

## ***Field Data***

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: Particulate

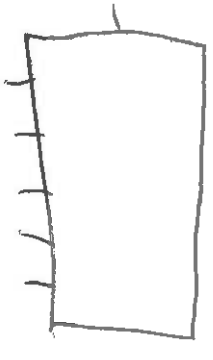
RUN NO. 1

METHOD NO. SP20A

Page 1 of 3

Client	Big Rivers	
Plant	Henderson	
Location	Inlet Unit 1	
Date	8/3/11	Project No. 3648
Meter Operator	EA	
Probe Operator	TG	
Meter ID	M-5	Yd 9953
ΔH@	1.917	Kr 1019
Pre Leak Check	0.00	Leak check @ 15 (inHg)
Post Leak Check	0.00	Leak check @ 13 (inHg)

Barometric (inHg)	29.27	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH <sub>2</sub> O)	-5.5	Total Vtc	
Probe ID	5-18-3	Liner Type	TFE
Nozzle ID	19	Nozzle Dia (in)	.300
Filter ID	12/58	Train Type	
Train ID	18-A	Port Length (in)	30
Duct Dim (in)	186x139		



First point all the way [out] Gas flow [in] (out) of page

Start Time	701	Stop Time	901
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Transverse Point	Elapsed Time	Velocity		Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [ft <sup>3</sup> ] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		Pressure ΔP (inH <sub>2</sub> O)	Pressure											
1	4	1.3	1.6	1.6	178.70	332	320	320	66	98	94	10	85	
2	8	1.3	1.6	1.6	172.55	332	323	320	66	99	96	10	84	
3	12	1.4	1.7	1.7	176.19	332	322	320	66	99	96	11	83	
4	16	1.1	1.5	1.5	179.63	331	320	320	66	99	96	10	82	
5	20	1.1	1.3	1.3	172.24	331	320	330	64	100	97	9	81	
1	24	1.1	1.3	1.3	178.66	331	320	328	85	100	98	9	82	
2	28	1.1	1.3	1.3	177.10	331	320	318	65	100	99	9	82	
3	32	1.1	1.3	1.3	179.59	331	320	320	65	100	99	10	82	
4	36	1.0	1.2	1.2	172.00	335	323	322	64	101	100	10	80	
5	40	0.83	1.0	1.0	174.23	333	323	323	64	102	101	9	80	
1	44	0.83	1.0	1.0	176.38	333	323	323	64	103	102	9	80	
2	48	0.85	1.0	1.0	178.59	333	323	320	64	103	101	9	80	
Total		24.5416	15.6	15.6	58.92	3985				1204	1180			
Average		1.9817	1.664	1.664	335.16	335.16				103.1	103.1			

Circle correct bracketed [ ] units; in in Typo denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 7

TESTING TYPE: Pesticide

METHOD NO. 89202

Page 2 of 2

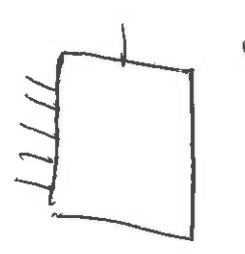
Client	Bio Rivers		
Plant	Hudson		
Location	Unit 1 Inlet		
Date	8/3/11	Project No.	3898
Tester Operator	FA		
Probe Operator	16		
Meter ID	M-5	Yd	9953
Altitude	1917	kt	1.2
Pre Leak Check	000	Pinp (ftm) @	15
Post Leak Check	000	Pinp (ftm) @	13

Barometric (inHg)	29.27	Water (ml)	0
Ambient Temp (°F)	95	Silica gel (g)	0
Static (inH <sub>2</sub> O)	-5.5	Total Vlc	0
Probe ID	S-12-3	Liner Type	TFE
Nozzle ID	.74	Nozzle Dia (in)	.200
Filter ID	1258		
Train ID	FA-A	Train Type	FAP
Duct Dim (in)	186X139	Port Length (in)	30

Start Time	701	Stop Time	703
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting (inH <sub>2</sub> O)	Gas Sample Volume Initial (ml)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
3	52	.80	.96	178.0	337	324	320	65	104	103	9	79	
4	56	.75	.90	152.85	337	324	320	65	105	104	8	79	
5	60	.60	.72	154.76	337	324	320	64	106	104	8	80	
1	64	.66	.77	156.90	337	324	320	64	104	104	8	80	
2	68	.80	.84	178.73	334	321	320	64	108	105	9	80	
3	72	.75	.90	160.80	334	321	322	64	109	106	9	79	
4	76	.85	1.0	162.96	334	324	322	64	110	106	10	76	
5	80	.85	1.0	165.16	334	323	320	64	111	106	10	77	
1	84	.92	1.1	167.40	332	320	321	65	111	107	11	77	
2	88	.92	1.1	169.22	332	320	324	65	111	107	11	78	
3	92	.95	1.1	171.80	332	320	322	65	111	107	11	78	
4	96	1.2	1.4	174.35	332	320	322	66	111	107	11	78	
5	100	1.4	1.7	177.12	332	320	322	66	111	107	11	78	
Average			(1.66)	156	58.42	333.16			(163.4)				
									1415	1373			

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

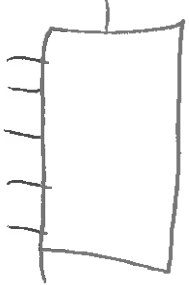
TESTING TYPE: Particulate

RUN NO. 2

METHOD NO. SB/202

Page 1 of 2

Client <u>Biglives</u>	Water (ml) <u>0.927</u>
Plant <u>Henderson</u>	Silica gel (g) <u>9.5</u>
Location <u>Upst 2 Inlet</u>	Total Vols <u>5.5</u>
Date <u>8/3/11</u>	Project No. <u>2698</u>
Meter Operator <u>EA</u>	Liner Type <u>TFF</u>
Probe Operator <u>T6</u>	Nozzle Dia (in) <u>.19</u>
Meter ID <u>M-5</u>	Filter ID <u>12159</u>
Yd <u>1.914</u>	Train Type <u>IMP</u>
KF <u>1.0</u>	Leak check <u>1.5</u>
Leak check @ 1.5 (inHg)	Leak check @ 1.5 (inHg)
Pre Leak Check <u>.000</u>	Post Leak Check <u>.000</u>



Find point all the way [ ] [ ] [ ] [ ]  
Gas flow: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  
Cross Section of Duct

Train Point	Mir/Point Elapsed Time	Velocity Pressure (inH <sub>2</sub> O)	Drifts Setting (inH <sub>2</sub> O)	Gas Sample Volume (Initial/Final)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	9	1.1	1.3	179.50 / 181.72	336	320	310	66	111	110	10	80	
2	8	1.1	1.3	184.32 / 186.60	336	317	322	66	112	110	10	80	
3	12	1.1	1.3	189.44 / 191.72	336	321	320	64	112	110	10	80	
4	16	1.5	1.8	194.56 / 196.84	336	320	324	64	113	110	12	80	
5	20	1.4	1.7	199.68 / 201.96	336	323	320	65	113	110	12	80	
6	24	1.1	1.3	204.80 / 207.08	337	318	319	65	114	111	10	99	
7	28	1.1	1.3	209.92 / 212.20	338	319	320	63	115	111	10	80	
8	32	1.3	1.6	215.04 / 217.32	339	319	320	63	116	111	11	80	
9	36	1.0	1.2	220.16 / 222.44	340	320	322	65	117	111	10	80	
10	40	1.0	1.2	225.28 / 227.56	340	321	324	64	117	112	10	80	
11	44	0.84	1.0	230.40 / 232.68	342	316	320	64	117	112	9	83	
12	48	0.85	1.0	235.52 / 237.80	346	317	320	64	117	112	9	81	
Total		21.52	1.60	2406.4	2406.4	1394	1330						
Average		1.835	1.17	200.53	200.53	320.4	320.4						

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

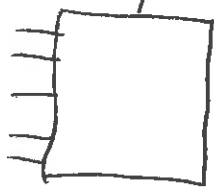
TESTING TYPE: Particulate

RUN NO. 2

METHOD NO. SB/200

Page 2 of 2

Client	Big River		Water (ml)	24.27	
Plant	H66-100		Silica gel (g)	95	
Location	Upst 1 Inlet		Total V/C	-5.5	
Date	8/3/11	Project No.	3640	Probe ID	7F3-12
Water Operator	EA			Nozzle Dia (in)	.19
Probe Operator	TG			Filter ID	10159
Water TO	M-S	Yd	.9953	Train Type	IMP
AP@	1.917	IG	1.2	Nozzle Dia (in)	.200
Pre Leak Check	1000	Leak check	15	Duct Dim. (in)	186 X 139
Post Leak Check	1000	Leak check	15	Start Time	1023
				Stop Time	1210



First point of the way (in) (out)  
Gas flow (in) (out) of page  
Gross Section of Duct

Train	Point	Time Elapsed	Velocity (ft/min)	Pressure (inH <sub>2</sub> O)	Orifice Setting (inH <sub>2</sub> O)	Gas Sample Volume (ft <sup>3</sup> )	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
3	51	0.79	0.79	0.95	0.95	811.19	348	320	320	65	117	112	10	81	
4	56	0.88	0.88	0.82	0.82	813.20	348	325	325	65	117	112	9	80	
5	60	0.70	0.70	0.84	0.84	815.22	348	320	320	62	117	112	9	80	
1	64	0.75	0.75	0.90	0.90	819.27	340	325	321	62	115	111	9	80	
2	68	0.72	0.72	0.86	0.86	819.33	338	323	317	63	115	111	9	80	
3	72	0.65	0.65	0.78	0.78	821.25	338	218	319	64	115	111	9	80	
4	76	0.84	0.84	1.0	1.0	823.33	329	320	325	66	115	111	10	79	
5	80	0.85	0.85	1.0	1.0	825.57	328	321	320	65	115	111	10	79	
1	84	1.0	1.0	1.2	1.2	827.85	334	315	320	63	114	110	11	28	
2	88	1.0	1.0	1.1	1.1	830.15	334	316	320	63	114	110	11	80	
3	92	1.1	1.1	1.3	1.3	832.89	334	323	320	64	114	110	12	80	
4	96	1.1	1.1	1.3	1.3	835.02	334	325	320	65	114	110	12	80	
5	100	1.0	1.0	1.2	1.2	837.38	324	320	320	66	114	110	12	81	
Average			0.9835	1.17	1.17	822.9	342.9	320	320	66	114	110		81	

1496 1441

477

80.8

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

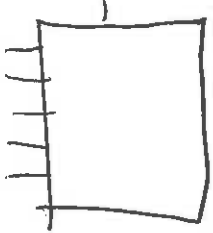
Page 1 of 2

TESTING TYPE: Particulate

METHOD NO. SB202

RUN NO. 3

Client: <u>Brylco</u>	Water (ml): <u>29.87</u>
Plant: <u>Henderson</u>	Silica gel (g): <u>X</u>
Location: <u>Unit 2 Inlet</u>	Total Vic: <u>-5.5</u>
Date: <u>8/3/11</u>	Project No: <u>3648</u>
Meter Operator: <u>FA</u>	Probe ID: <u>AES-11-3</u>
Probe Operator: <u>TG</u>	Nozzle Dia (in): <u>.19</u>
Meter ID: <u>M-5</u>	Yd: <u>.9953</u>
Meter KT: <u>1917</u>	KT: <u>-</u>
Flow (in): <u>15</u>	Pistol Cp: <u>.84</u>
Flow (ft): <u>15</u>	Leak check: <u>-</u>
Flow (in): <u>15</u>	Flow (ft): <u>15</u>
Flow (in): <u>15</u>	Flow (ft): <u>15</u>



Barometric (inHg):	80
Ambient Temp (°F):	80
Static (inH <sub>2</sub> O):	80
Probe ID:	AES-11-3
Nozzle ID:	.19
Filter ID:	12/60
Train ID:	JB-A
Duct Dim. (in):	186x139
Train Type:	IMP
Port Length (in):	30
Start Time:	3:17
Stop Time:	1:08

Traverse Point	Time	Velocity (ft/min)	Pressure (inH <sub>2</sub> O)	Offset Setting (inH <sub>2</sub> O)	Gas Sample Volume (Initial)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	4	1.2	1.4	1.4	838.20	338	320	320	68	102	100	8	80	
2	8	1.1	1.3	1.3	840.70	339	320	320	68	102	100	8	80	
3	12	1.3	1.6	1.6	843.25	340	320	320	68	103	100	9	80	
4	16	1.4	1.7	1.7	845.90	340	320	320	68	104	100	10	80	
5	20	1.0	1.2	1.2	848.78	340	320	320	66	105	100	8	79	
1	24	1.1	1.3	1.3	851.25	340	320	320	66	106	101	8	78	
2	28	1.1	1.3	1.3	853.91	342	320	318	65	106	101	8	77	
3	32	1.1	1.3	1.3	856.30	342	320	320	64	106	101	8	77	
4	36	1.3	1.6	1.6	858.65	342	320	322	63	106	101	10	77	861.00
5	40	1.1	1.3	1.3	861.00	342	320	320	62	107	101	9	78	863.92
1	44	.85	1.0	1.0	863.92	340	320	321	61	108	101	7	79	
2	48	.84	1.0	1.0	866.22	340	320	321	61	109	102	7	80	
Total					868.45	340	320	321	61	109	102	7	80	
Average					864.16	4089				104.6	104.6			

