

# Toyota Motor Manufacturing (UK) Ltd

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# TOYOTA



Lara Cubley  
Regulatory Officer  
Natural Resources Wales  
Chester Road  
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Flintshire, CH7 3AJ

Ref: Environmental Permit EPR/BK6483IU/V003

Date: 05/12/2014

Dear Lara,

With reference to permit improvement condition 9.22 and our subsequent response on 24/04/2010, 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" (Q4)

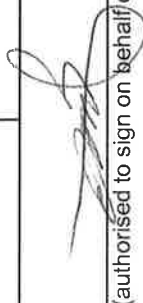
**TOYOTA MOTOR MANUFACTURING (UK) LTD**

| INITIALS | DATE     |
|----------|----------|
| L.C.     | 14.8.15. |
| JB       | 16.12.14 |
| L.C.     | 14.8.15. |
|          |          |

Permit Number: EPR/BK6483/U/V003  
Facility: Deeside engine Casting

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

| Reporting of emissions to sewer for Quarter: |                        |           |                        | Q4 October - DEcember 2014 |                                         | 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 | 27/11/2014                 | Laboratory bench pH probe.              | 7.01       | 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 | 27/11/2014                 | Internal Method: Filter Paper + balance | 2.0 mg/l   | Based on "Suspended, Settleable and Total Dissolved Solids in Waters and Effluents 1980."                                                 | 18.0 mg/l            | 9.20%       |  |
| S1                                           | COD                    | 1500 mg/l | Daily Composite Sample | 27/11/2014                 | Internal Titration Method               | 616.0 mg/l | Dichromate oxidation / digestion.                                                                                                         | 380.0 mg/l           | 8.90%       |  |
| S1                                           | Total Hydrocarbon Oil  | 150 mg/l  | Daily Composite Sample | 27/11/2014                 | Internal Gravimetric Method             | 7.0 mg/l   | Solvent extract of the sample / GC/FID                                                                                                    | 2.02 mg/l            | 17.40%      |  |
| S1                                           | Sulphate               | 1000 mg/l | Daily Composite Sample | 27/11/2014                 | Internal Method AA Spectrophotometer    | 340.0 mg/l | Determination by ICPOES.                                                                                                                  | 250.0 mg/l           | 6.40%       |  |
| S1                                           | Copper                 | 1 mg/l    | Daily Composite Sample | 27/11/2014                 | Internal Method AA Spectrophotometer    | <0.1 mg/l  | Determination by ICPMS                                                                                                                    | 0.009 mg/l           | 2.70%       |  |
| S1                                           | Zinc                   | 2 mg/l    | Daily Composite Sample | 27/11/2014                 | Internal Method AA Spectrophotometer    | 0.40 mg/l  | Determination by ICPMS                                                                                                                    | 0.285 mg/l           | 5.70%       |  |
| S1                                           | Lead                   | 1 mg/l    | Daily Composite Sample | 27/11/2014                 | Internal Method AA Spectrophotometer    | <0.1 mg/l  | Determination by ICPMS                                                                                                                    | 0.002 mg/l           | 2.50%       |  |
| S1                                           | Nickel                 | 1 mg/l    | Daily Composite Sample | 27/11/2014                 | Internal Method AA Spectrophotometer    | <0.1 mg/l  | Determination by ICPMS                                                                                                                    | 0.01 mg/l            | 2.20%       |  |

Signed:  Date: 04/12/14  
(authorised to sign on behalf of operator)