



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
3-8-13 to 3-14-13

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³) (Upwind, Downwind, CDF, M1, M2, M3, M4), and Naphthalene (µg/m³) (Upwind, Downwind, CDF, M1, M2, M3, M4). Rows represent hourly readings from 3/8/13 12:00 AM to 3/8/13 11:30 PM.



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
3-8-13 to 3-14-13

Reading Time (EST)	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
3/8/13 11:45 PM	147.00	3.00	37.60	31.80	0.00	29.00	37.60	28.90	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:00 AM	149.00	3.20	36.30	33.00	0.00	29.50	36.30	29.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:15 AM	142.00	3.60	34.00	31.70	0.00	28.00	34.00	28.90	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:30 AM	150.00	5.60	32.80	30.60	0.00	27.10	32.80	27.30	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:45 AM	155.00	4.20	29.10	27.60	0.00	25.10	29.10	25.00	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:00 AM	148.00	5.20	27.40	26.40	0.00	24.00	27.40	22.80	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:15 AM	153.00	4.00	26.90	25.30	0.00	23.70	26.90	22.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:30 AM	168.00	4.10	24.60	23.70	0.00	22.30	24.60	21.30	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:45 AM	150.00	3.90	22.60	24.30	1.70	22.80	22.60	20.90	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:00 AM	166.00	4.10	21.30	23.30	2.00	0.00	21.30	20.70	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:15 AM	163.00	3.30	21.20	22.90	1.70	21.90	21.20	19.60	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:30 AM	167.00	3.80	20.20	21.70	1.50	21.10	20.20	20.20	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:45 AM	171.00	2.90	20.90	21.60	0.70	19.90	20.90	18.80	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:00 AM	162.00	3.10	21.10	21.20	0.10	19.90	21.10	18.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:15 AM	184.00	2.90	18.10	21.40	3.30	20.80	18.10	18.30	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:30 AM	185.00	3.60	18.70	20.50	1.80	20.50	21.00	18.70	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:45 AM	180.00	4.10	19.20	21.00	1.80	21.00	20.00	19.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 4:00 AM	174.00	3.40	19.40	21.00	1.60	21.00	19.20	19.40	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 4:15 AM	172.00	4.20	20.30	23.90	3.60	20.70	20.30	20.20	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 4:30 AM	152.00	5.80	19.60	23.90	4.30	20.80	19.60	21.60	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 4:45 AM	157.00	4.60	19.90	23.30	3.40	22.00	19.90	23.10	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 5:00 AM	161.00	5.80	22.00	27.10	5.10	0.00	22.00	21.90	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 5:15 AM	171.00	4.70	19.50	25.30	5.80	24.20	19.50	23.70	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 5:30 AM	185.00	4.20	19.80	25.80	6.00	24.10	19.80	22.80	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 5:45 AM	177.00	5.40	20.70	23.50	2.80	23.50	20.70	20.70	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 6:00 AM	171.00	4.60	20.70	24.40	3.70	24.50	20.70	20.60	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 6:15 AM	177.00	5.90	20.60	25.50	4.90	24.60	20.60	20.40	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 6:30 AM	183.00	4.30	21.00	25.60	4.60	24.30	21.00	20.10	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 6:45 AM	189.00	4.30	19.90	24.30	4.40	24.30	21.20	19.90	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 7:00 AM	195.00	3.40	19.80	23.70	3.90	23.70	21.00	19.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 7:15 AM	192.00	3.30	19.70	23.90	4.20	23.90	21.50	19.70	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 7:30 AM	183.00	4.50	19.60	24.30	4.70	24.30	24.30	19.60	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 7:45 AM	183.00	2.60	19.50	24.40	4.90	24.40	27.50	19.50	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 8:00 AM	167.00	3.10	19.00	26.00	7.00	26.00	29.20	19.00	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 8:15 AM	177.00	3.70	28.50	27.80	0.00	25.00	28.50	18.40	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 8:30 AM	180.00	4.30	23.80	28.90	5.10	25.80	23.80	16.00	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 8:45 AM	194.00	3.70	15.20	27.00	11.80	27.00	21.70	15.20	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 9:00 AM	172.00	3.80	14.20	27.50	13.30	27.50	20.20	14.20	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 9:15 AM	178.00	3.80	20.00	26.00	6.00	26.40	20.00	13.50	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 9:30 AM	160.00	4.20	18.90	23.10	4.20	27.30	18.90	11.70	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 9:45 AM	169.00	4.90	18.80	19.40	0.60	28.00	18.80	11.10	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 10:00 AM	159.00	4.50	19.00	18.90	0.00	25.30	19.00	10.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 10:15 AM	170.00	4.50	17.60	16.90	0.00	26.70	17.60	10.10	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 10:30 AM	178.00	4.60	17.00	16.50	0.00	23.80	17.00	10.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 10:45 AM	166.00	5.60	16.30	15.90	0.00	22.80	16.30	10.60	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 11:00 AM	173.00	5.10	15.30	15.50	0.20	22.60	15.30	11.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 11:15 AM	164.00	4.90	15.50	15.40	0.00	22.10	15.50	11.70	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 11:30 AM	174.00	5.90	14.80	15.30	0.50	20.30	14.80	11.80	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 11:45 AM	176.00	7.70	14.30	15.40	1.10	19.50	14.30	11.70	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:00 PM	181.00	4.80	13.30	15.00	1.70	18.90	13.30	11.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:15 PM	171.00	6.20	11.90	18.10	6.20	18.10	13.30	11.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:30 PM	178.00	7.10	16.10	15.30	0.00	18.90	16.10	12.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 12:45 PM	166.00	7.60	16.30	15.10	0.00	18.50	16.30	11.90	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:00 PM	169.00	6.60	15.50	15.20	0.00	18.40	15.50	11.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:15 PM	175.00	7.60	15.70	15.50	0.00	17.40	15.70	11.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:30 PM	169.00	7.80	15.60	15.10	0.00	16.50	15.60	10.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 1:45 PM	182.00	5.60	14.80	15.80	1.00	16.50	14.80	9.70	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:00 PM	170.00	9.00	8.00	16.20	8.20	16.20	14.70	8.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:15 PM	171.00	7.00	14.90	16.10	1.20	16.30	14.90	7.60	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:30 PM	184.00	8.70	15.40	16.40	1.00	17.10	15.40	8.10	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 2:45 PM	175.00	7.10	8.30	17.50	9.20	17.50	15.50	8.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:00 PM	168.00	6.50	16.00	18.20	2.20	18.60	16.00	9.10	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:15 PM	181.00	5.90	16.30	18.80	2.50	19.30	16.30	9.50	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:30 PM	164.00	8.00	9.80	20.10	10.30	20.10	15.60	9.80	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 3:45 PM	179.00	6.10	16.50	18.80	2.30	18.70	16.50	9.00	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/9/13 4:00 PM	166.00	6.40	14.90	18.10	3.20	1												



