

Permit Reference Number : BU2357/AP3634SJ

Operator : Warwick International Limited

Installation : Mostyn, Flintshire

Form Number : A1 (TAED process)

Annual Reporting of Quarterly Emissions to Air for the period fromto.....

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test method ^[2]	Sample Date ^[3] and Times	Accreditation / Certification ^[4]	Uncertainty ^[5]
A2	Acetic acid	50 mg/m3 ^[6]					
A3	Acetic acid	50 mg/m3 ^[6]					
A5	Acetic acid	50 mg/m3 ^[6]					
A6	Acetic acid	50 mg/m3 ^[6]					
A7	Acetic acid	50 mg/m3 ^[6]					
A20	Acetic acid	50 mg/m3 ^[6]					
A22	Acetic acid	50 mg/m3 ^[6]					
A23	Acetic acid	50 mg/m3 ^[6]					

- [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 emission limit value for acetic acid is expressed as total acetic acid and acetic anhydride (as acetic acid) as a maximum individual value and corrected to 273k, 101.3kPa.

Signed.....
(authorised to sign as representative of Warwick International Limited)

Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : A2 / (Combustion Processes)

Reporting of Emissions to Air for the period fromto.....

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test method ^[2]	Sample Date and Times ^[3]	Accreditation / Certification ^[4]	Uncertainty ^[5]
A16	Oxides of nitrogen	170 mg/m3 ^[6]					
A17	Oxides of nitrogen	170 mg/m3 ^[6]					
A18	Oxides of nitrogen	170 mg/m3 ^[6]					
A19	Oxides of nitrogen	170 mg/m3 ^[6]					
A21	Oxides of nitrogen	170 mg/m3 ^[6]					
A16	Carbon monoxide	70 mg/m3 ^[6]					
A17	Carbon monoxide	70 mg/m3 ^[6]					
A18	Carbon monoxide	70 mg/m3 ^[6]					
A19	Carbon monoxide	70 mg/m3 ^[6]					
A21	Carbon monoxide	70 mg/m3 ^[6]					

- [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 emission limit value for oxides of nitrogen and carbon monoxide are expressed as a maximum individual hourly average value and corrected to 273k, 101.3kPa, 3% oxygen, dry..

Signed.....
(authorised to sign as representative of Warwick International Limited)

Date.....

Permit Reference Number : BU2357/AP3634SJ

Operator : Warwick International Limited

Installation : Mostyn, Flintshire

Form Number : A3 / (Incinerator Periodic Monitoring)

Six Monthly Reporting of Emissions to Air for the period fromto

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A14	Hydrogen chloride	10 mg/m ³ over minimum 1 hour period		BS EN 1911			
A14	Hydrogen fluoride	1 mg/m ³ over minimum 1 hour period		US EPA 26/26A			
A14	Sulphur dioxide	50 mg/m ³ (average of ½-hour averages) over minimum 4 hour period		BS6069-4.1			
A14	Cadmium & thallium and their compounds (total)	0.05 mg/m ³ over minimum 30 minute, maximum 8 hour period		BS EN 14385			
A14	Mercury and its compounds	0.05 mg/m ³ over minimum 30 minute, maximum 8 hour period		BS EN 13211			
A14	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m ³ over minimum 30 minute, maximum 8 hour period		BS EN 14385			
A14	Dioxins / furans (I-TEQ) ⁵	0.1 ng/m ³ over minimum 6 hour, maximum 8 hour period		BS EN 1948			
A14	Dioxin-like PCBs (WHO-TEQ Humans / Mammals) ⁵	No limit applies					
A14	Dioxin-like PCBs (WHO-TEQ Fish) ⁵	No limit applies					
A14	Dioxin-like PCBs (WHO-TEQ Birds) ⁵	No limit applies					
A14	Dioxins / furans (WHO-TEQ Humans / Mammals) ⁵	No limit applies					
A14	Dioxins / furans (WHO-TEQ Fish) ⁵	No limit applies					
A14	Dioxins / furans (WHO-TEQ Birds) ⁵	No limit applies					

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A14	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies					
A14	Anthanthrene	No limit applies					
A14	Benzof[a]anthracene	No limit applies					
A14	Benzof[b]fluoranthene	No limit applies					
A14	Benzof[k]fluoranthene	No limit applies					
A14	Benzof[b]naph[2,1-d]thiophene	No limit applies					
A14	Benzof[c]phenanthrene	No limit applies					
A14	Benzof[ghi]perylene	No limit applies					
A14	Benzof[a]pyrene	No limit applies					
A14	Cholanthrene	No limit applies					
A14	Chrysene	No limit applies					
A14	Cyclopenta[c,d]pyrene	No limit applies					
A14	Dibenzo[a,h]anthracene	No limit applies					
A14	Dibenzo[a,i]pyrene	No limit applies					
A14	Fluoranthene	No limit applies					
A14	Indol[1,2,3-cd]pyrene	No limit applies					
A14	Naphthalene	No limit applies					