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

## General Testing Data Sheet

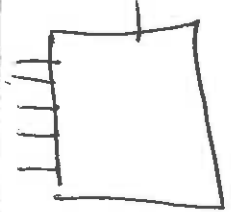
RUN NO. 3

TESTING TYPE: Particulate

METHOD NO. SR200

Page 2 of 2

Client: <u>Big Rivers</u>	Water (ml) [ml]	<u>29.2</u>
Plant: <u>Hobbsen</u>	Silica gel (g)	<u>AS</u>
Location: <u>Unit 1 Inlet</u>	Total Vols	<u>-5.5</u>
Date: <u>8/3/11</u>	Project No.	<u>3648</u>
Water Operator: <u>FA</u>	Probe ID	<u>AES-1-3</u>
Probe Operator: <u>FG</u>	Nozzle ID	<u>-19</u>
Meter ID: <u>A-5</u>	Filter ID	<u>IN160</u>
AMC: <u>1917</u>	Train ID	<u>IB-A</u>
Pre Leak Check: <u>000</u>	Duct Dim. (in)	<u>18X139</u>
Post Leak Check: <u>000</u>	Start Time	<u>1317</u>
	Stop Time	<u>1505</u>



First point all the way [in] [out]

Gas flow [in] [out] of pags

Cross Section of Duct

Impinger	Filter	Probe	Stack	Gas Sample	Orifice	Velocity	Pressure	AP	Setting	Volume	Temp	Temp	Temp	DGM	DGM	Pump	Auxiliary	Notes
Outlet	Temp	Temp	Temp	Initial	Setting	Pressure	AP	Setting	Initial	Temp	Temp	Temp	Temp	Temp	Vacuum	Temp		
Temp	(°F)	(°F)	(°F)	(ml)	(inH <sub>2</sub> O)	(inH <sub>2</sub> O)	(inH <sub>2</sub> O)	(inH <sub>2</sub> O)	(inH <sub>2</sub> O)	(inHg)	(°F)	(°F)	(°F)	(°F)	(inHg)	(°F)		
62	320	320	346	878.20	0.96	0.80	0.74	0.89	870.63	346	322	322	103	103	8	80		
63	323	322	346	872.65	0.89	0.74	0.74	0.89	870.63	346	322	323	103	103	8	79		
63	324	327	346	874.85	0.89	0.74	0.74	0.89	874.85	346	327	324	103	103	8	79		
63	325	324	345	876.97	0.90	0.75	0.75	0.90	876.97	345	324	325	103	103	8	80		
64	320	328	349	879.13	0.90	0.75	0.75	0.90	879.13	349	328	320	103	103	8	80		
64	321	320	348	881.21	0.84	0.91	0.70	0.84	881.21	348	320	320	103	103	8	81		
64	321	320	345	883.59	1.1	0.91	0.70	1.1	883.59	345	321	321	103	103	9	81		
64	322	320	343	885.80	1.1	0.90	0.70	1.1	885.80	343	320	320	103	103	9	82		
64	320	320	342	888.20	1.2	0.99	0.75	1.2	888.20	342	320	320	103	103	9	82		
65	323	323	340	890.50	1.1	0.95	0.75	1.1	890.50	340	323	323	103	103	10	82		
65	324	324	340	893.00	1.2	1.0	0.75	1.2	893.00	340	324	324	103	103	10	82		
65	326	320	340	895.69	1.2	1.0	0.75	1.2	895.69	340	320	326	103	103	10	83		
65	320	320	340	897.77	1.3	1.1	0.75	1.3	897.77	340	320	320	103	103	10	84		
65	320	320	340	897.77	1.3	1.1	0.75	1.3	897.77	340	320	320	103	103	10	84		
										342.2								
										446.2								
										1417								
										1339								
										104.6								
										13.98								
										988.8								
										1.792								
										13.98								
										13.98								

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.  
Impinger Weights Data Sheet

PROJECT NO. 3646

Page 1 of 1

Site:	Big Rivers - Henderson Unit		
Plant:	Robards, KY		
Location:	Inlet		
Date:	8-2-11	Unit:	1
Operator:	AL		

Run No.	Method No.	Train ID	Filter No.		
Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes	
Run No. <u>1</u>	Method No. <u>5B/202</u>	Train ID	Filter No. <u>12158</u>		
Impinger No. 1	Empty	558.1	686.0		
Impinger No. 2	DI	730.0	726.0		
Impinger No. 3	Empty	627.3	631.5		
Impinger No. 4	Silica	830.1	847.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	Method No.	Train ID	Filter No.		
Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes	
Run No. <u>2</u>	Method No. <u>5B/202</u>	Train ID	Filter No. <u>12159</u>		
Impinger No. 1	Empty	592.9	737.5		
Impinger No. 2	DI	735.0	732.6		
Impinger No. 3	Empty	566.8	571.6		
Impinger No. 4	Silica	882.8	898.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	Method No.	Train ID	Filter No.		
Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes	
Run No. <u>3</u>	Method No. <u>5B/202</u>	Train ID	Filter No. <u>12160</u>		
Impinger No. 1	Empty	560.0	621.7		
Impinger No. 2	DI	732.1	719.3		
Impinger No. 3	Empty	629.4	640.8		
Impinger No. 4	Silica	847.1	874.3		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		



# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

1253

1153

TESTING TYPE: ACU

RUN NO. 1

METHOD NO. 26

Page 1 of 1

Client	Big Rivers		
Plant	Henderson		
Location	Inlet #1		
Date	8/31/11	Project No.	3648
Meter Operator	SH		
Probe Operator	SH		
Meter ID	M-20	Val	9952
Tag	1745	Unit	111
Eye Leak Check	506	(in) (ft)	15
Post Leak Check	080	(in) (ft)	90

Batometric (inHg)	29.27	Water (ml) (g)	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inHg)	-5.5	Total Visc	
Probe ID	ARS-6-S	Line Type	9/635
Nozzle ID	200	Nozzle Dia. (in)	200
Filter ID	NA		
Train ID	1825	Train Type	MP
Duct Dim (in)	1.86 x 1.85	Port Length (in)	30

First point all the way [in] [out]  
Gas flow [in] [out] of page

Start Time	7:01	Stop Time	9:10
------------	------	-----------	------

Transverse Point	Elapsed Time	Main Point Velocity Pressure ΔP (inH <sub>2</sub> O)	Velocity (ft/min)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial (ft <sup>3</sup> ) [L]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
70	10	.85	.94	.94	327.75	331	260	260	68	90	90	6	NA	
	20	.88	.99	.99	334.24	328	262	262	67	90	90	4		
	30	.89	.99	.99	340.65	329	259	260	66	104	92	6		
	40	.90	1.0	1.0	348.72	329	259	261	65	104	94	4		
	50	.87	.97	.97	354.48	329	259	261	65	105	95	5		
	60	.90	1.0	1.0	360.17	330	260	260	64	105	96	5		
	70	.90	1.0	1.0	365.93	331	261	259	63	107	98	5		
	80	.90	1.0	1.0	371.70	331	261	259	63	108	98	5		
	90	.84	.93	.93	377.51	331	260	259	62	108	99	5		
	100	.90	1.0	1.0	383.11	330	261	261	62	108	100	5		
	110	.84	.93	.93	388.91	332	261	261	61	108	100	5		
	120	.92	1.0	1.0	394.66	331	261	260	60	108	100	5		
Total	120	10.59	11.8231	12.70	400.45	331	259	260	60	108	101	5		
Average		.8825	.9899		396.2					1253	1153			

included [ ] units  
-ingers, knockouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
General Testing Data Sheet

1330 1254

TESTING TYPE: ACI  
METHOD NO. 26

Page 1 of 1

RUN NO. 2

Client	Dix Rims		Water [ml] [g]	2427
Plant	Henderson		Silica gel [g]	98
Location	Inlet H1		Total Vic	5.5
Date	8/3/11	Project No. 2698	Liner Type	AE5-6-5
Meter Operator	SH		Nozzle Dia [in]	2.00
Probe Operator	SH		Filter ID	N/A
Meter ID	9752	Prior Op. 184	Train Type	IMP
Site	1.285K	1.11	Duct Dim. [in]	1.26 x 1.55
Pre Leak Check	900	15	Start Time	10:23
Post Leak Check	900	18	Stop Time	12:20

Transverse Point	Min/Point Elapsed Time	Velocity [ft/min]	Pressure [inH <sub>2</sub> O]	Orifice Setting [inH <sub>2</sub> O]	Gas Sample Volume [ft <sup>3</sup> ]	Stack Temp [°F]	Probe Temp [°F]	Filter Temp [°F]	Impinger Outlet Temp [°F]	DGM Inlet Temp [°F]	DGM Outlet Temp [°F]	Pump Vacuum [inHg]	Auxiliary Temp [°F]	Notes
10		.90	1.0	1.0	401.03	334	260	260	68	102	101	5	N/A	
20		.93	1.0	1.0	412.47	333	261	260	67	104	101	5		
30		.89	.99	1.0	418.24	335	259	259	66	104	102	5		
40		1.93	1.0	1.0	424.08	335	259	260	64	110	102	5		
50		.95	1.1	1.0	430.05	336	260	260	63	112	105	6		
60		.90	1.0	1.0	435.90	335	260	259	63	114	105	6		
70		.90	1.0	1.0	441.70	336	260	261	62	114	106	6		
80		.93	1.0	1.0	447.44	335	260	261	62	114	106	6		
90		.93	1.0	1.0	453.24	336	260	258	60	115	107	6		
100		.92	1.0	1.0	459.02	336	260	259	59	114	107	6		
110		.97	1.0	1.0	464.80	335	259	262	60	112	107	6		
120		.89	.99	1.0	470.53	336	266	263	62	111	105	6		
Total		11			(67.50)	402.2				133	1254			
Average		(.917)			(335.11)					(107.67)				

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

1327

1262

2348

TESTING TYPE: T/C1

RUN NO. 3

METHOD NO. 26

Page 1 of 1

Client	Big Rivers		
Plant	Anderson		
Location	Inlet #1		
Date	8/3/11	Project No.	3648
Meter Operator	SH		
Probe Operator	SH		
Meter ID	M-20	Pilot Cp	.84
PHG	1.785	Leak check	✓
Pre Leak Check	1.00	Leak @	15 (inHg)
Post Leak Check	1.00	Leak @	10 (inHg)
Barometric (inHg)	29.27	Water (ml)	0
Ambient Temp (°F)	98	Silica gel (g)	0
Static (inH <sub>2</sub> O)	-5.5	Total Vic	0
Probe ID	AE5-6-3	Liner Type	GLASS
Nozzle ID	200	Nozzle Dia. (in)	1/200
Filter ID	1/4	Train Type	APP
Train ID	18-25	Port Length (in)	30
Duct Dim. (in)	18x13		
Start Time	3:17	Stop Time	15:34

Traverse Point	Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample / Volume Initial (ft <sup>3</sup> )	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
10	10	.90	1.0	471.00	336	260	260	68	102	102	7	N/A	
20	20	.91	1.0	476.81	335	258	260	67	103	102	4		
30	30	.95	1.1	482.58	335	262	262	66	107	104	5		
40	40	.90	1.0	488.58	335	260	262	66	109	103	5		
50	50	.88	.94	494.49	336	260	260	65	112	105	5		
60	60	.92	1.0	500.16	336	259	260	64	112	105	5		
70	70	.90	1.0	505.92	336	260	260	63	113	106	5		
80	80	.91	1.0	511.71	335	260	260	63	112	106	5		
90	90	.91	1.0	517.50	336	261	261	63	114	107	5		
100	100	.88	.95	523.20	335	259	257	63	117	107	5		
110	110	.90	1.0	529.03	335	260	257	64	119	108	5		
120	120	.91	1.0	535.42	335	260	260	65	113	107	5		
Total		10.87		69.64	4025				1327	1262			
Average		(90.583)			(335.416)				(107.878)				

Circle correct bracketed ( ) units  
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.  
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client:	Big Rivers - Henderson Unit		
Plant:	Robards, KY		
Location:	Inlet		
Date:	8-2-11	Time:	1
Operator:	AL		

Run No.	1	Train ID		Filter No.	NA
Method No.	26A				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H <sub>2</sub> SO <sub>4</sub>	713.9	853.1		
Impinger No. 2	H <sub>2</sub> SO <sub>4</sub>	725.2	743.1		
Impinger No. 3	Empty	632.3	639.1		
Impinger No. 4	Silica	870.5	893.2		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2	Train ID		Filter No.	NA
Method No.	26A				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H <sub>2</sub> SO <sub>4</sub>	715.0	846.6		
Impinger No. 2	H <sub>2</sub> SO <sub>4</sub>	575.2	596.6		
Impinger No. 3	Empty	618.3	626.1		
Impinger No. 4	Silica	889.3	909.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3	Train ID		Filter No.	NA
Method No.	26A				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H <sub>2</sub> SO <sub>4</sub>	715.9	862.9		
Impinger No. 2	H <sub>2</sub> SO <sub>4</sub>	724.3	741.0		
Impinger No. 3	Empty	634.6	639.5		
Impinger No. 4	Silica	892.7	909.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

