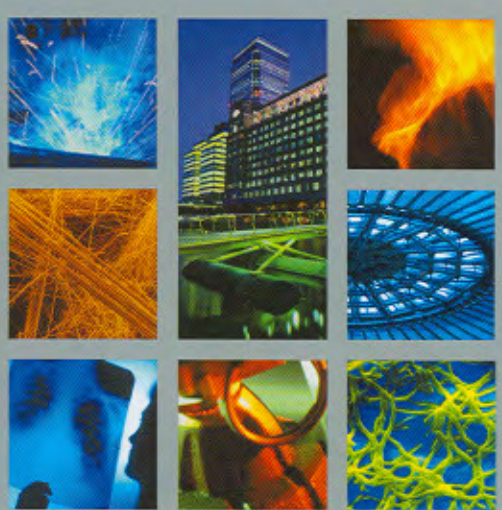
RPS

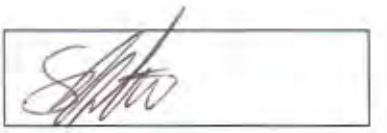
REPORT FOR PERIODIC MONITORING OF STACK EMISSIONS TO ATMOSPHERE

VIP POLYMERS, HUNTINGDON.

SEPTEMBER 2005



Report for Periodic Monitoring of Emissions to Atmosphere	
Part 1:	**Executive Summary**
Operator:	**VIP Polymers**
Installation:	**VIP Polymers, Huntingdon, Peterborough**
Emission Point:	**Stack serving: Press18/19, Sacomat Press 5, Morans, Press 6-7-8, MIR1, MIR5, MIR 6-4-2.**
Monitoring Date(s):	**28th September 2005**

Contract Reference:	FYS3868
Operator Address:	VIP Polymers 15 Windover Drive Huntingdon PE29 7ED
Monitoring Organisation:	RPS Health, Safety & Environment
Address:	Unit A1, Lowfields Business Park, Old Power Way, Elland, HX5 9DE
Report Date:	18th October 2005
Report Approved By:	Scott Pilkington
Position:	Environmental Consultant
Signature:	

CONTENTS

Monitoring Objectives

At the request of Mr Abbas Shakeri of Airtech, RPS Health, Safety and Environment conducted stack emission monitoring at Vip Polymers,Huntington site, Cambridge in September 2005.

The monitoring programme at this installation was carried out to provide data on emissions to atmosphere

The parameters requested for monitoring at each emission point and the actual monitoring conducted are detailed below.

Table 1.1

Parameters Requested to be Monitored	**Emission Point 1**
	Press 18/19
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	√
Specific Requirements	Normal Operating Conditions

Table 1.2

Parameters Requested to be Monitored	**Emission Point 2**
	Sacomats Press 5
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	√
Specific Requirements	Normal Operating Conditions

Notes:

√ *Represents the actual parameters monitored*

X *Required but not tested as requested by Airtech representative*

Table 1.3

Parameters Requested to be Monitored	Emission Point
	Morons
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	*X*
Specific Requirements	Normal Operating Conditions

Table 1.4

Parameters Requested to be Monitored	Emission Point
	Press 6, 7, 8.
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	*X*
Specific Requirements	Normal Operating Conditions

Table 1.5

Parameters Requested to be Monitored	Emission Point
	Stack ID 43
	MIR 1.
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	*X*
Specific Requirements	Normal Operating Conditions

Notes:

√ *Represents the actual parameters monitored*

X *Required but not tested as requested by Airtech representative*

Table 1.6

Parameters Requested to be Monitored	Emission Point
	MIR 6, 4, 2.
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	*X*
Specific Requirements	Normal Operating Conditions

Table 1.7

Parameters Requested to be Monitored	Emission Point
	Stack ID 24
	MIR 5.
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	*X*
Specific Requirements	Normal Operating Conditions

Table 1.8

Parameters Requested to be Monitored	Emission Point
	Stack ID 44
	Granulator
Total Particulate Matter	√
Volatile Organic Compounds (as total organic carbon)	*X*
Specific Requirements	Normal Operating Conditions

Notes:

√ *Represents the actual parameters monitored*

X *Required but not tested as requested by Airtech representative*

Monitoring Results

Table 2.1 – Monitoring Results from the Stack Serving Press 18/19

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	<0.06	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	9:22-9:56	BS ISO 9096:2003	Normal
		<2	g/hr						
High Concentration TOC (as total organic carbon)	50	0.75	mg/m^3	9.5	Dry, no O2 correction.	10/09/2005	9: 25-9:40	BS EN 13526:2002	Normal
		55.8	g/hr						

Table 2.2 – Monitoring Results from the Stack Serving Sacomat Press 5

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	<19.6	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	10:45-11:17	BS ISO 9096:2003	Normal
		<7	g/hr						
High Concentration TOC (as total organic carbon)	50	<0.74	mg/m^3	9.6	Dry, no O2 correction.	10/09/2005	9:56 – 10:25	BS EN 13526:2002	Normal
		<2.7	g/hr						