[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
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Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

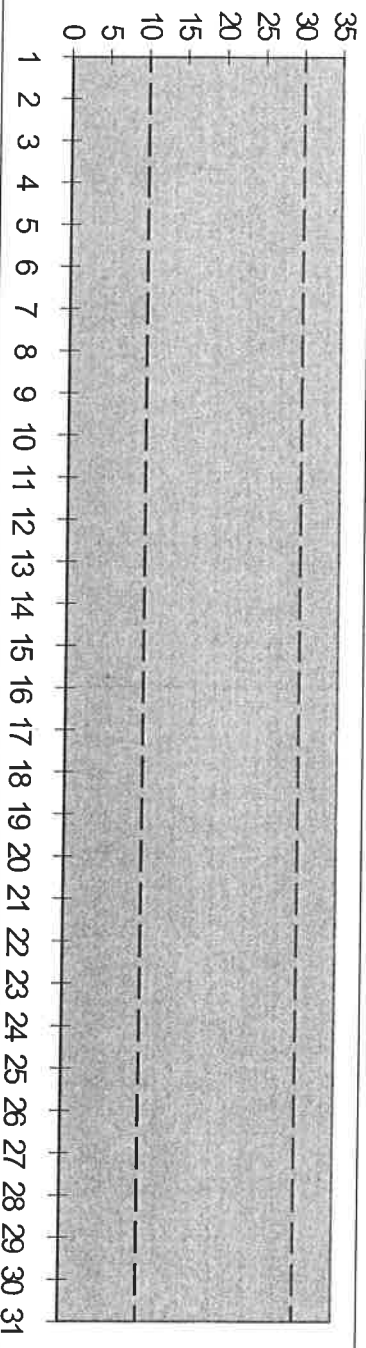
Form Number : A4 / Incinerator CEM Particulates

Reporting of Continuously Monitored Emissions to Air from Emission Point A14 for Particulates for the month of, 20__

Daily and Half-hourly
Average Monitoring

Data

- Daily average ELV
- Half-hour average ELV
- Mean half hourly average
- Maximum half hourly average
- Minimum half hourly average
- Daily Average



	Monthly summary		Date																														
			Half-hour average ELV																														
Half-hourly average	Monthly maximum		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Monthly mean																																
	Monthly minimum																																
	Total invalid results																																
	Sum of exceedances																																
Daily average	Monthly maximum		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	No. of invalid days																																
	Sum of exceedances																																
	Value exceeds ELV (Y/N)																																

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

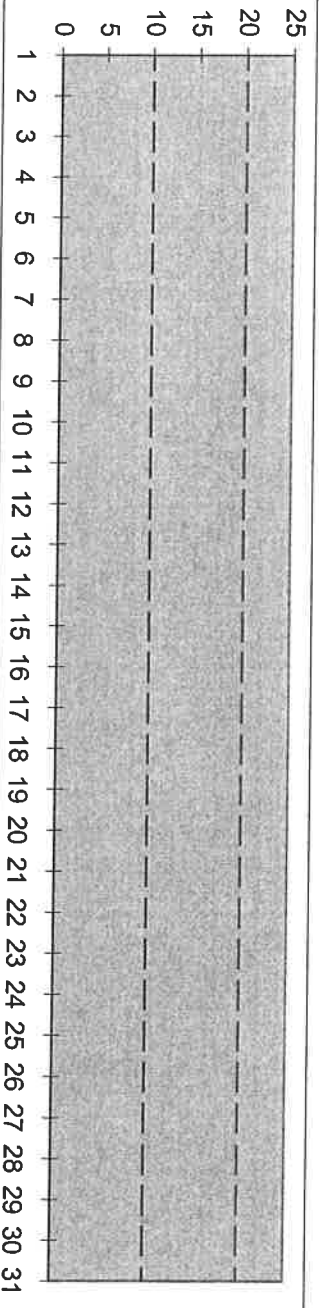
Form Number : A5 / Incinerator CEM TOC

Reporting of Continuously Monitored Emissions to Air from Emission Point A14 for TOC for the month of, 20__

Daily and Half-hourly
Average Monitoring

Data

- Daily average ELV
- Half-Hour average ELV
- Mean half hourly average
- Maximum half hourly average
- Minimum half hourly average
- Daily Average



