



US Army Corps  
of Engineers

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
2-8-13 to 2-14-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	
2/8/13 12:00 AM	346.00	3.40	7.50	10.60	3.10	34.10	10.60	12.20	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 12:15 AM	347.00	4.60	6.90	9.30	2.40	33.20	9.30	10.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 12:30 AM	346.00	5.00	4.90	6.00	1.10	32.00	6.00	6.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 12:45 AM	345.00	4.10	4.30	5.20	0.90	31.10	5.20	6.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:00 AM	4.00	6.40	30.00	4.80	0.00	30.00	4.10	4.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:15 AM	0.00	8.30	29.00	3.40	0.00	29.00	2.10	3.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:30 AM	9.00	14.90	28.40	3.20	0.00	28.40	2.10	3.20	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:45 AM	6.00	10.50	27.90	2.90	0.00	27.90	2.10	2.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:00 AM	10.00	13.00	27.00	2.90	0.00	27.00	1.90	2.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:15 AM	11.00	10.70	26.40	2.90	0.00	26.40	2.10	2.90	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:30 AM	3.00	10.60	26.00	3.00	0.00	26.00	2.50	3.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:45 AM	2.00	10.80	25.10	3.10	0.00	25.10	2.30	3.10	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:00 AM	7.00	9.90	24.60	3.20	0.00	24.60	2.40	3.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:15 AM	3.00	9.40	24.10	3.30	0.00	24.10	2.60	3.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:30 AM	2.00	8.20	23.20	3.20	0.00	23.20	2.40	3.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:45 AM	350.00	6.90	2.60	2.30	0.00	22.70	2.30	3.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:00 AM	348.00	6.10	3.50	2.90	0.00	22.20	2.90	3.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:15 AM	2.00	7.50	21.40	3.60	0.00	21.40	3.00	3.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:30 AM	344.00	6.00	3.60	2.80	0.00	20.90	2.80	3.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:45 AM	343.00	7.60	3.70	2.90	0.00	20.60	2.90	3.50	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 5:00 AM	1.00	6.50	19.60	3.80	0.00	19.60	2.90	3.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 5:15 AM	4.00	10.70	19.60	3.20	0.00	19.60	2.50	3.20	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 5:30 AM	5.00	13.70	18.80	3.10	0.00	18.80	2.00	3.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 5:45 AM	359.00	9.50	2.50	2.10	0.00	18.80	2.10	2.80	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 6:00 AM	3.00	9.10	18.80	2.70	0.00	18.80	2.40	2.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 6:15 AM	358.00	9.10	2.70	2.40	0.00	18.80	2.40	2.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 6:30 AM	7.00	10.70	19.00	2.70	0.00	19.00	2.50	2.70	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 6:45 AM	3.00	6.70	18.90	2.60	0.00	18.90	3.00	2.60	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 7:00 AM	2.00	9.90	18.90	2.80	0.00	18.90	3.60	2.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 7:15 AM	0.00	7.70	18.90	3.10	0.00	18.90	3.40	3.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 7:30 AM	6.00	9.50	18.90	2.90	0.00	18.90	3.30	2.90	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 7:45 AM	4.00	8.90	18.90	2.90	0.00	18.90	3.10	2.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 8:00 AM	0.00	8.20	18.80	2.90	0.00	18.80	3.20	2.90	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 8:15 AM	5.00	7.70	18.80	3.10	0.00	18.80	3.30	3.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 8:30 AM	5.00	10.20	19.00	3.20	0.00	19.00	3.50	3.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 8:45 AM	8.00	11.30	19.00	3.30	0.00	19.00	4.10	3.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 9:00 AM	2.00	8.70	19.00	3.50	0.00	19.00	4.10	3.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 9:15 AM	3.00	7.70	19.00	3.90	0.00	19.00	4.10	3.90	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 9:30 AM	2.00	8.30	19.00	4.00	0.00	19.00	3.70	4.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 9:45 AM	359.00	7.30	2.60	4.20	1.60	19.00	4.20	4.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 10:00 AM	1.00	9.50	19.00	4.20	0.00	19.00	4.00	4.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 10:15 AM	1.00	8.60	19.00	4.30	0.00	19.00	4.50	4.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 10:30 AM	0.00	9.30	19.10	4.20	0.00	19.10	4.10	4.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 10:45 AM	1.00	7.10	19.00	4.10	0.00	19.00	4.20	4.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 11:00 AM	1.00	6.80	19.00	4.20	0.00	19.00	4.30	4.20	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 11:15 AM	4.00	8.20	19.10	5.00	0.00	19.10	4.50	5.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 11:30 AM	1.00	8.00	19.10	4.30	0.00	19.10	4.70	4.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 11:45 AM	4.00	6.90	19.00	4.00	0.00	19.00	4.60	4.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 12:00 PM	359.00	8.30	4.40	4.40	0.00	19.00	4.40	4.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 12:15 PM	359.00	7.80	4.30	4.40	0.10	19.00	4.40	4.60	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 12:30 PM	1.00	6.20	18.90	4.30	0.00	18.90	4.30	4.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 12:45 PM	4.00	6.30	19.00	4.40	0.00	19.00	4.10	4.