Notes:
 # The uncertainty associated with the quoted result is at the 95% confidence interval

Table 2.3 – Monitoring Results from the Stack Serving Marons

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	<1.2	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	12:01-12:37	BS ISO 9096:2003	Normal
		<0.1	g/hr						

Table 2.4 – Monitoring Results from the Stack Serving Press 6,7,8

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	<0.7	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	13:55-14:32	BS ISO 9096:2003	Normal
		<1	g/hr						

Notes:
 # The uncertainty associated with the quoted result is at the 95% confidence interval

Table 2.5 – Monitoring Results from the Stack 43 Serving MIR1

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	11.3	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	14:58-15:32	BS ISO 9096:2003	Normal
		4	g/hr						

Table 2.6 – Monitoring Results from the Stack Serving MIR 6, 4, 2.

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	5.9	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	15:45-16:17	BS ISO 9096:2003	Normal
		2	g/hr						

Notes:
 # The uncertainty associated with the quoted result is at the 95% confidence interval

Table 2.7 – Monitoring Results from the Stack 24 Serving MIR 5

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	18.7	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	16:53-17:24	BS ISO 9096:2003	Normal
		6	g/hr						

Table 2.8 – Monitoring Results from the Stack 44 Serving Granulator

Substance Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Uncertainty (%) #	Reference Conditions 273K, 101.3kPa	Sampling Date	Sampling Times	Monitoring Reference Method	Operating Status
Total Particulate Matter	50	41.4	mg/m^3	10.9	Dry, no O2 correction.	10/09/2005	18:12-18:42	BS ISO 9096:2003	Normal
		22	g/hr						

Notes:
 # The uncertainty associated with the quoted result is at the 95% confidence interval

APPENDIX 1: General Information

Monitoring Organisation Method Details

Table 3

Emission Parameter	Standard Method	Monitoring Procedure No.	Analysis	Analysis Procedure No.	Analytical Laboratory
Practical Considerations Prior to Monitoring	N/A	RPSCE/1/1	N/A	N/A	N/A
Gas Flows	BS-EN 13284-1:2001	RPSCE/1/2	N/A	N/A	N/A
Gas Temperatures	BS-EN 13284-1:2001	RPSCE/1/2	N/A	N/A	N/A
High Concentration TOC (as total organic carbon)	BS EN 13526:2002	RPSCE/1/4c	FID	N/A	N/A
High Concentration Total Particulate Matter	BS ISO 9096:2003	RPSCE/1/7d	Gravimetric	D9	RPS Laboratories, Manchester

Table 4 – Checklist Used

Equipment Checklist Used	File Location Address
FYS3868	FYS3868 work file

APPENDIX 2: Raw Sampling Data, Analysis Data & Uncertainty

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: Press18/19
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Diameter (m)	0.5
Stack Area (m2):	0.20

Stack Static press.mm H_2O: 0.2

Traverse Point No.	Port A			Port B		
	M/s	Root Δ p	Stack Temp °C	M/s	Root Δ p	Stack Temp °C
1	14.2	3.768	28.8	13.9	3.728	28.9
2	16.2	4.025	28.9	7.8	2.793	28.8
Minimum	14.2	0.000	28.8	7.8	0.000	28.8
Maximum	16.2	4.025	28.9	13.9	3.728	28.9
Mean	**15.2**	**0.779**	**28.9**	**10.9**	**0.652**	**28.9**
Sum	30.4	7.793	57.7	21.7	6.521	57.7
Total Sum				52.1	14.314	115.4

Max. pitot press. =	16.2
Min. pitot press. =	7.8
Ratio Max:Min =	2.1 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > $5m^2$?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymers
Site Name:Hurdrington
Sampling Point Ref: Press18/19
Date: 25/09/2005
Run: 1
Job / Report Reference:FYS3868

In-stack Filter?	N	Bar. Press.mm Hg	101.3	K Factor	1.99	Ambient Temp	21	Leak Rate (l/m / %)	<2%
Outstack Filter?	Y	Cp	0.996	Dn used	6.5	Start Time	09:22	Leak Rate (start / %)	<2%
Operators	SRP	Bws%	2	Nozzle No	6.5	Stop Time	09:56	Box/Probe setting	N/A

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	7262	RPS	0.04
Probe Washings	11	RPS	0.5

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	Blank	RPS	0.04

Sample Point	Clock Time mm	Pitot Δ p, mm H_2O	Stack Temp, °C	Orifice Δ H, mm H_2O		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp, °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum inches Hg	Impinger Stem Temp °C	Root Δ p
				Desired	Actual								
A	0	14.2	28	28.258	28	3440761		N/A	N/A	N/A	N/A	N/A	3.768
	4	14.2	29	28.258	28			N/A	N/A	N/A	N/A	N/A	3.768
	8	6.2	28	12.338	12			N/A	N/A	N/A	N/A	N/A	2.460
	12	6.2	29	12.338	12			N/A	N/A	N/A	N/A	N/A	2.460
Endpoint	16												
B	0	13.9	28	27.661	28			N/A	N/A	N/A	N/A	N/A	3.728
	4	13.9	28	27.661	28			N/A	N/A	N/A	N/A	N/A	3.728
	8	7.8	29	15.522	15			N/A	N/A	N/A	N/A	N/A	2.793
	12	7.8	29	15.522	15			N/A	N/A	N/A	N/A	N/A	2.793
Endpoint	16					3446162		N/A	N/A	N/A	N/A	N/A	
	32.00	10.525	28.5	20.9	20.8	7.401	25.0	N/A	N/A	N/A	N/A	N/A	3.129