	Monthly summary																																
	Date																																
Half-hourly average	Monthly maximum	Half-Hour average ELV																															
	Monthly mean	Maximum half hourly average																															
	Monthly minimum	Mean half hourly average																															
	Total invalid results	Minimum half hourly average																															
	Sum of exceedances	No. of invalid results																															
Daily average	Monthly maximum	No. of exceedances of ELV																															
	No. of invalid days	Daily average ELV																															
	Sum of exceedances	Daily Average																															
	Sum of exceedances	Value valid?																															
Sum of exceedances		Value exceeds ELV (Y/N)																															

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : A6 / Incinerator CEM Carbon Monoxide

Reporting of Continuously Monitored Emissions to Air from Emission Point A14 for Carbon Monoxide for the month of, 20__

Daily and Half-hourly
Average Monitoring

Data

--- Daily average ELV

--- Half-Hour average ELV

--- Mean half hourly average

■ Maximum half hourly average

- Minimum half hourly average

--- Daily Average

Monthly summary		Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Half-hourly average	Monthly maximum	Half-Hour average ELV		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Monthly mean	Maximum half hourly average																																
	Monthly minimum	Mean half hourly average																																
	Total invalid results	Minimum half hourly average																																
	Sum of exceedances	No. of invalid results																																
Daily average	Monthly maximum	Daily average ELV		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
	No. of invalid days	Daily Average																																
	Sum of exceedances	Value valid?																																
	Sum of exceedances	Value exceeds ELV (Y/N)																																

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....

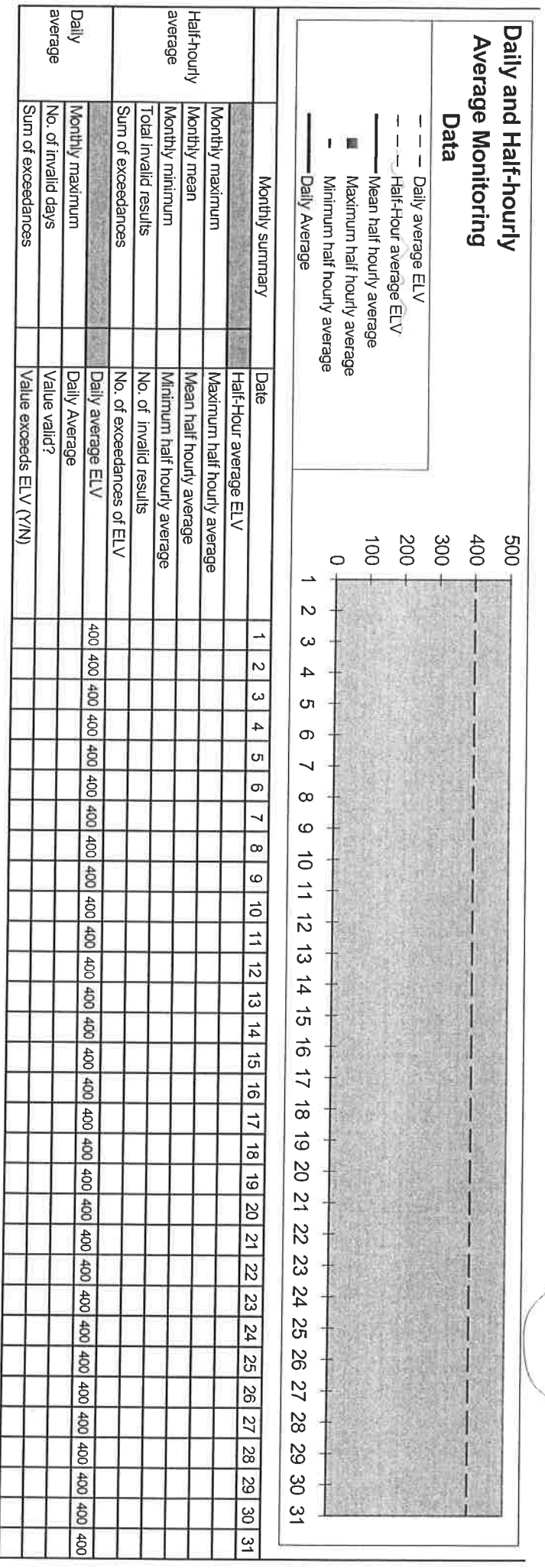
Permit Reference Number : BU2357/AP3634SJ

Operator : Warwick International Limited

Installation : Mostyn, Flintshire

Form Number : A7 / Incinerator CEM Oxides of Nitrogen

Reporting of Continuously Monitored Emissions to Air from Emission Point A14 of Oxides of Nitrogen for the month of, 20__



Signed Date.....
(authorised to sign as representative of Warwick International Limited)

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : A8 / Air Annual Mass

Reporting of Annual Emissions to Air for the year

Emission Point	Substance / Parameter	Annual Limit kg	Actual Release kg
A1-A7, A20, A22, A23	Acetic Acid	15,000	
A14, A16-19, A21	Oxides of nitrogen	40,000	

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....

