

Elaine Marshall  
Regulatory Officer  
Installations South, Northeast Area  
Environment Agency  
Tyneside House  
Skinnerburn Road  
Newcastle Business Park  
Newcastle –upon-Tyne  
NE4 7AR

Date: 27<sup>th</sup> January 2017

Dear Elaine,

**Permit Number: NP3838LV**

**Reference: Annual IPPC Report for Wilton Biomass Power Station**

The following annual information is submitted under the requirement of Section 4.2 of our EPR permit.

Yours sincerely



David Sigsworth

Environmental Technical Manager  
SembCorp Utilities UK Limited

**2016 Annual Report**  
**SembCorp Utilities UK Limited**  
**Wilton Biomass Power Station**  
**Permit Number: NP3838LV**

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## **1. Summary of Monitoring Results**

### **1.1 Emissions to Air**

#### **1.1.1 Continuous Monitoring**

See attached six monthly reporting of emissions to air (Appendix 1 – Pg 5 & 6 and Pg 8 & 9).

#### **1.1.2 Manual Extractive Monitoring**

Table S4.1 in the EPR permit identifies all manual extractive emissions monitoring required on a bi-annual basis during 2016. This sampling and analysis was carried out by an MCERTS certified organisation.

Results relating to manual extractive monitoring can be found in the attached six monthly reporting of emissions to air (Appendix 1 – Pg 5 & 6 and Pg 8 & 9).

#### **1.1.3 Ash Residues**

Table S4.8 of the EPR permit requires quarterly analysis of bottom ash and air pollution control residues for a range of analytes. During 2016 this was carried out by Marchwood Scientific Services and undertaken to the requirements of ISO17025.

Results relating to this analysis can be found in the attached Reporting of ash Composition (Appendix 1 – Pg 7 & 10).

### **1.2 Emissions to Sewer**

Table S4.3 requires the monitoring of the S3 sewer discharge on a weekly basis for visible oil and grease.

Weekly samples from S3 were submitted to Sembcorp Analytical Services who are accredited to ISO9001:2008 for this service.

See attached reporting of emissions to sewer (Appendix 1 – Pg 11).

### 1.3 Noise Monitoring

Table S4.6 of the EPR permit requires noise monitoring on a quarterly basis for measurement points as agreed with the competent authority.

The noise monitoring shown in Table 1.3 was undertaken to the requirements of BS 4142:1997 by Sembcorp Analytical Services who are accredited to ISO9001:2008 for this service.

Table 1.3 – Noise Monitoring 2016

Monitoring Location	19/02/16 (dBA)	20/05/16 (dBA)	25/07/16 (dBA)	18/10/16 (dBA)
Wilton 10 Main Stack	73	71	75	75
Sorter/metal extraction unit	76	65	74	86
Entrance to fuel handling area	67	64	59	59
Exit from fuel handling area	61	68	62	63
Chipper	71	68	85	68
Construction entrance	65	62	65	63
Gated entrance (Sub station Rd)	69	68	71	73
Main entrance Whitby Building	62	60	67	59

## 2. Assessment of impact of emissions submitted with application

### 2.1 EMISSIONS TO AIR

Emissions to air from the Wilton 10 Power Station occur from A4 stack.

At the time of application Sembcorp identified peak concentrations which were used to undertake emissions modelling and impact assessment of the process prior to operation.

The permit application concluded that the emissions impact would be insignificant when calculated with those peak concentrations.

It can be seen from the emissions reports (see pages 5 & 8) that the maximum reported concentrations are below the application peak concentrations and therefore the emissions to air impact in 2016 would be insignificant.

### 2.2 EMISSIONS TO WATER

Emissions to water from the Wilton 10 Power Station occur through boiler blowdown and cooling water discharges from the power station. Annual emissions to water were not quantified in the EP application, as there was no information available on the composition of the wastewater at the time of the application.

An improvement condition (IC4) was included in the Wilton 10 EP permit, which required an impact assessment of the emissions from Wilton 10 to be carried out, following suitable monitoring of these emissions. This report was submitted in June 2008, and concluded that it is unlikely that this effluent would lead to impacts which could result in exceedences of the EALs in the final receiving water, the River Tees, and therefore no further review of emissions to water has been carried out here.

CAR1 form (NP3838LV 241109C) indicated that the impact assessment submitted in IC4 was satisfactory and that no further action was required in regards to effluent monitoring from points S4 and S5 of the Wilton 10 Biomass Power Station.