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: Press18/19	Run: 1
Meter Volume Sampled, acm	7.401
Sample Run Start Time	9:22
Sample Run End Time	9:56
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	28.5
Meter Volume at STP, scm	0.917
Stack Moisture Content, %	2.0
Average Stack Velocity, m/sec	35.128
Stack Flow Rate, acms	6.897
Stack Flow Rate, scms dry,STP	0.815
Nozzle Diameter, mm	6.50
% Isokinetic Variation	**101.2**
Mass of Particulate Collected on Filter, mg	0.0
Mass of Particulate collected in Probe, mg	0.5
Total Mass of Particulate, mg	0.5
Percentage of Total Particulate Collected on Filter	7.4
Stack Particulate Concentration, mg/m^3	**<0.6**
Particulate Mass rate, kg/hour	<0.002
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: Sacomat Press 5
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Diameter (m)	0.3
Stack Area (m2):	0.07

Stack Static press.mm H_2O: 0.2

Traverse Point No.	Port A			Port B		
	M/s	Root Δ p	Stack Temp °C	M/s	Root Δ p	Stack Temp °C
1	13	3.606	28.8	11.9	3.450	28.9
2	11.2	3.347	28.9	12.1	3.479	28.8
Minimum	11.2	0.000	28.8	11.9	0.000	28.8
Maximum	13.0	3.606	28.9	12.1	3.479	28.9
Mean	**12.1**	**0.695**	**28.9**	**12.0**	**0.693**	**28.9**
Sum	24.2	6.952	57.7	24	6.928	57.7
Total Sum				48.2	13.880	115.4

Max. pitot press. =	13.0
Min. pitot press. =	11.2
Ratio Max:Min =	1.2 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > 5m²?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymeres
Site Name Huntingdon
Sampling Point Ref: Sacomal Press 5
Date: 25/09/2005
Run: 1
Job / Report Reference FYS3888

In-stack Filter?	Y	Bar. Press mm Hg	101.3	K Factor	1.99	Ambient Temp.	21
Outstack Filter?	N	Cp	0.996	Dn used	6.5	Start Time	10.43
Operators	SRP	Bws%	2	Nozzle No.	6.5	Stop Time	11.15

Leak Rate (fin / %)	<2%
Leak Rate (start / %)	<2%
Box/Probe setting	N/A

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	7264	RPS	0.04
Probe Washings	12	RPS	1.5

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	blank	RPS	0.5

Sample Point	Clock Time min	Pitot Δ p. M/s	Stack Temp, °C	Orifice Δ H, m/s		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp. °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum Inches Hg	Impinger Stem Temp °C	Root Δ p.
				Desired	Actual								
1	0	12	28	23.88	24	3455210	25	N/A	N/A	N/A	N/A	N/A	3.464
	8	12	29	23.88	24		25	N/A	N/A	N/A	N/A	N/A	3.464
2	16	12	28	23.88	24		25	N/A	N/A	N/A	N/A	N/A	3.464
	24	12	29	23.88	24	3461552	25	N/A	N/A	N/A	N/A	N/A	3.464
Endpoint	32		29			3461552	25	N/A	N/A	N/A	N/A	N/A	
	32.00	12.00	28.50	23.88	24.00	0.6	25.0	N/A	N/A	N/A	N/A	N/A	3.464

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: Sacomat Press 5	Run: 1
Meter Volume Sampled, acm	0.634
Sample Run Start Time	10:43
Sample Run End Time	11:15
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	29.0
Meter Volume at STP, scm	0.079
Stack Moisture Content, %	0.0
Average Stack Velocity, m/sec	12.000
Stack Flow Rate, scms dry,STP	0.102
Nozzle Diameter, mm	6.50
% Isokinetic Variation	**100.5**
Mass of Particulate Collected on Filter, mg	0.0
Mass of Particulate collected in Probe, mg	1.5
Total Mass of Particulate, mg	1.5
Percentage of Total Particulate Collected on Filter	2.6
Stack Particulate Concentration, mg/m^3	**<19.6**
Particulate Mass rate, kg/hour	<0.007
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: Morans	Run: 1
Meter Volume Sampled, acm	10.689
Sample Run Start Time	10:43
Sample Run End Time	11:15
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	29.0
Meter Volume at STP, scm	1.324
Meter Volume at Wet STP, scm	1.324
Stack Moisture Content, %	0.0
Average Stack Velocity, m/sec	11.125
Stack Flow Rate, acms	0.786
Stack Flow Rate, scms dry,STP	0.095
Nozzle Diameter, mm	6.50
% Isokinetic Variation	**99.7**
Mass of Particulate Collected on Filter, mg	0.0
Mass of Particulate collected in Probe, mg	1.5
Total Mass of Particulate, mg	1.5
Percentage of Total Particulate Collected on Filter	2.6
Stack Particulate Concentration, mg/m^3	**<1.2**
Particulate Mass rate, kg/hour	0.000
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: Morans
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Static press.mm H_2O:	0.2	Stack Diameter (m)	0.3
		Stack Area (m2):	0.07

