RECEIVED
13 OCT 2014

EASTMAN
Cefn Mawr

13th October 2014

Ian Oakes
Natural Resources Wales
Chester Road
Buckley
Flintshire
CH7 3AJ

Dear Ian,

Re: **Permit No: EPR/NP3335GR**
Reporting of Monitoring Data

Please find enclosed the Monitoring Data Report for the period 01/07/2014 to 30/09//2014.

Yours sincerely,

P Armitage

P.Armitage
WTP Production Engineer

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED Vs AUTHORISATION		15.10.14
FRACKING	JB	15.10.14
OK FOR PUBLIC REGISTER		15.10
	JB	EDRM

Permit Number: EPR/NP3335GR **Operator: Solutia UK Limited**

Facility: Ruabon Chemical Works **Form Number: Water 1**

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water								
Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [4]
Pontcysyllte Adit (Note1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	2.41	TOC Analysis using Hach Lange Tubes	03/09/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.01	HPLC with Electrochemical Detector	09/07/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,4 Dimethylphenol		Quarterly	0				
	2,6 Dimethylphenol		Quarterly	0				
	Aniline		Quarterly	0				
	Benzothiazole		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	0				
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl Benzothiazole		Quarterly	0				
	O-Cresol		Quarterly	0				
	O-phenetidine		Quarterly	0				
	P-Cresol		Quarterly	0				
	Phenylisocyanate		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

Note 1: This is an off-site environmental monitoring condition

[1] The result is maximum value (or the minimum value in the case of a limit 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 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 monitoring is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis basis as stated

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(authorised to sign as representative of the Operator)

Permit Number: EPR/NP3335GR **Operator: Solutia UK Limited**

Facility: Ruabon Chemical Works **Form Number: Water 1**

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water								
Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [4]
Trefynant Brook (Note1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	4.95	TOC Analysis using Hach Lange Tubes	13/08/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.01	HPLC with Electrochemical Detector	02/07/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	**No Limit**			**Solvent Extraction with analysis by GCMS**			**See repeatability data for micropollutants**
	2,4-Dimethylphenol		Quarterly	0				
	2,6-Dimethylphenol		Quarterly	0				
	Aniline		Quarterly	0				
	Benzothiazole		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	0				
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl Benzothiazole		Quarterly	0				
	O-Cresol		Quarterly	0				
	O-phenetidine		Quarterly	0				
	P-Cresol		Quarterly	0				
	Phenylisocyanate		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

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Facility: Ruabon Chemical Works **Form Number:** Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water

Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]		Uncertainty [4]
Factory Borehole Middle (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	10.4	TOC Analysis using Hach Lange Tubes	16/07/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.02	HPLC with Electrochemical Detector	16/07/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	**No Limit**			**Solvent Extraction with analysis by GCMS**			**See repeatability data for micropollutants**
	2,6 Dimethylphenol		Quarterly	0				
	4-Acetylmorpholine		Quarterly	0				
	Aniline		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	3234		20/08/2014	11:00:00	
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Ethoxybenzene		Quarterly	1.3		20/08/2014	11:00:00	
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	O-phenetidine		Quarterly	38.7		17/09/2014	11:00:00	
	Phenyl Salicylate		Quarterly	0				
	Phthalimide		Quarterly	0				
	P-Phenetidine		Quarterly	2.3		17/09/2014	11:00:00	
	Tetrachloroethylene		Quarterly	0				
	2,4,6 Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

Note 1: This is an off-site environmental monitoring condition

[1] The result is maximum value (or the minimum value in the case of a limit 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 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.

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Facility: Ruabon Chemical Works **Form Number: Water 1**

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water

Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [4]
Factory Borehole South (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	6.45	TOC Analysis using Hach Lange Tubes	17/09/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.04	HPLC with Electrochemical Detector	17/09/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,6 Dimethylphenol		Quarterly	0				
	4-Acetylmorpholine		Quarterly	0				
	Aniline		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	2037		17/09/2014	11:00:00	
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Ethoxybenzene		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	O-phenetidine		Quarterly	3.7		17/09/2014	11:00:00	
	Phenyl Salicylate		Quarterly	0				
	Phthalimide		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

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Facility: Ruabon Chemical Works **Form Number: Water 1**

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water								
Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]		Uncertainty [4]
Brook Culvert Sump (Note1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	15.2	TOC Analysis using Hach Lange Tubes	02/07/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.02	HPLC with Electrochemical Detector	13/08/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,4-Dimethylphenol		Quarterly	0				
	2,6-Dimethylphenol		Quarterly	0				
	Aniline		Quarterly	0				
	Benzothiazole		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	1094		13/08/2014	11:00:00	
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	2.7		13/08/2014	11:00:00	
	Methyl Benzothiazole		Quarterly	0				
	O-Cresol		Quarterly	0				
	O-phenetidine		Quarterly	0				
	P-Cresol		Quarterly	0				
	Phenylisocyanate		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

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Facility: Ruabon Chemical Works **Form Number:** Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water

Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [4]
Road Culvert Sump (Note1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	5.35	TOC Analysis using Hach Lange Tubes	10/09/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.01	HPLC with Electrochemical Detector	02/07/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,4-Dimethylphenol		Quarterly	0				
	2,4,6-Dimethylphenol		Quarterly	0				
	Aniline		Quarterly	0				
	Benzothiazole		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	0				
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl Benzothiazole		Quarterly	0				
	O-Cresol		Quarterly	0				
	O-phenetidine		Quarterly	0				
	P-Cresol		Quarterly	0				
	Phenylisocyanate		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

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[2] Where an internationally recognised standard test method is used the reference number is given. Where another method 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 monitoring is given.