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:00 PM	11.00	10.80	19.00	4.50	0.00	19.00	4.70	4.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:15 PM	8.00	9.20	19.10	4.70	0.00	19.10	4.40	4.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:30 PM	10.00	8.90	19.00	4.70	0.00	19.00	5.30	4.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 1:45 PM	4.00	9.30	19.10	4.80	0.00	19.10	6.40	4.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:00 PM	0.00	5.90	19.10	4.60	0.00	19.10	6.60	4.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:15 PM	6.00	6.90	19.00	4.40	0.00	19.00	6.30	4.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:30 PM	6.00	6.90	19.10	4.70	0.00	19.10	6.30	4.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 2:45 PM	3.00	8.50	19.00	4.20	0.00	19.00	6.00	4.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:00 PM	9.00	9.50	19.00	4.60	0.00	19.00	5.40	4.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:15 PM	7.00	8.90	18.90	4.20	0.00	18.90	5.50	4.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:30 PM	3.00	6.60	18.90	4.20	0.00	18.90	5.50	4.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 3:45 PM	8.00	9.40	19.00	4.20	0.00	19.00	5.60	4.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:00 PM	5.00	8.90	19.00	4.10	0.00	19.00	4.90	4.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:15 PM	15.00	9.20	19.00	4.10	0.00	19.00	4.80	4.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:30 PM	12.00	9.20	19.00	4.20	0.00	19.00	4.60	4.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/13 4:45 PM	7.00	7.70	19.00	4.50	0.00												



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Reading Time (EST)	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/8/13 11:45 PM	7.00	1.40	19.20	4.90	0.00	19.20	3.80	4.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:00 AM	20.00	2.70	19.30	5.50	0.00	19.30	4.20	5.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:15 AM	46.00	1.00	19.30	5.10	0.00	19.30	3.80	5.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:30 AM	345.00	2.50	19.00	5.40	0.00	19.00	2.30	5.40	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:45 AM	323.00	2.80	4.10	4.40	0.30	19.10	4.40	4.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:00 AM	288.00	2.10	4.40	5.50	1.10	19.20	5.50	4.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:15 AM	319.00	1.50	4.20	4.10	0.00	19.20	4.10	4.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:30 AM	289.00	1.20	4.10	5.40	1.30	19.10	5.40	4.40	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:45 AM	278.00	1.80	3.70	5.40	1.70	19.10	5.40	4.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:00 AM	252.00	1.70	4.40	5.00	0.60	19.10	5.00	4.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:15 AM	259.00	1.20	5.80	19.10	13.30	19.10	6.70	5.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:30 AM	254.00	2.00	5.40	19.20	13.80	19.20	5.90	5.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:45 AM	269.00	1.20	5.10	19.10	14.00	19.10	5.80	5.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:00 AM	269.00	1.80	5.30	19.30	14.00	19.30	5.90	5.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:15 AM	277.00	3.00	6.30	19.30	13.00	19.30	6.70	6.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:30 AM	275.00	2.70	7.00	19.30	0.30	19.50	7.30	6.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:45 AM	284.00	2.30	6.90	5.80	0.00	19.30	5.80	6.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 4:00 AM	282.00	2.10	8.30	6.30	0.00	19.40	6.30	6.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 4:15 AM	285.00	1.80	7.50	7.00	0.00	19.40	7.00	6.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 4:30 AM	340.00	0.50	7.10	7.00	0.00	19.40	7.00	6.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 4:45 AM	264.00	1.00	9.10	7.00	0.00	19.50	7.00	7.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 5:00 AM	283.00	1.20	8.00	19.70	11.70	19.70	7.50	8.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 5:15 AM	231.00	1.30	11.50	8.30	0.00	19.70	8.30	8.40	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 5:30 AM	272.00	1.80	9.10	19.80	10.70	19.80	8.60	9.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 5:45 AM	258.00	1.60	14.40	9.80	0.00	19.70	9.80	10.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 6:00 AM	264.00	1.70	10.30	19.70	9.40	19.70	9.70	10.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 6:15 AM	277.00	1.50	11.00	19.80	8.80	19.80	10.30	11.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 6:30 AM	249.00	1.00	12.30	11.10	0.00	19.80	11.10	12.70	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 6:45 AM	186.00	2.10	13.70	19.90	6.20	19.90	13.40	13.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 7:00 AM	184.00	2.70	14.10	20.00	5.90	20.00	12.60	14.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 7:15 AM	192.00	3.20	14.10	20.00	5.90	20.00	12.50	14.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 7:30 AM	149.00	2.40	13.00	19.90	6.90	19.90	12.10	13.00	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 7:45 AM	192.00	2.90	6.50	11.30	4.80	19.30	6.50	7.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 8:00 AM	179.00	2.40	6.90	19.30	12.40	19.30	5.40	6.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 8:15 AM	173.00	2.80	5.30	6.10	0.80	19.20	5.30	6.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 8:30 AM	156.00	1.60	5.70	6.10	0.40	19.30	5.70	6.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 8:45 AM	148.00	2.50	5.60	6.20	0.60	19.30	5.60	5.