Traverse Point No.	Port A			Port B		
	M/s	Root Δ p	Stack Temp °C	M/s	Root Δ p	Stack Temp °C
1	13	3.606	28.8	11.9	3.450	28.9
2	11.2	3.347	28.9	12.1	3.479	28.8
Minimum	11.2	0.000	28.8	11.9	0.000	28.8
Maximum	13.0	3.606	28.9	12.1	3.479	28.9
Mean	**12.1**	**0.695**	**28.9**	**12.0**	**0.693**	**28.9**
Sum	24.2	6.952	57.7	24	6.928	57.7
Total Sum				48.2	13.880	115.4

Max. pitot press. =	13.0
Min. pitot press. =	11.2
Ratio Max:Min =	1.2 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > 5m²?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymeres
Site Name Huntingdon
Sampling Point Ref: Marans
Date: 25/09/2005
Run: 1
Job / Report Reference:FYS3860

In-stack Filter?	Y	Bar. Press mm Hg	101.3	K Factor	1.99	Ambient Temp.	21	Leak Rate (fin / %)	<2%
Outstack Filter?	N	Cp	0.996	Dn used	6.5	Start Time	10:43	Leak Rate (start / %)	<2%
Operators	SRP	Bws%	2	Nozzle No.	6.5	Stop Time	11:15	Box/Probe setting	N/A

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	7265	RPS	0.04
Probe Washings	12	RPS	1.5

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	blank	RPS	0.5

Sample Point	Clock Time min	Pitot Δp, mm H_2O	Stack Temp. °C	Orifice ΔH, mm H_2O		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp. °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum Inches Hg	Impinger Stem Temp. °C	Root Δp
				Desired	Actual								
A	0	11.9	28	23.681	23.8	3461552	25	N/A	N/A	N/A	N/A	N/A	3.450
	8	8.2	28	16.318	16		25	N/A	N/A	N/A	N/A	N/A	2.864
B	16	14.1	28	28.059	28		25	N/A	N/A	N/A	N/A	N/A	3.755
	24	10.3	28	20.497	20.5		25	N/A	N/A	N/A	N/A	N/A	3.209
Endpoint	32		28			3482930	25	N/A	N/A	N/A	N/A	N/A	
	32.00	11.13	28.00	22.14	22.08	10.7	25.0	25.0	25.0	25.0	25.0	25.0	

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: Press 6, 7, 8
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Diameter (m)	0.7
Stack Area (m2):	0.38

Stack Static press.mm H_2O: 0.2

Traverse Point No.	Port A			Port B		
	M/s	Root Δ p	Stack Temp °C	M/s	Root Δ p	Stack Temp °C
1	11.1	3.332	30	12.3	3.507	30
2	10.7	3.271	30	11.2	3.347	30
Minimum	10.7	0.000	30	11.2	0.000	30
Maximum	11.1	3.332	30	12.3	3.507	30
Mean	**10.9**	**0.660**	**30.0**	**11.8**	**0.685**	**30.0**
Sum	21.8	6.603	60	23.5	6.854	60
Total Sum				45.3	13.457	120

Max. pitot press. =	12.3
Min. pitot press. =	10.7
Ratio Max:Min =	1.1 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > 5m²?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymeres
Site Name: Huntingdon
Sampling Point Ref: Press 6, 7, 8
Date: 25/09/2005
Run: 1
Job / Report Reference: FYS3868

In-stack Filter?	Y	Bar. Press mm Hg	101.3	K Factor	1.99
Outstack Filter?	N	Cp	0.996	Dn used	6.5
Operators	SRP	Bws%	2	Nozzle No.	6.5

Ambient Temp.	21	Leak Rate (fin / %)	<2%
Start Time	13:55	Leak Rate (start / %)	<2%
Stop Time	14:32	Box/Probe setting	N/A

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	7266	RPS	0.04
Probe Washings	T4	RPS	0.5

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	blank	RPS	0.5

Sample Point	Clock Time min	Pitot Δ p, mm H_2O	Stack Temp. °C	Orifice Δ H, mm H_2O		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp. °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum Inches Hg	Impinger Stem Temp °C	Root Δ p,
				Desired	Actual								
1	0	11.1	29	22.009	23.8	3482936	25	N/A	N/A	N/A	N/A	N/A	3.332
	8	10.7	30	21.293	16		25	N/A	N/A	N/A	N/A	N/A	3.271
2	16	12.3	30	24.477	28		25	N/A	N/A	N/A	N/A	N/A	3.507
	24	11.2	30	22.288	20.5		25	N/A	N/A	N/A	N/A	N/A	3.347
Endpoint	32					3489340	25	N/A	N/A	N/A	N/A	N/A	
	32.00	11.33	29.75	22.54	22.08	6.4	25.0	N/A	N/A	N/A	N/A	N/A	3.364

