

Field Data

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 1

TESTING TYPE: HC

METHOD NO. 26A

Page 1 of 3

Client	B's Piers	
Plant	Robards, NY	
Location	Unit 2 inlet A	
Date	7/21/11	Project No. 3648
Meter Operator	DL	
Probe Operator	DG	
Meter ID	M-17	Yd 1.0141
ΔH@	1.772	Kf 3.88
Pre Leak Check	200	[cfm] [ppm] @ 15
Post Leak Check	200	[cfm] [ppm] @ 15

Barometric (inHg)	29.56	Water (mil) [g]	
Ambient Temp (°F)	69	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vic	
Probe ID	RES-4-4	Liner Type	TFE
Nozzle ID	1233	Nozzle Dia (in)	3/8
Filter ID		Train Type	Smp
Train ID	DS	Port Length (in)	36"
Duct Dim. (in)	3.6" x 6"		



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

Start Time	7:15	Stop Time	9:24
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Traverse Point	Min/Point	Elapsed Time	Velocity Pressure		Critice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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 ₂ O)	Pressure											
1-1	5	1:49	1.9	31.25	1.9	636.44	310	240	250	57	92	69	28		
2	10	2:41	1.6	640.01	1.6	640.01	312	240	250	57	93	69	28		
3	15	3:33	1.5	688.34	1.5	688.34	313	240	250	56	92	69	28		
4	20	4:25	1.3	686.72	1.3	686.72	332	252	250	56	94	90	28		
5	25	5:17	1.2	689.40	1.2	689.40	328	250	250	56	94	90	28		
6	30	6:09	1.2	692.33	1.2	692.33	338	250	251	56	101	91	28		
7	35	7:01	1.2	694.99	1.2	694.99	337	250	250	56	101	92	28		
8	40	7:53	1.0	697.64	1.0	697.64	330	250	250	57	102	92	28		
9	45	8:45	1.0	699.97	1.0	699.97	325	251	250	54	102	92	28		
10	50	9:37	1.0	702.62	1.0	702.62	327	260	250	60	102	93	28		
11	55	10:29	1.2	705.51	1.2	705.51	332	260	250	60	104	93	28		
12	60	11:21	1.2	708.19	1.2	708.19	328	250	250	60	104	93	28		
Total			14.089	30.34		706.31	4635				2683	2410			
Average			5.924	1.168		738.16					87.942				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl

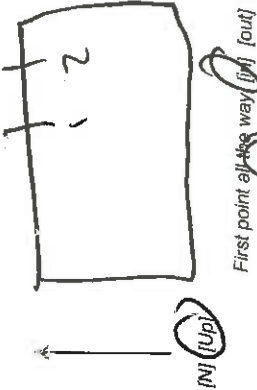
RUN NO. 1

METHOD NO. 26A

Page 2 of 3

Client	Dix Rivers	
Plant	Roberts	
Location	Unit 2 in A	
Date	7/24/11	Project No. 3648
Method Operator	DK	
Probe Operator	DK	
Meter ID	M-1	Pitot Cp 60
ΔH ₂ O	1.772	KF 3.08
Pre Leak Check	.000	[cfm] [ppm] @ 15 (inHg)
Post Leak Check	.000	[cfm] [ppm] @ 15 (inHg)

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	88	Silica gel (g)	
Static (inH ₂ O)	-72	Total Vic	
Probe ID	AR514	Liner Type	TFS
Nozzle ID	1275	Nozzle Dia. (in)	.285
Filter ID			
Train ID	JIS	Train Type	BMC
Duct Dim. (in)	3.6 x 6.6	Port Length (in)	36"



Start Time	7:15	Stop Time	9:24
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Traverse Point	Min/Point	Elapsed Time	Velocity Pressure (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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	53	7.0	1.4	772.57	329	750	250	60	102	93	0		
2-1	5	57	4.9	1.9	711.09	330	250	252	60	102	93	0		
3-1	5	57	4.2	1.6	716.43	322	250	250	60	102	94	0		
4-1	5	58	4.1	1.5	715.85	325	244	250	60	106	94	0		
5-1	5	59	4.1	1.5	722.71	330	244	250	60	106	94	0		
6-1	5	59	4.2	1.7	725.80	330	250	250	60	106	94	0		
7-1	5	59	4.2	1.7	728.43	329	250	250	60	106	94	0		
8-1	5	59	4.2	1.6	731.42	331	250	251	62	106	94	0		
9-1	5	59	4.1	1.4	734.51	331	250	250	62	106	94	0		
10-1	5	59	4.1	1.4	737.46	330	250	250	62	106	94	0		
11-1	5	59	4.1	1.4	740.21	330	250	250	62	106	94	0		
Total			4.1	1.6	737.46	330	250	250	62	106	94	0		
Average			4.1	1.6	737.46	330	250	250	62	106	94	0		

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

METHOD NO. 26A

Page 3 of 3

RUN NO. 1

Client	Bio LIVES		
Plant	20200201		
Location	unit 2 intake A		
Date	7/19/11	Project No.	3646
Meter Operator	DL		
Probe Operator	DL		
Meter ID	M-1X	Yd	1.014
ΔH@	1.3PL	Kf	3.660
Pre Leak Check	0.00	[cfm] [lpm] @	15 (inHg)
Post Leak Check	0.00	[cfm] [lpm] @	15 (inHg)

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	68	Silica gel (g)	
Static (inH ₂ O)	-12	Total Vic	
Probe ID	HE5-124	Line Type	TFE
Nozzle ID	1275	Nozzle Dia (in)	0.25
Filter ID	-	Train Type	DMP
Train ID	TB	Port Length (in)	36
Duct Dim. (in)	36x46		

First point all the way [in] [out]

Gas flow [in] [out] of page

Start Time	7:15	Stop Time	9:24
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Traverse Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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
21	1:55	24	92	746.55	320	250	250	63	102	95	6		
15	1:30	21	92	746.46	320	250	250	63	102	95	6		
<div style="text-align: right;"> <p>2685 7416</p> <p>67494</p> </div>													
Total		14.1048	303X	76.7	9535								
Average		1.5404	1.108		9535								

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: FKG

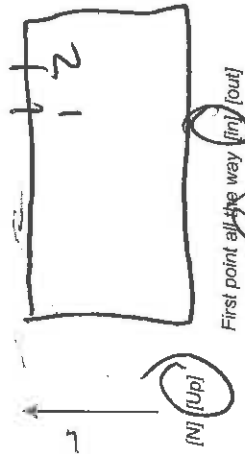
RUN NO. 2

METHOD NO. 26A

Page 1 of 3

Client	DIA R.V.R.S	
Plant	Petersburg	
Location	Unit 2 Inlet A	
Date	7/17/11	Project No. 2648
Meter Operator	JL	
Probe Operator	NO	
Meter ID	M-11	Yd 1,0191
ΔH@	7.772	Kf 7.785
Pre Leak Check	-0.00	[cfm] [lpm] @ 15 [inHg]
Post Leak Check	0.02	[cfm] [lpm] @ 12 [inHg]

Barometric (inHg)	27.56	Water [ml] [g]	
Ambient Temp (°F)	96	Silica gel (g)	
Static (inH ₂ O)	-12	Total Vlc	
Probe ID	AES-12-4	Liner Type	TPE
Nozzle ID	1745	Nozzle Dia (in)	.235
Filter ID	-	Train Type	JAP
Train ID	1824	Port Length (in)	
Duct Dim. (in)	6.6" x 3.6"		



Start Time	9:48	Stop Time	10:39
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Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Crifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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	5		.45	1.0	751.1	334	240	250	58	104	98	9		
2	10		.43	1.0	755.18	336	250	260	66	106	98	9		
3	15		.30	1.4	762.4	336	250	250	57	104	98	8		
4	20		.35	1.3	765.33	337	250	260	57	104	98	8		
5	25		.27	1.0	768.71	332	251	250	61	106	97	8		
6	30		.30	1.1	771.49	331	250	250	57	106	97	8		
7	35		.35	.93	775.19	336	250	252	59	104	97	8		
8	40		.26	.97	777.72	335	250	240	60	106	97	8		
9	45		.14	.67	780.04	337	250	250	60	106	97	8		
10	50		.20	.97	782.70	337	252	261	60	109	100	8		
11	55		.20	1.1	785.51	340	249	260	60	109	100	8		
12	60		.25	.97	788.12	332	240	260	60	109	100	8		
Total			14.001	28.97	86.60	340				2524	9608			
Average			.5406	1.114		332.62				104.574				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 2

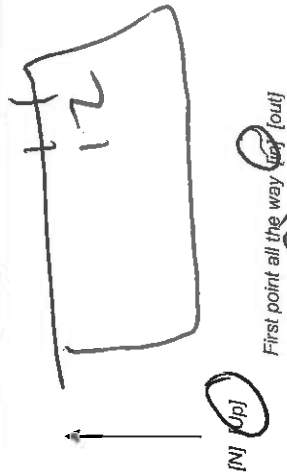
TESTING TYPE: Hel

METHOD NO. 26A

Page 3 of 3

Client	Bios Rivers		
Plant	Roads 14		
Location	Wind Inlet A		
Date	7/24/11	Project No.	3646
Meter Operator	ML		
Probe Operator	DO		
Meter ID	M-17	Yd	1014
ΔH@	1.372	Kf	3.33
Pre Leak Check	500	[cfm] [ipm] @	15 [inHg]
Post Leak Check		[cfm] [ipm] @	

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	46	Silica gel (g)	
Static (inH ₂ O)	-12	Total Vlc	
Probe ID	AB5-R-4	Linet Type	TFE
Nozzle ID	275	Nozzle Dia (in)	.75
Filter ID	-		
Train ID	DB24	Train Type	TAP
Duct Dim: (in)	13.6" x 6.6"	Port Length: (in)	36"



Start Time	9:48	Stop Time	12:01
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Traverse Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Crifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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																											
														Time	ΔP	ΔH	Initial [ft ³] [l]	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)	Temp (°F)																
1-1	1:5	.23	.40	75.11	323	250	250	52	110	102	7																													
1-2	1:30	.21	.70	85.54	324	250	250	62	110	102	6																													
<table border="1"> <tr> <td>Total</td> <td></td> <td></td> <td></td> <td>76.97</td> <td>350</td> <td></td> <td></td> <td></td> <td>288</td> <td>268</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Average</td> <td></td> <td></td> <td></td> <td>76.97</td> <td>350</td> <td></td> <td></td> <td></td> <td>101</td> <td>104.537</td> <td></td> <td></td> <td></td> </tr> </table>													Total				76.97	350				288	268				Average				76.97	350				101	104.537			
Total				76.97	350				288	268																														
Average				76.97	350				101	104.537																														

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

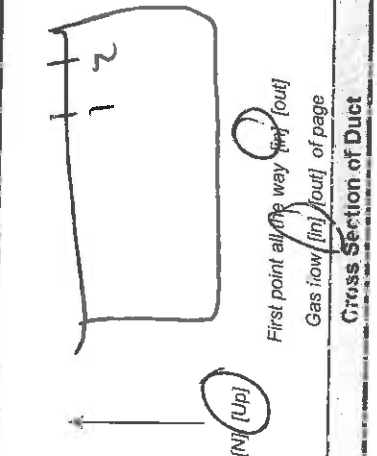
TESTING TYPE: HCl

RUN NO. 3

METHOD NO. 26A

Page 1 of 3

Client	Big Rivers	
Plant	Robards Mill	
Location	Unit 2, West	
Date	7/11/11	Project No. 2646
Meter Operator	ML	
Probe Operator	DG	
Meter ID	M-H	Pilot Cp .84 ✓
ΔHigh	1.22	Leak check
Pre Leak Check	0.00 [cfm] [lpm] @	15 [inHg]
Post Leak Check	0.00 [cfm] [lpm] @	15 [inHg]



Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	105	Silica gel (g)	
Static (inH ₂ O)	-1.2	Total Vic	
Probe ID	AES-12-A	Liner Type	TFE
Nozzle ID	.275	Nozzle Dia (in)	.375
Filter ID		Train Type	Imp
Train ID	DG	Port Length (in)	Imp 36" ML
Duct Dim. (in)	13.6 x 6.6		

Start Time	12:12	Stop Time	12:59
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Traverse Point	Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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	.41	1.6	831.90	336	250	250	59	111	103	9		
2	10	.42	1.6	836.81	334	250	250	59	113	103	6		
3	15	.36	1.4	846.13	331	250	250	59	113	103	7		
4	20	.31	1.2	845.16	332	252	251	59	114	103	6		
5	25	.29	1.1	846.05	332	250	250	59	114	103	6		
6	30	.26	1.1	850.89	331	250	250	60	114	104	6		
7	35	.25	1.0	853.90	334	250	250	60	114	104	6		
8	40	.23	1.0	856.04	335	250	250	60	114	104	5		
9	45	.19	1.1	858.29	331	250	260	60	114	105	5		
10	50	.24	1.0	860.50	329	200	250	60	115	105	5		
11	55	.22	1.1	863.63	326	250	250	60	115	106	5		
12	60	.25	1.1	866.76	325	250	251	60	115	106	5		
Total		14.016	25.84	73.9	1159				2976	2754			
Average		.538	1.17		372.08				109	106			