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 9:00 AM	193.00	3.20	5.30	6.10	0.80	19.10	5.30	6.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 9:15 AM	187.00	2.80	6.20	19.10	12.90	19.10	5.60	6.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 9:30 AM	201.00	4.40	4.90	19.10	14.20	19.10	4.50	4.90	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 9:45 AM	167.00	3.30	5.50	19.00	13.50	19.00	7.00	5.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 10:00 AM	183.00	3.40	4.60	5.20	0.60	19.10	4.60	5.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 10:15 AM	175.00	2.70	5.90	19.20	13.30	19.20	7.10	5.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 10:30 AM	192.00	3.50	9.30	5.80	0.00	19.20	9.30	5.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 10:45 AM	212.00	5.30	5.80	19.20	13.40	19.20	9.90	5.80	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 11:00 AM	178.00	3.10	5.30	19.30	14.00	19.30	9.80	5.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 11:15 AM	194.00	4.60	10.00	4.90	0.00	19.10	10.00	4.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 11:30 AM	178.00	5.70	8.10	19.40	11.30	19.40	12.30	8.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 11:45 AM	200.00	3.60	14.10	9.10	0.00	19.40	14.10	8.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:00 PM	181.00	5.50	9.60	19.60	10.00	19.60	14.30	9.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:15 PM	211.00	5.10	13.50	0.00	0.00	0.00	19.60	13.50	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:30 PM	202.00	3.70	14.10	19.90	5.80	19.90	18.90	14.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 12:45 PM	217.00	4.70	13.00	19.80	6.80	19.80	15.90	13.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:00 PM	183.00	4.60	10.20	19.80	9.60	19.80	13.50	10.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:15 PM	203.00	6.10	10.30	19.70	9.40	19.70	14.50	10.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:30 PM	194.00	6.30	9.50	19.70	10.20	19.70	13.10	9.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 1:45 PM	183.00	6.80	10.20	19.80	9.60	19.80	12.60	10.20	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:00 PM	190.00	6.90	11.60	0.00	0.00	0.00	11.30	11.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:15 PM	200.00	6.10	12.50	19.90	7.40	19.90	14.00	12.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:30 PM	204.00	5.30	13.60	20.00	6.40	20.00	14.20	13.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 2:45 PM	212.00	7.30	12.30	19.90	7.60	19.90	13.40	12.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:00 PM	191.00	5.30	12.30	19.90	7.60	19.90	11.40	12.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:15 PM	185.00	4.90	9.20	19.50	10.30	19.50	9.40	9.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:30 PM	197.00	4.50	8.00	19.50	11.50	19.50	7.80	8.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 3:45 PM	185.00	5.20	8.40	19.60	11.20	19.60	8.10	8.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 4:00 PM	194.00	6.50	9.00	19.50	10.50	19.50	8.20	9.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 4:15 PM	184.00	4.90	8.90	19.40	10.50													



**US Army Corps  
of Engineers**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
2-8-13 to 2-14-13

Reading Time (EST)	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/9/13 11:30 PM	180.00	4.30	11.70	20.10	8.40	20.10	11.80	11.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/9/13 11:45 PM	175.00	4.00	11.40	20.00	8.60	20.00	11.10	11.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:00 AM	185.00	4.80	11.10	11.80	0.70	19.90	11.10	11.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:15 AM	176.00	4.00	11.20	20.00	8.80	20.00	11.30	11.20	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:30 AM	178.00	3.40	12.50	11.80	0.00	20.10	12.50	11.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:45 AM	184.00	3.40	11.60	12.80	1.20	19.90	11.60	11.50	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:00 AM	177.00	3.40	11.50	0.00	0.00	0.00	11.40	11.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:15 AM	171.00	5.60	10.70	12.40	1.70	19.90	10.70	11.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:30 AM	167.00	3.10	10.90	11.70	0.80	19.90	10.90	11.20	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:45 AM	182.00	3.70	10.80	11.70	0.90	20.00	10.80	11.50	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:00 AM	176.00	4.00	11.80	20.10	8.30	20.10	11.30	11.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:15 AM	187.00	4.10	12.20	12.90	0.70	20.00	12.20	11.80	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:30 AM	167.00	5.10	12.30	0.00	0.00	0.00	11.90	12.30	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:45 AM	177.00	3.60	12.00	13.00	1.00	19.90	12.00	12.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:00 AM	174.00	4.00	11.40	12.90	1.50	19.90	11.40	12.50	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:15 AM	183.00	5.30	11.70	12.40	0.70	19.80	11.70	12.20	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:30 AM	181.00	4.40	11.30	19.80	8.50	19.80	10.80	11.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:45 AM	183.00	4.50	10.90	19.80	8.90	19.80	10.50	10.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 4:00 AM	186.00	4.70	10.50	19.70	9.20	19.70	10.20	10.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 4:15 AM	187.00	5.10	10.70	0.00	0.00	0.00	10.10	10.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 4:30 AM	185.00	4.60	10.20	19.70	9.50	19.70	9.70	10.