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: Press 6, 7, 8	Run: 1
Meter Volume Sampled, acm	6.404
Sample Run Start Time	13:55
Sample Run End Time	14:32
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	29.0
Meter Volume at STP, scm	0.794
Stack Moisture Content, %	2.2
Average Stack Velocity, m/sec	11.325
Stack Flow Rate, acms	4.358
Stack Flow Rate, scms dry,STP	0.513
Nozzle Diameter, mm	6.50
% Isokinetic Variation	**98.0**
Mass of Particulate Collected on Filter, mg	0.0
Mass of Particulate collected in Probe, mg	0.5
Total Mass of Particulate, mg	0.5
Percentage of Total Particulate Collected on Filter	7.4
Stack Particulate Concentration, mg/m^3	**<0.7**
Particulate Mass rate, kg/hour	#VALUE!
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: MIR1
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Diameter (m)	0.3
Stack Area (m2):	0.07

Stack Static press.mm H_2O: 0.2

Traverse Point No.	Port A			Port B		
	m/s	Root Δ p	Stack Temp °C	m/s	Root Δ p	Stack Temp °C
1	10.3	3.209	29	12.7	3.564	29
2	11.1	3.332	29	10.4	3.225	29
Minimum	10.3	0.000	29	10.4	0.000	29
Maximum	11.1	3.332	29	12.7	3.564	29
Mean	**10.7**	**0.654**	**29.0**	**11.6**	**0.679**	**29.0**
Sum	21.4	6.541	58	23.1	6.789	58
Total Sum				44.5	13.330	116

Max. pitot press. =	12.7
Min. pitot press. =	10.3
Ratio Max:Min =	1.2 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > 5m²?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymeres
Site Name: Huntingdon
Sampling Point Ref: MIR1
Date: 25/09/2005
Run: 1
Job / Report Reference: FYS3868

In-stack Filter?	Y	Bar. Press mm Hg	101.3	K Factor	1.99	Ambient Temp	21
Outstack Filter?	N	Cp	0.996	Dn used	6.5	Start Time	14:58
Operators	SRP	Bws%	2	Nozzle No	6.5	Stop Time	15:32

Leak Rate (fin / %)	<2%
Leak Rate (start / %)	<2%
Box/Probe setting	N/A

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	7268	RPS	0.04
Probe Washings	T5	RPS	1.2

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	blank	RPS	0.5

Sample Point	Clock Time min	Pitot Δ p, mm H_2O	Stack Temp, °C	Orifice Δ H, mm H_2O		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp. °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum Inches Hg	Impinger Stem Temp. °C	Root Δ p.
				Desired	Actual								
1	0	10.3	29	20.497	20.4	349498	25	N/A	N/A	N/A	N/A	N/A	3.209
	8	11.1	30	22.089	22		25	N/A	N/A	N/A	N/A	N/A	3.332
2	16	12.7	30	25.273	25.2		25	N/A	N/A	N/A	N/A	N/A	3.564
	24	10.4	30	20.696	20.5		25	N/A	N/A	N/A	N/A	N/A	3.225
Endpoint	32					350386	25	N/A	N/A	N/A	N/A	N/A	
	32.00	11.13	29.75	22.14	22.03	0.9	25.0	N/A	N/A	N/A	N/A	N/A	3.332

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: MIR1	Run: 1
Meter Volume Sampled, acm	0.888
Sample Run Start Time	14:58
Sample Run End Time	15:32
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	29.0
Meter Volume at STP, scm	0.110
Stack Moisture Content, %	2.0
Average Stack Velocity, m/sec	11.125
Stack Flow Rate, acms	0.786
Stack Flow Rate, scms dry,STP	0.093
Nozzle Diameter, mm	6.50
% Isokinetic Variation	**99.5**
Mass of Particulate Collected on Filter, mg	0.0
Mass of Particulate collected in Probe, mg	1.2
Total Mass of Particulate, mg	1.2
Percentage of Total Particulate Collected on Filter	3.2
Stack Particulate Concentration, mg/m^3	**<11.3**
Particulate Mass rate, kg/hour	<0.04
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: MIR 6,4,2
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Diameter (m)	0.3
Stack Area (m2):	0.07

Stack Static press.mm H_2O: 0.2

Traverse Point No.	Port A			Port B		
	M/s	Root Δ p	Stack Temp °C	M/s	Root Δ p	Stack Temp °C
1	13.2	3.633	28	14.2	3.768	28
2	14.1	3.755	28	9.8	3.130	28
Minimum	13.2	0.000	28	9.8	0.000	28
Maximum	14.1	3.755	28	14.2	3.768	28
Mean	**13.7**	**0.739**	**28.0**	**12.0**	**0.690**	**28.0**
Sum	27.3	7.388	56	24	6.899	56
Total Sum				51.3	14.287	112