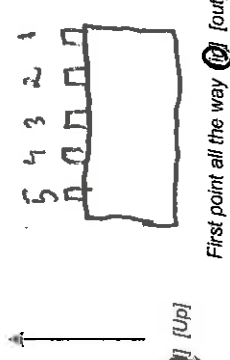
TESTING TYPE: Metals

RUN NO. 1

METHOD NO. 29

Page 1 of 3

Client	Big R. Vets		Barometric (inHg)	29.27	Water [ml] [g]	
Plant	Henderson - Green		Ambient Temp (°F)	48	Silica gel (g)	
Location	Talent #1		Static (inH <sub>2</sub> O)	-5.5	Total Vlc	
Date	8/3/11	Project No. 3648	Probe ID	AE-5-123	Liner Type	Teflon
Meter Operator	BK		Nozzle ID	.195	Nozzle Dia (in)	.195
Probe Operator	TL		Filter ID	N/A	Train Type	Imp
Meter ID	M-14	Yd 1.0087	Train ID	TB 10	Port Length (in)	30
ΔH@	1.802	Kt 1.02	Duct Dim. (in)	1.75 x 1.39		
Pre Leak Check	.000	[effm] [lpm] @ 2.0				
Post Leak Check	.000	[effm] [lpm] @ 1.0				



Gas flow [in] [out] of page

Cross Section of Duct

Start Time 7:01 Stop Time 9:10

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inH <sub>2</sub> O)	Auxiliary Temp (°F)	Notes
1-1	5	.80	.82	615.00	330	250	250	61	94	91	5	N/A	
2	10	.80	.82	617.52	330	249	252	61	98	92	5		
2	15	.77	.78	620.06	330	252	249	60	101	93	5		
4	20	.77	.78	622.52	330	251	249	60	107	95	5		
5	25	1.0	1.02	624.94	327	250	251	60	106	97	5		
2-1	30	.97	.99	627.76	326	250	249	57	106	97	5		
2	35	.95	.97	630.57	330	248	248	57	106	97	5		
3	40	1.1	1.12	633.35	330	251	251	57	108	98	5		
4	45	1.6	1.6	636.22	330	251	250	57	109	99	5		
5	50	1.0	1.02	639.64	330	251	247	58	110	100	5		
3-1	55	1.3	1.3	642.61	330	250	252	58	110	101	5		
2	60	1.2	1.2	645.63	330	249	250	57	109	101	7		
Total		(25.13)	(25.93)	(70.51)	(8354)	(250)	(248)	(57)	(110)	(102)	(7)		
Average		(1.052)	(1.032)		(334.16)				(104.94)				

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

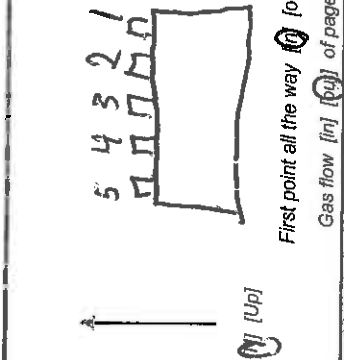
TESTING TYPE: Metals

METHOD NO. 29

RUN NO. 1

Page 2 of 3

Client	Big Rivers		
Plant	Henderson-Green		
Location	Inlet #1		
Date	8/3/11	Project No.	3648
Meter Operator	BK		
Probe Operator	TGW		
Meter ID	M-14	Yd	1.0087
ΔH@	1.802	Kt	1.02
Pre Leak Check	.000	[cfm] [lpm] @	2.0
Post Leak Check	.000	[cfm] [lpm] @	1.0
Pitot Cp	.84		
Leak check	U		



Barometric (inHg)	29.27	Water [mil] [g]	
Ambient Temp (°F)	98	Silica gel (g)	
Static (inH <sub>2</sub> O)	-5.5	Total Vic	
Probe ID	AE-5-R25	Liner Type	Teflon
Nozzle ID	.195	Nozzle Dia (in)	.195
Filter ID	N/A	Train Type	Imp
Train ID	TBIC	Port Length (in)	30
Duct Dim. (in)	1.85 x 1.39		
Start Time	7:01	Stop Time	9:10

Traverse Point	Min/Point	Elapsed Time	Velocity		Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes	
			Pressure ΔP (inH <sub>2</sub> O)	ΔH (inH <sub>2</sub> O)												
1	5	65	1.4	1.4	1.4	651.98	339	251	250	57	111	102	7	N/A		
2	5	70	1.5	1.5	1.5	655.32	334	251	251	57	111	103	7			
3	5	75	1.3	1.3	1.3	658.05	332	250	250	56	111	103	7			
4-1	5	80	1.2	1.2	1.2	661.06	339	248	249	58	109	103	7			
4-2	5	85	1.3	1.3	1.3	654.19	340	249	252	54	111	103	7			
5	5	90	1.2	1.2	1.2	657.23	337	251	251	54	111	103	7			
6	5	95	1.0	1.0	1.0	670.35	335	251	249	55	112	103	7			
7	5	100	1.95	1.95	1.95	673.04	335	250	250	55	114	104	6			
8-1	5	105	.85	.85	.85	675.77	344	248	250	56	113	105	5			
8-2	5	110	.93	.93	.93	678.43	347	248	250	56	113	105	5			
9	5	115	.80	.80	.80	681.01	345	251	250	57	115	106	5			
10	5	120	.77	.77	.77	683.53	350	250	250	57	115	106	5			
Total																
Average											2729	2518				104.94

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

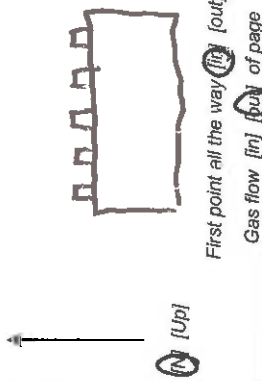
TESTING TYPE: Metals

RUN NO. 1

METHOD NO. 29

Page 3 of 3

Client: <u>Big Rivers</u>		Barometric (inHg): <u>29.27</u>		Water [ml] [g]:	
Plant: <u>Henderson - Green</u>		Ambient Temp (°F): <u>98</u>		Silica gel (g):	
Location: <u>JACK #1</u>		Static (inH <sub>2</sub> O): <u>-5.5</u>		Total Vic:	
Date: <u>8/3/11</u>		Probe ID: <u>AE-5-12-5</u>		Line Type: <u>refb</u>	
Meter Operator: <u>BK</u>		Nozzle ID: <u>.195</u>		Nozzle Dia (in): <u>.195</u>	
Probe Operator: <u>TC</u>		Filter ID: <u>N/A</u>		Train Type: <u>IMP</u>	
Meter ID: <u>M-14</u>	Yd: <u>1.0037</u>	Pitot Cp: <u>.84</u>			
ΔH@: <u>1.807</u>	Kr: <u>1.02</u>	Leak check: <u>✓</u>			
Pre Leak Check: <u>500</u>	[cfm] [lpm] @: <u>20</u>	(inHg):			
Post Leak Check: <u>500</u>	[cfm] [lpm] @: <u>10</u>	(inHg):			



Cross Section of Duct		Start Time: <u>7:01</u>	Stop Time: <u>9:00</u>
-----------------------	--	-------------------------	------------------------

Min/Point	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
5	1.55	5.56	675.00	333	250	250	59	115	106	4	N/A	
5	1.55	5.56	683.68	333	250	250	59	115	106	4	N/A	
Total												
Average												

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 2

METHOD NO. 29

Page 1 of 3

Client	Big Rivers		Water [ml] [g]	29.27
Plant	Henderson-Green		Silica gel (g)	98
Location	Inlet #1		Total Vlc	-5.85
Date	8/3/11	Project No.	3648	
Meter Operator	BK		Probe ID	AE-5-12.5
Probe Operator	TG		Nozzle Dia (in)	.195
Meter ID	M-14	Yd	1.00	87
ΔH@	1.302	Kr	1.02	
Pie Leak Check	1000	[ppm] [ppm] @	10	(inHg)
Post Leak Check	0.00	[ppm] [ppm] @	4	(inHg)

3 4 7 2 1  
□□□□□

First point all the way [up] [out]  
Gas flow [in] [out] of page

Cross Section of Duct

Start Time 10:23 Stop Time 10:30

Min/Point	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [ft <sup>3</sup> ] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
5	0.75	0.76	686.50	334	250	250	92	110	108	5	N/A	
10	0.83	0.85	689.06	335	248	249	62	110	108	5		
15	0.80	0.82	691.65	333	252	254	60	111	108	5		
20	1.00	1.02	697.05	333	251	247	60	113	108	5		
25	0.75	0.76	699.59	333	250	248	59	113	108	5		
30	1.00	1.02	702.39	333	246	248	59	114	109	5		
35	1.2	1.2	705.44	335	249	249	59	114	109	6		
40	1.2	1.2	708.50	335	251	252	57	117	109	7		
45	1.3	1.3	711.78	335	251	251	57	117	109	8		
50	0.90	0.92	714.42	335	250	251	57	117	109	8		
55	1.1	1.1	717.45	335	247	241	58	113	110	8		
60	1.2	1.2	721.67	335	250	254	58	113	110	8		
Total	25.33	26.16	845					2782	2728			
Average	1.0134	1.0464	338.20					110.2				

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.



**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 2

METHOD NO. 29

Page 2 of 3

Client	B.J. Rivers			Water [ml] [g]	84.27
Plant	Henderson - Green			Silica gel (g)	98
Location	Inlet #1			Total Vlc.	-5.5
Date	8/3/11	Project No.	3643	Probe ID	AE-5-12-5
Meter Operator	BK			Nozzle Dia (in)	.125
Probe Operator	TC7			Filter ID	N/A
Meter ID	M-14	Yd	1.0087	Pitot Cp	.84
ΔH@	1.802	Kf	1.02	Train ID	IB NOV
Pre Leak Check	0.280	[cfm] [lpm] @	19	Port Length (in)	30
Post Leak Check	0.00	[cfm] [lpm] @	14	Start Time	10:25
				Stop Time	12:30

Gas flow [in] [out] of page

First point all the way [out]

Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGHT Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
3	5	63	1.3	1.3	685.60	335	250	250	59	113	110	8	N/A	
4		70	1.5	1.5	727.10	335	251	252	58	114	108	9		
5		75	1.43	1.45	729.85	335	250	250	58	114	108	9		
1		80	1.09	1.0	732.87	344	247	247	57	111	107	7		
2		85	1.1	1.1	735.60	343	260	263	57	112	108	7		
3		90	1.1	1.1	738.65	343	251	251	56	111	107	7		
4		95	1.4	1.4	741.80	343	251	248	56	109	105	7		
5		100	1.95	1.97	744.59	345	250	251	56	108	104	9		
1		106	1.80	1.82	747.27	345	249	252	57	107	103	7		
2		110	1.93	1.95	749.86	345	250	246	57	106	102	6		
3		115	1.95	1.97	752.64	345	250	250	56	105	101	6		
4		120	1.1	1.1	755.41	343	250	253	59	105	101	7		
Total										2782				
Average														

Circle correct bracketed [ ] units  
Train type denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

## General Testing Data Sheet

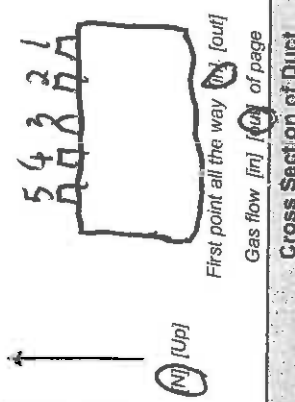
TESTING TYPE: Metals

RUN NO. 2

METHOD NO. 29

Page 3 of 3

Client <u>Big Rivers</u>		Water [ml] [g] <u>29.27</u>	
Plant <u>Henderson - Green</u>		Silica gel [g] <u>48</u>	
Location <u>Inlet #1</u>		Total Vlc <u>-5.5</u>	
Date <u>8/3/11</u>		Project No. <u>3648</u>	
Meter Operator <u>BK</u>		Line Type <u>TGFL01</u>	
Probe Operator <u>TG</u>		Nozzle Dia (in) <u>.195</u>	
Meter ID <u>M-14</u>	Yd <u>1.00</u>	Train Type <u>Imp</u>	
ΔH@ <u>1.602</u>	Kr <u>1.03</u>	Port Length (in) <u>30</u>	
Pre Leak Check <u>1000</u>	[cfm] [lpm] @ <u>19</u>		
Post Leak Check <u>1000</u>	[cfm] [lpm] @ <u>14</u>		



Min/Point	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
5	0.83	0.75	686.50	245	250	250	61	105	101	8	N/A	
			758.18		250	254						
Total												
Average												

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

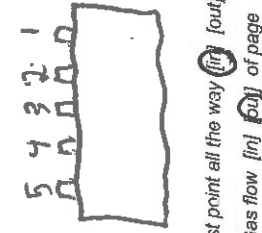
TESTING TYPE: Meters

RUN NO. 3

METHOD NO. 29

Page 1 of 3

Client	Big Rivers			Barometric (inHg)	29.27	Water [ml] [g]	
Plant	Hendersoo - Green			Ambient Temp (°F)	98	Silica gel (g)	
Location	Inlet #1			Static (inH <sub>2</sub> O)	-5.5	Total Vlc	
Date	8/3/11	Project No.	3648	Probe ID	AE-812-5	Liner Type	tufoa
Meter Operator	BK	Probe Operator	TG	Nozzle ID	.195	Nozzle Dia (in)	.195
Meter ID	M-14	Yd	1.0087	Filter ID	N/A	Train Type	Imp
ΔH@	1.802	Kf	1.02	Train ID	EB10	Port Length (in)	30
Pre Leak Check	0.00	[cfm] [lpm] @	15 (inHg)	Duct Dim. (in)	186 x 139		
Post Leak Check	0.00	[cfm] [lpm] @	13 (inHg)	Start Time	13:17	Stop Time	15:59