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

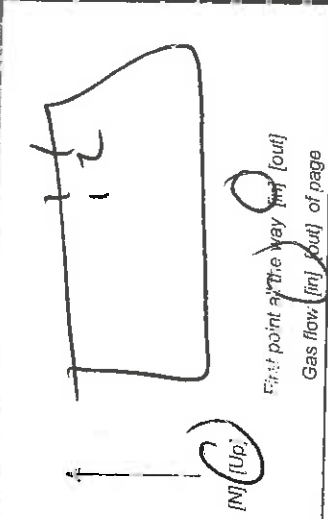
TESTING TYPE: HCl

METHOD NO. 26A

RUN NO. 3

Page 2 of 3

Client	P.S. Burns	
Plant	Coburns, NY	
Location	Unit 2, Ind. A	
Date	7/11/11	
Meter Operator	MC	
Probe Operator	DO	
Meter ID	MT	1.0141
ΔH@	1.72	3.76
Pre Leak Check	000	[cfm] [ppm] @
Post Leak Check	000	[cfm] [ppm] @
Pilot Cp	0.4	(inHg)
Leak check		(inHg)



Barometric (inHg)	25.56	Water [ml] [g]	
Ambient Temp (°F)	106	Silica gel (g)	
Static (inH ₂ O)	-12	Total Vlc	
Probe ID	AE5120	Liner Type	TPE
Nozzle ID	1275	Nozzle Dia (in)	1.75
Filter ID		Train Type	DMF
Duct Dim. (in)	3.6" x 6.6"	Port Length (in)	36"

Start Time	1:27	Stop Time	14:38
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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
1-13	65	2.0	1.5	831.90	329	230	250	60	115	100	5		
2-1	70	1.7	1.4	822.32	330	250	250	61	115	106	10		
2	75	1.5	1.6	875.81	324	250	250	61	115	106	9		
3	80	1.6	1.4	879.06	327	252	252	61	115	106	8		
4	85	1.5	1.3	882.15	330	250	250	61	115	106	7		
5	90	1.7	1.0	864.94	327	249	250	61	115	106	0		
6	95	1.3	1.1	887.77	324	250	250	61	115	106	0		
7	100	1.6	1.4	890.44	321	252	250	62	115	106	6		
8	105	1.6	1.6	893.13	324	250	250	62	115	106	6		
9	110	1.9	1.7	895.35	323	250	250	62	115	106	6		
10	115	1.7	1.6	897.58	321	250	250	62	115	106	6		
11	120	1.9	1.1	900.70	321	250	250	62	115	106	6		
Total		1.016	2.64	77.9	359				206	294			
Average		1.578	1.12	109.88	324.50				109.88	109.88			

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

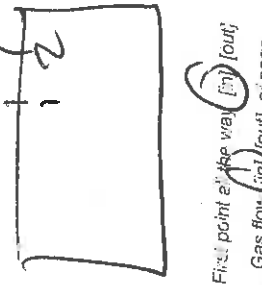
TESTING TYPE: TKL

METHOD NO. 26A

RUN NO. 3

Page 3 of 3

Client	SIB BVERS	
Plant	Coke	
Location	Unit 2 Unit A	
Date	3/21/11	Project No. 3645
Meter Operator	ML	
Probe Operator	DO	
Meter ID	M-17	Yd 1.041
ΔH@	1.772	Kf 3.26
Pre Leak Check	0.00	[cfm] [rpm] @ 15 (inHg)
Post Leak Check	0.00	[cfm] [rpm] @ 15 (inHg)



Traverse Point	(Min/Point) Elapsed Time	Velocity Pressure		Orifice Setting	Gas Sample Volume	Stack Temp	Probe Temp	Filter Temp	Impinger		DGM Inlet Temp	DGM Outlet Temp	Pump Vacuum	Auxiliary Temp	Notes
		ΔF (inH ₂ O)	ΔH (inH ₂ O)						Temp (°F)	Temp (°F)					
2-12	1:25	12.0	0.0	0.0	63.90	319	750	250	62	115	136		0		
13	1:30	12.0	0.0	0.0	905.40	314	240	250	62	115	146		5		
Total		14.016	26.04		73.9	658									629.854
Average		5.760	11.2			316.9									169.854

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Client	Big Rivers - Green Station		
Plant	Robards, KY		
Location	ESP Inlet		
Date	7-28-11	Unit	2A
Operator	AL		

Run No.	Method No.	Train ID	Filter No.	Notes	
Contents	Before (g)	Final (g)	Total (g)		
Run No. 1	26A		NA		
Impinger No. 1	H ₂ SO ₄	704.5	840.1	50	
Impinger No. 2	H ₂ SO ₄	737.3	708.6		
Impinger No. 3	Empty	640.5	634.7		
Imp. No. 4	Silica	894.5	946.3		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

Run No.	Method No.	Train ID	Filter No.	Notes	
Contents	Before (g)	Final (g)	Total (g)		
Run No. 2	26A		NA		
Impinger No. 1	H ₂ SO ₄	639.2	729.2	50	
Impinger No. 2	H ₂ SO ₄	722.5	743.4		
Impinger No. 3	Empty	518.3	533.1		
Impinger No. 4	Silica	937.6	953.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

Run No.	Method No.	Train ID	Filter No.	Notes	
Contents	Before (g)	Final (g)	Total (g)		
Run No. 3	26A		NA		
Impinger No. 1	H ₂ SO ₄	729.1	833.7	50	
Impinger No. 2	H ₂ SO ₄	734.0	765.5		
Impinger No. 3	Empty	637.9	653.5		
Impinger No. 4	Silica	859.9	876.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

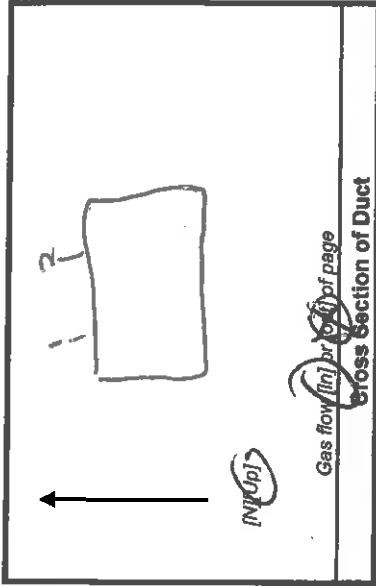
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 1

Page 1 of 2

Client	Big Rivers - Green
Plant	ROBARDS, KY
Location	UNIT 2 - INLET A
Date	7-29-11
Project No.	31018 - Green
Meter Reader	BK



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	88
Start Time	0745
Stop Time	0852

0715

Sample Train A UNSPIKED

Trap ID	95186	Meter ID	A-26	Yd	.9958
Pre Leak Check	0.004	ipm @	15		(in. Hg)
Post Leak Check	0.002	ipm @	7		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Trap Temp Notes
5	.40 LPM	2.132	322	97	2	231
10		3.994	326	97	4	233
15		5.991	327	98	4	232
20		7.919	330	100	4	233
25		10.074	329	103	4	232
30		11.997	329	105	4	233
35		14.041	330	108	4	233
40		16.112	331	111	4	233
45		18.043	330	111	4	232
50		19.989	332	113	4	232
55		22.029	329	114	5	232
60		24.029	330	114	5	233
Total		36.153	329.6	127.2		
Average		369.56	110.20			

Sample Train B SPIKED

Trap ID	95188	Meter ID	A-26	Yd	.9902
Pre Leak Check	0.000	ipm @	15		(in. Hg)
Post Leak Check	0.001	ipm @	6		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Trap Temp Notes
5	.40 LPM	1.981	322	98	2	231
10		3.998	326	97	2	233
15		6.004	327	99	2	232
20		7.934	330	102	2	233
25		9.997	329	106	3	232
30		12.004	329	108	3	233
35		13.982	330	111	3	233
40		16.086	331	112	3	233
45		18.008	330	114	3	233
50		20.087	332	115	3	232
55		22.094	329	117	3	232
60		24.086	330	117	3	233
Total		36.182	329.5	129.6		
Average		329.56	113.20			

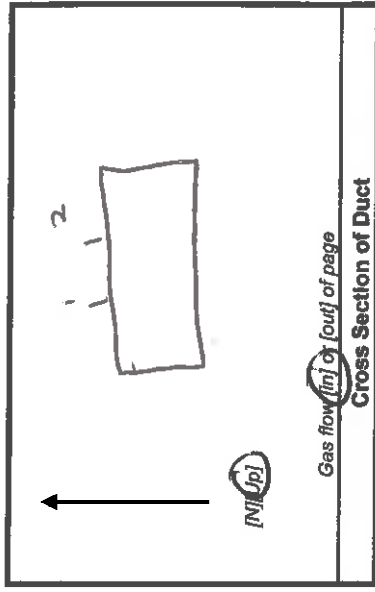
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 1

Page 2 of 2

Client	BIG RIVERS - GREEN
Plant	REWARDS, KY
Location	UNIT 2 - INLET PK ^{ROAD}
Date	7-29-11
Project No.	3418 - GREEN
Meter Reader	BK



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	88
Start Time	0715
Stop Time	0852

Sample Train A UNSPIKED

Trap ID	95186	Meter ID	M-26	Yd	9952
Pre Leak Check	0.004	lpm @	15	(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)	TRAP TEMP Meters		
								5	
65	40 PM	26.037	331	116	5	233			
70		28.023	331	116	5	233			
75		30.058	330	118	5	234			
80		32.040	332	118	5	234			
85		34.019	331	119	5	233			
90		36.155	332	120	5	233			
Total							36.155	1987	707
Average									

Sample Train B SPIKED

Trap ID	95188	Meter ID	M-26	Yd	9903
Pre Leak Check	0.000	lpm @	15	(in. Hg)	
Post Leak Check	0.001	lpm @	6	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Meters		
								5	
65	46 PM	26.153	331	118	3	233			
70		27.997	331	118	3	233			
75		30.133	330	120	3	234			
80		32.031	332	121	4	234			
85		33.998	331	121	3	233			
90		36.182	332	122	3	233			
Total							36.182	1987	700
Average									

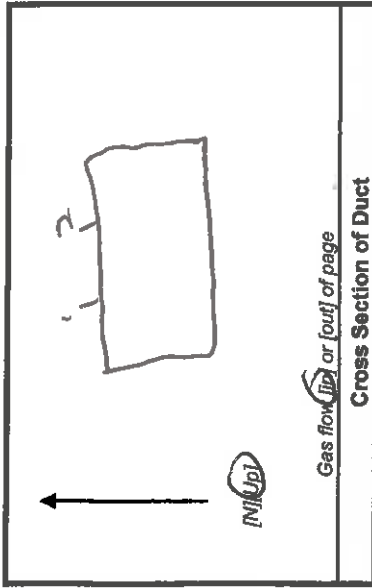
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	BIG RIVERS - Ground
Plant	REARDS, KY
Location	UNIT 2 - INLET
Date	7-29-11
Project No.	3648 - Ground
Meter Reader	BY



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	96
Start Time	0948
Stop Time	1126

Sample Train A UNSAVED

Trap ID	95161	Meter ID	M-26	Yd	15
Pre Leak Check	0.007	lpm @			
Post Leak Check	0.005	lpm @			14

Sample Train B SAVED

Trap ID	95130	Meter ID	M-26	Yd	15
Pre Leak Check	0.005	lpm @			
Post Leak Check	0.001	lpm @			5

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Trap Temp Notes
5	5	40 lpm	2.075	324	106	3	230
	10		3.933	325	107	4	231
	15		6.128	326	106	4	232
	20		8.096	326	107	4	233
	25		10.017	328	109	4	234
	30		12.031	327	110	5	233
	35		14.027	328	112	5	233
	40		16.071	328	114	5	232
	45		18.022	327	116	5	232
	50		19.929	327	117	5	234
	55		22.039	325	118	5	233
	60		24.034	325	118	7	233
Total			36.003	3916	1340		
Average				325.89	116.10		

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Trap Temp Notes
5	5	40 lpm	2.048	324	106	2	230
	10		3.931	325	106	3	231
	15		6.012	326	107	3	233
	20		8.183	326	108	3	233
	25		10.014	328	111	3	234
	30		12.012	327	112	3	233
	35		14.065	328	115	3	233
	40		16.127	328	116	3	232
	45		18.211	327	118	3	233
	50		19.974	327	119	3	234
	55		22.104	325	120	3	233
	60		24.028	325	121	3	233
Total			35.988	3914	1359		
Average				325.89	116.10		