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 4:45 AM	184.00	5.00	10.20	19.70	9.50	19.70	10.30	10.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 5:00 AM	181.00	3.80	10.20	19.70	9.50	19.70	9.90	10.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 5:15 AM	178.00	3.90	10.30	19.60	9.30	19.60	9.70	10.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 5:30 AM	170.00	3.60	9.80	10.60	0.80	19.60	9.80	10.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 5:45 AM	188.00	4.80	10.00	10.30	0.30	19.60	10.00	9.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 6:00 AM	179.00	4.90	10.30	19.60	9.30	19.60	10.30	10.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 6:15 AM	195.00	3.60	9.70	10.70	1.00	19.60	9.70	10.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 6:30 AM	186.00	4.80	11.10	19.70	8.60	19.70	10.00	11.10	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 6:45 AM	180.00	4.90	11.80	19.70	7.90	19.70	10.00	11.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 7:00 AM	182.00	4.50	11.90	19.70	7.80	19.70	10.50	11.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 7:15 AM	188.00	3.50	12.20	19.80	7.60	19.80	10.60	12.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 7:30 AM	181.00	4.80	12.80	0.00	0.00	0.00	10.40	12.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 7:45 AM	179.00	4.50	13.30	19.90	6.60	19.90	11.00	13.30	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 8:00 AM	165.00	4.60	11.30	3.70	0.00	20.00	11.30	13.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 8:15 AM	162.00	4.50	11.60	3.70	0.00	20.10	11.60	13.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 8:30 AM	167.00	4.20	11.90	4.00	0.00	20.10	11.90	14.40	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 8:45 AM	170.00	3.90	12.80	4.30	0.00	0.00	12.80	15.60	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 9:00 AM	168.00	4.90	12.20	5.40	0.00	20.10	12.20	14.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 9:15 AM	172.00	5.30	13.50	6.20	0.00	20.20	13.50	14.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 9:30 AM	170.00	5.00	14.20	7.20	0.00	20.10	14.20	15.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 9:45 AM	174.00	6.40	11.90	6.90	0.00	20.20	11.90	14.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 10:00 AM	172.00	6.60	11.60	7.10	0.00	20.10	11.60	14.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 10:15 AM	180.00	5.90	12.30	7.90	0.00	20.20	12.30	14.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 10:30 AM	169.00	5.60	14.20	20.10	5.90	20.10	14.00	14.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 10:45 AM	165.00	4.80	14.90	8.70	0.00	20.10	14.90	13.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 11:00 AM	170.00	6.90	16.60	9.50	0.00	20.50	16.60	14.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 11:15 AM	166.00	6.60	18.20	10.30	0.00	20.50	18.20	14.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 11:30 AM	168.00	5.80	18.80	9.40	0.00	20.40	18.80	15.90	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 11:45 AM	171.00	5.50	18.00	7.80	0.00	20.50	18.00	15.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:00 PM	169.00	7.40	17.40	6.10	0.00	20.60	17.40	15.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:15 PM	175.00	9.00	14.20	4.70	0.00	20.40	14.20	14.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:30 PM	167.00	5.50	14.00	4.40	0.00	20.40	14.00	14.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 12:45 PM	167.00	5.90	12.60	4.40	0.00	20.40	12.60	13.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:00 PM	169.00	7.60	11.70	5.00	0.00	20.20	11.70	13.10	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:15 PM	168.00	7.90	11.00	5.30	0.00	20.30	11.00	12.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:30 PM	173.00	7.60	11.10	5.70	0.00	20.10	11.10	13.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 1:45 PM	187.00	8.90	11.80	6.60	0.00	20.30	11.80	14.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:00 PM	185.00	8.90	12.00	20.20	8.20	20.20	12.20	12.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:15 PM	175.00	9.50	9.80	20.20	10.40	20.20	11.80	9.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:30 PM	175.00	6.80	11.90	5.20	0.00	20.30	11.90	8.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 2:45 PM	167.00	7.40	11.80	3.70	0.00	20.30	11.80	5.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:00 PM	166.00	7.50	11.70	3.00	0.00	20.30	11.70	3.80	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:15 PM	174.00	8.60	12.20	1.90	0.00	20.40	12.20	3.20	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:30 PM	183.00	7.20	11.00	1.70	0.00	20.40	11.00	3.10	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 3:45 PM	194.00	10.20	3.30	20.30	17.00	20.30</												



**US Army Corps  
of Engineers**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