Max. pitot press. =	14.2
Min. pitot press. =	9.8
Ratio Max:Min =	1.4 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > 5m²?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymeres
Site Name Huntingdon
Sampling Point Ref: MIR 6.4.2
Date: 25/09/2005
Run: 1
Job / Report Reference: FYS3868

In-stack Filter?	Y	Bar. Press mm Hg	101.3	K Factor	1.99	Ambient Temp	21	Leak Rate (fin / %)	<2%
Outstack Filter?	N	Cp	0.996	Dn used	6.5	Start Time	15:45	Leak Rate (start / %)	<2%
Operators	SRP	Bws%	2	Nozzle No	6.5	Stop Time	16:17	Box/Probe setting	N/A

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	7268	RPS	0.04
Probe Washings	T6	RPS	0.5

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	blank	RPS	0.5

Sample Point	Clock Time min	Pitot Δ p, mm H_2O	Stack Temp. °C	Orifice Δ H, mm H_2O		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp. °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum Inches Hg	Impinger Stem Temp. °C	Root Δ p.
				Desired	Actual								
A	0	13.2	26	26.268	26	350387	25	N/A	N/A	N/A	N/A	N/A	3.633
	8	14.1	28	28.059	28		25	N/A	N/A	N/A	N/A	N/A	3.755
B	16	14.2	28	28.258	28.2		25	N/A	N/A	N/A	N/A	N/A	3.768
	24	9.8	19.5	19.502	19.5		25	N/A	N/A	N/A	N/A	N/A	3.130
Endpoint	32					351130	25						
	32.00	12.83	25.38	25.52	25.43	0.7	25.0	N/A	N/A	N/A	N/A	N/A	3.572

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: MIR 6,4,2	Run: 1
Meter Volume Sampled, acm	0.743
Sample Run Start Time	15:45
Sample Run End Time	16:17
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	29.0
Meter Volume at STP, scm	0.092
Meter Volume at Wet STP, scm	0.092
Stack Moisture Content, %	0.0
Average Stack Velocity, m/sec	12.825
Stack Flow Rate, acms	0.907
Stack Flow Rate, scms dry,STP	0.109
Nozzle Diameter, mm	6.50
% Isokinetic Variation	**99.6**
Mass of Particulate Collected on Filter, mg	0.0
Mass of Particulate collected in Probe, mg	0.5
Total Mass of Particulate, mg	0.5
Percentage of Total Particulate Collected on Filter	7.4
Stack Particulate Concentration, mg/m^3	**<5.9**
Particulate Mass rate, kg/hour	<0.002
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: MIR 5
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Diameter (m)	0.3
Stack Area (m2):	0.07

Stack Static press.mm H_2O: 0.2

Traverse Point No.	Port A			Port B		
	m/s	Root Δ p	Stack Temp °C	m/s	Root Δ p	Stack Temp °C
1	11.1	3.332	28	11.1	3.332	28
2	10.9	3.302	28	11.2	3.347	28
Minimum	10.9	0.000	28	11.1	0.000	28
Maximum	11.1	3.332	28	11.2	3.347	28
Mean	**11.0**	**0.663**	**28.0**	**11.2**	**0.668**	**28.0**
Sum	22	6.633	56	22.3	6.678	56
Total Sum				44.3	13.311	112

Max. pitot press. =	11.2
Min. pitot press. =	10.9
Ratio Max:Min =	1.0 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > 5m²?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymeres
Site Name Huntingdon
Sampling Point Ref: MR 5
Date: 25/09/2005
Run: 1
Job / Report Reference FYS3868

In-stack Filter?	Y	Bar. Press.mm Hg	101.3	K Factor	1.99	Ambient Temp	21	Leak Rate (fin / %)	<2%
Outstack Filter?	N	Cp	0.996	Dn used	6.5	Start Time	15.45	Leak Rate (start / %)	<2%
Operators	SRP	Bws%	2	Nozzle No	6.5	Stop Time	16.17	Box/Probe setting	N/A

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	6673	RPS	0.15
Probe Washings	T7	RPS	1.5

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	blank	RPS	0.5

Sample Point	Clock Time min	Pitot Δ p, m/s	Stack Temp, °C	Orifice Δ H, m/s		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp. °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum Inches Hg	Impinger Stem Temp °C	Root Δ p,
				Desired	Actual								
A	0	11.1	20	22.089	22	351130		N/A	N/A	N/A	N/A	N/A	3.332
	8	11.1	20	22.089	22			N/A	N/A	N/A	N/A	N/A	3.332
B	16	11.1	28	22.089	22			N/A	N/A	N/A	N/A	N/A	3.332
	24	11.1	28	22.089	22			N/A	N/A	N/A	N/A	N/A	3.332
Endpoint	32					351883							
	32.00	11.10	28.00	22.09	22.00	0.8	25.0	N/A	N/A	N/A	N/A	N/A	3.332