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	5	.80	.82	759.30	338	250	250	59	100	100	5	N/A	
2	10	.83	.85	761.88	338	251	249	59	100	100	5		
3	15	.87	.89	764.46	335	249	253	58	101	100	5		
4	20	1.0	1.0	767.15	332	248	255	57	102	100	5		
5	25	.75	.76	769.46	332	252	256	57	103	100	6		
2-1	30	1.0	1.0	772.42	335	246	258	57	103	100	7		
2	35	1.1	1.1	775.27	335	247	252	57	103	100	7		
3	40	1.1	1.1	778.21	335	252	260	58	105	101	7		
4	45	1.5	1.5	781.15	335	252	264	58	106	101	7		
5	50	1.1	1.1	784.57	335	250	240	59	108	103	8		
5-1	55	1.2	1.2	787.86	338	246	248	58	106	102	7		
2	60	1.3	1.3	790.89	339	250	256	58	107	102	8		
Total													
Average													

Circle correct bracketed [ ] units  
Train Type denotes Impingers, Knockouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

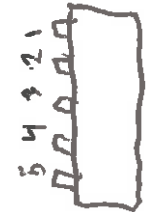
RUN NO. 3

TESTING TYPE: Metals

METHOD NO. 29

Page 2 of 3

Client	Big Rivers		Barometric (inHg)	29.27	Water (ml) [g]	
Plant	Henderson-Green		Ambient Temp (°F)	98	Silica gel (g)	
Location	Tallet #1		Static (inH <sub>2</sub> O)	-5.5	Total Vlc	
Date	8/3/11	Project No. 3548	Probe ID	AB-5-12-5	Liner Type	teflon
Meter Operator	BK		Nozzle ID	1175	Nozzle Dia (in)	1.155
Probe Operator	TG		Filter ID	N/A	Train Type	Imp
Meter ID	M-14	Yd 1.0087	Train ID	IB10	Port Length (in)	30
ΔH@	1.402	Kf 1.02	Duct Dim. (in)	186x139		
Pre Leak Check	0.00	[dm] [ppm] @ 15 (inHg)				
Post Leak Check	0.00	[cm] [ppm] @ 13 (inHg)				
(M) [Up] First point all the way (in/out) Gas flow (in) (out) of page Cross Section of Duct			Start Time	13:17	Stop Time	



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial (l) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
3	65	1.4	1.4	759.30	340	250	250	57	105	101	8	N/A	
4	70	1.5	1.5	800.57	338	251	252	57	107	101	9		
5	25	1.1	1.1	803.68	338	250	247	56	107	101	9		
4-1	80	1.1	1.1	806.76	341	248	260	57	105	101	7		
3	85	1.2	1.2	809.82	342	250	259	57	105	101	7		
4	90	1.1	1.1	812.83	342	253	248	57	106	101	8		
5	100	1.0	1.0	815.65	338	251	247	58	107	102	7		
5-1	105	1.85	1.87	818.47	338	250	245	58	108	101	7		
2	110	1.87	1.89	826.30	338	249	255	58	107	101	6		
3	115	1.95	1.97	824.18	338	249	252	59	107	101	7		
4	120	1.1	1.1	827.05	338	251	254	59	107	101	8		
Total				829.7A	338	253	251	61	106	101			
Average				843.4	337.6				2627.2522	102.98			

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 3

METHOD NO. 29

Page 3 of 3

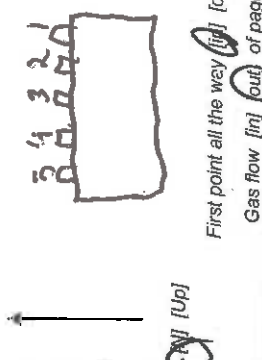
Client	<u>Big Rivers</u>			
Plant	<u>Henderson-Cresler</u>			
Location	<u>Plant #1</u>			
Date	<u>8/3/11</u>	Project No.	<u>3648</u>	
Meter Operator	<u>BK</u>			
Probe Operator	<u>TG</u>			
Meter ID	<u>M-14</u>	Yd	<u>1.0077</u>	Pitot Cp
ΔH@	<u>1.802</u>	Kf	<u>1.02</u>	Leak check
Pre Leak Check	<u>0.00</u>	[cfm] [ppm] @	<u>15</u>	(inHg)
Post Leak Check	<u>0.00</u>	[cfm] [ppm] @	<u>13</u>	(inHg)

Barometric (inHg)	<u>29.87</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>98</u>	Silica gel (g)	
Static (inH <sub>2</sub> O)	<u>-5.5</u>	Total Vlc	
Probe ID	<u>AE-5-12-3</u>	Liner Type	<u>teflon</u>
Nozzle ID	<u>.195</u>	Nozzle Dia (in)	<u>.195</u>
Filter ID	<u>N/A</u>	Train Type	<u>Imp</u>
Train ID	<u>TB 10</u>	Port Length (in)	<u>30</u>
Duct Dim. (in)	<u>18 x 13.4</u>		

Start Time	<u>13:17</u>	Stop Time	
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Min/Point	Velocity		Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	Pressure ΔP (inH <sub>2</sub> O)	ΔH (inH <sub>2</sub> O)											
<u>5</u>	<u>1.93</u>	<u>.95</u>		<u>259.30</u>	<u>338</u>	<u>250</u>	<u>250</u>	<u>62</u>	<u>105</u>	<u>100</u>	<u>7</u>	<u>N/A</u>	
<u>127</u>				<u>832.40</u>									
Total													
Average													

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.  
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client:	Big Rivers - Henderson Unit		
Plant:	Robards, KY		
Location:	Inlet		
Date:	8-2-11	Unit:	1
Operator:	AL		

Run No.	Method No.	Train ID	Filter No.		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	563.4	704.0		
Impinger No. 2	5% 10%	691.0	716.8		
Impinger No. 3	5% 10%	746.0	754.0		
Impinger No. 4	Empty	630.4	635.8		
Impinger No. 5	Silica	856.4	877.8		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	Method No.	Train ID	Filter No.		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	515.8	641.0		
Impinger No. 2	5% 10%	606.0	639.0		
Impinger No. 3	5% 10%	705.0	721.5		
Impinger No. 4	Empty	614.0	620.5		
Impinger No. 5	Silica	931.7	956.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	Method No.	Train ID	Filter No.		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	566.0	689.5		
Impinger No. 2	5% 10%	695.3	721.2		
Impinger No. 3	5% 10%	747.5	754.0		
Impinger No. 4	Empty	633.2	634.5		
Impinger No. 5	Silica	877.1	888.5		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

**AIRTECH ENVIRONMENTAL SERVICES INC.**

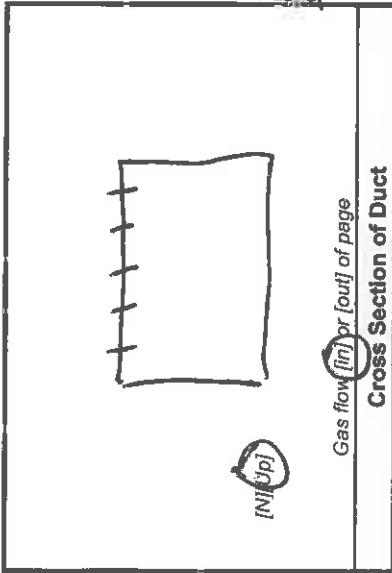
V.O.S.T Meter Data Sheet

Run No. 1

METHOD 308

Page 1 of 2

Client	Big Rivers
Plant	Henderson
Location	Inlet 4-1
Date	8/03/11
Project No.	3648
Probe Operator	RC



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-5.5
Ambient Temp. (°F)	95
Start Time	07:01
Stop Time	07:03

Trap # 95173

Unspiked Train	Meter ID	M-26	Yd	9958
Pre Leak Check	.000	lpm @	21	(in. Hg)

Post Leak 200 13

Min/Point	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	1.504	3	N/A	92	2
7.2		2.321			94	3
10.8		3.087			95	3
14.4		3.937			95	3
18		4.657			99	3
21.6		6.398			102	5
25.2		8.237			103	6
28.8		10.138			104	6
32.4		12.956			107	6
36		14.649			108	7
39.6		17.807			109	7
43.2		20.826			110	7
Total		47.379			1218	
Average					108.7	

Trap # 95164

Spiked Train	Meter ID	M-26	Yd	9902
Pre Leak Check	.000	lpm @	21	(in. Hg)

Post Leak 1000 7

Min/Point	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	906	4.6 lpm	N/A	92	2
7.2		1.789			95	2
10.8		2.109			96	2
14.4		3.748			96	2
18		4.604			100	2
21.6		5.959			103	2
25.2		7.888			106	2
28.8		10.189			107	3
32.4		12.873			108	3
36		14.825			110	3
39.6		17.823			110	3
43.2		20.973			111	3
Total		42.024			1234	
Average					109.7	

**AIRTECH ENVIRONMENTAL SERVICES INC.**

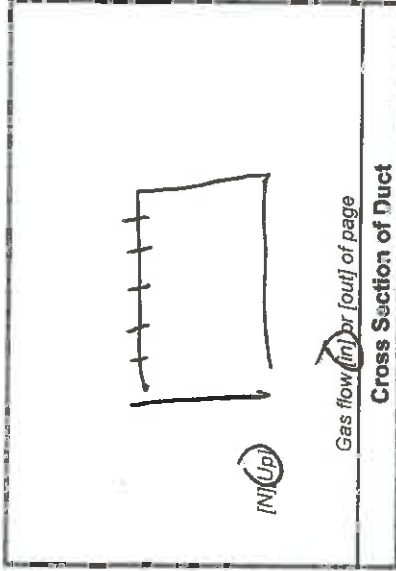
V.O.S.T Meter: Data Sheet

Run No. 1

METHOD 30B

Page 2 of 2

Client	Big Rivers
Plant	Henderson Ky
Location	Inlet H-1
Date	8/03/11 RC
Project No.	P 3607 3648
Frohe Operator	RC



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-5.5
Ambient Temp. (°F)	95
Start Time	07:01
Stop Time	09:03

Trap # 95173

Unspiked Train	Meter ID	M-26	Yd	9758
Pre Leak Check	0.000	lpm @	21	(in. Hg)

Trap # 95164

Spiked Train	Meter ID	M-26	Yd	9902
Pre Leak Check	0.000	lpm @	21	(in. Hg)

Min/Point	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	23.505	.3	N/A	111	9
46.8	N/A	26.856			111	9
50.4		29.771			113	9
54		33.618			115	9
57.6		36.125			115	10
61.2		38.157			115	10
64.8		37.215			116	10
68.4		40.226			116	10
72		40.937			118	10
75.6		41.756			117	10
79.2		41.944			117	10
82.8		42.379			117	10
86.4					118	10
Total					1499	10
Average						

Min/Point	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	23.851	.3	N/A	112	4
46.8	N/A	26.783			112	4
50.4		29.673			114	4
54		32.849			116	4
57.6		36.317			116	4
61.2		37.249			116	4
64.8		39.011			117	4
68.4		40.193			117	4
72		40.989			118	4
75.6		41.457			117	4
79.2		41.666			119	4
82.8		42.024			118	4
86.4					118	4
Total					1509	4
Average						

5-3 4 5 1-1 2 3 4 5 2-1 2 3 4 5 90



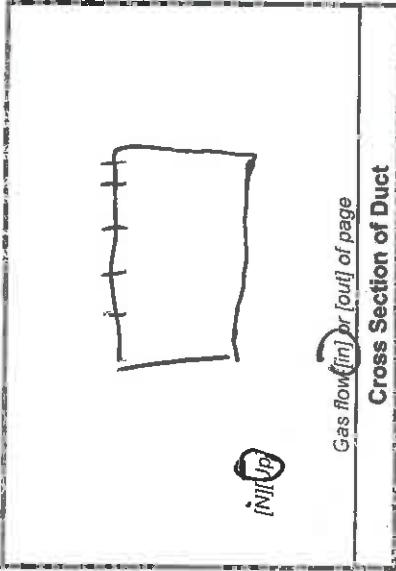
**AIRTECH ENVIRONMENTAL SERVICES INC.**  
V.O.S.T Meter Data Sheet

Run No. 2

METHOD 30 B

Page 1 of 2

Client	Big Rivers
Plant	Henderson F7
Location	Inlet H-1
Date	8/03/11
Project No.	3648
Probe Operator	RK



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-5.5
Ambient Temp. (°F)	95
Start Time	10:23
Stop Time	12:04

Temp # 95183

Unspiked Train	Meter ID	W-26	Yd	9958
Pre Leak Check	020	lpm @	22	(in. Hg)

Temp # 94368 95108

Spiked Train	Meter ID	W-26	Yd	9902
Pre Leak Check	020	lpm @	22	(in. Hg)

Min/Point Elapsed Time	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	1.927	3LPM	N/A	111	3
7.2		3.249			111	3
10.8		4.414			112	3
14.4		5.405			112	3
18		6.378			115	3
21.6		7.421			116	3
25.2		8.119			117	3
28.8		9.143			119	3
32.4		10.239			120	3
36		11.285			122	3
37.6		12.595			122	3
43.2		14.516			123	3
Total					1400	
Average					121.1	

Min/Point Elapsed Time	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	1.847	3LPM	N/A	111	2
7.2		2.976			112	2
10.8		3.570			112	2
14.4		4.781			113	2
18		5.927			116	2
21.6		6.148			118	2
25.2		7.064			119	2
28.8		8.506			120	2
32.4		10.511			121	2
36		11.175			122	2
37.6		12.561			123	2
43.2		14.821			124	2
Total					1411	
Average					121.8	