Appendix 1, page 11 records that there have been no instances of visible oil/grease from the permitted discharge point S3.

### **3. Summary of annual improvements targets**

There have been no annual improvement targets for 2016.

### **4. Details of any contamination/decontamination of site**

There have been no events during 2016 that could have caused any contamination within the installation boundary.

### **5. Process Operation Review**

On the whole the Wilton Biomass Power Station has operated at steady performance throughout 2016. There have been a number of minor issues around fuel feeder systems and loss of fluidised bed performance, but these have been rectified with only short periods of down time.

## 6. Assessment of emissions data against WID.

The table below shows the pollutant peak concentrations and WID emission limit values as displayed in the permit application, also displayed are the peak values obtained during 2016.

Pollutant	Peak Concentration (from application)	WID ELV (from application)	Annual Maximum Concentration
	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>
NO <sub>x</sub> (as NO <sub>2</sub> )	300	300	184
SO <sub>2</sub>	155	155	37
Particulates	25	25	7
CO	To be determined	-	183
NH <sub>3</sub>	15	-	3
HCL	24	-	7
HF	2	-	<0.05 <sup>[1]</sup>
Hg	0.05	0.05	<0.0006 <sup>[1]</sup>
Sum (Cd, Tl)	0.05	0.05	0.002 <sup>[1]</sup>
Sum (Sb, As, Pb, Cr, Co, Cu, Mn, Ni, V)	0.5	0.5	0.32 <sup>[1]</sup>
Dioxins and Furans	0.1 ng/m <sup>3</sup>	0.1 ng/m <sup>3</sup>	0.008 <sup>[1]</sup> ng/m <sup>3</sup>

<sup>[1]</sup> Taken from manual extractive analysis.

It can be seen above each individual annual maximum concentration is below the WID emission limit values.

**2016 Annual Report**  
**SembCorp Utilities UK Limited**  
**Wilton Biomass Power Station**  
**Permit Number: NP3838LV**

**Appendix 1**

**AAE1 Form**

Includes the following forms as identified within the permit:

**Performance 1**

**Water Usage 1**

**Energy 1**

**Air 1**

**(January to June 2015)**  
**(July to December 2015)**

**Ash 1**

**(January to June 2015)**  
**(July to December 2015)**

**Sewer 1**



## LCPD Reporting - Energy Usage Summary for the Reporting Year:

2016 Select Reporting Year

Operator: Sembcorp Utilities U.K Limited Select Operator

Site Name: Wilton Biomass Power Station Select Site

Permit/Variation number: NP3838LV LCP:

Enter LCP Capacity

Parameter	Energy Input (net calorific value (TJ))					Total Emissions to Air (T)		
	Biomass	Other Solid Fuels Incl. coal	Liquid Fuels	Natural Gas	Other Gases	SO <sub>2</sub>	NO <sub>x</sub>	Dust (PM)
Fuel NCV (TJ / Tonne)	0.0100	0.0000	0.0000	0.0463		5.1249	79.3815	1.5076
Annual Fuel Usage (Tonnes)	247736.1400	0.0000	0.0000	555.0000	0.0000			
Annual Energy Input (TJ)	2469.9293	0.0000	0.0000	25.6965	0.0000	Total Energy Input	2495.6258	

2485 0258/8

Further Explanation or Comments

Signed on behalf of the Operator: D Sigsworth

Date: 27 January 2017

Verified by Inspector:

Date:

## Please adhere to the Important Notes below:

1. Participating LCPs to submit the Annual Returns no later than 28 February of the following year including the Annual Total Emissions to Air data;
2. Submit the Energy input data in TERAJOULES and Emissions to Air data in TONNES. No other forms of measurements shall be accepted;
3. Insert the CURRENT CAPACITY for the LCP within the Enter LCP Capacity dialogue box;
4. Ensure the Permit Number is correctly displayed in the Permit/Variation Number dialogue box;
5. PDF documents shall not be accepted
6. All forms must be saved in the file format: AAE1-LCP/Plant Number-Inventory Year i.e. AAE1-LCP01-2013

Permit Number: NP3838LV Operator: Sembcorp Utilities (UK) Limited

Installation: Wilton 10 Power Station Form Number: Performance1 / 03/07/06

Reporting of Annual Production/Treatment for the period: 1<sup>st</sup> January 2016 to 31<sup>st</sup> December 2016

Parameter	Result	Units
Virgin Wood used	176,391	Tonnes
Energy wood crop used	0	Tonnes
Recycled wood EWC 150103, EWC 030105, EWC 170201, EWC 200138	71,345	Tonnes
Bottom ash (combustion ash)	3,991	Tonnes
Power Generated	211.41	GWh
Air Pollution Control Residues (including fly ash)	4,668	Tonnes
Steam Exported	850,925	Tonnes
Hazardous waste disposed	4,668	Tonnes
Non-hazardous waste disposed	4,705	Tonnes

Operator's comments :  
Steam exported is from the boiler output and not the plant steam export.