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Facility: Ruabon Chemical Works **Form Number: Water 1**

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water								
Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [5]
Rhosymedre Quarry Leachate (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	74.8	TOC Analysis using Hach Lange Tubes	09/07/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.06	HPLC with Electrochemical Detector	03/09/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,6-Dimethylphenol		Quarterly	0				
	4-Acetylmorpholine		Quarterly	4.6		06/08/2014	11:00:00	
	Aniline		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	875		03/09/2014	11:00:00	
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Dimorpholinyl Ketone		Quarterly	0				
	Ethoxybenzene		Quarterly	7.2		09/07/2014	11:00:00	
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	2.3		06/08/2014	11:00:00	
	Methyl Benzothiazole		Quarterly	0				
	O-phenetidine		Quarterly	9.7		09/07/2014	11:00:00	
	Phenyl Salicylate		Quarterly	0				
	Phthalimide		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 -Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

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[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 monitoring is given.

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Permit Number: EPR/NP3335GR **Operator:** Solutia UK Limited

Facility: Ruabon Chemical Works **Form Number:** Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water

Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [4]
Rhosymedre Quarry b/h B3 (Note 1)	Total Organic Carbon (TOC) mg/l	No Limit	Quarterly	38	TOC Analysis using Hach Lange Tubes	03/09/2014	11:00:00	
	Total Phenol (mg/l)	No Limit	Quarterly	0.03	HPLC with Electrochemical Detector	06/08/2014	11:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,6-Dimethylphenol		Quarterly	0				
	4-Acetylmorpholine		Quarterly	0				
	Aniline		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	16		09/07/2014	11:00:00	
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Dimorpholinyl Ketone		Quarterly	0				
	Ethoxybenzene		Quarterly	3		09/07/2014	11:00:00	
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl Benzothiazole		Quarterly	0				
	O-phenetidine		Quarterly	0				
	Phenyl Salicylate		Quarterly	0				
	Phthalimide		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 -Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

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Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water								
Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]		Uncertainty [4]
River Dee Upstream (Note 1)	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	Aniline		Quarterly	0				
	Benzothiazole		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Dimorpholinyl Ketone		Quarterly	0				
	Ethoxybenzene		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl BTH Sulphone		Quarterly	0				
	Methyl Sulphyl BTH		Quarterly	0				
	Methyl-4-morpholinocarbodithioate		Quarterly	0				
	O-Cresol		Quarterly	0				
	P-Cresol		Quarterly	0				
	Phenylisothiocyanate		Quarterly	0				
	Phthalimide		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 -Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

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[1] The result is maximum value (or the minimum value in the case of a limit 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

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[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 monitoring 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. The following uncertainties are quoted on a different basis (basis as stated).

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Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water

Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]		Uncertainty [4]
River Dee Downstream (Note1)	Micro Pollutants (ppb)	No Limit			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	Aniline		Quarterly	0				
	Benzothiazole		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Dimorpholinyl Ketone		Quarterly	0				
	Ethoxybenzene		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl BTH Sulphone		Quarterly	0				
	Methyl Sulphyl BTH		Quarterly	0				
	Methyl-4-morpholinocarbodithioate		Quarterly	0				
	O-Cresol		Quarterly	0				
	P-Cresol		Quarterly	0				
	Phenylisothiocyanate		Quarterly	0				
	Phthalimide		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 -Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

Note 1: This is an off-site environmental monitoring condition

[1] The result is maximum value (or the minimum value in the case of a limit 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 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 monitoring is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

Signed: _____

(authorised to sign as representative of the Operator)

Date: 13/10/2014

Permit Number: EPR/NP3335GR **Operator:** Solutia L imited

Facility: Ruabon Chemical Works **Form Number:** Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water								
Emission Point	Substance/ Parameter	Emission Limit Value	Reporting Period	Result [1]	Test Method [2]	Sample Date and Times [3]		Uncertainty [4]
Ground Water Carbon Filter (Brook & Road Culvert)	Total Phenol (mg/l)	0.2	Quarterly	0.01	HPLC with Electrochemical Detector	07/07/2014	09:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Total Iron (mg/l)	No Limit Set [5]	Quarterly	3.1	SCA Blue Book Method	14/07/2014	09:00:00	
	Micro Pollutants (ppb)	Note 1			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,6-Dimethylphenol		Quarterly	0				
	4-Acetylmorpholine		Quarterly	0				
	Aniline		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	0				
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Dimorpholinyl Ketone		Quarterly	0				
	Ethoxybenzene		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl Benzothiazole		Quarterly	0				
	O-phenetidine		Quarterly	0				
	Phenyl Salicylate		Quarterly	0				
	Phthalimide		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 -Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