43437

4297

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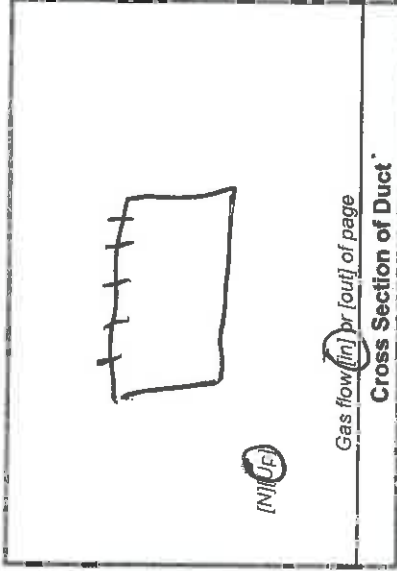
V.O.S.T Meter Data Sheet

Run No. 2

METHOD 30B

Page 2 of 2

Client	Bog Rivers
Plant	Henderson Ky
Location	Inlet M-1
Date	8/03/11
Project No.	3648
Probe Operator	RC



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-5.5
Ambient Temp. (°F)	95
Start Time	10:23
Stop Time	12:04

Temp # 95183

Unspiked Train	Meter ID	M-26	Yd	9958
Pre Leak Check	000	ipm @	22	(in. Hg)

Temp # 95108

Spiked Train	Meter ID	M-26	Yd	9902
Pre Leak Check	000	ipm @	22	(in. Hg)

Min/Point	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6						
Elapsed Time						
46.8	N/A	16.270	34m	124	124	S
50.4		17.970		124	124	S
54		19.474		125	125	S
57.6		21.162		125	125	
61.2		23.484		125	125	
64.8		25.103		125	125	
68.4		27.639		125	125	
72		29.993		125	125	
75.6		32.112		126	126	
79.2		35.876		126	126	
82.8		37.950		126	126	
86.4		40.511		126	126	
Total		42.871				42.871
Average					162.7	

Min/Point	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6						
Elapsed Time						
46.8	N/A	16.769	20m	N/A	125	3
50.4		18.615			125	3
54		19.550			125	3
57.6		21.083			125	
61.2		23.383			125	
64.8		25.097			125	
68.4		27.491			126	
72		29.783			126	
75.6		32.931			126	
79.2		35.729			127	
82.8		37.963			127	
86.4		40.879			127	
Total		43.437			126	
Average					163.5	

3 4 5 1 2 3 4 5 1 2 3 4 5 90

5 90

**AIRTECH ENVIRONMENTAL SERVICES INC.**

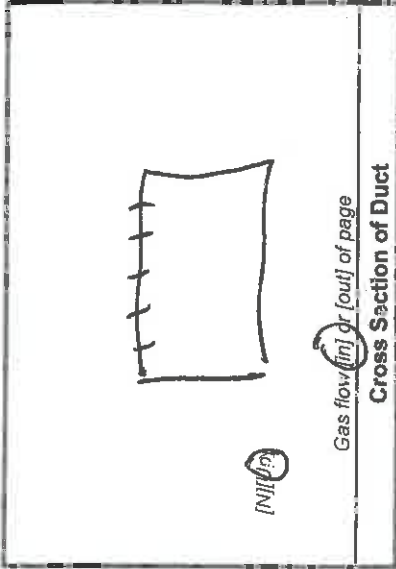
V.O.S.T Meter Data Sheet

Run No. 3

METHOD 30B

Page 1 of 2

Client	Big Rivers
Plant	Henderson
Location	H-1 inlet
Date	8/03/11
Project No.	3648
Frobe Operator	RC



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-5.5
Ambient Temp. (°F)	95
Start Time	13:17
Stop Time	15:02

Trap # 95176

Unspiked Train	Meter ID	M-26	Yd	9958
Pre Leak Check	1000	lpm @	2	(in. Hg)

post leak check

Min/Point	Orifice Setting	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	2.439	3.6PM	N/A	120	4
7.2		4.494			120	5
10.8		6.235			120	5
14.4		8.357			120	5
18		10.059			120	5
21.6		11.529			121	5
25.2		12.920			120	5
28.8		14.212			120	5
32.4		15.474			120	5
36		16.431			120	5
39.6		17.618			120	5
43.2		19.086			120	5
Total					119.2	
Average					43.178	

Trap # 95113

Spiked Train	Meter ID	M-26	Yd	9902
Pre Leak Check	1000	lpm @	20	(in. Hg)

post leak check

Min/Point	Orifice Setting	Gas Sample Volume Initial [l]	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	N/A	2.711	3.6PM	N/A	120	3
7.2		4.783			121	3
10.8		6.447			121	3
14.4		8.192			121	3
18		9.645			121	3
21.6		11.134			122	3
25.2		12.491			120	3
28.8		13.704			120	3
32.4		15.069			120	3
36		16.186			120	3
39.6		17.067			121	3
43.2		18.461			120	3
Total					120.4	
Average					43.67	

1 2 3 4 5 6 2 3 4 5 1 2

AIRTECH ENVIRONMENTAL SERVICES INC.

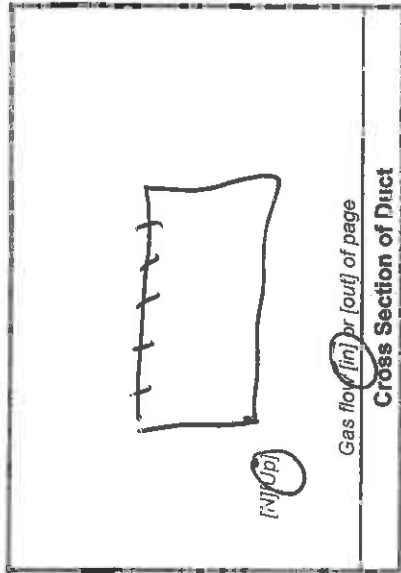
V.O.S.T Meter Data Sheet

Run No. 3

METHOD 30 B

Page 2 of 2

Client	Big Rivers
Plant	Henderson Ky
Location	H-1 Inlet
Date	8/03/11
Project No.	3648
Probe Operator	RCG



Barometric (in. Hg)	29.27
Static (InH <sub>2</sub> O)	-5.5
Ambient Temp. (°F)	95
Start Time	12:17
Stop Time	15:07

Trap # 95176

Unspiked Train	Meter ID	M-26	Yd	9958
Pre Leak Check		200	lpm @	21
				(in. Hg)

Trap # 95113

Spiked Train	Meter ID	M-26	Yd	9902
Pre Leak Check		200	lpm @	20
				(in. Hg)

Min/Point	Orifice Setting	Gas Sample Volume	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	3.6	20.631	32PM	N/A	120	6
46.8	N/A	21.872			120	6
54		23.301			120	6
57.6		25.013			119	6
61.2		27.284			119	6
64.8	29.931	29.931			119	6
68.4		31.330			119	6
72		33.356			118	6
75.6		35.819			119	6
79.2		38.457			119	6
82.8		40.941			120	6
86.4		42.741			120	6
Total		43.178			120	6
Average						

3 4 5 1 2 3 4 5 1 2 3 4 5 90

Min/Point	Orifice Setting	Gas Sample Volume	Flow Meter Setting	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in Hg)
3.6	3.6	20.701	32PM	N/A	120	3
46.8	N/A	21.624			121	3
50.4		23.454			121	3
54		25.312			120	3
57.6		27.630			119	3
61.2		29.492			119	3
64.8		31.687			119	3
68.4		33.579			119	3
72		35.657			120	3
75.6		37.812			120	3
79.2		40.067			121	3
82.8		41.515			121	3
86.4		42.868			122	3
Total						
Average						

3 4 5 1 2 3 4 5 1 2 3 4 5 90

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Oxygen and Carbon Dioxide Data Sheet

PROJECT NO. 3648

<b>Client</b>	Big Rivers		
<b>Plant</b>	Henderson Unit 1		
<b>Location</b>	ESP Outlet	<b>Train</b>	5B/202
<b>Analyzer Type</b>	Plant CEMS Data	<b>Leak Check</b>	

Run No.	Trial No.	%CO <sub>2w</sub>	%CO <sub>2d</sub>	%O <sub>2</sub>	F <sub>O</sub>	Date	Start Time	Stop Time
1	1				1.16	8/3/2011	7:01	9:16
	2							
	3							
	Average	11.3	12.7	6.10				
2	1				1.17	8/3/2011	10:23	12:30
	2							
	3							
	Average	11.6	13.3	5.31				
3	1				1.16	8/3/2011	13:17	15:39
	2							
	3							
	Average	11.6	12.5	6.37				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

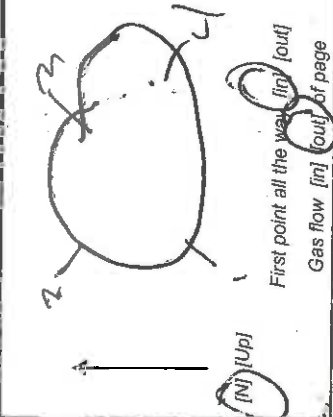
TESTING TYPE: Stack PM

RUN NO. 1

METHOD NO. SP/esc

Page 1 of 1

Client	Pig Rivers	
Plant	P. Rivers by	
Location	Stack #1	
Date	8/3/11	Project No. 3648
Meter Operator	NR	
Probe Operator	SD	
Meter ID	1014	Pikat Cp 146
ΔH@	224	Leak check <input checked="" type="checkbox"/>
Pre Leak Check	.880	[cfm] [lpm] @ 15 (inHg)
Post Leak Check	1.080	[cfm] [lpm] @ 15 (inHg)



Barometric (inHg)	29.27	Water [ml] [g]	
Ambient Temp (°F)	97	Silica gel (g)	
Static (inH <sub>2</sub> O)	-1.4	Total Vic	
Probe ID	AE562	Liner Type	G1453
Nozzle ID	1230	Nozzle Dia (in)	.230
Filter ID	12155		
Train ID	F833	Train Type	IMP
Duct Dim. (in)	192	Pert Length (in)	14.5

Start Time	7:01	Stop Time	8:46
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure AP (inH <sub>2</sub> O)	Crifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [ft <sup>3</sup> ] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	25	.66	1.5	964.52	129	320	320	59	97	97	6	69	
2	15	.52	1.1	913.09	121	320	320	59	97	97	0	69	
3	26	.72	.72	921.07	129	320	319	60	101	97	0	69	
2-1	30	.66	1.5	976.59	130	320	320	60	101	98	0	69	
2	25	.61	1.4	930.77	130	320	320	61	110	99	0	70	
3	45	.74	1.5	934.71	130	320	320	61	110	101	0	70	
3-1	55	.64	1.4	939.71	130	320	320	61	110	102	0	70	
2	60	.68	1.5	944.75	130	320	320	61	111	102	0	70	
3	65	.74	1.6	948.79	130	320	320	61	111	103	0	70	
4-1	75	.65	1.5	953.23	130	320	320	63	111	103	0	70	
2	55	.68	1.6	958.36	130	320	320	63	111	103	0	70	
3	67	.45	1.0	961.67	130	320	320	63	111	103	0	70	
Total		4.400	15.5	55.09	1557								
Average		2400	1.963	1945	1495								

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

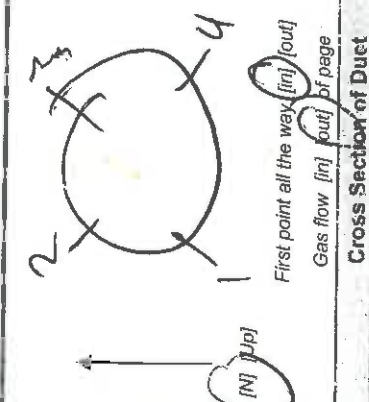
TESTING TYPE: PM

RUN NO. 2

METHOD NO. 53602

Page 1 of 1

Client	<u>Bio Kubs</u>		
Plant	<u>Redwood</u>		
Location	<u>Stack #1</u>		
Date	<u>8/11</u>	Project No.	<u>3046</u>
Meter Operator	<u>ML</u>		
Probe Operator	<u>SD</u>		
Meter ID	<u>1014</u>	Pilot Cp	<u>09</u>
ΔH@	<u>2.22</u>	Leak check	<input checked="" type="checkbox"/>
Pre Leak Check	<u>0.00</u> [cfm]	[lpm]	<u>15</u> (inHg)
Post Leak Check	<u>0.00</u> [cfm]	[lpm]	<u>15</u> (inHg)



Barometric (inHg)	<u>29.27</u>	Water [ml]	<u>0</u>
Ambient Temp (°F)	<u>102</u>	Silica gel (g)	<u>0</u>
Static (inH <sub>2</sub> O)	<u>-2.1</u>	Total Vic	<u>0</u>
Probe ID	<u>PE5-62</u>	Liner Type	<u>6135</u>
Nozzle ID	<u>230</u>	Nozzle Dia (in)	<u>0.30</u>
Filter ID	<u>12150</u>	Train Type	<u>IMP</u>
Train ID	<u>T64</u>	Port Length (in)	<u>14.5</u>
Duct Dim. (in)	<u>1.7</u>		

Start Time	<u>6:19</u>	Stop Time	<u>12:03</u>
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [ft <sup>3</sup> ] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	1.5	0.67	1.5	962.89	127	320	320	54	105	102	7	68	
2	1.5	0.62	1.4	962.80	131	320	320	53	104	102	7	68	
3	0.5	0.57	1.3	946.13	130	320	319	51	106	103	7	69	
2-1	3.0	0.66	1.5	981.11	130	319	320	60	107	103	7	69	
2	3.05	0.61	1.4	984.59	136	320	320	60	107	103	7	69	
3	4.5	0.70	1.4	949.17	130	320	320	60	109	104	7	69	
3-1	5.5	0.64	1.4	994.26	131	320	320	61	110	104	7	70	
2	6.0	0.66	1.5	998.51	130	320	320	61	110	105	7	70	
3	6.5	0.60	1.5	1002.89	140	320	320	62	110	105	7	70	
4-1	16	0.63	1.4	1007.36	130	320	320	62	111	105	7	71	
2	16.5	0.64	1.5	1011.73	136	320	320	62	111	105	7	71	
3	19.0	0.66	1.5	1016.15	130	320	320	62	111	105	7	71	
Total		6.947	14.92	57.26	136.3	320	320	63	111	106	7	71	
Average		3.470	1.208	130.15	130.15	320	320	63	111	106	7	71	