Signed ..... Date.....  
(Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Permit Number: NP3838LV Operator: Sembcorp Utilities (UK) Limited  
Installation: Wilton Biomass Power Station Form Number: Performance1 / 25/07/06  
Reporting of Other Performance indicators for the period: 1<sup>st</sup> January 2016 to 31<sup>st</sup> December 2016

Parameter	Result	Unit
Water Usage	1,592,115	Tonnes
Energy Usage	809,002	MWh

Operator's comments :

Signed .....  
(Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Date: 27/01/17

Permit Number: NP3838LV Operator: Sembcorp Utilities (UK) Limited  
 Installation: Wilton 10 Power Station Form Number: WaterUsage1 / 03/07/06

Reporting of Water Usage for the year: 2016

Water Source	Usage (m <sup>3</sup> /year)	Specific Usage (m <sup>3</sup> /unit output)
Tees Valley mains water	0	0
Demineralised water	80,955	0.32
Raw water ( River Tees extracted water)	1,511,160	5.88
TOTAL WATER USAGE	1,592,115	

Operator's comments :

At present the water is not metered at the plant boundaries.

The potable water value has been calculated from budget figures which estimate 0.5m<sup>3</sup>/h flow rate.  
 The demin water has been calculated from: [(steam raised x 0.05) + steam exported + vented steam].  
 The raw water value has been calculated using average flow rate then multiplied by online hours.

Signed .....  
 (Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Date.....27/01/17.....

Permit Number: NP3838LV  
 Installation: Wilton 10 Power Station  
 Operator: Sembcorp Utilities (UK) Limited  
 Form Number: Energy1 / 03/07/06

Reporting of Energy Usage for the year: 2016

Energy Source	Energy Usage		Primary Energy (MWh)	Specific Usage (MW/unit output)
	Quantity			
Electricity *	21,374 MW		21,374	0.11
Natural Gas	555 tonnes		7,846	0.04
Wood	247,736 tonnes		779,783	4.10

\* Conversion factor for delivered electricity to primary energy = 2.6

Operator's comments :

Total Primary Energy is sum of Natural Gas and Wood (Electricity used is not imported but taken from total Elec Gen by unit).

Signed .....  
 (Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)  
 Date: 27/01/17

Permit Reference Number: NP3838LV

Operator: Sembcorp Utilities (UK) Limited

Installation: Wilton 10 Power Station

Form Number: Agency Form / NP3838LV / A1 / Form Dated 21st July 2006

Six-monthly Reporting of Emissions to Air for the period from: 1<sup>st</sup> January 2016 to 30<sup>th</sup> June 2016

Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Accreditation/ Certification <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A4	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	300 mg/m <sup>3</sup>	184 mg/m <sup>3</sup>	ISO 10849	24/02/16	SIRA MC 040044/00	±15%
A4	Particulate Matter	25 mg/m <sup>3</sup>	7 mg/m <sup>3</sup>	BS EN 13284-2	05/01/16	SIRA MC 040041/00	Not stated
A4	Sulphur Dioxide	155 mg/m <sup>3</sup>	29 mg/m <sup>3</sup>	BS 6069-4.4:1993	21/02/16	SIRA MC 040044/00	±15%
A4	Carbon Monoxide	215 mg/m <sup>3</sup>	183 mg/m <sup>3</sup>	ISO 12039	05/01/16	SIRA MC 040044/00	±7.5%
A4	Hydrogen Chloride	25 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	MCERT Certified Instrument	06/03/16	SIRA MC 040044/00	±15%
A4	Total Organic Carbon (TOC)	No Limit Set	3 mg/m <sup>3</sup>	BS EN 12619:1999	08/01/16	SIRA MC 040046/00	±15%
A4	Ammonia	No Limit Set	3 mg/m <sup>3</sup>	MCERT Certified Instrument	08/01/16	SIRA MC 040044/00	±15%
A4	Cadmium & Thallium and their compounds (total)	0.05 mg/m <sup>3</sup> over minimum 30 minute, maximum 8 hour period	<0.001 mg/m <sup>3</sup>	BS EN 14385	27/01/16 15:04-15:44	ISO17025 MCERTS	0.0002 mg/m <sup>3</sup>
A4	Mercury and its compounds	0.05 mg/m <sup>3</sup> over minimum 30 minute, maximum 8 hour period	<0.0006mg/m <sup>3</sup>	BS EN 13211	27/01/16 15:04-15:44	ISO17025 MCERTS	0.00007 mg/m <sup>3</sup>
A4	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m <sup>3</sup> over minimum 30 minute, maximum 8 hour period	0.13 mg/m <sup>3</sup>	BS EN 14385	27/01/16 15:04-15:44	ISO17025 MCERTS	0.02 mg/m <sup>3</sup>
A4	Dioxins / furans (I-TEQ)	0.1 ng/m <sup>3</sup> over minimum 6 hour, maximum 8 hour period	0.0082 ng/m <sup>3</sup>	BS EN 1948	28/01/16 09:16-15:24	ISO17025 MCERTS	0.0017 ng/m <sup>3</sup>

Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Accreditation/ Certification <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A4	Hydrogen Fluoride	2 mg/m <sup>3</sup>	<0.03 mg/m <sup>3</sup>	BS EN 15713	04/02/16 13:05-14:05	ISO17025 MCERTS	0.002 mg/m <sup>3</sup>

**Operator Comments:**

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [6] The result to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

Signed .....  ..... Date.....27/01/17.....  
(Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Permit Reference Number: NP3838LV

Operator: Sembcorp Utilities (UK) Limited

Installation: Wilton 10 Power Station

Form Number: Agency Form / NP3838LV / Ash1 / Form Dated 21<sup>st</sup> July 2006

Reporting of Ash Composition for the period from:

Quarter 1 2016

Ash Composition (Metals, Dioxins, etc.)													DIOXIN		
	Cd %	Ti %	Hg %	Pb %	Cr %	Cu %	Mn %	Ni %	As %	Co %	V %	Zn %	DIOXIN I-TEQ ng/kg		
													WHO-TEQ ng/kg		
													Humans/ mammals	Birds	Fish
Bottom Ash	0.491	0.016	0.016	18.286	4.912	18.893	15.386	2.076	0.269	1.394	1.442	35.858	0.51	0.54	0.56
Air Pollution Control Residues	0.990	0.008	1.815	24.905	14.602	12.712	14.593	0.412	0.660	1.081	1.213	26.093	296	295	311

Reporting of Ash Composition for the period from:

Quarter 2 2016

Ash Composition (Metals, Dioxins, etc.)													DIOXIN		
	Cd %	Ti %	Hg %	Pb %	Cr %	Cu %	Mn %	Ni %	As %	Co %	V %	Zn %	DIOXIN I-TEQ ng/kg		
													WHO-TEQ ng/kg		
													Humans/ mammals	Birds	Fish
Bottom Ash	0.673	0.017	0.017	20.178	7.146	16.849	14.932	1.833	0.420	0.942	1.295	34.387	0.09	0.11	0.04
Air Pollution Control Residues	1.254	0.009	0.952	25.985	5.035	16.557	13.530	0.321	0.915	1.565	1.037	31.642	682	702	327

Signed .....  
(Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Date: 27/01/17



Permit Reference Number: NP3838LV

Operator: Sembcorp Utilities (UK) Limited

Installation: Wilton 10 Power Station

Form Number: Agency Form / NP3838LV / A1 / Form Dated 21st July 2006

Six-monthly Reporting of Emissions to Air for the period from:

1<sup>st</sup> July 2016 to 31<sup>st</sup> December 2016

Emission Point	Substance / Parameter	Emission Limit Value	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Accreditation/ Certification <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A4	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	300 mg/m <sup>3</sup>	135 mg/m <sup>3</sup>	ISO 10849	15/11/16	SIRA MC 040044/00	±15%
A4	Particulate Matter	25 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	BS EN 13284-2	01/07/16	SIRA MC 040041/00	Not stated
A4	Sulphur Dioxide	155 mg/m <sup>3</sup>	37 mg/m <sup>3</sup>	BS 6069-4.4:1993	05/11/16	SIRA MC 040044/00	±15%
A4	Carbon Monoxide	215 mg/m <sup>3</sup>	154 mg/m <sup>3</sup>	ISO 12039	28/11/16	SIRA MC 040044/00	±7.5%
A4	Hydrogen Chloride	25 mg/m <sup>3</sup>	7 mg/m <sup>3</sup>	MCERT Certified Instrument	11/09/16	SIRA MC 040044/00	±15%
A4	Total Organic Carbon (TOC)	No Limit Set	2 mg/m <sup>3</sup>	BS EN 12619:1999	12/12/16	SIRA MC 040046/00	±15%
A4	Ammonia	No Limit Set	2 mg/m <sup>3</sup>	MCERT Certified Instrument	22/12/16	SIRA MC 040044/00	±15%
A4	Cadmium & Thallium and their compounds (total)	0.05 mg/m <sup>3</sup> over minimum 30 minute, maximum 8 hour period	0.002 mg/m <sup>3</sup>	BS EN 14385	12/07/16 11:01 - 11:39	ISO17025 MCERTS	±0.0004mg/m <sup>3</sup>
A4	Mercury and its compounds	0.05 mg/m <sup>3</sup> over minimum 30 minute, maximum 8 hour period	0.0006 mg/m <sup>3</sup>	BS EN 13211	12/07/16 11:01 - 11:39	ISO17025 MCERTS	±0.00007 mg/m <sup>3</sup>
A4	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m <sup>3</sup> over minimum 30 minute, maximum 8 hour period	0.32 mg/m <sup>3</sup>	BS EN 14385	12/07/16 11:01 - 11:39	ISO17025 MCERTS	±0.057 mg/m <sup>3</sup>
A4	Dioxins / furans (I-TEQ)	0.1 ng/m <sup>3</sup> over minimum 6 hour, maximum 8 hour period	0.0039 ng/m <sup>3</sup>	BS EN 1948	13/07/16 08:40 - 14:40	ISO17025 MCERTS	±0.0008 mg/m <sup>3</sup>
A4	Hydrogen Fluoride	2 mg/m <sup>3</sup>	<0.05 mg/m <sup>3</sup>	ISO 15713	13/07/16 12:10 - 13:10	ISO17025 MCERTS	±0.004 mg/m <sup>3</sup>

**Operator Comments:**

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [6] The result to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

Signed .....  
(Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Date.....27/01/17.....

**Operator:** Sembcorp Utilities UK Limited

Form Number: Agency Form / NP3838LV / Ash1 / Form Dated 21<sup>st</sup> July 2006

Quarter 3 2016

Ash Composition (Metals, Dioxins, etc.)																
	Cd %	Ti %	Hg %	Pb %	Cr %	Cu %	Mn %	Ni %	As %	Co %	V %	Zn %	DIOXIN I-TEQ ng/kg	DIOXIN		
														WHO-TEQ ng/kg		
														Humans/ mammals	Birds	Fish
Bottom Ash	0.330	0.016	0.016	15.041	8.008	17.826	15.749	2.753	0.189	1.259	1.463	35.783	0.04	0.05	0.08	0.03
Air Pollution Control Residues	1.048	0.009	1.328	20.728	3.190	18.52	16.509	0.571	0.468	1.805	1.207	33.112	602	622	1360	329

Quarter 4 2016

Ash Composition (Metals, Dioxins, etc.)																
	Cd %	Ti %	Hg %	Pb %	Cr %	Cu %	Mn %	Ni %	As %	Co %	V %	Zn %	DIOXIN I-TEQ ng/kg	DIOXIN		
														WHO-TEQ ng/kg		
														Humans/ mammals	Birds	Fish
Bottom Ash	1.180	0.016	0.016	15.835	4.120	19.583	16.190	2.133	1.050	1.293	1.147	35.838	0.53	0.63	0.87	0.67
Air Pollution Control Residues	1.344	0.009	1.183	19.111	2.957	17.230	17.803	0.403	0.995	1.075	0.941	35.642	616	629	1180	573

Signed D. D. G. L. Date 27/01/17  
(Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Permit Reference Number: NP3838LV

Operator: Sembcorp Utilities (UK) Limited

Installation: Wilton 10 Power Station

Form Number: Sewer1 / 08/12/06

Reporting of Emissions to Sewer for the period from:

1st January 2016 to 31st December 2016

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
S3	Oil and Greases	Non Visible	Weekly spot sample	Non Visible	Visual Inspection	Weekly	N/A

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....  
(Authorised to sign as representative of Sembcorp Utilities (UK) Ltd)

Date.....27/01/17.....