

Appendix F

Particle Sizing Data

UNCONTROLLED

BY Loading Runs
BYImpact.xls

Run	Date	Sampler Location	Sampler ID	Sampler Start Time	Sampler Stop Time	Sampler Run Time (min)	Avg. Temp. (deg. F)	Avg. B.P. (in. Hg)	Flowrate (ft ³ /min)
BY-201	09/15/99	Cyc/Imp 2m DW	98-5	12:50	13:31	137	75	28.80	20.0
		Cyc/Imp 4.5m DW	8585	12:50	13:31	137	75	28.80	20.5
BY-301	09/16/99	Cyc/Imp 2m UW	98-7	9:12	13:54	282	65	28.90	19.9
		Cyc/Imp 4.5m UW	98-6	9:12	13:54	282	65	28.90	20.1
		Cyc/Imp 2m DW	98-5	9:05	11:06	121	64.5	28.90	19.5
		Cyc/Imp 4.5m DW	8585	9:05	11:06	121	64.5	28.90	20.0
BY-401/501	09/17/99	Cyc/Imp 2m UW	98-7	9:25	15:34	369	72.4	28.88	20.2
		Cyc/Imp 4.5m UW	98-6	9:25	15:34	369	72.4	28.88	20.4
		Cyc/Imp 2m DW	98-5	9:13	15:00	256	72.4	28.88	19.8
		Cyc/Imp 4.5m DW	8585	9:13	15:00	256	72.4	28.88	20.4
BY-601/701	09/22/99	Cyc/Imp 2m UW	98-7	9:03	15:38	335	67.6	28.88	20.0
		Cyc/Imp 4.5m UW	98-6	9:03	15:38	335	67.6	28.88	20.2
BY-601		Cyc/Imp 2m DW	98-5	9:11	10:52	101	59.8	28.78	19.4
		Cyc/Imp 4.5m DW	8585	9:11	10:52	101	59.8	28.78	19.9
BY-701	09/22/99	Cyc/Imp 2m DW	98-5	12:42	15:10	148	78.8	28.85	20.1
		Cyc/Imp 4.5m DW	8585	12:42	15:10	148	78.8	28.85	20.6

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Run	Sampler Location	Stage Number	Blank Corrected	Cumulative Mass Fraction by Stage
BY-201	Cyc/Imp 2m DW	S-1	24.46	0.77
		S-2	40.21	0.40
		S-3	16.20	0.25
		Backup	27.46	
			108.34	
	Cyc/Imp 4.5m DW	S-1	13.14	0.76
		S-2	18.58	0.43
		S-3	11.67	0.22
		Backup	12.36	
			55.76	
BY-301	Cyc/Imp 2m UW	S-1	0.00	1.00
		S-2	0.00	1.00
		S-3	0.04	0.91
		Backup	0.41	
			0.45	
	Cyc/Imp 4.5m UW	S-1	0.00	1.00
		S-2	0.00	1.00
		S-3	0.00	1.00
		Backup	0.71	
			0.71	
	Cyc/Imp 2m DW	S-1	0.45	0.64
		S-2	0.33	0.37
		S-3	0.00	0.37
		Backup	0.46	
			1.25	
	Cyc/Imp 4.5m DW	S-1	0.02	0.98
		S-2	0.00	0.98
		S-3	0.00	0.98
		Backup	1.16	
			1.18	
BY-401/501	Cyc/Imp 2m UW	S-1	0.10	0.96
		S-2	0.45	0.79
		S-3	0.03	0.77
		Backup	2.01	
			2.60	
	Cyc/Imp 4.5m UW	S-1	0.00	1.00
		S-2	0.22	0.82
		S-3	0.00	0.82
		Backup	1.01	
			1.23	
	Cyc/Imp 2m DW	S-1	1.58	0.85
		S-2	3.48	0.53
		S-3	1.25	0.41
		Backup	4.36	
			10.68	
	Cyc/Imp 4.5m DW	S-1	0.00	1.00
		S-2	0.43	0.88
		S-3	0.00	0.88
		Backup	3.06	
			3.49	
BY-601/701	Cyc/Imp 2m UW	S-1	0.00	1.00
		S-2	0.00	1.00
		S-3	0.00	1.00