116.10

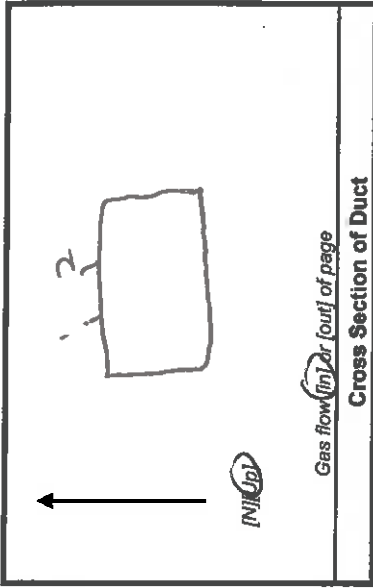
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	PALE RIVERS - GREEN
Plant	ROBERTS, KY
Location	UNIT 2 - INLET # A
Date	7-29-11
Project No.	3618 - GREEN
Meter Reader	SK



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	96
Start Time	0948
Stop Time	1126

Sample Train A UNSPILKED

Trap ID	95161	Meter ID	N-216	Yd	.9958
Pre Leak Check	0.007	lpm @	15	(in. Hg)	
Post Leak Check	0.005	lpm @	14	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes		
								5	
65	25.98	.46LPM	25.98	323	120	7	234		
70	28.016		28.016	325	121	7	233		
75	30.098		30.098	326	122	9	233		
80	32.109		32.109	326	122	9	233		
85	34.008		34.008	325	123	10	233		
90	36.003	↓	36.003	325	123	10	234		
Total							36.003	1950	731
Average									

Sample Train B SPILKED

Trap ID	95130	Meter ID	N-216	Yd	.9902
Pre Leak Check	0.005	lpm @	15	(in. Hg)	
Post Leak Check	0.001	lpm @	5	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes		
								5	
65	26.011	.46LPM	26.011	323	122	3	234		
70	28.116		28.116	325	123	3	233		
75	30.102		30.102	326	123	3	233		
80	32.113		32.113	326	123	3	233		
85	34.002		34.002	325	124	3	233		
90	35.988	↓	35.988	325	124	3	234		
Total							35.988	1950	739
Average									

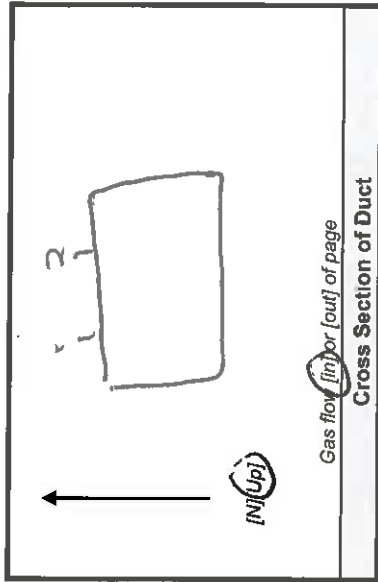
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 1 of 2

Client	BIG RIVERS - Corcoran
Plant	ROBARDS, KY
Location	UNIT 2 - INLET A
Date	7-29-11
Project No.	32618 - Corcoran
Meter Reader	BIL



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-12.0
Ambient Temp (°F)	108
Start Time	1221
Stop Time	1359

Sample Train A Unspiked Trap

Trap ID	95101	Meter ID	M-26	Yd	.9958
Pre Leak Check	0.008	ipm @	17	(in. Hg)	
Post Leak Check	0.003	ipm @	15	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes
5	.40 lpm	2.029	318	111	3	231
10		4.078	324	111	4	231
15		5.984	326	111	4	233
20		8.097	325	111	4	234
25		9.996	325	113	5	233
30		11.993	327	114	5	233
35		13.996	326	116	5	233
40		15.980	326	118	6	232
45		18.018	325	120	6	233
50		20.040	327	121	6	234
55		22.072	327	122	7	233
60		24.008	326	123	7	233
Total		35.997	320.2	121		
Average			325.161	119.22		

Sample Train B Spiked Trap

Trap ID	95135	Meter ID	M-26	Yd	.9903
Pre Leak Check	0.005	ipm @	16	(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)	TRAP TEMP Notes
5	.40 lpm	2.123	318	110	2	231
10		4.133	324	111	2	231
15		5.979	326	112	2	233
20		8.111	325	112	2	234
25		10.033	325	115	3	233
30		12.111	327	116	3	233
35		14.052	326	118	3	233
40		15.991	326	120	3	232
45		18.022	325	121	3	233
50		20.053	327	124	3	234
55		22.011	327	124	3	233
60		23.984	326	126	3	233
Total		36.025	320.2	120.9		
Average			325.61	120.89		

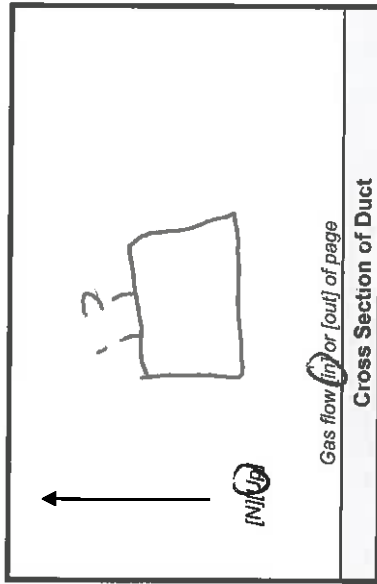
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	Big Rivers - Carbon
Plant	REWARDS, KY
Location	UNIT 2 - INETA
Date	7-29-11
Project No.	3618 - Carbon
Meter Reader	BX



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-12.0
Ambient Temp (°F)	108
Start Time	1221
Stop Time	1359

Sample Train A Unspiked Trap

Trap ID	95101	Meter ID	M-216	Yd	.9958
Pre Leak Check	0.008	lpm @	17	(in. Hg)	
Post Leak Check	0.002	lpm @	15	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Trap Temp Meters
5		0.000				
Elapsed Time						
65	.40 lpm	26.003	326	124	7	233
70		28.051	327	125	7	233
75		30.033	326	124	8	234
80		31.998	327	126	8	234
85		33.989	327	127	8	234
90		35.947	326	127	10	233
Total		35.947	1959	756		
Average						

Sample Train B Spiked Trap

Trap ID	95135	Meter ID	M-216	Yd	.9902
Pre Leak Check	0.005	lpm @	16	(in. Hg)	
Post Leak Check	0.000	lpm @	5	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Trap Temp Meters
5		0.000				
Elapsed Time						
65	.40 lpm	26.011	326	126	3	233
70		28.038	327	127	3	233
75		30.021	326	128	3	234
80		32.039	327	128	3	234
85		34.053	327	129	4	234
90		36.025	326	129	4	233
Total		36.025	1959	767		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

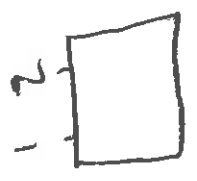
TESTING TYPE: HCL

METHOD NO. 26A

Page 1 of 3

RUN NO. 1

Client	BIG RIVERS		Water (ml) (g)	29.56	
Plant	GARDENS, KY		Silica gel (g)	100PF	
Location	GREEN UNIT 2 INLET 20		Total Vic	-10.5	
Date	07/29/11		Probe ID	AGS-12-3	
Meter Operator	3D		Nozzle ID	.215	
Probe Operator	PC		Filter ID	NA	
Meter ID	M-16	Val	9907	Pilot Cp	.84
Alt@	1.845	Kf	4.10	Leak check	
Pre Leak Check	0.330	(ftm) (ppm) @	26	(inHg)	
Post Leak Check	0.000	(ftm) (ppm) @	15	(inHg)	



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

Barometric (inHg)	29.56	Water (ml) (g)	29.56
Ambient Temp (°F)	100F	Silica gel (g)	100PF
Static (inH ₂ O)	-10.5	Total Vic	-10.5
Probe ID	AGS-12-3	Line Type	TFE
Nozzle ID	.215	Nozzle Dia (in)	.215
Filter ID	NA	Train Type	FMP
Train ID	FB-16	Port Length (in)	162.0"
Duct Dim (in)	162.0"		
Start Time	07:15	Stop Time	8:30

Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting AH (inH ₂ O)	Gas Sample Volume Initial (ft ³) (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	.51	2.1	949.10	261	250	250	46	97	45	11	N/A	
2	.60	2.5	953.08	263	249	252	47	102	98	11		
3	.57	2.3	961.70	264	251	250	48	106	97	11		
4	.51	2.1	965.89	265	250	250	49	108	98	11		
5	.50	1.4	968.98	264	252	250	50	109	99	6		
6	.43	1.2	972.00	265	251	250	51	110	100	9		
7	.22	.62	974.18	264	252	250	52	111	101	6		
8	.25	.71	976.50	263	251	250	53	111	102	6		
9	.28	.79	978.96	262	250	249	54	112	103	7		
10	.24	.68	981.22	265	251	250	55	113	104	7		
11	.23	.65	983.47	263	252	250	56	114	105	6		
12	.25	.71	985.82	264	253	250	57	114	105	7		
Total			11765.77	264.00	251.00	250.00	2941.00	2775.00				
Average			991.2	265.230	250.00	250.00	913.87	110.42	105.42			

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 1

METHOD NO. 26A

Page 2 of 3

Client	BIG RIVERS		Barometric (inHg)	29.56	Water (ml) [g]	
Plant	ROBARDS, KY		Ambient Temp (°F)	100°F	Silica gel (g)	
Location	GREEN UNH INLET 7B		Static (inH ₂ O)	-10.5	Total Vlc	
Date	07/29/11		Probe ID	AES-12-3	Lines Type	TFE
Meter Operator	PC		Nozzle ID	275	Nozzle Dia (mm)	.275
Probe Operator	JD		Filter ID	NK	Train Type	IMP
Meter ID	M-16	Yd	0.9907	IB-ID	162.0"	Port Length (in)
ΔH@	1.845	NF	1.1250			
Pre Leak Check	0.000	(ppm) [ppm] @	20			
Post Leak Check	0.000	(ppm) [ppm] @	15			

Notes: Pilot Cp 84 / Leak check ✓

First point all the way (in) (out) of page

Gas flow (in) (out) of page

Cross Section of Duct

Start Time 07:15 Stop Time 8:30



Min/Point	Velocity Pressure AP (inH ₂ O)	Orifice Setting AF (inH ₂ 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)
5	30	85	944.10	264	250	230	57	116	107	7	N/A
1-1	27	76	987.97	272	257	252	55	117	107	7	
2	40	1.1	990.86	274	253	252	52	118	108	7	
3	42	68	996.07	272	252	250	50	118	109	7	
4	27	59	998.94	273	252	250	49	118	109	7	
5	81	15	1000.36	272	252	250	49	117	109	7	
6	20	68	1002.61	269	252	252	50	117	109	7	
7	21	68	1004.38	268	252	250	50	117	109	7	
8	22	71	1006.98	264	252	250	51	117	110	7	
9	25	71	1009.35	267	253	249	52	117	109	7	
10	28	79	1011.90	260	252	252	53	116	109	7	
11	24	68	1014.20	269	252	252	54	116	109	7	
Total				2725							
Average											

Notes: KF: 2.83, Nozzle: 250

1401 1304

2125

8.2

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

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

TESTING TYPE: HCL

METHOD NO. 26A

Page 3 of 3

RUN NO. 1

Client <u>BIG RIVERS</u>				Barometric (inHg) <u>29.56</u>				Water (in) [g]			
Plant <u>ROBARDS KY</u>				Ambient Temp (°F) <u>100°F</u>				Silica gel (g)			
Location <u>GREEN WATZ INLET 2B</u>				Static (inH ₂ O) <u>-10.5</u>				Total Vic			
Date <u>07/29/11</u>				Project No. <u>3646</u>				Probe ID <u>AES-123</u>			
Meter Operator <u>JD</u>				Pilot Cp <u>.89</u>				Line1 Type <u>TFE</u>			
Probe Operator <u>PC</u>				Leak check <u>✓</u>				Nozzle Dia (in) <u>2AS</u>			
Meter ID <u>M-16</u>		YU		Kf		Train ID <u>FB-16</u>		Filter ID <u>N/A</u>		Train Type <u>IMP</u>	
ΔH@ <u>1845</u>		.000		.000		Duct Dim. (in) <u>162.0"</u>		Port Length (in)			
Pre Leak Check		.000		.000		Start Time <u>07:15</u>		Stop Time <u>8:30</u>			
Post Leak Check		.000		.000		Gross Section of Duct					



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔK (inH ₂ O)	Gas Sample		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vactum (inHg)	Auxiliary Temp (°F)
				Initial	Final								
12	125	.26	.74	949.10	949.10	261	260	250	33	115	108	8	N/A
13	130	.23	.65	1,016.64	1,018.94	260	251	250	56	115	108	7	N/A
Notes: <u>JD</u> <u>KF 2.83</u> <u>NOZZLE .250</u>													
V													
Total													
Average													