2-8-13 to 2-14-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/10/13 11:15 PM	217.00	7.40	6.00	19.30	13.30	19.30	8.10	6.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 11:30 PM	218.00	10.50	7.30	19.30	12.00	19.30	8.90	7.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/10/13 11:45 PM	230.00	7.30	8.80	19.50	10.70	19.50	9.70	8.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:00 AM	237.00	10.70	11.10	19.80	8.70	19.80	13.00	11.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:15 AM	236.00	10.60	10.50	19.70	9.20	19.70	12.60	10.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:30 AM	0.00	0.00	10.00	19.60	9.60	19.60	9.90	10.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:45 AM	226.00	5.70	0.00	0.00	0.00	0.00	7.50	8.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:00 AM	235.00	9.20	9.20	19.30	10.10	19.30	9.30	9.20	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:15 AM	239.00	8.00	9.80	19.40	9.60	19.40	9.50	9.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:30 AM	239.00	8.60	9.80	19.10	9.30	19.10	6.30	9.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:45 AM	239.00	8.60	7.40	0.00	0.00	0.00	5.50	7.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:00 AM	238.00	8.50	7.40	18.70	11.30	18.70	4.90	7.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:15 AM	239.00	7.40	7.00	18.70	11.70	18.70	5.00	7.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:30 AM	241.00	6.90	7.20	18.70	11.50	18.70	4.10	7.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:45 AM	238.00	10.20	7.30	18.70	11.40	18.70	4.60	7.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 3:00 AM	253.00	11.10	7.90	18.70	10.80	18.70	5.10	7.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 3:15 AM	247.00	6.20	7.90	18.90	11.00	18.90	5.00	7.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 3:30 AM	247.00	11.50	7.50	18.90	11.40	18.90	5.10	7.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 3:45 AM	241.00	9.80	8.10	18.70	10.60	18.70	4.90	8.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 4:00 AM	251.00	10.40	8.10	0.00	0.00	0.00	5.80	8.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 4:15 AM	258.00	8.20	9.50	0.00	0.00	0.00	6.30	9.50	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 4:30 AM	259.00	10.30	9.70	19.00	9.30	19.00	6.70	9.70	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 4:45 AM	243.00	10.80	11.70	18.90	7.20	18.90	8.80	11.70	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 5:00 AM	237.00	8.30	11.80	19.50	7.70	19.50	8.60	11.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 5:15 AM	253.00	12.80	11.70	19.20	7.50	19.20	9.30	11.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 5:30 AM	251.00	12.60	11.50	19.10	7.60	19.10	9.20	11.50	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 5:45 AM	252.00	11.90	12.80	19.50	6.70	19.50	9.60	12.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 6:00 AM	243.00	9.90	13.70	19.50	5.80	19.50	10.40	13.70	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 6:15 AM	255.00	12.90	12.70	19.70	7.00	19.70	10.30	12.70	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 6:30 AM	259.00	13.30	12.80	19.40	6.60	19.40	10.00	12.80	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 6:45 AM	262.00	11.50	12.80	19.50	6.70	19.50	10.20	12.80	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 7:00 AM	260.00	10.60	11.30	19.60	8.30	19.60	8.90	11.30	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 7:15 AM	275.00	9.90	10.50	0.00	0.00	0.00	8.60	10.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 7:30 AM	259.00	12.50	16.50	8.10	0.00	19.40	8.10	10.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 7:45 AM	245.00	11.30	9.80	19.20	9.40	19.20	7.40	9.80	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 8:00 AM	256.00	7.90	9.20	0.00	0.00	0.00	6.60	9.20	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 8:15 AM	257.00	10.50	9.70	19.30	9.60	19.30	7.00	9.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 8:30 AM	250.00	11.20	9.70	19.20	9.50	19.20	6.70	9.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 8:45 AM	241.00	11.90	10.60	19.10	8.50	19.10	7.40	10.60	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 9:00 AM	248.00	10.10	10.50	19.30	8.80	19.30	7.40	10.50	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 9:15 AM	250.00	8.20	10.60	19.30	8.70	19.30	7.20	10.60	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 9:30 AM	246.00	9.50	10.50	19.30	8.80	19.30	7.30	10.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 9:45 AM	262.00	9.10	10.50	19.30	8.80	19.30	7.10	10.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 10:00 AM	265.00	10.90	11.30	0.00	0.00	0.00	7.30	11.30	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 10:15 AM	261.00	12.60	11.30	0.00	0.00	0.00	7.50	11.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 10:30 AM	260.00	13.80	10.60	19.30	8.70	19.30	7.20	10.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 10:45 AM	264.00	9.50	9.80	19.30	9.50	19.30	6.80	9.80	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 11:00 AM	258.00	11.10	9.80	19.40	9.60	19.40	6.60	9.80	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 11:15 AM	268.00	12.30	9.80	19.30	9.50	19.30	6.80	9.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 11:30 AM	256.00	12.60	8.10	19.40	11.30	19.40	6.00	8.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 11:45 AM	261.00	8.80	7.20	19.40	12.20	19.40	5.20	7.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:00 PM	271.00	10.50	7.80	0.00	0.00	0.00	5.60	7.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:15 PM	260.00	12.30	13.50	6.40	0.00	0.00	6.40	8.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:30 PM	258.00	8.80	8.10	19.30	11.20	19.30	5.80	8.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 12:45 PM	258.00	13.40	8.20	19.30	11.10	19.30	5.70	8.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:00 PM	264.00	12.20	8.50	19.30	10.80	19.30	6.20	8.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:15 PM	260.00	8.70	8.80	19.40	10.60	19.40	6.60	8.