Note 1: Two consecutive weekly or resample results not to exceed :Hydroxybenzothiazole = 20 ppb. Flectol A = 2ppb, others = 2ppb

[1] The result is maximum value (or the minimum value in the case of a limit 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 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 monitoring is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

[5] No limit set - an objective level of 25 mg/l set to monitor effectiveness of carbon filters & detect Fe breakthrough from the outlet of the filters [October 2012]

Signed: _____ **Date:** 13/10/2014

(authorised to sign as representative of the Operator)

Permit Number: EPR/NP3335GR **Operator:** Solutia UK Limited

Facility: Ruabon Chemical Works **Form Number:** Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water

Emission Point	Substance/ Parameter	Emission Limit Value	Reporting Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [4]
Ground Water Carbon Filter (Middle Borehole)	Total Phenol (mg/l)	0.2	Quarterly	0.01	HPLC with Electrochemical Detector	07/07/2014	09:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Total Iron (mg/l)	No Limit Set [5]	Quarterly	20.75	SCA Blue Book Method	29/09/2014	09:00:00	
	Micro Pollutants (ppb)	Note 1			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,6-Dimethylphenol		Quarterly	0				
	4-Acetylmorpholine		Quarterly	0				
	Aniline		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	0				
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Dimorpholinyl Ketone		Quarterly	0				
	Ethoxybenzene		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl Benzothiazole		Quarterly	0				
	O-phenetidine		Quarterly	0				
	Phenyl Salicylate		Quarterly	0				
	Phthalimide		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 -Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

Note 1: Two consecutive weekly or resample results not to exceed :Hydroxybenzothiazole = 20 ppb, Flectol A = 2ppb, others = 2ppb

[1] The result is maximum value (or the minimum value in the case of a limit 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 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 monitoring is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

[5] No limit set - an objective level of 25 mg/l set to monitor effectiveness of carbon filters & detect Fe breakthrough from the outlet of the filters [October 2012]

Signed: _____ **Date:** 13/10/2014

(authorised to sign as representative of the operator)

Permit Number: EPR/NP3335GR **Operator:** Solut[illegible]K Limited

Facility: Ruabon Chemical Works **Form Number:** Water 1

Reporting of Emissions to Water (other than to Sewer) for the period from 01/07/2014 to 30/09/2014

Emissions to Water								
Emission Point	Substance/ Parameter	Emission Limit Value	Reporting Period	Result [1]	Test Method[2]	Sample Date and Times[3]		Uncertainty [4]
Ground Water Carbon Filter (South Borehole)	Total Phenol (mg/l)	0.2	Quarterly	0.01	HPLC with Electrochemical Detector	07/07/2014	09:00:00	Method uncertainty is ± 0.007 mg/l at 0.06 mg/l
	Total Iron (mg/l)	No Limit Set [5]	Quarterly	7	SCA Blue Book House	01/09/2014	09:00:00	
	Micro Pollutants (ppb)	Note 1			Solvent Extraction with analysis by GCMS			See repeatability data for micropollutants
	2,6-Dimethylphenol		Quarterly	0				
	4-Acetylmorpholine		Quarterly	0				
	Aniline		Quarterly	0				
	Hydroxybenzothiazole		Quarterly	0				
	2,4-Dichloroaniline		Quarterly	0				
	2,4-Dichlorophenol		Quarterly	0				
	Dimorpholinyl Ketone		Quarterly	0				
	Ethoxybenzene		Quarterly	0				
	4-Ethylmorpholine		Quarterly	0				
	Flectol A		Quarterly	0				
	Methyl Benzothiazole		Quarterly	0				
	O-phenetidine		Quarterly	0				
	Phenyl Salicylate		Quarterly	0				
	Phthalimide		Quarterly	0				
	P-Phenetidine		Quarterly	0				
	Sulphur (Mol)		Quarterly	0				
	Tetrachloroethylene		Quarterly	0				
	2,4,6 -Trichlorophenol		Quarterly	0				
	Toluene		Quarterly	0				
	Xylene		Quarterly	0				

Note 1: Two consecutive weekly or resample results not to exceed :Hydroxybenzothiazole = 20 ppb, Flectol A = 2ppb, others = 2ppb

[1[The result is maximum value (or the minimum value in the case of a limit 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 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 monitoring is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

[5[No limit set - an objective level of 25 mg/l set to monitor effectiveness of carbon filters & detect Fe breakthrough from the outlet of the filters [October 2012]

Signed: _____ **Date:** 13/10/2014

(authorised to sign as representative of the Operator)