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 2

METHOD NO. 26A

Page 1 of 3

Client	BIG RIVERS			Barometric (inHg)	79.56	Water (ml) [g]	
Plant	ROBARDS, KY			Ambient Temp (°F)	103°F	Silica gel (g)	
Location	GREEN UNIT 2 INLET B			Static (inH ₂ O)	-10.5	Total Vic	
Date	07/29/11			Probe ID	AES-12-S	Linelet Type	TFE
Meter Operator	JP			Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	PC			Filter ID	N/A	Train Type	IMP
Meter ID	M-16	Id	9907	Duct Dim. (in)	162.00	Port Length (in)	
ΔH@	1.845	Kf	7.83	Start Time	01:48	Stop Time	11:07
Pre Leak Check	0.000	cfm [lpm] @	19				
Post Leak Check	0.000	cfm [lpm] @	16				



Cross Section of Dust	Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [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	.65	1.8	21.44	265	249	250	46	106	104	9	N/A	
2-1	5	.54	1.7	25.20	267	250	252	47	109	103	9		
2	10	.57	1.6	28.80	268	251	250	48	112	104	9		
3	15	.56	1.6	32.30	268	257	250	49	114	104	10		
4	20	.52	1.5	35.80	270	253	250	50	114	104	10		
5	25	.45	1.3	39.23	267	252	250	51	115	105	10		
6	30	.26	.74	42.40	263	251	250	52	114	105	6		
7	35	.24	.68	44.82	263	250	250	53	117	105	6		
8	40	.27	.68	47.10	267	252	250	54	113	105	6		
9	45	.23	.65	49.53	269	253	250	55	112	104	6		
10	50	.23	.65	51.81	267	252	250	56	111	104	6		
11	55	.25	.71	54.07	266	251	249	57	111	104	6		
12	60			56.41	266	251	249	57	111	104	6		
Total	130			70.46	262.00	251.00	249.00		111.00	104.00	6		
Average	5.0			7.0	262.00	251.00	249.00		111.00	104.00	6		

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCC

RUN NO. 2

METHOD NO. 26A

Page 2 of 3

Client	BIG RIVERS		
Plant	ROBARDS, KY		
Location	GREEN UNIT 2 INLET B		
Date	07/29/11	Project No.	3648
Meter Operator	JD		
Probe Operator	PC		
Meter ID	M-16	Model	9907
ΔH@	1.845	Kf	2.83
Pre Leak Check	0.000	(cfm) (ppm) @	19 (inHg)
Post Leak Check	0.000	(cfm) (ppm) @	16 (inHg)
Barometric (inHg)	29.56	Water (mg) (g)	
Ambient Temp (°F)	103°F	Silica gel (g)	
Static (inH ₂ O)	-10.5	Total Vlc	
Probe ID	AES-12-3	Line Type	TPE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA	Train Type	AMP
Train ID	FB-9	Port Length (in)	
Duct Dim. (in)	182.00"	Start Time	9:48
Stop Time	11:07		

Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume initial (ft ³)	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
2					250	250	57	110	103	7	N/A	
13	.29	.82	58.95	267	251	250	54	111	104	7		
1-1	.45	1.3	62.67	270	250	251	51	113	104	7		
2	.30	.85	67.67	272	252	250	50	113	104	7		
3	.26	.74	70.08	271	253	251	50	113	105	7		
4	.23	.65	72.32	269	252	250	51	113	105	7		
5	.25	.71	74.68	264	251	249	52	112	105	7		
6	.27	.76	77.10	262	252	250	53	111	104	7		
7	.29	.82	79.65	263	251	250	54	111	104	7		
8	.30	.85	82.23	264	252	250	55	111	104	7		
9	.25	.71	84.58	263	252	250	56	111	104	7		
10	.27	.76	87.04	262	251	250	57	111	104	7		
11												
Total	130											
Average	5.0											

10.17 3194 1227 1250

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 2

METHOD NO. 26A

Client	BIG RIVERS											
Plant	ROSBARDS, IN											
Location	GREEN UNIT 2 INLET B											
Date	07/29/11 Project No. 3642B											
Meter Operator	JD											
Probe Operator	PC											
Meter ID	M-16	Yd	9907	Pilot Cp	84							
ΔH@	1.845	Kf	2.83	Leak check	<input checked="" type="checkbox"/>							
Pre Leak Check	0.000	[cfm]	[ppm]	@	19	(inHg)						
Post Leak Check	0.000	[cfm]	[ppm]	@	16	(inHg)						

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Gas flow [in] [out] of page

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³]	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
12	125	.29	.82	21.44	265	250	250	57	112	104	7	N/A	
13	130	.24	.68	29.58	263	250	250	58	112	104	6	N/A	
Total													
Average													

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

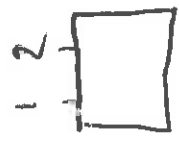
TESTING TYPE: HCL

RUN NO. 3

METHOD NO. 26A

Page 1 of 3

Client	BIG RIVERS		Water (ml) (g)	29.56
Plant	ROBARDS, KY		Ambient Temp (°F)	103°F
Location	GREEN UNIT 2 INLET B		Static (inH ₂ O)	-10.5
Date	07/29/11		Probe ID	AES-12-3
Meter Operator	SD		Nozzle ID	.250
Probe Operator	PC		Filter ID	N/A
Meter ID	M-16	yd	Train ID	IT-10
ΔH@	1.845	KF	Duct Dim. (in)	162.00"
Pre Leak Check	0.000	cfm [lpm] @	Start Time	12:25
Post Leak Check	0.000	cfm [lpm] @	Stop Time	14:36



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

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting AF (inH ₂ O)	Gas Sample Volume Initial (ft ³)	3stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger		DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
								Outlet Temp (°F)	Inlet Temp (°F)					
1	5	.69	1.8	94.58	260	251	252	45	102	99	88	N/A		
2	10	.61	1.7	101.80	264	250	249	46	106	100	88			
3	15	.56	1.6	105.31	263	251	250	47	109	100	9			
4	20	.50	1.4	108.64	265	256	250	48	111	101	9			
5	25	.52	1.5	112.01	265	254	251	49	112	101	10			
6	30	.45	1.3	115.20	262	253	250	50	112	102	9			
7	35	.35	.99	118.01	260	252	250	51	111	102	9			
8	40	.33	.93	120.70	258	250	249	51	109	101	8			
9	45	.30	.85	123.23	257	251	250	53	108	100	7			
10	50	.26	.74	125.59	259	252	250	54	107	100	7			
11	55	.25	.71	127.96	260	257	249	55	107	100	7			
12	60	.28	.79	130.33	261	252	250	56	107	100	7			
Total	130		210.1	1533.00					2845.00	2645.00				
Average	5.0		14.51	126.75					237.08	219.58				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

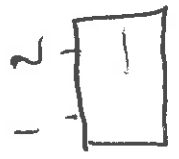
TESTING TYPE: HCL

RUN NO. 3

METHOD NO. 26A

Page 2 of 3

Client	BIG RIVERS		Water (ml) [g]	29.56
Plant	ROBARDS, KY		Silica gel (g)	103F
Location	GREEN UNIT 2 INLET B		Total Vlc	-10.5
Date	07/29/11	Project No. 3648	Probe ID	ACS-123
Meter Operator	JD		Nozzle Dia (in)	.250
Probe Operator	PC		Filter ID	FB-10
Meter ID	M-16	yd	Train ID	162.00"
ΔH@	1.845	in	Duct Dim. (in)	
Pre Leak Check	0.000	CFM [ppm] @	Start Time	12.25
Post Leak Check		(cm) [ppm] @	Stop Time	
		Pilot Cp		
		Leak check		
		Leak check		



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Gas flow [in] (in) of page

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [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	65	.33	.93	133.04	260	251	249	57	108	100	8	N/A	
2	76	.41	1.2	135.96	261	249	251	58	109	101	10		
3	75	.51	1.4	139.17	267	250	250	58	111	102	11		
4	80	.40	1.1	142.04	270	251	250	56	112	103	10		
5	85	.30	.85	144.57	272	252	250	54	112	103	10		
6	90	.26	.74	146.97	272	253	250	54	112	104	10		
7	95	.28	.79	149.37	269	252	250	55	112	104	10		
8	100	.23	.65	151.60	268	251	250	56	110	103	10		
9	105	.26	.74	153.96	265	250	249	57	109	103	10		
10	110	.29	.82	156.46	265	252	250	58	110	103	10		
11	115	.24	.68	158.72	264	252	251	58	110	104	10		
11	120	.26	.74	161.09	263	251	250	59	109	103	10		
Total	130												
Average	5.0												

1324 1233

3194

10.64

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

AIRTECH ENVIRONMENTAL SERVICES INC.

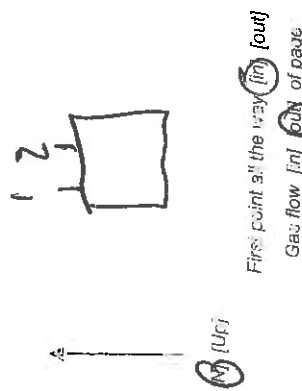
General Testing Data Sheet

RUM NO. 3 Page 3 of 3

TESTING TYPE: HCC

METHOD NO. Z6A

Client <u>BIG RIVERS</u>		Barometric (inHg) <u>29.56</u>		Water (mil) [g]	
Plant <u>GREEN ROBARDS KY</u>		Ambient Temp (°F) <u>103°F</u>		Silica gel (g)	
Location <u>GREEN UNIT 2 INLET B</u>		Stant (inH ₂ O) <u>-10.5</u>		Total Vic	
Date <u>07/29/11</u>		Project No. <u>3248</u>		Line Type	
Meter Operator <u>JD</u>		Probe ID <u>AGS-12-3</u>		Nozzle Dia (in)	
Probe Operator <u>JD</u>		Nozzle ID <u>.250</u>		Filter ID	
Meter ID <u>M-16</u>	Yd <u>.9907</u>	Pilot Cp <u>84</u>	Train ID <u>IB-10</u>	Train Type	
ΔH@ <u>1.845</u>	Kr <u>2.88</u>	Leak check	Duct Dim. (in) <u>162.00"</u>	Port Length (in)	
Pre Leak Check <u>0.000</u>	(cfm) [rpm] @ <u>19</u>	(inHg)	Start Time <u>12:25</u>	Stop Time <u>14:36</u>	
Post Leak Check	(cfm) [rpm] @	(inHg)	Cross Section of Duct		



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔF (inH ₂ O)	Gas Sample Volume		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Temp (°F)		DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
				Initial [l]	[l]				Outlet Temp (°F)	Inlet Temp (°F)					
12	125	.25	.71	94.58	163.41	263	250	250	59	109	103	8	N/A		
13	130	.23	.65	105.65	262	250	251	249	60	109	103	8			
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 - Green Station		
Plant	Robards, KY		
Location	ESP Inlet		
Date	7-28-11	Unit	2B
Operator	AL		

Run No.	Method No.	Train ID	Filter No.	Notes
1	26A			NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)
Impinger No. 1	H ₂ SO ₄	722.0	790.3	-50
Impinger No. 2	H ₂ SO ₄	719.1	754.0	
Impinger No. 3	Empty	620.0	654.5	
Impinger No. 4	Silica	925.8	922.8	
Impinger No. 5				
Impinger No. 6				
Impinger No. 7				
Additional Rinse				
			Net Weight (g)	

Run No.	Method No.	Train ID	Filter No.	Notes
2	26A			NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)
Impinger No. 1	H ₂ SO ₄	662.7	804.2	-50
Impinger No. 2	H ₂ SO ₄	695.6	716.5	
Impinger No. 3	Empty	608.2	616.4	
Impinger No. 4	Silica	899.4	913.4	
Impinger No. 5				
Impinger No. 6				
Impinger No. 7				
Additional Rinse				
			Net Weight (g)	

Run No.	Method No.	Train ID	Filter No.	Notes
3	26A			NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)
Impinger No. 1	H ₂ SO ₄	711.5	795.2	-50
Impinger No. 2	H ₂ SO ₄	736.7	743.1	
Impinger No. 3	Empty	640.8	645.2	
Impinger No. 4	Silica	922.8	940.0	
Impinger No. 5				
Impinger No. 6				
Impinger No. 7				
Additional Rinse				
			Net Weight (g)	

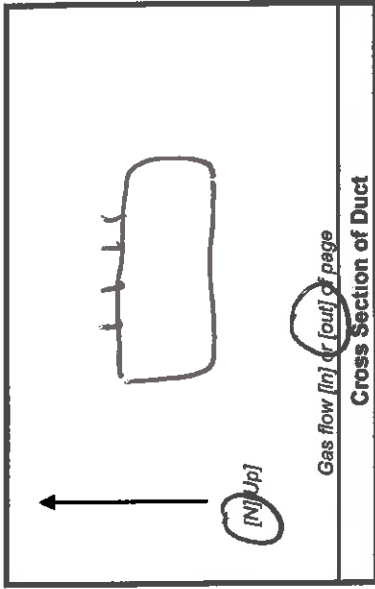
AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 1 Green unit 2 Inlet B