Circle correct bracketed [ ] units  
Train Type denotes impingers, knockouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: RM

RUN NO. 3

METHOD NO. EPH02

Page 1 of 1

Client	<u>Five Rivers</u>		
Plant	<u>Wastewater</u>		
Location	<u>Check #1</u>		
Date	<u>5/13/11</u>	Project No.	<u>3646</u>
Meter Operator	<u>WJ</u>		
Probe Operator	<u>JD</u>		
Meter ID	<u>M7</u>	Yd	<u>1091</u>
AH@	<u>1.72</u>	Kf	<u>7.21</u>
Pre Leak Check	<u>.050</u>	[cfm] [ppm] @	<u>15</u> (inHg)
Post Leak Check	<u>.050</u>	[cfm] [ppm] @	<u>15</u> (inHg)

Barometric (inHg)	<u>29.27</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>106</u>	Silica gel (g)	
Static (inH <sub>2</sub> O)	<u>-0.4</u>	Total Vic	
Probe ID	<u>AB502</u>	Liner Type	<u>Glass</u>
Nozzle ID	<u>230</u>	Nozzle Dia (in)	<u>230</u>
Filter ID	<u>1215F</u>		
Train ID	<u>2033</u>	Train Type	<u>JMP</u>
Duct Dim. (in)	<u>192</u>	Port Length (in)	<u>14.5</u>



Start Time	<u>13:14</u>	Stop Time	<u>15:04</u>
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Traverse Point	Min/Point	Elapsed Time	Velocity Pressure		Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
			ΔP (inH <sub>2</sub> O)	(inH <sub>2</sub> O)											
1-1	7.5	7.5	.69	.69	1.5	06.50	13	320	320	60	105	103	6	70	
2	15	15	.64	.64	1.5	16.14	13	320	319	60	104	103	7	70	
3	22.5	22.5	.62	.62	1.5	30.01	13	320	320	60	109	104	8	70	
2-1	30	30	.66	.66	1.5	34.56	13	320	320	60	110	105	9	71	
1	41.5	41.5	.63	.63	1.5	26.82	13	320	320	61	111	105	9	71	
3	45	45	.65	.65	1.5	47.90	13	320	320	61	112	106	9	71	
2-1	52.5	52.5	.63	.63	1.5	47.12	13	320	320	61	112	106	9	71	
2	60	60	.65	.65	1.5	52.96	13	320	320	62	112	106	9	72	
3	62.5	62.5	.63	.63	1.5	54.92	13	320	319	63	112	104	9	72	
4-1	75	75	.61	.61	1.5	59.82	13	320	320	63	112	104	9	74	
1	82.5	82.5	.62	.62	1.5	64.79	13	320	320	64	112	104	9	74	
3	90	90	.64	.64	1.5	69.63	13	320	320	65	112	104	9	74	
Total			4.9516	4.77		53.14	13	320			1306	1220			
Average			.7376	.726		13075					108.167				

Circle correct bracketed [ ] units  
Tr: in Type denotes impingers, knockouts, etc.



AIRTECH ENVIRONMENTAL SERVICES INC.  
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client	Big Rivers - Henderson Unit		
Plant	Robards, KY		
Location	Stack		
Date	8-2-11	Unit	1
Operator	AL		

Run No.	1	Train ID	Filter No.		
Method No.	SB/202	Train ID		Filter No.	12155
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	557.6	713.1		
Impinger No. 2	DI	675.3	685.0		
Impinger No. 3	Empty	570.0	598.5		
Impinger No. 4	Silica	862.7	896.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	2	Train ID	Filter No.		
Method No.	SB/202	Train ID		Filter No.	12156
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	525.4	684.6	645.4	
Impinger No. 2	DI	704.3	731.1		
Impinger No. 3	Empty	608.5	635.1		
Impinger No. 4	Silica	909.8	951.2		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	3	Train ID	Filter No.		
Method No.	SB/202	Train ID		Filter No.	12157
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	559.3	602.1		
Impinger No. 2	DI	677.9	734.5		
Impinger No. 3	Empty	573.7	745.4		
Impinger No. 4	Silica	896.1	910.6		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: HCL

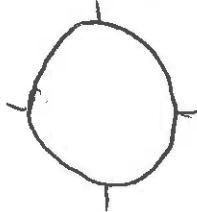
RJN NO. 1

METHOD NO. 20A

Page      of     

Client	<u>Big Rivers</u>		
Plant	<u>Anderson</u>		
Location	<u>Stack #1</u>		
Date	<u>8/3/11</u>	Project No	<u>3048</u>
Meter Operator	<u>JK</u>		
Probe Operator	<u>JK</u>		
Meter ID	<u>M-2</u>	Yd	<u>9904</u>
ΔH@	<u>1.810</u>	KF	<u>4.35</u>
Pre Leak Check	<u>0.01</u>	[cfm] [lpm] @	<u>20</u>
Post Leak Check	<u>0.01</u>	[cfm] [lpm] @	<u>15</u>
		Pilot Cp	<u>0.84</u>
		Leak check	<input checked="" type="checkbox"/>

Barometric (inHg)	<u>29.27</u>	Water (ml) [g]	
Ambient Temp (°F)	<u>99</u>	Silica gel (g)	
Static (inH <sub>2</sub> O)	<u>55 (36.4)</u>	Total Vtc	
Probe ID	<u>AES-10-1</u>	Liner Type	<u>Glass</u>
Nozzle ID	<u>27 (0.27)</u>	Nozzle Dia (in)	<u>27 (0.27)</u>
Filter ID	<u>N/A</u>		
Train ID		Train Type	<u>imp</u>
Duct Dim. (in)	<u>192</u>	Port Length (in)	<u>14.5</u>



Start Time	<u>2:01</u>	Stop Time	<u>9:10</u>
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Traverse Point	MiniPoint	Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [°] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	0.102	2.7	210.04	130	250	250	250	50	100	94	10	N/A	
2	20	0.55	2.4	219.29	130	250	250	250	50	98	95	10		
3	30	0.27	1.2	228.53	130	250	250	250	52	105	90	10		
1	40	0.57	2.5	234.89	128	200	250	250	53	110	97	10		
2	50	0.50	2.02	243.22	131	255	250	250	55	105	100	10		
3	60	0.25	1.1	251.54	130	258	250	250	55	104	101	10		
1	70	0.510	2.4	259.45	130	200	250	250	54	107	104	10		
2	80	0.50	2.2	267.88	130	250	250	250	57	107	102	10		
3	90	0.25	1.1	276.13	130	250	250	250	58	107	102	10		
1	100	0.55	2.4	283.51	130	257	200	255	59	107	103	10		
2	110	0.50	2.2	291.71	131	200	255	250	00	108	103	10		
3	120	0.25	1.1	299.82	130	255	250	250	00	109	103	10		
Total				300.24	130	240	200	200	00	109	103	10		
Average				110.2	15102					1209	1198			
				1.0590	1.9583	130.107				102.79	100			

Circle correct bracketed [ ] units  
Train Typc denotes impingers, kno-kouts, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: HCL

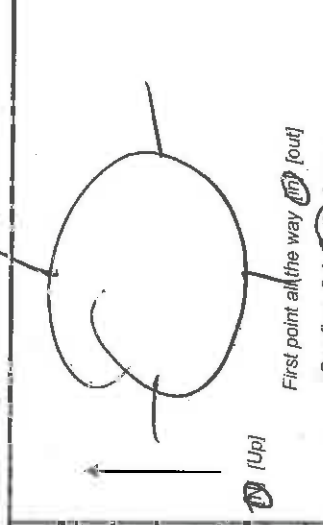
RUN NO. 2

METHOD NO. ZeeA

Page 1 of 1

Client	Big Rivers		
Plant	stack Henderson		
Location	8/3/11	Project No.	3248
Date	JL 1,015A		
Meter Operator	M-2		
Probe Operator	Yd	Pitot Cp	0.84
Meter ID	KT	Leak check	<input checked="" type="checkbox"/>
ΔH@	0.00	(ppm)	15 (inHg)
Pre Leak Check	0.00	(ppm)	17 (inHg)
Post Leak Check	0.00	(ppm)	

Barometric (inHg)	29.27	Water (mil) (g)	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH <sub>2</sub> O)	5.4	Total Vic	
Probe ID	AE5-0-4	Liner Type	Glass
Nozzle ID	027	Nozzle Dia (in)	0.27
Filter ID	N/A	Train Type	imp
Train ID	EB-9	Port Length (in)	14.5
Duct Dim. (in)	192		



Start Time	10:19	Stop Time	12:51
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure AP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial (ft <sup>3</sup> ) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	0.57	2.5	307.70	131	250	248	49	101	102	10	N/A	314.97 End
2	20	0.57	2.5	685.24	130	250	251	50	91	90	10		1085.17 new
3	30	0.18	0.77	700.10	132	255	254	52	99	97	10		
1	40	0.50	2.0	708.31	133	251	257	53	102	93	10		
2	50	0.51	2.2	710.09	133	250	259	54	105	95	10		
3	60	0.20	0.80	721.23	132	252	258	56	107	99	10		
1	70	0.58	2.05	727.81	132	250	259	57	109	100	10		
2	80	0.50	2.02	735.05	133	255	240	57	111	100	10		
3	90	0.20	1.1	742.28	132	252	200	58	113	101	10		
1	100	0.55	2.4	758.79	132	253	258	58	115	102	10		
2	110	0.50	2.0	769.30	131	255	254	59	110	103	10		
3	120	0.31	1.03	775.48	132	252	253	100	117	104	10		
Total		7.8824	23.13	97.58	1583				1280	1181			
Average		0.05109	1.9275	131.9167					102.2910				

90.31 + M15  
7.87 M2  
97.58

Circle correct bracketed [ ] units  
Train type denotes impingers, knockouts, etc.

Meters checked M-15

# AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

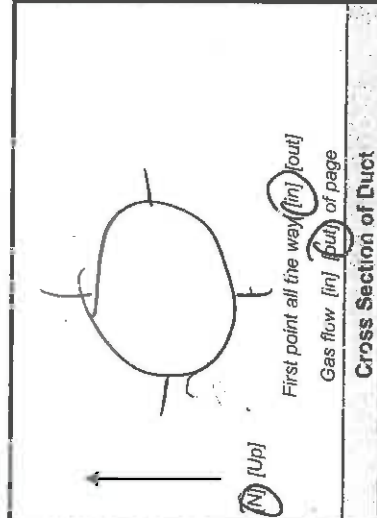
TESTING TYPE: HCL

RUN NO. 3

METHOD NO. 20A

Page 1 of 1

Client	Big Rivers	
Plant	Henderson	
Location	stack #1	
Date	8/3/11	Project No. 2048
Meter Operator	JL	
Probe Operator	JL	
Meter ID	M-15	Yd 10159
ΔH@	1.843	Kf 4.4
Pre Leak Check	0.00	(ppm) @ 10
Post Leak Check	0.00	(ppm) @ 13
Pilot Cp	0.84	
Leak check	N	



Barometric (inHg)	29.27	Water (ml) (g)	
Ambient Temp (°F)	104	Silica gel (g)	
Static (inH <sub>2</sub> O)	-4	Total Vic	
Probe ID	AE5-0-4	Liner Type	Glass
Nozzle ID	027	Nozzle Dia (in)	0.27
Filter ID	N/A		
Train ID		Train Type	imp
Duct Dim. (in)	192	Port Length (in)	14.5

Start Time 1317 Stop Time 1535

Cross Section of Duct	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	250	250	114	107	11	N/A	
	258	259	114	107	11		
	255	250	114	107	10		
	255	250	115	108	11		
	260	251	114	108	10		
	260	250	113	108	10		
	258	259	114	108	11		
	262	254	114	108	11		
	253	256	114	108	10		
	265	255	110	108	10		
	264	255	118	108	11		
	253	253	118	108	10		
Total	2507	2499	1378	1293			
Average	250.7	249.9	137.8	129.3			

correct brackets [ ] units  
pe denotes impingers, knucklet, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.  
Impinger Weights Data Sheet

PROJECT NO. 3648

Client:	Big Rivers - Henderson KY		
Host:	Robards, KY		
Location:	Stack		
Date:	8-2-11	Unit:	1
Operator:	AL		

Run No.	Method No.	Train ID	Filter No.	Total (g)	Notes
1	26A		NA		
Impinger No.	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
1	H <sub>2</sub> SO <sub>4</sub>	713.1	882.3		
2	H <sub>2</sub> SO <sub>4</sub>	685.1	687.3		
3	Empty	584.0	597.0		
4	SiO <sub>2</sub>	777.2	815.0		
5					
6					
7					
Additional Rinse					
				Net Weight (g)	

Run No.	Method No.	Train ID	Filter No.	Total (g)	Notes
2	26A		NA		
Impinger No.	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
1	H <sub>2</sub> SO <sub>4</sub>	612.9	904.4		
2	H <sub>2</sub> SO <sub>4</sub>	610.2	646.2		
3	Empty	526.6	542.1		
4	SiO <sub>2</sub>	831.0	914.1		
5					
6					
7					
Additional Rinse					
				Net Weight (g)	