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:30 PM	271.00	12.60	8.70	19.50	10.80	19.50	6.60	8.70	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 1:45 PM	269.00	10.50	14.40	6.30	0.00	19.50	6.30	8.40	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:00 PM	274.00	14.70	8.10	19.50	11.40	19.50	6.00	8.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:15 PM	258.00	8.90	12.80	6.10	0.00	19.50	6.10	7.70	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:30 PM	267.00	11.40	8.10	0.00	0.00	0.00	6.20	8.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 2:45 PM	271.00	10.30	8.10	19.40	11.30	19.40	5.60	8.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 3:00 PM	268.00	9.90	10.40	4.90	0.00	19.30	4.90	6.40	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 3:15 PM	277.00	10.30	6.40	19.10	12.70	19.10	5.00	6.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/11/13 3:30 PM	282.00	8.80	10.40	5.30	0.00	19.00	5.30	7.00	10.40	0.00								



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2-8-13 to 2-14-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/11/13 11:00 PM	316.00	6.20	4.60	3.50	0.00	0.00	3.50	3.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/11/13 11:15 PM	306.00	5.10	4.60	3.50	0.00	0.00	3.50	3.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/11/13 11:30 PM	287.00	4.40	4.90	4.00	0.00	0.00	4.00	3.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/11/13 11:45 PM	298.00	5.60	4.70	3.50	0.00	18.50	3.50	3.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:00 AM	289.00	8.00	4.60	3.40	0.00	0.00	3.40	3.50	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:15 AM	300.00	3.60	5.30	3.80	0.00	18.60	3.80	3.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:30 AM	290.00	7.30	5.80	4.10	0.00	0.00	4.10	3.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:45 AM	291.00	4.20	6.00	4.60	0.00	0.00	4.60	4.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:00 AM	279.00	6.40	6.10	4.20	0.00	0.00	4.20	4.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:15 AM	291.00	6.30	5.10	4.00	0.00	0.00	4.00	4.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:30 AM	286.00	4.60	5.90	4.90	0.00	0.00	4.90	4.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:45 AM	283.00	6.10	5.90	4.90	0.00	0.00	4.90	4.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:00 AM	288.00	5.10	7.00	5.50	0.00	0.00	5.50	5.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:15 AM	300.00	5.00	7.80	6.10	0.00	18.60	6.10	5.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:30 AM	294.00	5.80	8.00	8.60	0.60	18.60	8.60	5.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:45 AM	269.00	7.80	7.00	10.30	3.30	0.00	10.30	5.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:00 AM	271.00	6.10	6.10	0.00	0.00	0.00	12.40	6.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:15 AM	255.00	5.10	7.60	11.50	3.90	0.00	11.50	6.10	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:30 AM	271.00	6.90	6.00	18.60	12.60	18.60	10.80	6.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:45 AM	266.00	6.00	8.30	9.60	1.30	18.60	9.60	5.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 4:00 AM	299.00	4.80	7.40	18.60	11.20	18.60	11.50	7.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 4:15 AM	299.00	7.60	8.60	11.00	2.40	18.60	11.00	7.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 4:30 AM	312.00	6.40	7.70	9.60	1.90	18.70	9.60	6.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 4:45 AM	285.00	4.50	5.90	6.80	0.90	18.70	6.80	4.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 5:00 AM	291.00	6.00	6.60	8.60	2.00	18.70	8.60	5.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 5:15 AM	308.00	5.00	8.00	8.10	0.10	0.00	8.10	5.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 5:30 AM	301.00	5.10	6.80	8.20	1.40	0.00	8.20	5.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 5:45 AM	300.00	4.40	7.10	7.90	0.80	0.00	7.90	5.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 6:00 AM	312.00	3.20	7.10	7.40	0.30	0.00	7.40	5.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 6:15 AM	311.00	4.00	9.90	7.70	0.00	0.00	7.70	5.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 6:30 AM	290.00	3.10	8.30	7.50	0.00	0.00	7.50	5.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 6:45 AM	293.00	2.80	9.20	7.00	0.00	0.00	7.00	5.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 7:00 AM	287.00	4.00	9.30	7.20	0.00	0.00	7.20	5.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 7:15 AM	275.00	4.20	14.90	6.90	0.00	18.60	6.90	5.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 7:30 AM	288.00	4.20	8.00	7.10	0.00	18.60	7.10	5.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 7:45 AM	275.00	2.50	10.00	7.50	0.00	18.90	7.50	6.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 8:00 AM	261.00	4.00	10.90	8.90	0.00	19.10	8.90	7.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 8:15 AM	269.00	4.80	6.30	19.30	13.00	19.30	8.10	6.30	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 8:30 AM	262.00	4.10	7.40	19.30	11.90	19.30	8.50	7.40	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 8:45 AM	252.00	4.40	7.60	19.20	11.60	19.20	9.10	7.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 9:00 AM	232.00	5.00	8.00	19.40	11.40	19.40	8.80	8.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 9:15 AM	247.00	4.80	8.60	19.50	10.90	19.50	9.60	8.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 9:30 AM	282.00	3.10	9.20	19.60	10.40	19.60	9.90	9.20	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 9:45 AM	298.00	4.30	14.00	11.20	0.00	19.80	11.20	9.