Permit Reference Number : BU2357/AP3634SJ

Operator : Warwick International Limited

Installation : Mostyn, Flintshire

Form Number : W1 Quarterly Water (other than Sewer) Emissions

Reporting of Emissions to Water (other than Sewer) for the period from.....to.....

Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1] Max	Result ^[1] Mean	Test method ^[2]	Sample Date and Times ^[3]	Accreditation / Certification ^[4]	Uncertainty ^[5]
W1	Chemical oxygen demand	6000 mg/l						
W1	Chemical oxygen demand	10,000 kg/day						
W1	Biological oxygen demand	3000 mg/l						
W1	Suspended Solids	250 mg/l						
W1	Ammoniacal Nitrogen	5 mg/l						
W1	Total hydrocarbon oil	-						
W1	Halogenated organic compounds (total as AOX)	-						
W1	Total cyanides (as HCN)	-						
W1	Copper	-						
W1	Daily discharge volume	4500 m ³						
W1	Tidal period discharge volume	2250 m ³						

W1	Rate of discharge	375 litres/second						
W1	Effluent temperature	35°C (1 st May-31 st October) 25°C (1 st November-30 th April)						
W1	pH	5-9						

- [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. colorimetry.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements or flow/time proportional samples, 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.

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Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : E1 / Annual Energy

Reporting of Energy Usage for the year

Electricity ¹	MWh		
Natural Gas ²	tonnes		
Gas Oil ³	tonnes		
TOTAL			

Note 1: Conversion factor for delivered electricity to primary energy =

Note 2: Conversion factor for m³ natural gas to primary energy =

Note 3: Conversion factor for tonnes gas oil to primary energy =

	Primary Energy usage	CO ₂ produced	CO ₂ per unit output
2005			
2006			
2007			

Operator's comments :

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....

Operator : Warwick International Limited

Form Number : R1 / Annual Waste

.....

[illegible]

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
PUBLISHED WEEKLY
CHICAGO, ILL., MAY 11, 1966
Vol. 196, No. 20

Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : WU1 / Annual Water

Reporting of Water Usage for the year

Mains water			
Mostyn Water			
TOTAL WATER USAGE			

	Mostyn Water	Total Water usage	Water per unit output
2005			
2006			
2007			

Operator's comments :

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : PI1 / Annual Performance

Reporting of Performance Indicators for the period to

Annual Production/Treatment		
Production of TAED		tonnes
Luwa Residue incinerated		tonnes

Environmental Performance Indicators

Parameter	Quarterly Average	Units
Supplementary Fuel Oil		
Mass of other solid residues (fly ash)		
Effluent COD (Maximum 1,200 te)		
Total VOC released		
Potable Water Use		
Waste Hazard Score		
Waste Disposal Score		

Trends in Environmental Performance				
Year	Parameter	COD/tonne	VOC/tonne	Waste Hazard Score
2005	Supplementary Fuel Oil used			
2006				
2007				

Operator's comments :

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : Ash1 / Ash Disposal Change

Reporting of Fly Ash Composition for the period fromto.....

Ash Composition (Metals, Dioxins, etc.)													
	Cd %	Tl %	Hg %	Pb %	Cr %	Cu %	Mn %	Ni %	As %	Co %	V %	Zn %	DIOXIN I-TEQ ng/kg
													DIOXIN WHO-TEQ ng/kg
Fly Ash													

Signed
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Date.....

Permit Reference Number : BU2357/AP3634SJ

Installation : Mostyn, Flintshire

Operator : Warwick International Limited

Form Number : Ash2 / Ash Disposal Change

Reporting of Fly Ash Solubility for the period fromto.....

Ash solubility (Metals)												
	Cd mg/kg	Tl mg/kg	Hg mg/kg	Pb mg/kg	Cr mg/kg	Cu mg/kg	Mn mg/kg	Ni mg/kg	As mg/kg	Co mg/kg	V mg/kg	Zn mg/kg
Fly Ash												

Signed
(authorised to sign as representative of Warwick International Limited)

Date.....