Client	<u>Big Rivers</u>
Plant	<u>Roberts Ky</u>
Location	<u>Green unit 2 Inlet B</u>
Date	<u>7-27-11</u>
Project No.	<u>3646</u>
Meter Reader	<u>CS</u>

Page 1 of 2

Barometric (in. Hg)	<u>29.58</u>
Static (inH ₂ O)	<u>-10.5</u>
Ambient Temp. (°F)	<u>100</u>
Start Time	<u>7:05</u>
Stop Time	<u>8:48</u>



Sample Train A Realty 1.0072 OB

Trap ID	<u>95165</u>	Meter ID	<u>2-20078</u>	Yd	<u>1.00 B</u>
Pre Leak Check	<u>000</u>	lpm @	<u>16</u>	(in. Hg)	
Post Leak Check	<u>000</u>	lpm @	<u>13</u>	(in. Hg)	

Sample Train B .9985

Trap ID	<u>95171</u>	Meter ID	<u>2-20078</u>	Yd	<u>1.00 B</u>
Pre Leak Check	<u>1000</u>	lpm @	<u>15</u>	(in. Hg)	
Post Leak Check	<u>1000</u>	lpm @	<u>15</u>	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	2.16	300	100	5	230
10	.4	4.21	300	103	5	230
15	.4	6.30	300	104	6	234
20	.4	8.42	301	106	6	233
25	.4	10.46	300	112	7	235
30	.4	12.49	300	114	7	237
35	.4	14.51	295	117	7	237
40	.4	16.50	295	119	7	237
45	.4	18.42	295	123	7	238
50	.4	20.32	295	125	8	238
55	.4	22.24	295	127	8	238
60	.4	24.12	295	128	8	238
Total		<u>36.33</u>	<u>295</u>	<u>125</u>		
Average		<u>36.33</u>	<u>295</u>	<u>120.68</u>		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	2.39	300	100	2	232
10	.4	4.29	300	103	2	232
15	.4	6.32	300	104	2	234
20	.4	8.26	300	106	2	235
25	.4	10.28	300	112	2	235
30	.4	12.08	300	114	2	237
35	.4	14.27	295	117	3	237
40	.4	16.30	295	119	3	237
45	.4	18.31	295	123	3	238
50	.4	20.32	295	125	3	238
55	.4	22.26	295	127	3	238
60	.4	24.12	295	128	3	238
Total		<u>36.51</u>	<u>295</u>	<u>125</u>		
Average		<u>36.51</u>	<u>295</u>	<u>120.68</u>		

AIRTECH ENVIRONMENTAL SERVICES INC.

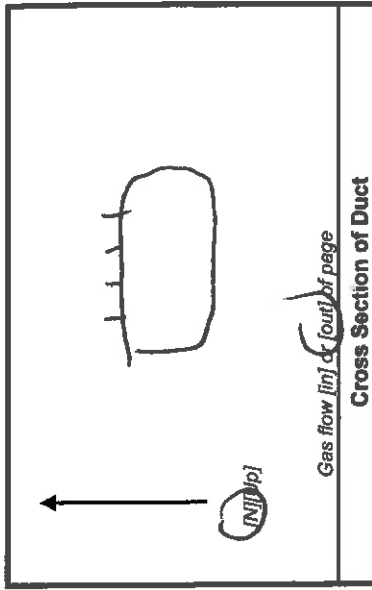
Method 30B Data Sheet

Run No. 1 Green unit @ Inlet B

Client	Big River
Plant	Roberts Ky
Location	Green unit @ Inlet B
Date	7-24-11
Project No.	3648
Meter Reader	C-S

Page 2 of 2

Barometric (in. Hg)	29.56
Static (inH ₂ O)	-10.5
Ambient Temp. (°F)	100
Start Time	7:15
Stop Time	8:46



Sample Train A *Rental*

Trap ID	95165	Meter ID	R-20028	Yd	1000
Pre Leak Check	.000	lpm @	10	(in. Hg)	
Post Leak Check	.000	lpm @	13	(in. Hg)	

Sample Train B

Trap ID	95171	Meter ID	R-20028	Yd	19985
Pre Leak Check	.000	lpm @	15	(in. Hg)	
Post Leak Check	.000	lpm @	15	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes	
								Notes
65	.4	25.80	293	130	8	238	Trap	
70	.4	27.89	293	131	8	239		
75	.4	29.94	293	132	8	239		
80	.4	32.19	293	134	8	240		
85	.4	34.26	293	135	8	240		
90	.4	36.33	293	136	6	240		
Total							1758	
Average							36.33	4394
							296.05	120.80

1557

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes	
								Notes
65	.4	26.0	297	130	3	238	Trap	
70	.4	28.19	293	131	3	239		
75	.4	30.20	293	132	3	239		
80	.4	32.40	293	134	3	240		
85	.4	34.44	293	135	3	240		
90	.4	36.51	293	136	3	240		
Total							1758	
Average							36.51	4350
							296.05	120.80

1378

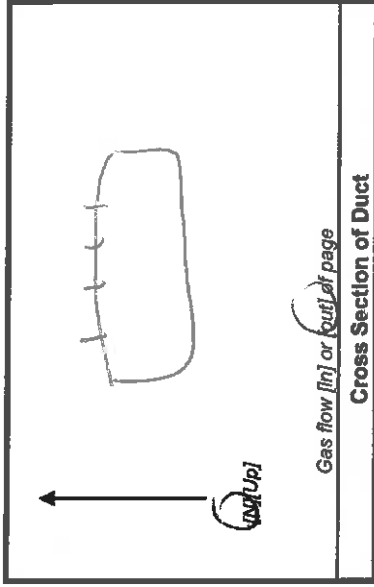
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2 Green unit 2 Inlet B

Client	Big Rivers
Plant	Robins K
Location	Green unit 2 Inlet B
Date	7-29-11
Project No.	3648
Meter Reader	C-S

Barometric (in. Hg)	29.56
Static (inH ₂ O)	-10.5
Ambient Temp. (°F)	103
Start Time	9:48
Stop Time	11:28



Sample Train A

Trap ID	9514	Meter ID	R-20078	Yd	10010
Pre Leak Check	1000	lpm @	16	(in. Hg)	
Post Leak Check	1000	lpm @	14	(in. Hg)	

Rental

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	2.39	274	106	5	227
10	.4	4.15	274	107	5	227
15	.4	6.08	274	109	5	228
20	.4	8.13	274	112	5	228
25	.4	10.08	274	113	6	228
30	.4	12.10	274	115	6	228
35	.4	14.11	274	117	7	220
40	.4	16.14	274	120	7	230
45	.4	18.22	275	121	7	234
50	.4	20.28	275	121	7	234
55	.4	22.35	275	122	7	234
60	.4	24.38	275	123	7	234
Total		264.9	272	1386		
Average		(276.7)	(118.94)			

Sample Train B

Trap ID	95137	Meter ID	R-20078	Yd	9488
Pre Leak Check	1000	lpm @	15	(in. Hg)	
Post Leak Check	1000	lpm @	10	(in. Hg)	

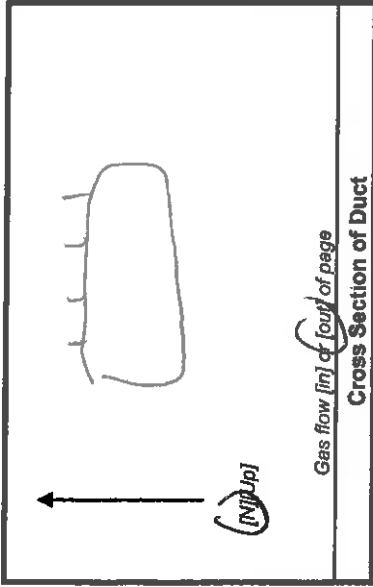
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	1.89	274	106	3	227
10	.4	3.96	274	107	3	227
15	.4	6.09	274	109	3	227
20	.4	8.12	274	112	3	228
25	.4	10.20	274	113	3	228
30	.4	12.42	274	115	3	228
35	.4	14.50	274	117	3	230
40	.4	16.49	274	120	3	230
45	.4	18.45	275	124	3	234
50	.4	20.42	275	124	3	234
55	.4	22.48	275	122	3	234
60	.4	24.54	275	123	3	234
Total		369.8	272	1866		
Average		(276.7)	(118.94)			

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2 Green unit Inlet B

Client	Big Rivers
Plant	Robins Ky
Location	Green unit Inlet B
Date	7-29-11
Project No.	3648
Meter Reader	C.S.



Barometric (in. Hg)	29.56
Static (in. H ₂ O)	-10.3
Ambient Temp. (°F)	103
Start Time	9:48
Stop Time	10:20

11

Permit

Sample Train A

Trap ID	95191	Meter ID	R-20098	Yd	10010
Pre Leak Check	1000	ipm @		16	(in. Hg)
Post Leak Check	1000	ipm @		19	(in. Hg)

Sample Train B

Trap ID	95137	Meter ID	R-20098	Yd	9985
Pre Leak Check	1000	ipm @		15	(in. Hg)
Post Leak Check	1000	ipm @		10	(in. Hg)

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
Elapsed Time						
65	.4	26.42	281	124	7	Temp 236
70	.4	28.43	281	125	7	Temp 237
75	.4	30.44	281	126	7	Temp 237
80	.4	32.45	280	126	8	Temp 238
85	.4	34.46	280	127	8	Temp 238
90	.4	36.47	280	127	8	Temp 238
Total		36.49	1680	285		
Average		276.2	118.19			

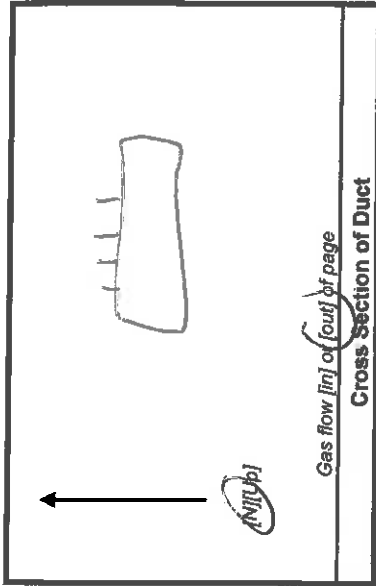
Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
Elapsed Time						
65	.4	26.64	281	124	3	Temp 236
70	.4	28.70	281	125	3	Temp 237
75	.4	30.84	281	126	3	Temp 237
80	.4	32.89	280	126	3	Temp 238
85	.4	35.00	280	127	3	Temp 238
90	.4	36.98	280	127	3	Temp 238
Total		36.98	1680	285		
Average		276.2	118.19			

1386

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 3 Green end 2 Inlets

Client	Big Key
Plant	Roberts Ky
Location	Green end 2 Inlets B
Date	7-29-11
Project No.	3648
Meter Reader	C-S



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-10.5
Ambient Temp. (°F)	103
Start Time	17:35
Stop Time	18:57

Sample Train A

Trap ID	95158	Meter ID	R-20078	Yd	10078
Pre Leak Check		ipm @	1000	ipm @	16
Post Leak Check		ipm @	1000	ipm @	15

Ready

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	5	.4	2.01	274	100	5	Final
10	10	.4	4.06	274	103	6	230
15	15	.4	6.11	274	105	6	230
20	20	.4	8.17	274	106	6	233
25	25	.4	10.30	276	108	6	233
30	30	.4	12.43	276	110	6	233
35	35	.4	14.46	276	112	7	233
40	40	.4	16.50	276	114	7	233
45	45	.4	18.42	276	115	7	236
50	50	.4	20.39	276	116	7	236
55	55	.4	22.44	275	118	7	237
60	60	.4	24.50	275	119	7	237
Total			36.76	3302	1330		
Average				275.11	114.38		

Sample Train B

Trap ID	95139	Meter ID	R-20028	Yd	1978
Pre Leak Check		ipm @	1000	ipm @	16
Post Leak Check		ipm @	1000	ipm @	15

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	5	.4	1.86	274	102	2	230
10	10	.4	4.03	274	103	3	230
15	15	.4	5.98	274	105	3	233
20	20	.4	7.94	274	106	3	233
25	25	.4	10.00	276	108	3	233
30	30	.4	12.02	276	110	3	233
35	35	.4	14.10	276	112	3	233
40	40	.4	16.19	276	114	3	233
45	45	.4	18.17	276	115	3	236
50	50	.4	20.00	276	116	3	236
55	55	.4	22.17	275	118	3	237
60	60	.4	24.12	275	119	3	237
Total			36.47	3300	1308		
Average				275.11	114.30		