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: MIR 5	Run: 1
Meter Volume Sampled, acm	0.753
Sample Run Start Time	15:45
Sample Run End Time	16:17
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	29.0
Meter Volume at STP, scm	0.093
Stack Moisture Content, %	0.0
Average Stack Velocity, m/sec	11.100
Stack Flow Rate, acms	0.785
Stack Flow Rate, scms dry,STP	0.094
Nozzle Diameter, mm	6.50
% Isokinetic Variation	**99.6**
Mass of Particulate Collected on Filter, mg	0.2
Mass of Particulate collected in Probe, mg	1.6
Total Mass of Particulate, mg	1.8
Percentage of Total Particulate Collected on Filter	8.6
Stack Particulate Concentration, mg/m^3	**<18.7**
Particulate Mass rate, kg/hour	<0.006
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Name:Huntingdon
Sampling Point Ref: Stack 44 Granulator
Job / Report Reference:FYS3868

Date: 25/09/2005
Run: 1

Stack Static press.mm H_2O:	0.2	Stack Diameter (m)	0.3
		Stack Area (m2):	0.070686

Traverse Point No.	Port A			Port B		
	Δ p, mm H_2O	Root Δ p	Stack Temp °C	Δ p, mm H_2O	Root Δ p	Stack Temp °C
1	17.1	4.135	128	17.1	4.135	128
2	17.1	4.135	128	17.1	4.135	128
Minimum	17.1	0.000	128	17.1	0.000	128
Maximum	17.1	4.135	128	17.1	4.135	128
Mean	**17.1**	**0.827**	**128.0**	**17.1**	**0.827**	**128.0**
Sum	34.2	8.270	256	34.2	8.270	256
Total Sum				68.4	16.541	512

Max. pitot press. =	17.1
Min. pitot press. =	17.1
Ratio Max:Min =	1.0 :1

Gas Data

Oxygen %	21.0
CO_2 %	0.04
CO %	

Oxygen Correction

Required Correction Value	0
Actual Oxygen Factor	1
Enter 0 if correction is not required	

BS EN 13284-1 & M1 Sample Point Requirements	Requirement Met?
Duct gas Flow: angle with regard to duct access <15°?	Yes
Duct Gas Flow Negative Velocity: Not Permitted	No
Duct Gas Flow: Ratio of max to min velocity <3:1?	Yes
Working Area > 5m^2?	Yes
Handrails with removable chains / self closing gates across the top of the ladder?	Yes
Handrails (approx 0,5 and 1,0 m high) and vertical baseboards (approx 0,25m high)?	Yes
Able to bear 400kg load?	Yes
Handrails not restricting access to ports?	Yes
Room opposite sampling port equal or greater than the length of the sampling probe plus 1 metre?	Yes
Sufficient Power (Waterproof 110V BS4343 Standard) close or on the platform?	Yes

Company Name: VIP Polymeres
Site Name: Huntingdon
Sampling Point Ref: Stack 44 Granulator
Date: 25/09/2005
Run: 1
Job / Report Reference: FY33868

In-stack Filter?	Y	Bar. Press mm Hg	101.3	K Factor	1.69	Ambient Temp	21	Leak Rate (fin / %)	<2%
Outstack Filter?	N	Cp	0.996	Dn used	8	Start Time	15:45	Leak Rate (start / %)	<2%
Operators	SRP	Bws%	2	Nozzle No	8	Stop Time	16:17	Box/Probe setting	180 +/- 5 °C

Sample Filter Weights

	Reference	Laboratory	Increase, mg
Filter	6674	RPS	0.15
Probe Washings	17	RPS	1.9

Sample Filter Blank Weighings

	Reference	Laboratory	Increase, mg
Filter	7342	RPS	0.04
Probe Wash	blank	RPS	0.5

Sample Point	Clock Time min	Pitot Δp, mm H_2O	Stack Temp, °C	Orifice ΔH, mm H_2O		Gas Meter Reading m^3	Temp at Gas Meter Outlet °C	Condenser Temp, °C	Filter Box Temp °C	Probe Temp °C	Pump Vacuum Inches Hg	Impinger Stem Temp °C	Root Δp
				Desired	Actual								
1	0	17.1	28	28.899	29	351883							4.135
	8	17.1	28	28.899	29								4.135
2	16	17.1	28	28.899	29								4.135
	24	17.1	28	28.899	29								4.135
Endpoint	32					352280							
	32.00	17.10	28.00	28.90	29.00	0.4	25.0						

Company Name: VIP Polymeres
Site Name:Huntingdon
Job / Report Reference:FYS3868

Date: 25/09/2005

Sampling Point Ref: Stack 44 Granulator	Run: 1
Meter Volume Sampled, acm	0.397
Sample Run Start Time	15:45
Sample Run End Time	16:17
Total Actual Sampling Time, min	32.0
Barometric Pressure, mm Hg	101.30
Stack Pressure, mm Hg	101.31
Average Stack Temp, °C	29.0
Meter Volume at STP, scm	0.049
Stack Moisture Content, %	2.0
Average Stack Velocity, m/sec	17.100
Stack Flow Rate, acms	1.209
Stack Flow Rate, scms dry,STP	0.143
Nozzle Diameter, mm	8.00
% Isokinetic Variation	**100.3**
Mass of Particulate Collected on Filter, mg	0.2
Mass of Particulate collected in Probe, mg	1.9
Total Mass of Particulate, mg	2.1
Percentage of Total Particulate Collected on Filter	7.3
Stack Particulate Concentration, mg/m^3	**41.4**
Particulate Mass rate, kg/hour	0.021
Emission Limit value	**50**