Run No.	Method No.	Train ID	Filter No.	Total (g)	Notes
3	26A		NA		
Impinger No.	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
1	H <sub>2</sub> SO <sub>4</sub>	720.3	744.5		
2	H <sub>2</sub> SO <sub>4</sub>	682.4	727.5		
3	Empty	536.2	612.8		
4	SiO <sub>2</sub>	815.0	846.1		
5					
6					
7					
Additional Rinse					
				Net Weight (g)	

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

TESTING TYPE: 3D

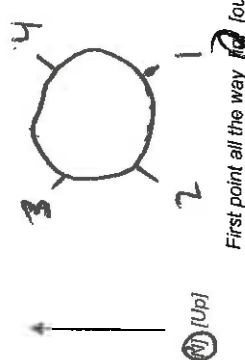
RUN NO. 1

METHOD NO. 29

Page ( ) of 1

Client	BIG RIVERS	
Plant	ROBACOS/KV	
Location	STACK #1	
Date	09/03/11	Project No. 3698
Meter Operator	JD	
Probe Operator	JD	
Meter ID	M-16	Yd
ΔH <sub>or</sub>	1.845	Kt
Pre Leak Check	0.000	[ppm] @ 19
Post Leak Check	0.000	[ppm] @ 15
	9907	Pilot Cp
	2.29	Leak check

Barometric (inHg)	29.27	Water (ml) (g)	
Ambient Temp (°F)	99.0 F	Silica gel (g)	
Static (inH <sub>2</sub> O)	-0.4	Total V/c	
Probe ID	AES-V-3	Liner Type	GLASS
Nozzle ID	.230	Nozzle Dia (in)	.230
Filter ID	NR	Train Type	IMD
Train ID	EB-24	Port Length (in)	19.5
Duct Dim. (in)	192.0"		



Start Time	07:01	Stop Time	8:46
------------	-------	-----------	------

Traverse Point	MiniPoint	Velocity		Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial (ml)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		Pressure ΔP (inH <sub>2</sub> O)	Time											
3-1	10	.78		1.8	174.11	130	249	250	45	100	96	10	N/A	
2	20	.62		1.4	180.74	131	250	249	46	105	97	9		
3	30	.46		1.1	186.54	131	250	250	47	109	98	7		
4-1	40	.61		1.4	193.04	131	249	249	48	107	100	9		
2	50	.67		1.5	198.04	131	250	249	49	117	103	11		
3	60	.39		.89	205.23	132	250	249	50	114	104	7		
2-1	70	.62		1.4	211.68	130	250	250	50	116	105	10		
2	80	.67		1.5	218.70	130	250	249	52	117	106	11		
3	90	.40		.92	223.98	131	251	250	53	118	106	7		
2-1	100	.58		1.3	229.94	130	250	250	54	119	108	9		
2	110	.63		1.4	236.94	130	250	251	55	119	109	10		
3	120	.31		.71	241.96	130	250	250	55	119	109	6		
Total	120	0.973		15.32	75.36	1567.00				1355.00	1241.00			
Average	10.0	.7436		1.277	130.583					108.1667				

VOL: 199.64

Circles correct bracketed [ ] units;  
Train Type denotes Impingers, Knockouts, etc.

# AIRTECH ENVIRONMENTAL SERVICES INC.

## General Testing Data Sheet

TESTING TYPE: \_\_\_\_\_

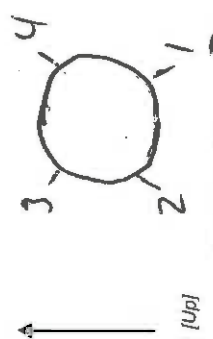
RUN NO. 2

METHOD NO. 29

Page 1 of 1

Client	BIG TIVERS	
Plant	ROBARDS, KY	
Location	STACK #1	
Date	03/11	Project No. 3648
Meter Operator	JD	
Probe Operator	JK	
Meter ID	M-16	Yd 9907
AH@	1.845	KI 2.29
Pre Leak Check	0.000 (cfm) (ppm) @	Pitot Cp .84
Post Leak Check	0.000 (cfm) (ppm) @	Leak check 18

Barometric (inHg)	29.27	Water (ml) [g]	
Ambient Temp (°F)	103°F	Silica-gel (g)	
Static (inH <sub>2</sub> O)	-0.4	Total Vic	
Probe ID	AZS-6-	Line Type	GLASS
Nozzle ID	.230	Nozzle Dia (in)	.230
Filter ID	INA	Train Type	IMP
Train ID	15	Port Length (in)	14.5
Duct Dim. (in)	1.5		



Start Time	10:19	Stop Time	12:03
------------	-------	-----------	-------

Traverse Point	Min/Point	Velocity Pressure AP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
3-1	10	0.71	1.6	242.61	133	250	252	114	107	106	7	N/A	
3	20	0.64	1.5	266.21	132	250	250	95	113	106	7		
4-1	30	0.53	1.4	260.67	132	251	251	46	116	107	5		
2	40	0.61	1.4	268.39	132	250	250	47	117	108	7		
3	50	0.64	1.5	275.21	131	250	249	48	118	108	7		
1-1	60	0.62	1.6	279.79	130	250	250	49	119	109	4		
2	70	0.66	1.5	286.50	131	250	252	49	118	110	7		
3	80	0.69	1.6	293.71	130	249	251	51	119	110	7		
2-1	90	0.42	1.6	299.25	130	249	250	52	118	111	5		
2	100	0.61	1.4	306.00	131	250	250	53	118	111	7		
3	110	0.65	1.5	312.90	130	249	250	53	119	111	7		
3	120	0.32	1.5	317.69	129	249	249	54	120	112	5		
Total	120	8.78	15.11	295.00	1571.00				1406.4	1309.00			
Average	10	0.73	1.29	269.2	1309.2				112.958	105.211			

Circle correct bracketed [ ] units  
Tr in Type denotes impingers, knock-outs, etc.

**AIRTECH ENVIRONMENTAL SERVICES INC.**

General Testing Data Sheet

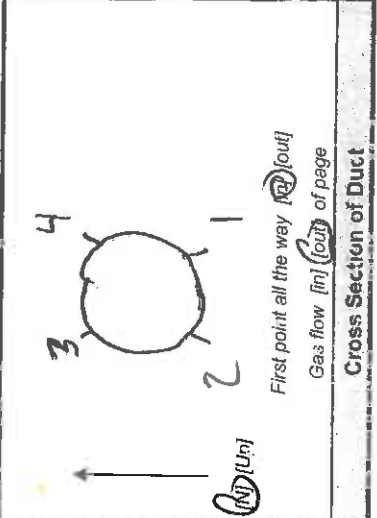
TESTING TYPE: \_\_\_\_\_

RUN NO. 3

METHOD NO. 29

Page 1 of 1

Client	BIG RIVERS	
Plant	USBRDS, KY	
Location	STUCK #1	
Date	08/03/11	Project No. 364B
Meter Operator	JL	
Probe Operator	JL	
Meter ID	M-16	Yd 9907
ΔH@	1.845	KI 2.29
Pre Leak Check	0.000 [cfm]	[lbm] @ 18 (inHg)
Post Leak Check	0.001 [cfm]	[lbm] @ 13 (inHg)



Barometric (inHg)	29.27	Water (in)	[ ]
Ambient Temp (°F)	103.0	Silica gel (g)	[ ]
Static (inH <sub>2</sub> O)	-0.4	Total Vic	[ ]
Probe ID	RES-6	Liner Type	GLASS
Nozzle ID	0.230	Nozzle Dia (in)	0.230
Filter ID	N/A	Train Type	IMP
Train ID	FR-24	Port Length (in)	14.5
Duct Dim (in)	10.20		

Start Time 13:17 Stop Time 15:39

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH <sub>2</sub> O)	Orifice Setting ΔH (inH <sub>2</sub> O)	Gas Sample Volume Initial (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)
1-1	10	.64	1.5	318.40	133	250	250	97	110	108	10	N/A
2	20	.63	1.4	326.71	132	249	250	47	112	108	10	
3	30	.34	1.70	333.60	131	250	250	43	113	109	6	
4-1	40	.60	1.4	338.56	131	256	251	45	118	109	11	
2	50	.62	1.4	345.18	132	249	249	46	118	110	11	
3	60	.26	.60	351.40	131	250	251	47	119	110	6	
1-1	70	.62	1.9	355.71	131	250	251	48	120	111	12	
2	80	.67	1.5	362.24	130	251	250	49	121	112	12	
3	90	.40	1.2	368.85	130	250	250	49	120	112	9	
2-1	100	.58	1.3	374.21	130	250	250	50	121	113	11	
2	110	.60	1.4	380.34	130	251	249	51	122	113	12	
3	120	.30	.60	386.86	130	250	250	52	122	113	7	
Total	120	13.583	14.29	391.44	130	250	250	52	122	113	7	
Average	10	7.153	1.41	743.09	130.97	250	250	52	122	113	7	

Notes: STOP VOL 7 319.40  
RESTART VOL 320.80

not bracketed [ ] units  
= gas impingers, knockouts, etc.



AIRTECH ENVIRONMENTAL SERVICES INC.  
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client	Dix Rivers - Henderson Unit		
Plant	Robards, KY		
Location	Stack		
Date	8-2-11	Unit	1
Operator	AL		

Run No.	1		Filter No.	NA	
Method No.	29		Train ID		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	580.5	805.0		
Impinger No. 2	5% 10%	604.7	629.4		
Impinger No. 3	5% 10%	606.0	624.3		
Impinger No. 4	Empty	543.4	553.4		
Impinger No. 5	Silica	855.6	889.1		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2		Filter No.	NA	
Method No.	29		Train ID		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	618.1	835.0		
Impinger No. 2	5% 10%	599.0	625.0		
Impinger No. 3	5% 10%	691.3	704.0		
Impinger No. 4	Empty	639.2	648.5		
Impinger No. 5	Silica	<del>954.8</del> 920.8	954.8		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3		Filter No.	NA	
Method No.	29		Train ID		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	582.6	817.3		
Impinger No. 2	5% 10%	607.5	634.5		
Impinger No. 3	5% 10%	610.0	622.1		
Impinger No. 4	Empty	545.8	550.5		
Impinger No. 5	Silica	839.1	909.8		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Oxygen and Carbon Dioxide Data Sheet

PROJECT NO. 3648

<b>Client</b>	Big Rivers		
<b>Plant</b>	Hendeson Unit 1		
<b>Location</b>	Stack	Train	5B/202
<b>Analyzer Type</b>	Plant CEMS Data	Leak Check	

Run No.	Trial No.	%CO <sub>2W</sub>	%CO <sub>2d</sub>	%O <sub>2</sub>	F <sub>O</sub>	Date	Start Time	Stop Time
1	1				1.16	8/3/2011	7:01	9:16
	2							
	3							
	Average	10.9	13.0	5.83				
2	1				1.17	8/3/2011	10:19	12:51
	2							
	3							
	Average	11.0	13.3	5.37				
3	1				1.16	8/3/2011	13:17	15:39
	2							
	3							
	Average	10.8	13.8	4.89				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							

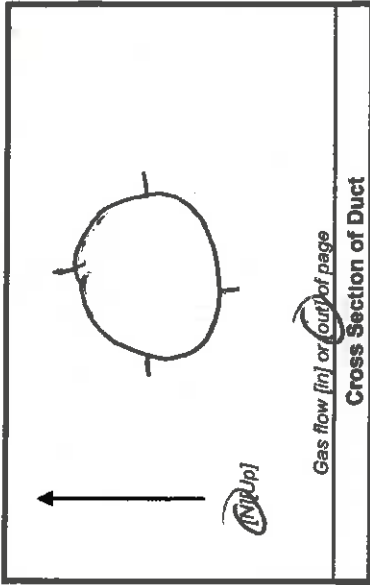
**AIRTECH ENVIRONMENTAL SERVICES INC.**

Method 30B Data Sheet

Run No. 1

Page 1 of 2

Client	BIG RIVERS
Plant	ROBERTS KY
Location	STACK #1
Date	8-3-11
Project No.	3618
Meter Reader	PK



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-10.40
Ambient Temp. (°F)	99
Start Time	0701
Stop Time	0849

**Sample Train A UNSPIKED**

Trap ID	95058	Meter ID	R00078	Yd	1.0072
Pre Leak Check	0.000	ipm @	15	(in. Hg)	
Post Leak Check	0.000	ipm @	6	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	PROBE TEMP Notes
5	.40LPM	1.935	131	97	3	206
10		3.996	131	97	3	189
15		6.176	133	101	3	180
20		7.942	133	102	3	210
25		10.009	133	104	4	207
30		12.056	134	105	4	200
35		14.139	133	107	4	200
40		16.008	133	109	3	197
45		18.169	134	110	3	198
50		20.027	133	113	3	196
55		22.012	133	113	3	198
60		24.026	134	115	3	196
Total		36.033	133.33	109.83		
Average			133.33	109.83		

**Sample Train B SPIKED**

Trap ID	72487	Meter ID	R00078	Yd	1.9985
Pre Leak Check	0.000	ipm @	15	(in. Hg)	
Post Leak Check	0.000	ipm @	5	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	PROBE TEMP Notes
5	.40LPM	1.948	131	96	1	206
10		3.998	131	98	2	189
15		6.094	133	100	2	180
20		8.017	133	103	2	210
25		10.095	133	105	2	207
30		12.094	131	106	2	200
35		14.113	133	108	2	200
40		15.949	133	110	2	197
45		18.161	134	112	2	198
50		19.996	133	115	2	196
55		21.937	133	116	2	198
60		24.007	134	116	2	196
Total		36.052	133.33	109.7		
Average			133.33	109.7		