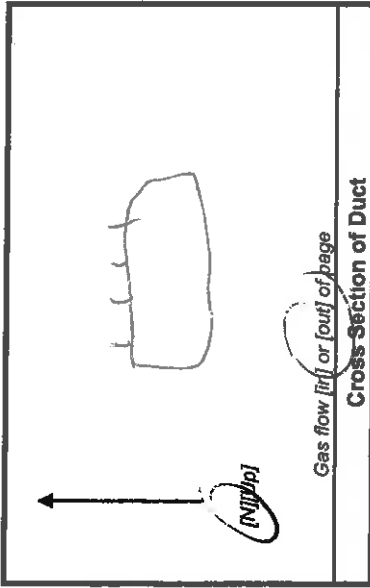
10.00

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3 Green unit 2 Inlet B

Client	Big Rivers
Plant	Roberts Ky
Location	Green unit 2 Inlet B
Date	7-29-11
Project No.	3648
Meter Reader	C.S



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-10.1
Ambient Temp. (°F)	103
Start Time	12:25
Stop Time	13:57

Read

Sample Train A

Trap ID	95157	Meter ID	R-26578	Yd	1092
Pre Leak Check	100	lpm @	10	(in. Hg)	
Post Leak Check	100	lpm @	15	(in. Hg)	

Sample Train B

Trap ID	95139	Meter ID	R-20098	Yd	1985
Pre Leak Check	100	lpm @	10	(in. Hg)	
Post Leak Check	100	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)	Notes	
								Notes
5	65	14	26.54	275	119	7	Flow 238	
	70	14	28.62	275	120	7	238	
	75	14	30.70	275	120	7	239	
	80	14	32.71	275	123	7	239	
	85	14	34.74	275	123	7	240	
	90	14	36.70	275	124	7	240	
Total							36.70	1650
Average							275.11	114.38

3302

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes	
								Notes
5	65	14	26.16	275	119	3	Flow 238	
	70	14	28.19	275	120	3	236	
	75	14	30.28	275	122	3	239	
	80	14	32.24	275	123	3	239	
	85	14	34.21	275	123	3	240	
	90	14	36.17	275	124	3	240	
Total							36.17	1650
Average							275.11	114.38

1300

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

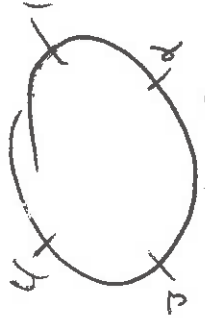
TESTING TYPE: Particulate

RUN NO. 7

METHOD NO. SB/202

Page 1 of 1

Client	Big Rivers	
Plant	Green	
Location	Unit 2 Outlet	
Date	7/29/11	Project No. 3648
Meter Operator	FA	
Probe Operator	JL/BK	1.0034 AS
Meter ID	M-27	Pilot Cp .84
ΔH @ 1000	.90	Leak check -
Pre Leak Check	.000 [ppm] @	15 (inHg)
Post Leak Check	.000 [ppm] @	15 (inHg)



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Gas flow [in] [out] of page

Balonetric (inHg)	25.56	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH ₂ O)	-1	Total Vic	
Probe ID	AFS-6-11	Liner Type	GL-15
Nozzle ID	-19	Nozzle Dia (in)	.184
Filter ID	12170	Train Type	IMP
Train ID	184	Port Length (in)	10
Duct Diam. (in)	180		
Start Time	7:15	Stop Time	9:25

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³)	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	7.5	2.0	1.8	307.90	127	320	320	68	88	88	9	84	
2	15	2.0	1.8	313.27	127	319	321	64	90	86	9	80	
3	22.5	1.8	1.6	318.59	128	316	319	63	94	88	9	75	
1	30	2.0	1.8	323.68	127	320	315	63	95	88	10	75	
2	37.5	2.1	1.9	329.02	128	320	322	64	96	90	12	75	
3	45	2.0	1.8	334.86	128	322	319	64	96	91	12	80	
1	52.5	2.0	1.8	340.12	128	322	317	64	96	92	12	78	
2	60	1.9	1.7	345.72	127	317	317	64	96	93	11	75	
3	67.5	1.7	1.5	350.87	127	324	321	64	95	93	11	78	
1	75	2.0	1.8	355.70	128	318	318	64	94	92	13	75	
2	82.5	1.9	1.7	361.09	128	317	319	63	93	92	13	74	
3	90	1.8	1.6	366.05	128	317	319	63	93	92	13	74	
Total				370.93	128				1102	1084			
Average				(63.03)	1531					(91.9)			

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. 58/20d

Page 1 of 1

Client	Big Rivers		Water [ml] [g]	29.56	
Plant	Green		Silica gel (g)	90	
Location	Outlet Unit A		Total Vc	-.1	
Date	7/29/11	Project No.	3648		
Meter Operator	EA		Probe ID	AES-6-11	
Probe Operator	JL/OK		Nozzle Dia (in)	.19	
Meter ID	M-17	Pilot Cp	1.00346	Filter ID	1217
AH@	1845	Leak check	-	Train ID	EB23
Pre Leak Check	000	(ppm) [ppm] @	13	Duct Dim. (in)	1.90
Post Leak Check	000	(ppm) [ppm] @	13	Start Time	948
				Stop Time	1158



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Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting AH (inH ₂ 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	7.5	2.1	1.9	371.20	128	320	320	64	88	88	9	75	
2	15	2.0	1.8	376.73	129	324	324	64	88	88	9	76	
3	20.5	1.7	1.5	382.05	129	300	300	63	90	87	10	75	
1	30	2.0	1.8	392.85	129	317	315	68	91	88	9	75	
2	37.5	2.0	1.8	397.45	128	329	323	62	92	88	11	75	
3	45	1.8	1.6	401.50	129	317	316	62	92	89	11	79	
1	50.5	2.0	1.8	407.54	128	324	316	62	92	90	12	82	
2	60	2.0	1.8	413.12	129	317	315	62	93	91	12	78	
3	67.5	1.8	1.6	418.30	129	325	315	62	94	90	11	75	
1	75	2.1	1.9	423.58	129	323	314	63	95	91	13	75	
2	82.5	1.8	1.6	429.38	128	305	320	64	93	90	11	76	
3	90	1.8	1.6	433.17	128	320	320	65	93	90	11	76	
Total		16.680	20.20	61.93	129.3				110	107.0			
Average		1.7366	1.7250	128.6					90.5				

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

63
9

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 3

TESTING TYPE: Particulate

METHOD NO. SB/2002

Page 1 of 1

Client	Big Dubs	Barometric (inHg)	29.56
Plant	Green	Ambient Temp (°F)	90
Location	Unit 2 Outlet	Stake (inH ₂ O)	-1
Date	7/29/11	Probe ID	AE5-6-11
Meter Operator	BA	Nozzle Dia (in)	.14
Probe Operator	JL/Bik	Filter ID	12172
Meter ID	M-27	Train ID	F24
ΔH@	1.8	Duct Dim. (in)	180
Pre Leak Check	1000	Start Time	12:35
Post Leak Check	1000	Stop Time	14:35

Water (ml) [g] 9.56
 Silica gel (g) 90
 Total Vc 61.5
 Liner Type 61.5
 Nozzle Dia (in) .14
 Filter ID 12172
 Train Type JAP
 Port Length (in) 10

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 Gas flow (in) of page



Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Crifice Setting ΔH (inH ₂ 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	7.5	7.5	2.0	1.8	433.70	129	310	320	64	92	92	9	83	
2	15	15	2.1	1.9	439.09	129	319	317	64	92	92	10	83	
3	22.5	22.5	1.9	1.7	444.56	128	317	323	64	92	92	11	80	
1	30	30	2.1	1.9	449.85	129	319	322	63	94	93	12	80	
2	37.5	37.5	2.0	1.8	455.39	128	325	322	63	96	93	12	80	
3	45	45	2.0	1.8	460.81	129	320	317	63	96	92	12	80	
1	52.5	52.5	2.0	1.8	466.21	128	327	318	63	96	93	12	78	
2	60	60	2.0	1.8	471.69	128	320	310	63	97	93	12	78	
3	67.5	67.5	1.8	1.6	476.95	128	328	319	63	97	93	12	78	
1	75	75	2.0	1.8	482.20	128	328	320	64	97	94	13	84	
2	82.5	82.5	1.9	1.7	487.27	128	326	322	64	96	94	13	79	
3	90	90	1.8	1.6	492.30	128	320	320	64	97	94	12	77	
Total			10.28	2.20	497.00	128	320	320	64	97	94	12	77	
Average			1.40	1.76	63.30	128	320	320	64	114	116			

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 Green Station		
Plant	Robards, KY		
Location	Common Stack		
Date	7-28-11	Unit	2
Operator	AL		

Run No.	1	Train ID	Filter No.			
Method No.	SB/202	Train ID	Filter No.	12171		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes	
Impinger No. 1	Empty	615.1	816.1			
Impinger No. 2	DI	734.5	704.1			
Impinger No. 3	Empty	623.0	633.2			
Impinger No. 4	Silica	937.0	948.0			
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.	12170		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes	
Impinger No. 1	Empty	551.9	742.2			
Impinger No. 2	DI	736.2	731.5			
Impinger No. 3	Empty	568.5	568.6			
Impinger No. 4	Silica	877.8	894.4			
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.	12172		
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes	
Impinger No. 1	Empty	615.6	708.7			
Impinger No. 2	DI	735.4	889.2			
Impinger No. 3	Empty	627.9	629.1			
Impinger No. 4	Silica	947.8	955.7			
Impinger No. 5						
Impinger No. 6						
Impinger No. 7						
Additional Rinse						
				Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

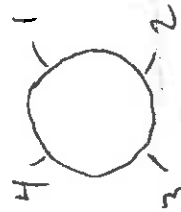
RUN NO. 1

METHOD NO. 26

Page 1 of 1

Client	Big Rivers	
Plant	Henderson	
Location	Outlet #2	
Date	7/28/11	Project No. 3448
Meter Operator	SL	
Probe Operator	SL	
Meter ID	M-28	id
ΔH@	1.8245	KF
Pre Leak Check	0.00	[cfm] [ppm] @ 15 (inHg)
Post Leak Check	0.00	[cfm] [ppm] @ 15 (inHg)

Barometric (inHg)	29.60	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH ₂ O)	-	Total Vic	
Probe ID	AE-5-10-4	Liner Type	01935
Nozzle ID	019	Nozzle Dia (in)	0.194
Filter ID	N/A	Train Type	imp
Train ID	E625	port Length (in)	10.1
Duct Dim. (in)	1.80		



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Gas flow [in] [out] of page

Start Time	2:00	Stop Time	9:35
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Traverse Point	Min/Point ID	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ 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	2.02	2.0	2.0	953.3	130	240	240	50	90	88	9	N/A	
2	20	2.0	2.0	2.4	971.21	130	241	241	50	95	89	9		
3	30	1.3	2.0	1.0	978.41	129	259	241	51	100	92	7		
1	40	2.02	2.0	2.0	987.57	129	243	244	52	103	92	9		
2	50	2.0	2.0	2.4	997.36	130	259	243	54	106	95	9		
3	60	1.4	2.0	1.7	1004.43	130	243	244	55	106	94	7		
1	70	2.02	2.0	2.0	1012.84	129	259	241	56	107	94	9		
2	80	2.0	2.0	2.4	1021.05	130	240	243	57	108	97	9		
3	90	1.4	2.0	1.7	1029.14	130	243	244	58	108	98	7		
1	100	2.01	2.0	2.5	1038.14	129	243	245	59	108	98	9		
2	110	2.0	2.0	2.4	1046.94	130	240	244	60	109	99	9		
3	120	1.5	2.0	1.8	1054.02	129	240	244	61	109	100	9		
Total			10.287	2.07	101.3	1555								
Average			1.3573	2.25		129.583								

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 2

TESTING TYPE: HCL

METHOD NO. 2ce

Page 1 of 1

Client	Big Rivers	
Plant	Henderson	
Location	Outlet #1	
Date	7/28/11	Project No. 3448
Meter Operator	JL	
Probe Operator	JL	
Meter ID	M-28	Pitot Cp .84
ΔH@	1.8295	1.20
Pre Leak Check	0.00	[cfm] [ppm] @ 12 (inHg)
Post Leak Check	0.00	[cfm] [ppm] @ 11 (inHg)



Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH ₂ O)	-0.1	Total Vic	
Probe ID	AE-5-4-4	Liner Type	GLASS
Nozzle ID	019	Nozzle Dia (in)	.194
Filter ID	N/A		
Train ID	A3	Train Type	imp
Duct Dim. (in)	180	Port Length (in)	10.1
Start Time	9:48	Stop Time	12:00

Traverse Point	Min/Point TO	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume initial [ft ³] [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	2.1	2.5	2.5	155.8	129	200	200	50	97	97	9	N/A	
2	20	2.0	2.4	2.4	172.47	129	259	200	51	101	97	9		
3	30	1.5	1.8	1.8	100.18	130	259	203	52	105	97	9		
1	40	2.0	2.4	2.4	89.96	130	203	202	53	106	98	9		
2	50	2.0	2.4	2.4	97.06	130	201	201	54	107	98	9		
3	60	1.0	1.9	1.9	101.14	130	259	203	55	108	99	9		
1	70	2.0	2.4	2.4	113.75	130	243	202	57	109	99	9		
2	80	2.0	2.4	2.4	123.24	130	202	201	58	109	99	9		
3	90	1.3	1.6	1.6	130.47	130	259	203	59	108	100	9		
1	100	2.2	2.0	2.0	139.58	129	202	203	60	109	100	9		
2	110	2.0	2.4	2.4	148.30	130	201	259	62	109	101	9		
3	120	1.5	1.8	1.8	155.91	130	259	259	63	109	101	9		
Total			10.22	20.00	97.09	157				127	118.0			
Average			(1.756)	(2.216)	(79.75)	(102.426)								