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		Backup	0.21	
			0.21	
	Cyc/Imp 4.5m UW	S-1	0.00	1.00
		S-2	0.00	1.00
		S-3	0.00	1.00
		Backup	0.41	
			0.41	
BY-601	Cyc/Imp 2m DW	S-1	1.93	0.81
		S-2	2.73	0.53
		S-3	1.25	0.41
		Backup	4.11	
			10.03	
	Cyc/Imp 4.5m DW	S-1	0.00	1.00
		S-2	0.00	1.00
		S-3	0.00	1.00
		Backup	0.96	
			0.96	
BY-701	Cyc/Imp 2m DW	S-1	2.18	0.74
		S-2	3.51	0.31
		S-3	1.24	0.16
		Backup	1.31	
			8.25	
	Cyc/Imp 4.5m DW	S-1	0.38	0.42
		S-2	0.27	0.00
		S-3	0.00	0.00
		Backup	0.00	
			0.66	

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<u>Filter No. (4x5)</u>	<u>Final Wt. (mg)</u>	<u>Tare Wt (mg)</u>	<u>Difference (mg)</u>
9988001	1012.35	1012.29	0.06
9988002	986.20	986.06	0.14
9988003	990.25	990.32	-0.07
9988004	987.80	987.49	0.31
9988005	987.65	987.49	0.16
9988006	985.70	985.55	0.15
9988007	975.10	974.64	0.46
9988008	991.50	990.86	0.64
9988009	975.85	975.55	0.30
9988010	964.05	963.66	0.39
9988011	976.60	976.42	0.18
			0.247
			0.199

<u>Filter No. (8x10)</u>	<u>Final Wt. (mg)</u>	<u>Tare Wt (mg)</u>	<u>Difference (mg)</u>
9982001	4386.55	4385.60	0.95
9982002	4392.80	4392.20	0.60
9982003	4359.55	4359.20	0.35
9982004	4391.90	4391.35	0.55
			0.61
			0.250

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Run	Sampler Location	Particulate Concentration (ug/m ³) less than stated size	
		2.1 um	10.2 um
BY-201	Cyc/Imp 2m DW	353.9	1080.9
	Cyc/Imp 4.5m DW	159.3	549.2
BY-301	Cyc/Imp 2m UW	2.6	2.5
	Cyc/Imp 4.5m UW	4.4	4.0
	Cyc/Imp 2m DW	6.7	10.0
	Cyc/Imp 4.5m DW	16.9	11.6
BY-401/501	Cyc/Imp 2m UW	9.6	11.9
	Cyc/Imp 4.5m UW	4.8	5.3
	Cyc/Imp 2m DW	30.1	62.7
	Cyc/Imp 4.5m DW	21.1	19.3
BY-601/701	Cyc/Imp 2m UW	1.1	-4.1
	Cyc/Imp 4.5m UW	2.2	-2.2
BY-601	Cyc/Imp 2m DW	71.8	141.5
	Cyc/Imp 4.5m DW	16.8	6.9
BY-701	Cyc/Imp 2m DW	15.6	72.4
	Cyc/Imp 4.5m DW	-1.1	2.1

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b	m	p	Set Flow Rate Delta P	Std Flowrate	Actual Flowrate
-0.0785	0.00148	2.07	0.60	19.30	20.0
0.0823	0.00107	2.07	0.60	19.81	20.5
0.0344	0.00119	2.07	0.60	19.64	19.9
0.0917	0.00105	2.07	0.60	19.82	20.1
-0.0785	0.00148	2.07	0.60	19.30	19.5
0.0823	0.00107	2.07	0.60	19.81	20.0
0.0344	0.00119	2.07	0.60	19.64	20.2
0.0917	0.00105	2.07	0.60	19.82	20.4
-0.0785	0.00148	2.07	0.60	19.30	19.8
0.0823	0.00107	2.07	0.60	19.81	20.4
0.0344	0.00119	2.07	0.60	19.64	20.0
0.0917	0.00105	2.07	0.60	19.82	20.2
-0.0785	0.00148	2.07	0.60	19.30	19.4
0.0823	0.00107	2.07	0.60	19.81	19.9
-0.0785	0.00148	2.07	0.60	19.30	20.1
0.0823	0.00107	2.07	0.60	19.81	20.6