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 10:00 AM	280.00	2.60	13.60	10.20	0.00	19.30	10.20	8.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 10:15 AM	268.00	4.60	11.70	9.60	0.00	19.30	9.60	7.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 10:30 AM	274.00	3.60	7.80	19.30	11.50	19.30	9.20	7.80	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 10:45 AM	289.00	3.30	15.40	11.40	0.00	19.40	11.40	9.10	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 11:00 AM	261.00	4.60	12.10	10.00	0.00	19.30	10.00	8.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 11:15 AM	244.00	4.30	8.40	19.50	11.10	19.50	10.00	8.40	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 11:30 AM	260.00	5.50	6.30	19.40	13.10	19.40	8.10	6.30	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 11:45 AM	254.00	5.00	6.30	19.20	14.20	19.20	5.90	5.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:00 PM	273.00	6.30	5.40	19.10	13.70	19.10	6.00	5.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:15 PM	255.00	5.40	8.40	5.70	0.00	19.20	5.70	5.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:30 PM	276.00	3.40	6.80	19.30	12.50	19.30	6.80	6.80	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 12:45 PM	273.00	3.50	7.00	7.90	0.90	19.00	7.90	8.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:00 PM	276.00	4.80	7.60	6.20	0.00	19.20	6.20	7.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:15 PM	276.00	3.70	7.80	6.30	0.00	19.20	6.30	7.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:30 PM	260.00	5.00	11.20	9.70	0.00	19.70	9.70	10.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 1:45 PM	267.00	3.90	11.80	19.80	8.00	19.80	10.40	11.80	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:00 PM	303.00	4.50	10.20	19.60	9.40	19.60	9.00	10.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:15 PM	260.00	3.40	9.90	6.50	0.00	19.40	6.50	7.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:30 PM	274.00	3.90	8.00	19.30	11.30	19.30	7.10	8.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 2:45 PM	256.00	4.10	10.20	7.70	0.00	19.40	7.70	8.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:00 PM	257.00	5.30	9.00	19.30	10.30	19.30	8.20	9.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:15 PM	244.00	4.20	8.80	19.20	10.40	19.20	7.70	8.80	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:30 PM	262.00	5.20	11.20	19.40	8.20	19.40	10.30	11.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 3:45 PM	270.00	2.50	11.90	19.40	7.50	19.40	11.00	11.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 4:00 PM	241.00	5.60	18.90	14.40	0.00	19.40	14.40	14.90	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/13 4:15 PM	243.00	4.30	15.60	19.40	3.80	19.40	14.70	15.60	20.00	0.00	0.00	0.00	0.00</			





**US Army Corps  
of Engineers**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
2-8-13 to 2-14-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )								Naphthalene (µg/m <sup>3</sup> )							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
2/13/13 10:30 PM	243.00	1.40	20.70	20.90	0.20	20.90	19.00	20.70	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/13/13 10:45 PM	224.00	1.20	21.40	20.90	0.00	20.90	17.20	21.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/13/13 11:00 PM	230.00	1.60	21.80	21.00	0.00	21.00	16.90	21.80	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/13/13 11:15 PM	218.00	1.50	21.50	21.00	0.00	21.00	16.80	21.50	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/13/13 11:30 PM	215.00	1.90	21.20	21.00	0.00	21.00	17.10	21.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/13/13 11:45 PM	232.00	2.60	22.30	21.00	0.00	21.00	18.10	22.30	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:00 AM	235.00	2.20	23.30	0.00	0.00	0.00	17.50	23.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:15 AM	246.00	2.60	21.50	21.10	0.00	21.10	17.50	21.50	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:30 AM	249.00	2.90	21.70	0.00	0.00	0.00	17.70	21.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:45 AM	209.00	2.40	21.70	0.00	0.00	0.00	17.50	21.70	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:00 AM	219.00	1.80	22.20	21.10	0.00	21.10	18.30	22.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:15 AM	225.00	2.60	22.80	21.10	0.00	21.10	18.90	22.80	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:30 AM	209.00	2.60	24.10	21.30	0.00	21.30	20.30	24.10	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:45 AM	204.00	3.60	24.70	21.40	0.00	21.40	21.10	24.70	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:00 AM	201.00	2.40	24.70	21.40	0.00	21.40	21.00	24.70	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:15 AM	201.00	3.70	23.10	21.30	0.00	21.30	18.20	23.10	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:30 AM	199.00	2.50	21.00	21.30	0.30	21.30	17.30	21.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:45 AM	201.00	3.40	19.90	20.70	0.80	20.70	16.20	19.90	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 3:00 AM	199.00	3.70	21.50	20.70	0.00	20.70	16.70	21.50	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 3:15 AM	191.00	4.60	18.30	20.60	2.30	20.60	15.30	18.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 3:30 AM	207.00	3.80	18.40	0.00	0.00	0.00	15.30	18.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 3:45 AM	205.00	4.00	18.50	0.00	0.00	0.00	15.70	18.50	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 4:00 AM	201.00	5.00	18.00	20.60	2.60	20.60	14.90	18.