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 3

METHOD NO. 26

Page () of ()

Client	Big Rivers		Water [ml] [g]	29.610	
Plant	Henderson		Silica gel (g)	90	
Location	Oxytek #1		Total Vlc	-	
Date	7/28/11	Project No.	3048		
Meter Operator	JK		Probe ID	AES-10-4	
Probe Operator	JK		Nozzle ID	019	
Meter ID	M-28	Yd	0.9976	Filter ID	N/A
ΔH@	1.82A5	Kf	1.020	Train ID	19 25
Pre Leak Check	0.00	[cfm] [ppm] @	1.5	Duct Dim. (in)	180
Post Leak Check	0.00	[cfm] [ppm] @	1.1	Start Time	12:25
				Stop Time	14:15



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ 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
1	10	2.3	2.8	156.19	130	200	200	55	99	98	9	N/A	
2	20	2.0	2.4	165.60	130	245	246	58	105	99	9		
3	30	1.6	1.9	174.45	130	241	241	60	104	99	6		
1	40	2.1	2.5	181.09	130	240	242	60	104	99	9		
2	50	2.0	2.4	190.81	129	243	242	59	109	100	6		
3	60	1.5	1.8	199.31	130	243	242	59	109	101	5		
1	70	2.1	2.5	207.08	129	243	242	59	110	101	9		
2	80	2.0	2.4	216.02	130	243	241	68	111	102	8		
3	90	1.6	1.9	224.74	130	243	259	58	112	102	6		
1	100	2.2	2.6	233.53	130	247	244	59	112	102	9		
2	110	2.0	2.4	241.71	130	242	247	60	113	103	8		
3	120	1.5	1.8	250.54	130	242	240	61	113	103	7		
Total		10.5243	27.40	102.11	1558				1305	1209			
Average		1.3774	2.2833	129.833					(104.75)				

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 - Green Station		
Plant	Robards, KY		
Location	Stack		
Date	7-28-11	Shift	2
Operator	AL		

Run No.	Method No.	Train ID	Filter No.	Notes	
Contents	Tare with Contents (g)	Final (g)	Total (g)		
Impinger No. 1	H ₂ SO ₄	687.2	808.8		
Impinger No. 2	H ₂ SO ₄	695.4	731.8		
Impinger No. 3	Empty	464.8	636.3		
Impinger No. 4	Silica	901.2	915.2		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

Run No.	Method No.	Train ID	Filter No.	Notes	
Contents	Tare with Contents (g)	Final (g)	Total (g)		
Impinger No. 1	H ₂ SO ₄	663.8	887.1		
Impinger No. 2	H ₂ SO ₄	635.5	776.3		
Impinger No. 3	Empty	602.7	489.1		
Impinger No. 4	Silica	885.0	941.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

Run No.	Method No.	Train ID	Filter No.	Notes	
Contents	Tare with Contents (g)	Final (g)	Total (g)		
Impinger No. 1	H ₂ SO ₄	663.9	843.0		
Impinger No. 2	H ₂ SO ₄	637.0	713.0		
Impinger No. 3	Empty	603.5	628.8		
Impinger No. 4	Silica	914.7	936.3		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

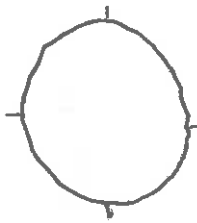
TESTING TYPE: 29 Metals

RUN NO. 1

METHOD NO. 29

Page 1 of 1

Client	<u>Big Rivers</u>		
Plant	<u>Henderson - green</u>		
Location	<u>unit #2 outlet</u>		
Date	<u>7/29/11</u>	Project No.	<u>3648</u>
Meter Operator	<u>BK</u>		
Probe Operator	<u>EG</u>		
Mete. ID	<u>M-20</u>	Yd	<u>.9952</u>
ΔH@	<u>1.785</u>	Kf	<u>.54</u>
Pre Leak Check	<u>.000</u>	[ppm] [lpm] @	<u>15</u> (inHg)
Post Leak Check	<u>0.02</u>	[cfm] [lpm] @	<u>10</u> (inHg)
Pilot Cp	<u>.84</u>		
Leak check	<input checked="" type="checkbox"/>		



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Gas flow: [in] [out] of page

Barometric (inHg)	<u>29.56</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>90</u>	Silica gel (g)	
Static (inH ₂ O)	<u>0</u>	Total Vic	
Probe ID	<u>AE-5-6-2</u>	Line Type	<u>gms</u>
Nozzle ID	<u>1.60</u>	Nozzle Dia (in)	<u>1.60</u>
Filter ID	<u>N/A</u>	Train Type	<u>Imp</u>
Train ID	<u>1B14</u>	Port Length (in)	<u>10.2</u>
Duct Dim. (in)	<u>1.80</u>		

Start Time 07:15 Stop Time 09:35

Cross Section of Duct	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [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
	10	10	2.1	1.1	114.50	127	250	250	57	89	87	5	N/A	
	20	20	2.0	1.1	126.37	128	254	242	57	97	87	5		
	30	30	1.7	.91	131.30	129	253	257	55	99	90	5		
	40	40	2.2	1.1	137.84	128	254	248	55	101	91	5		
	50	50	2.2	1.1	143.92	128	259	251	55	103	93	5		
	60	60	1.8	.97	149.94	128	253	249	56	103	93	5		
	70	70	2.1	1.1	155.96	129	256	250	56	104	94	5		
	80	80	2.1	1.1	161.94	129	253	249	56	104	94	5		
	90	90	1.8	.97	167.60	128	253	251	56	105	95	5		
	100	100	2.3	1.2	173.99	128	253	249	58	104	95	5		
	110	110	2.0	1.1	179.68	128	253	250	58	105	96	5		
	120	120	1.7	.91	185.20	128	253	249	60	105	96	5		
Total			16.94	12.66	70.7	1532	253	251	62	105	96	5		
Average			<u>1.412</u>	<u>1.05</u>		<u>128.16</u>				<u>107.29</u>				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

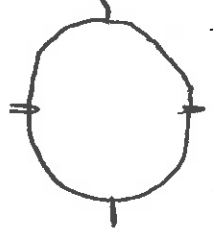
TESTING TYPE: Metals

RUN NO. 2

METHOD NO. 29

Page 1 of 1

Client	Big Rivers		Water [ml] [g]	29.52
Plant	HENDERSON-green		Silica gel (g)	90
Location	mit #2 Outlet		Total Vic	-1
Date	7/29/11	Project No. 3648	Probe ID	AE-S-5-a
Meter Operator	BK		Nozzle ID	1.50
Probe Operator	EG		Filter ID	N/A
Meter ID	M-20	Yd 1.9152	Train ID	IB New
ΔH@	1.785	Kf .54	Duct Dim. (in)	1.80
Pre Leak Check	.000	[ppm] [rpm] @	Start Time	09:48
Post Leak Check	.000	[ppm] [rpm] @	Stop Time	12:08



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Gas flow: [in] [out] of page

Traverse Point	Min/Point ID	Elapsed Time	Velocity		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ml] [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 ₂ O)	Time											
1		10	2.0	2.0	1.1	185.50	128	250	250	62	96	95	5	N/A	
2		20	1.9	1.9	1.0	197.20	128	251	256	58	98	95	5		
3		30	1.7	1.7	0.91	202.71	129	253	250	58	101	95	4		
1		40	2.1	2.1	1.1	208.60	129	253	247	57	103	96	4		
2		50	2.1	2.1	1.1	214.44	129	253	256	56	104	96	5		
3		60	1.6	1.6	0.86	219.85	129	253	247	58	105	97	5		
1		70	2.0	2.0	1.1	226.75	129	253	244	59	106	97	5		
2		80	2.0	2.0	1.1	232.19	129	254	255	56	107	98	5		
3		90	1.7	1.7	0.91	237.55	129	253	251	55	107	98	5		
1		100	2.1	2.1	1.1	243.53	129	253	244	56	107	98	5		
2		110	2.0	2.0	1.1	249.46	129	252	251	59	108	99	5		
3		120	1.7	1.7	0.91	254.95	129	253	254	61	108	99	5		
Total			16.56		12.29	1516					1250	1162			
Average			1.3799		1.027	128.8					(100.5)				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

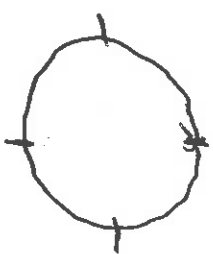
METHOD NO. 29

RUN NO. 3

Page 1 of 1

Client	Big Divers	
Plant	Henderspr-green	
Location	Wair # 2 Outlet	
Date	1/29/11	Project No. 3698
Meter Operator	BK	
Probe Operator	EA	
Meter ID	M-20	Yd 19952
ΔH@	1.785	KF .54
Pre Leak Check	.000	[ppm] [ppm] @ 15 (inHg)
Post Leak Check	.000	[ppm] [ppm] @ 11 (inHg)

Barometric (inHg)	29.5w	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH ₂ O)	-1	Total Vlc	
Probe ID	AE-5-62	Liner Type	9053
Nozzle ID	.160	Nozzle Dia (in)	.160
Filter ID	N/A		
Train ID	IB14	Train Type	IM1
Duct Dim. (in)	1.80	Port Length (in)	10.2



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

Start Time	12:25	Stop Time	14:45
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Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔF (inH ₂ O)	Gas Sample Volume Initial (F) [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
10	10	2.1	1.1	255.20	128	250	250	57	99	98	5	N/A	
20	20	2.1	1.1	267.25	129	255	257	56	102	98	5		
30	30	1.6	.76	272.03	129	250	250	56	105	98	5		
40	40	2.2	1.2	278.80	129	254	251	55	106	99	5		
50	50	2.0	1.1	286.84	129	252	245	55	106	99	5		
60	60	1.9	1.0	290.84	129	253	253	55	107	100	5		
70	70	2.3	1.2	295.99	129	254	250	55	107	100	5		
80	80	2.0	1.1	302.79	129	254	245	56	109	101	5		
90	90	1.7	.91	308.25	129	253	253	56	110	102	5		
100	100	2.2	1.2	314.56	129	253	260	59	109	101	5		
110	110	2.0	1.1	320.58	129	252	247	59	110	102	5		
120	120	1.8	.97	326.31	129	253	254	61	111	102	5		
Total		(16.91)	(2.74)	(77.10)	1547	255	251	63	111	102	5		
Average		(1.249)	(1.07)	(2.07)	(12.74)	(103.66)			(128.6)	(120.2)			

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 2048

Page 1 of 1

Client:	Big Rivers Energy - Green Station		
Plant:	Robards, KY		
Location:	Common Stock		
Date:	7-27-11	Print:	2
Operator:	ML		

Run No.	2	Trail ID	29	Filter No.	NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	657.4	775.6		
Impinger No. 2	5% / 10%	694.1	762.0		
Impinger No. 3	5% / 10%	644.1	675.5		
Impinger No. 4	Empty	635.7	637.6		
Impinger No. 5	Silica	917.4	980.5		980.5
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

Run No.	1	Trail ID	29	Filter No.	NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	624.0	709.1		
Impinger No. 2	5% / 10%	736.8	784.0		
Impinger No. 3	5% / 10%	749.7	758.5		
Impinger No. 4	Empty	593.5	597.9		
Impinger No. 5	Silica	946.2	960.5		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

Run No.	3	Trail ID	29	Filter No.	NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	623.5	773.4		
Impinger No. 2	5% / 10%	735.1	790.1		
Impinger No. 3	5% / 10%	753.3	745.0		
Impinger No. 4	Empty	574.6	599.1		
Impinger No. 5	Silica	960.6	973.2		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
Net Weight (g)					

AIRTECH ENVIRONMENTAL SERVICES INC.

