 mg/l	6.40%
S1	Copper	1 mg/l	Daily Composite Sample	16/02/2017	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	<0.001 mg/l	2.70%
S1	Zinc	2 mg/l	Daily Composite Sample	16/02/2017	Internal Method AA Spectrophotometer	0.19 mg/l	Determination by ICPMS	0.054 mg/l	5.70%
S1	Lead	1 mg/l	Daily Composite Sample	16/02/2017	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	16/02/2017	Internal Method AA Spectrophotometer	<0.1 mg/l	Determination by ICPMS	0.014 mg/l	2.20%

Signed:  Date: 3/3/17
(authorised to sign on behalf of operator)