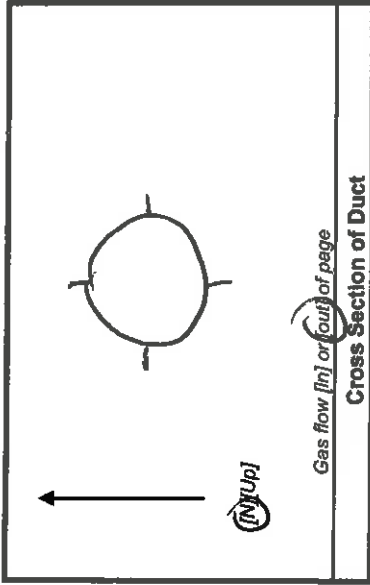
**AIRTECH ENVIRONMENTAL SERVICES INC.**

Method 30B Data Sheet

Run No. 1

Page 2 of 2

Client	BIG RIVERS
Plant	ROBARDS, KY
Location	STACK #1
Date	8-3-11
Project No.	3648
Meter Reader	BK



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-40
Ambient Temp. (°F)	99
Start Time	0701
Stop Time	0849

**Sample Train A UNSPIKED**

Trap ID	95058	Meter ID		Yd	
Pre Leak Check	0.001	ipm @	15	(in. Hg)	
Post Leak Check	0.000	ipm @	60	(in. Hg)	

**Sample Train B SPIKED**

Trap ID	72487	Meter ID		Yd	
Pre Leak Check	0.000	ipm @	15	(in. Hg)	
Post Leak Check	0.000	ipm @	5	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	PROBE TEMP	Notes
5		0.000					
Elapsed Time							
65	.40ipm	26.031	133	115	4	195	
70		28.028	134	116	3	195	
75		30.082	133	117	3	196	
80		32.014	134	118	3	196	
85		34.047	135	119	4	196	
90		36.032	136	119	3	198	
Total						806	
Average						133.33	

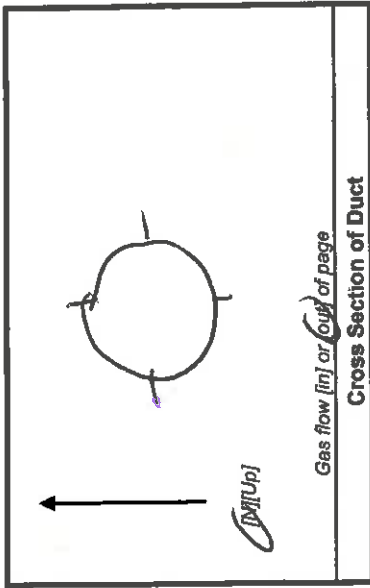
Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	PROBE TEMP	Notes
5		0.000					
Elapsed Time							
65	.40ipm	26.025	133	117	2	195	
70		28.014	134	118	2	195	
75		30.047	133	118	2	196	
80		32.091	134	119	2	196	
85		34.053	135	120	2	194	
90		36.052	136	120	2	198	
Total						806	
Average						133.33	

AIRTECH ENVIRONMENTAL SERVICES INC.  
Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	BIG RIVERS
Plant	ROADS, KY
Location	STACK #1
Date	8-3-11
Project No.	3618
Meter Reader	BK



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-0.40
Ambient Temp. (°F)	102
Start Time	1019
Stop Time	1209

Sample Train A **UNSERVED**

Trap ID	95157	Meter ID		Yd	
Pre Leak Check	0.001	lpm @	15	lpm @	(in. Hg)
Post Leak Check	0.000	lpm @	5	lpm @	(in. Hg)

Sample Train B **SERVED**

Trap ID	72494	Meter ID		Yd	
Pre Leak Check	0.003	lpm @	16	lpm @	(in. Hg)
Post Leak Check	0.001	lpm @	5	lpm @	(in. Hg)

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Meters
5	5	40lpm	2.120	133	103	3	192
	10		4.096	133	102	3	192
	15		5.977	136	107	3	189
	20		8.024	137	107	3	192
	25		10.024	135	107	3	191
	30		12.042	136	109	3	188
	35		14.044	136	111	3	189
	40		16.030	136	112	3	191
	45		18.094	136	114	4	191
	50		20.011	136	116	4	189
	55		22.024	136	117	3	192
	60		24.051	136	119	4	188
Total			36.036	1326	1326		
Average				135.16	114.28		

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Meters
5	5	40lpm	2.096	133	103	2	192
	10		4.111	133	104	2	192
	15		5.981	136	107	2	189
	20		8.106	137	107	2	192
	25		10.072	135	108	2	191
	30		12.052	136	109	2	188
	35		14.010	136	112	2	189
	40		16.094	136	114	2	191
	45		18.031	136	116	2	191
	50		20.016	136	118	2	189
	55		22.059	136	119	2	192
	60		24.044	136	120	2	188
Total			36.084	1326	1337		
Average				135.16	115.33		

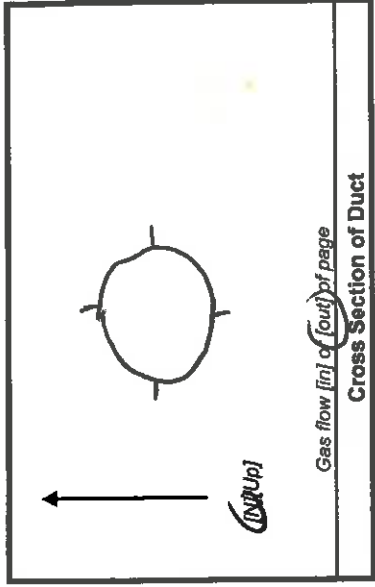
**AIRTECH ENVIRONMENTAL SERVICES INC.**

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	<u>BYE RIVERS</u>
Plant	<u>ROBARDS, KY</u>
Location	<u>STACK #1</u>
Date	<u>8-3-11</u>
Project No.	<u>344B</u>
Meter Reader	<u>BY</u>



Barometric (in. Hg)	<u>29.27</u>
Static (inH <sub>2</sub> O)	<u>-1.40</u>
Ambient Temp. (°F)	<u>102</u>
Start Time	<u>1019</u>
Stop Time	<u>1009</u>

**Sample Train A UNSERVED**

Trap ID	<u>95157</u>	Meter ID		Yd	
Pre Leak Check	<u>0.001</u>	lpm @	<u>16</u>	(in. Hg)	
Post Leak Check	<u>0.000</u>	lpm @	<u>5</u>	(in. Hg)	

**Sample Train B SAVED**

Trap ID	<u>92944</u>	Meter ID		Yd	
Pre Leak Check	<u>0.003</u>	lpm @	<u>16</u>	(in. Hg)	
Post Leak Check	<u>0.001</u>	lpm @	<u>5</u>	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Notes
5		0.000				
65	<u>.40 lpm</u>	<u>26.013</u>	<u>136</u>	<u>120</u>	<u>4</u>	<u>189</u>
70	<u>↓</u>	<u>28.098</u>	<u>136</u>	<u>121</u>	<u>4</u>	<u>189</u>
75	<u>↓</u>	<u>30.094</u>	<u>136</u>	<u>122</u>	<u>4</u>	<u>183</u>
80	<u>↓</u>	<u>32.047</u>	<u>136</u>	<u>122</u>	<u>4</u>	<u>192</u>
85	<u>↓</u>	<u>34.006</u>	<u>136</u>	<u>123</u>	<u>3</u>	<u>192</u>
90	<u>↓</u>	<u>36.036</u>	<u>135</u>	<u>123</u>	<u>4</u>	<u>189</u>
Total		<u>36.036</u>	<u>815</u>	<u>731</u>		
Average						

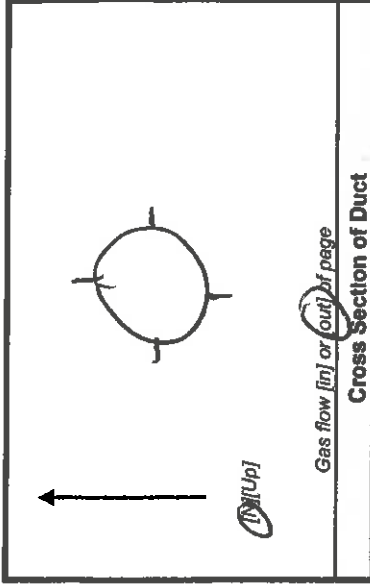
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Notes
5		0.000				
65	<u>.40 lpm</u>	<u>26.009</u>	<u>136</u>	<u>121</u>	<u>2</u>	<u>189</u>
70	<u>↓</u>	<u>28.103</u>	<u>136</u>	<u>123</u>	<u>2</u>	<u>189</u>
75	<u>↓</u>	<u>30.028</u>	<u>136</u>	<u>123</u>	<u>2</u>	<u>188</u>
80	<u>↓</u>	<u>32.072</u>	<u>136</u>	<u>123</u>	<u>2</u>	<u>192</u>
85	<u>↓</u>	<u>34.036</u>	<u>136</u>	<u>124</u>	<u>2</u>	<u>192</u>
90	<u>↓</u>	<u>36.084</u>	<u>135</u>	<u>125</u>	<u>2</u>	<u>189</u>
Total		<u>36.084</u>	<u>815</u>	<u>739</u>		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.  
Method 30B Data Sheet

Run No. 3

Page 1 of 2

Client	BIG RIVERS
Plant	ROBARDS, KY
Location	STACK #1
Date	8-3-11
Project No.	3618
Meter Reader	BK



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-40
Ambient Temp. (°F)	106
Start Time	1317
Stop Time	1504

Sample Train A UNSAVED

Trap ID	9523	Meter ID		Yd	
Pre Leak Check	0.002	lpm @	15	(in. Hg)	
Post Leak Check	0.002	lpm @	8	(in. Hg)	

Sample Train B SAVED

Trap ID	7245	Meter ID		Yd	
Pre Leak Check	0.007	lpm @	14	(in. Hg)	
Post Leak Check	0.002	lpm @	7	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Notes
5	5	40lpm	2.025	136	109	3	195
10	10	↓	4.067	136	109	4	190
15	15	↓	6.032	136	109	3	192
20	20	↓	8.043	136	110	4	192
25	25	↓	9.993	136	112	4	190
30	30	↓	12.009	137	113	4	191
35	35	↓	14.022	135	113	3	190
40	40	↓	16.026	136	117	4	192
45	45	↓	18.067	136	118	3	190
50	50	↓	20.037	137	119	3	191
55	55	↓	22.041	137	120	3	191
60	60	↓	24.083	137	120	4	190
Total			(31.088)	136.35	131		
Average				136.28	116.67		

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Notes
5	5	40lpm	2.004	136	109	2	195
10	10	↓	4.011	136	109	2	190
15	15	↓	6.059	136	109	2	192
20	20	↓	8.036	136	111	2	192
25	25	↓	10.057	136	113	2	190
30	30	↓	12.062	137	114	2	191
35	35	↓	14.041	135	117	2	190
40	40	↓	16.069	136	118	2	192
45	45	↓	18.081	136	120	2	190
50	50	↓	20.062	137	121	2	191
55	55	↓	22.055	137	121	2	191
60	60	↓	24.071	137	121	2	190
Total			(36.043)	136.38	138.3		
Average				136.28	117.72		

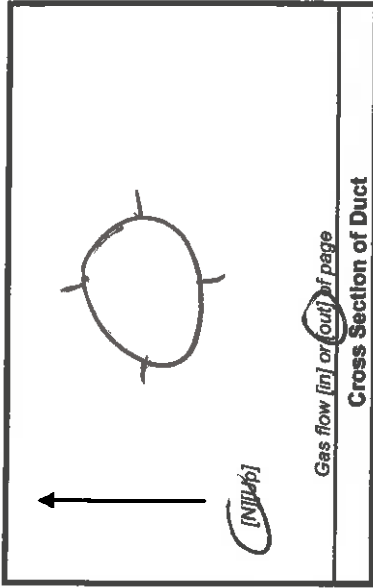
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	BIG RIVERS
Plant	ROBARDS, KY
Location	STACK #1
Date	8-3-11
Project No.	3618
Meter Reader	BK



Barometric (in. Hg)	29.27
Static (inH <sub>2</sub> O)	-40
Ambient Temp. (°F)	106
Start Time	1317
Stop Time	1504

Sample Train A UNSAVED

Trap ID	95223	Meter ID		Yd	
Pre Leak Check	0.002	lpm @	15	(in. Hg)	
Post Leak Check	0.002	lpm @	8	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Notes
5	65	40 lpm	26.051	126	121	3	191
	70		28.071	137	121	4	189
	75		20.051	137	121	4	191
	80		32.043	136	122	4	191
	85		31.067	136	122	4	192
	90		36.080	136	122	4	189
Total			36.080	818	729		
Average				136.28			

Sample Train B SAVED

Trap ID	72415	Meter ID		Yd	
Pre Leak Check	0.007	lpm @	16	(in. Hg)	
Post Leak Check	0.002	lpm @	7	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Probe Temp Notes
5	65	40 lpm	26.103	136	122	2	191
	70		28.113	137	122	2	189
	75		30.096	137	123	2	191
	80		32.081	136	123	2	191
	85		31.055	136	123	2	192
	90		36.013	136	123	2	189
Total				818	736		
Average				136.28			