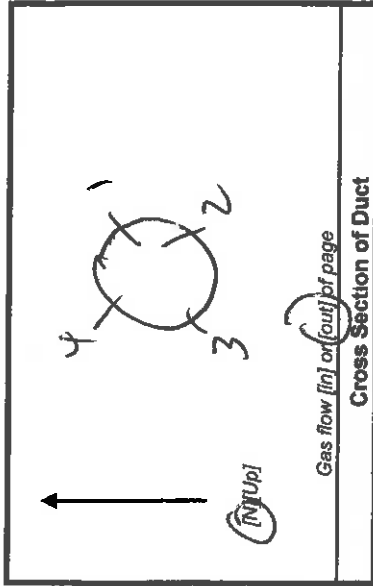
Method 30B Data Sheet

Run No. Rw1 pebecke

Client	Bir Bitters
Plant	Green
Location	Unit 2-stack
Date	7/25/11
Project No.	3648
Meter Reader	Rk

Page 1 of 2

Barometric (in. Hg)	29.56
Static (in. H ₂ O)	-1
Ambient Temp. (°F)	90
Start Time	07:15
Stop Time	9:25



Sample Train A

Trap ID	54486	Meter ID	M-25	Yd	2994
Pre Leak Check	000	ipm @	25		(in. Hg)
Post Leak Check	000	ipm @	15		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	75.04	2.869	132	86	5	
10		5.108	131	86	5	
15		7.701	132	88	5	
20		10.332	130	91	6	
25		12.931	132	94	5	
30		16.328	131	97	5	
35		19.894	131	99	5	
40		21.370	132	102	5	
45		23.889	132	104	5	
50		25.671	132	106	5	
55		28.639	131	108	5	
60	↓	31.359	132	109	5	
Total			1578	1170		
Average			131.5	102.6		

Sample Train B

Trap ID	88256	Meter ID	M-25	Yd	10017
Pre Leak Check	550	ipm @	24		(in. Hg)
Post Leak Check	1000	ipm @	12		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	35.04	2.501	132	86	2	
10		4.576	131	86	2	
15		7.337	132	90	2	
20		9.931	130	92	2	
25		12.967	132	95	2	
30		15.412	131	98	2	
35		18.401	131	102	2	
40		21.453	132	104	2	
45		23.556	132	105	2	
50		25.847	132	109	2	
55		27.809	131	110	2	
60	↓	29.914	132	110	2	
Total			1578	1187		
Average			131.5	104.2		

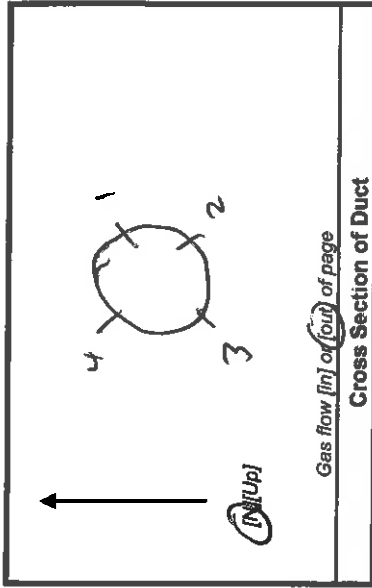
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R-1 Petroke

Client	Big River
Plant	Green
Location	Unit 2 stack
Date	7/27/11
Project No.	3648
Meter Reader	RG

Barometric (in. Hg)	29.56
Static (inH ₂ O)	-1
Ambient Temp. (°F)	90
Start Time	07:15
Stop Time	9:25



Sample Train A

Trap ID	94488	Meter ID	M25	Yd	1994
Pre Leak Check	000	lpm @	25	(in. Hg)	
Post Leak Check	000	lpm @	15	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	75LPM	33.071	131	110	5		
70		33.821	132	112	5		
75		34.398	131	113	5		
80		36.032	132	113	5		
85		38.152	131	114	5		
90		42.156	132	114	5		
Total			789	679			
Average							

Sample Train B

Trap ID	88256	Meter ID	M25	Yd	1,0017
Pre Leak Check	000	lpm @	24	(in. Hg)	
Post Leak Check	1000	lpm @	12	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	75LPM	31.813	131	113	2	31.983	
70		32.465	132	114	2		
75		34.058	131	115	2		
80		35.773	132	115	2		
85		37.678	131	116	2		
90		42.242	132	116	2		
Total			789	689			
Average							

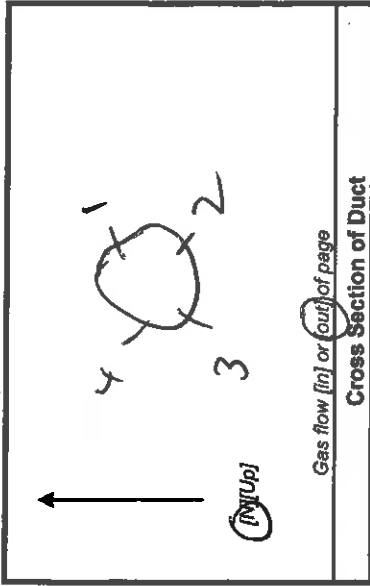
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R-2 - Petcoke

Client	Big Rivers
Plant	Green
Location	Unit 2 Stack
Date	7/25/11
Project No.	3648
Meter Reader	RL

Barometric (in. Hg)	29.56
Static (inH ₂ O)	-1
Ambient Temp. (°F)	90
Start Time	9:48
Stop Time	11:58



Sample Train A -

Trap ID	94489	Meter ID	M-25	Yd	9994
Pre Leak Check	000	ipm @	22	(in. Hg)	
Post Leak Check	000	ipm @	17	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (In Hg)	Notes
5	754M	2.345	129	98	3	
10		4.136	132	96	3	
15		5.873	131	97	3	
20		7.636	131	99	3	
25		9.256	131	101	3	
30		10.776	131	104	3	
35		12.397	131	104	3	
40		14.813	131	108	3	
45		17.481	131	110	3	
50		19.223	131	111	3	
55		22.464	131	113	5	
60		24.499	130	114	5	
Total			1570	1255		
Average		142.702	130.8	108.6		

Sample Train B

Trap ID	72084	Meter ID	M-25	Yd	1.0017
Pre Leak Check	000	ipm @	22	(in. Hg)	
Post Leak Check	000	ipm @	16	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	754M	2.354	129	98	2	
10		3.976	132	97	2	
15		5.614	131	98	2	
20		7.067	131	100	2	
25		8.961	131	103	2	
30		11.147	131	105	2	
35		12.896	131	104	2	
40		14.625	131	109	2	
45		17.360	131	113	2	
50		19.921	131	113	2	
55		22.631	131	114	2	
60		24.736	130	115	2	
Total			1570	1272		
Average		43.358	130.8	109.9		

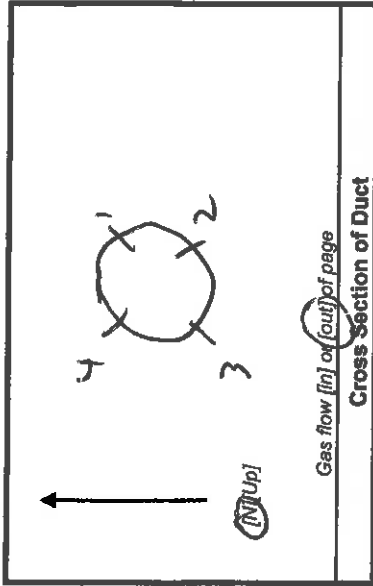
AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-2 Petroke

Client	Big Rivers
Plant	Green
Location	Unit 2 Stack
Date	7/25/11
Project No.	3648
Meter Reader	RC

Page 2 of 2

Barometric (in. Hg)	29.56
Static (inH ₂ O)	-1
Ambient Temp. (°F)	90
Start Time	9:48
Stop Time	11:58



Sample Train A

Trap ID	9999	Meter ID	M-25	Yd	9994
Pre Leak Check	000	lpm @	22	(in. Hg)	
Post Leak Check	000	lpm @	17	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	75	75 LPM	27.469	131	115	RE 95	
70	75		29.981	131	115	5	
75	80		32.977	131	116	5	
80	85		35.786	130	117	5	
85	90		38.667	131	118	5	
90			42.702	131	118	5	
Total				785	699		
Average							

Sample Train B

Trap ID		Meter ID	M-25	Yd	1,0017
Pre Leak Check	000	lpm @	22	(in. Hg)	
Post Leak Check	000	lpm @	16	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	70	75 LPM	27.691	131	116	2	
70	75		29.894	131	117	2	
75	80		32.861	131	118	2	
80	85		35.953	130	118	2	
85	90		38.904	131	119	2	
90			43.359	131	119	2	
Total				785	707		
Average							

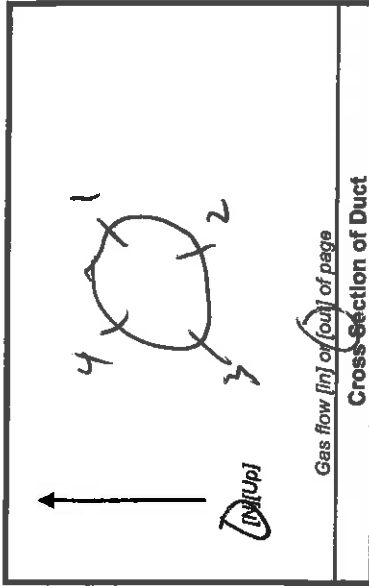
AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-3 Petzoke

Client	Big Rivers
Plant	Green
Location	Unit 2 Stack
Date	7/24/11
Project No.	3648
Meter Reader	RG

Page 1 of 2

Barometric (in. Hg)	29.56
Static (inH ₂ O)	-1
Ambient Temp. (°F)	90
Start Time	12:25
Stop Time	1:18:53



Sample Train A

Trap ID	94495	Meter ID	M-25	Yd	1994
Pre Leak Check	.000	lpm @	21		(in. Hg)
Post Leak Check	.000	lpm @	11		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	750PM	2.378	133	99	3	
10		4.098	131	99	3	
15		5.897	132	99	3	
20		8.733	131	101	3	
25		11.454	132	103	5	
30		14.263	131	106	5	
35		17.075	132	108	5	
40		19.665	131	110	5	
45		22.670	132	112	5	
50		25.463	131	113	5	
55		28.309	131	115	5	
60		31.165	132	116	5	
Total			1579	1281		
Average			131.5	115.8		

Sample Train B

Trap ID	88259	Meter ID	M-25	Yd	1.0017
Pre Leak Check	.000	lpm @	21		(in. Hg)
Post Leak Check	.000	lpm @	10		(in. Hg)

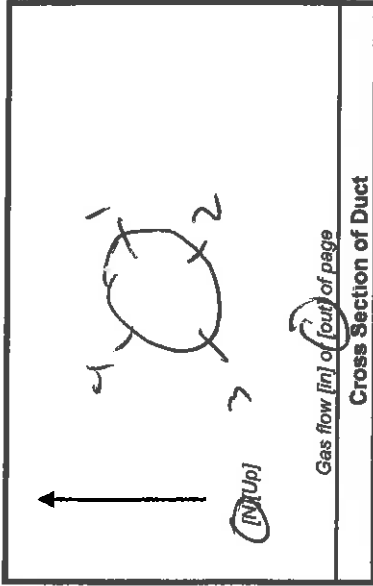
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	750PM	2.411	133	100	2	
10		3.875	131	100	2	
15		6.388	132	100	2	
20		8.697	131	102	2	
25		11.180	132	104	2	
30		13.568	131	107	2	
35		16.818	132	109	2	
40		19.667	131	112	2	
45		22.481	132	114	2	
50		25.196	131	115	2	
55		28.002	131	117	2	
60		30.745	132	117	2	
Total			1579	1297		
Average			131.5	112.1		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-3 Petroke

Page 2 of 2

Client	Big Rivers
Plant	Green
Location	Unit 2, Stack
Date	7/25/11
Project No.	3648
Meter Reader	RL



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-1.1
Ambient Temp. (°F)	90
Start Time	12:25
Stop Time	14:35

Sample Train A

Trap ID	94495	Meter ID	M-25	Yd	9994
Pre Leak Check		ipm @	20		(in. Hg)
Post Leak Check		ipm @	11		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes	
							Elapsed Time
65	35LPM	33.97	131	117	5		
70		36.763	131	118	5		
75		37.212	131	119	5		
80		40.998	132	119	5		
85		41.981	131	120	5		
90		42.698	132	120	5		
Total						788	713
Average							

Sample Train B

Trap ID	88259	Meter ID	M-25	Yd	1.0017
Pre Leak Check		ipm @	21		(in. Hg)
Post Leak Check		ipm @	10		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes	
							Elapsed Time
65	35LPM	33.478	131	119	2		
70		36.216	131	119	2		
75		38.443	131	120	2		
80		40.249	132	121	2		
85		41.667	131	121	2		
90		42.762	132	121	2		
Total						788	721
Average							

AIRTECH ENVIRONMENTAL SERVICES INC.
Oxygen and Carbon Dioxide Data Sheet

PROJECT NO. 3648

Client	Big Rivers		
Plant	Green Unit 2		
Location	Stack	Train	5B/202
Analyzer Type	Plant CEMS Data	Leak Check	

Run No	Trial No	%CO _{2W}	%CO _{2d}	%O ₂	F _{O₂}	Date	Start Time	Stop Time
1	1				1.14	7/29/2011	7:15	9:35
	2							
	3							
	Average	10.1	11.6	7.72				
2	1				1.14	7/29/2011	9:48	12:08
	2							
	3							
	Average	10.0	11.6	7.61				
3	1				1.15	7/29/2011	12:25	14:45
	2							
	3							
	Average	9.9	11.9	7.27				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							