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 4:15 AM	239.00	3.80	16.90	20.40	3.50	20.40	14.00	16.90	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 4:30 AM	196.00	4.80	16.00	20.40	4.40	20.40	13.40	16.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 4:45 AM	215.00	5.30	15.60	20.30	4.70	20.30	15.20	15.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 5:00 AM	200.00	4.90	14.40	20.20	5.80	20.20	14.50	14.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 5:15 AM	201.00	6.80	13.50	20.00	6.50	20.00	13.30	13.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 5:30 AM	198.00	5.80	13.80	20.10	6.30	20.10	13.50	13.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 5:45 AM	197.00	6.50	14.40	20.10	5.70	20.10	14.00	14.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 6:00 AM	200.00	6.40	14.90	20.30	5.40	20.30	15.00	14.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 6:15 AM	190.00	5.30	15.20	20.40	5.20	20.40	14.40	15.20	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 6:30 AM	202.00	5.40	14.80	20.30	5.50	20.30	14.30	14.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 6:45 AM	215.00	6.50	14.80	20.40	5.60	20.40	14.20	14.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 7:00 AM	217.00	6.70	15.10	20.40	5.30	20.40	13.80	15.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 7:15 AM	221.00	6.60	15.20	20.40	5.20	20.40	13.80	15.20	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 7:30 AM	218.00	6.70	14.80	20.40	5.60	20.40	13.70	14.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 7:45 AM	222.00	7.70	15.10	20.50	5.40	20.50	13.40	15.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 8:00 AM	215.00	6.70	15.10	20.50	5.40	20.50	13.40	15.10	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 8:15 AM	223.00	7.10	15.30	20.40	5.10	20.40	13.20	15.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 8:30 AM	222.00	7.20	14.40	20.40	6.00	20.40	12.60	14.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 8:45 AM	220.00	5.60	14.20	20.30	6.10	20.30	12.30	14.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 9:00 AM	231.00	7.30	13.50	0.00	0.00	0.00	11.30	13.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 9:15 AM	242.00	9.00	12.90	20.00	7.10	20.00	10.20	12.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 9:30 AM	0.00	0.00	10.90	20.00	9.10	20.00	9.50	10.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 9:45 AM	234.00	5.90	0.00	0.00	0.00	0.00	9.40	11.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 10:00 AM	242.00	5.90	10.70	20.00	9.30	20.00	8.50	10.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 10:15 AM	253.00	6.90	10.50	20.00	9.50	20.00	8.80	10.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 10:30 AM	250.00	7.20	10.50	19.80	9.30	19.80	8.50	10.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 10:45 AM	261.00	7.80	10.40	19.90	9.50	19.90	8.50	10.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 11:00 AM	259.00	9.00	10.60	19.90	9.30	19.90	8.40	10.60	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 11:15 AM	264.00	8.50	10.20	19.90	9.70	19.90	8.50	10.20	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 11:30 AM	261.00	7.70	9.70	19.90	10.20	19.90	8.20	9.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 11:45 AM	268.00	8.30	9.80	0.00	0.00	0.00	8.00	9.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:00 PM	286.00	6.90	9.80	0.00	0.00	0.00	8.40	9.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:15 PM	257.00	8.40	9.10	7.70	0.00	0.00	7.70	9.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:30 PM	261.00	7.80	9.50	0.00	0.00	0.00	7.40	9.50	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 12:45 PM	262.00	7.60	8.70	19.60	10.90	19.60	6.70	8.70	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:00 PM	258.00	6.90	7.20	0.00	0.00	0.00	5.30	7.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:15 PM	266.00	9.10	6.60	0.00	0.00	0.00	5.00	6.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:30 PM	263.00	7.30	6.50	19.40	12.90	19.40	4.80	6.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 1:45 PM	278.00	6.00	7.20	19.40	12.20	19.40	5.50	7.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:00 PM	259.00	9.00	8.40	5.80	0.00	0.00	4.80	8.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:15 PM	268.00	7.70	7.50	19.40	11.90	19.40	5.80	7.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:30 PM	268.00	8.20	9.90	19.70	9.80	19.70	7.40	9.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2/14/13 2:45 PM	266.00	10.00	10.40	0.00	0.00	0.00												



**US Army Corps  
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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m <sup>3</sup> )							Naphthalene (µg/m <sup>3</sup> )						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
2/14/13 10:15 PM	300.00	2.50	4.60	1.70	0.00	18.80	1.70	3.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/13 10:30 PM	309.00	2.90	5.20	3.10	0.00	18.80	3.10	4.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/13 10:45 PM	323.00	2.40	6.50	3.30	0.00	18.90	3.30	4.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/13 11:00 PM	306.00	2.10	7.00	3.50	0.00	19.00	3.50	4.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/13 11:15 PM	302.00	2.80	6.90	2.70	0.00	0.00	2.70	4.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/13 11:30 PM	317.00	1.80	6.20	2.80	0.00	18.90	2.80	4.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/13 11:45 PM	263.00	1.30	5.90	2.70	0.00	19.00	2.70	4.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00