Company Name: VIP Polymeres
Site Reference: Press 18/19

Date: 28-Sep-05
Run: 1

	VOC as C mg/m^3	VOC as C g/hr	VOC as Toluene mg/m^3	VOC as Toluene g/hr
Average	**0.75**	55.763	**0.82**	61.07
Max	**6.56**	486.945	**7.18**	533.32
Min	**0.16**	12.174	**0.18**	13.33

Moisture, %

Oxygen Reference, % 21.0

Results in bold are shown at the limit of detection

Time min	VOC, ppm	VOC as C, mg/m^3	VOC as Toluene,mg/m^3	O2 FACTOR
9:25	**0.1**	0.16	0.18	1.00
9:26	**0.1**	0.16	0.18	1.00
9:27	**0.1**	0.16	0.18	1.00
9:28	**0.1**	0.16	0.18	1.00
9:29	**0.1**	0.16	0.18	1.00
9:30	4	6.56	7.18	1.00
9:31	**0.1**	0.16	0.18	1.00
9:32	**0.1**	0.16	0.18	1.00
9:33	**0.1**	0.16	0.18	1.00
9:34	**0.1**	0.16	0.18	1.00
9:35	**0.1**	0.16	0.18	1.00
9:36	**0.1**	0.16	0.18	1.00
9:37	**0.1**	0.16	0.18	1.00
9:38	**0.1**	0.16	0.18	1.00
9:39	1	1.64	1.80	1.00
9:40	1	1.64	1.80	1.00
9:41	1	1.64	1.80	1.00
9:42	**0.1**	0.16	0.18	1.00
9:43	**0.1**	0.16	0.18	1.00
9:44	**0.1**	0.16	0.18	1.00
9:45	**0.1**	0.16	0.18	1.00
9:46	**0.1**	0.16	0.18	1.00
9:47	**0.1**	0.16	0.18	1.00
9:48	**0.1**	0.16	0.18	1.00
9:49	1	1.64	1.80	1.00
9:50	1	1.64	1.80	1.00
9:51	1	1.64	1.80	1.00
9:52	1	1.64	1.80	1.00
9:53	1	1.64	1.80	1.00
9:54	**0.1**	0.16	0.18	1.00
9:55	**0.1**	0.16	0.18	1.00

Company Name: VIP Polymers
Site Reference:Sacomat Press 5

Date: Sep-05
Run: 1

	VOC as C mg/m³	VOC as C g/hr	VOC as Toluene mg/m³	VOC as Toluene g/hr
Average	**0.74**	2.700	**0.81**	2.96
Max	**1.64**	6.022	**1.80**	6.60
Min	**0.16**	0.602	**0.18**	0.66
Moisture, %				
Oxygen Reference, % 21.0				
Results in bold are shown at the limit of detection				

Time min	VOC, ppm	VOC as C, mg/m³	VOC as Toluene,mg/m³	O2 FACTOR
9:58	**0.1**	0.16	0.18	1.00
9:59	**0.1**	0.16	0.18	1.00
10:00	**0.1**	0.16	0.18	1.00
10:01	**0.1**	0.16	0.18	1.00
10:02	**0.1**	0.16	0.18	1.00
10:03	**0.1**	0.16	0.18	1.00
10:04	1	1.64	1.80	1.00
10:05	**0.1**	0.16	0.18	1.00
10:06	**0.1**	0.16	0.18	1.00
10:07	**0.1**	0.16	0.18	1.00
10:08	**0.1**	0.16	0.18	1.00
10:09	**0.1**	0.16	0.18	1.00
10:10	**0.1**	0.16	0.18	1.00
10:11	**0.1**	0.16	0.18	1.00
10:12	1	1.64	1.80	1.00
10:13	1	1.64	1.80	1.00
10:14	1	1.64	1.80	1.00
10:15	**0.1**	0.16	0.18	1.00
10:16	**0.1**	0.16	0.18	1.00
10:17	1	1.64	1.80	1.00
10:18	1	1.64	1.80	1.00
10:19	1	1.64	1.80	1.00
10:20	**0.1**	0.16	0.18	1.00
10:21	**0.1**	0.16	0.18	1.00
10:22	1	1.64	1.80	1.00
10:23	1	1.64	1.80	1.00
10:24	1	1.64	1.80	1.00
10:25	**0.1**	0.16	0.18	1.00
10:26	**0.1**	0.16	0.18	1.00
10:27	1	1.64	1.80	1.00
10:28	1	1.64	1.80	1.00