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)						Naphthalene (µg/m³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
3/9/13 11:30 PM	189.00	6.00	6.40	15.70	9.30	15.70	64.60	6.40	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/9/13 11:45 PM	197.00	5.90	6.50	23.00	16.50	23.00	73.90	6.50	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:00 AM	187.00	4.60	6.60	37.30	30.70	37.30	17.40	6.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:15 AM	187.00	6.40	6.50	47.70	41.20	47.70	28.40	6.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:30 AM	181.00	4.60	6.50	36.30	29.80	36.30	86.90	6.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:45 AM	181.00	5.50	6.50	27.10	20.60	27.10	65.50	6.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:00 AM	184.00	4.50	7.40	17.70	10.30	17.70	56.50	7.40	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:15 AM	181.00	5.40	6.70	13.50	6.80	13.50	25.50	6.70	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:30 AM	183.00	5.30	6.80	13.70	6.90	13.70	32.10	6.80	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:45 AM	181.00	4.20	8.50	13.50	5.00	13.50	10.10	8.50	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:00 AM	215.00	3.90	7.20	13.60	6.40	13.60	31.30	7.20	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:15 AM	221.00	3.90	7.40	29.60	22.20	29.60	10.60	7.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:30 AM	194.00	3.90	7.80	13.30	5.50	13.30	10.20	7.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:45 AM	205.00	4.40	7.60	13.50	5.90	13.50	10.80	7.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:00 AM	199.00	4.00	8.20	15.20	7.00	15.20	11.60	8.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:15 AM	192.00	4.80	8.30	14.80	6.50	14.80	11.00	8.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:30 AM	180.00	3.20	8.10	13.90	5.80	13.90	10.90	8.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:45 AM	191.00	3.10	8.20	12.50	4.30	12.50	10.10	8.20	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 5:00 AM	181.00	2.30	8.80	12.50	3.70	12.50	10.10	8.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 5:15 AM	172.00	2.60	8.80	12.50	3.70	12.50	10.10	8.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 5:30 AM	203.00	1.90	9.30	7.70	0.00	10.40	9.30	9.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 5:45 AM	162.00	2.70	9.30	12.10	2.80	12.10	10.70	9.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 6:00 AM	159.00	2.90	8.70	7.10	0.00	9.10	8.70	9.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 6:15 AM	164.00	2.80	11.30	7.00	0.00	9.10	11.30	9.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 6:30 AM	157.00	3.10	11.30	8.90	0.00	8.80	11.30	9.80	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 6:45 AM	153.00	3.80	8.80	9.80	1.00	8.60	8.80	10.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 7:00 AM	153.00	4.40	15.70	9.10	0.00	12.40	15.70	10.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 7:15 AM	159.00	3.30	16.90	9.10	0.00	13.50	16.90	10.10	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 7:30 AM	162.00	3.80	11.10	12.10	1.00	11.60	11.10	10.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 7:45 AM	173.00	3.40	11.70	10.00	0.00	13.30	11.70	10.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 8:00 AM	167.00	4.50	12.50	13.00	0.50	13.60	12.50	10.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 8:15 AM	167.00	4.80	15.00	15.60	0.60	14.70	15.00	10.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 8:30 AM	174.00	4.50	13.90	13.50	0.00	15.20	13.90	10.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 8:45 AM	187.00	4.70	14.80	14.30	0.00	16.70	14.80	10.70	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 9:00 AM	193.00	7.00	10.80	18.20	7.40	18.20	18.90	10.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 9:15 AM	181.00	8.60	14.50	18.80	4.30	18.80	20.20	14.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 9:30 AM	183.00	7.70	12.20	18.80	6.60	18.80	25.40	12.20	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 9:45 AM	190.00	7.30	13.00	18.90	5.90	18.90	24.90	13.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 10:00 AM	202.00	6.00	13.80	18.10	4.30	18.10	25.00	13.80	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 10:15 AM	196.00	8.10	14.30	18.00	3.70	18.00	25.60	14.30	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 10:30 AM	186.00	7.20	15.20	19.10	3.90	19.10	25.40	15.20	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 10:45 AM	181.00	6.00	15.70	20.10	4.40	20.10	24.20	15.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 11:00 AM	180.00	7.50	16.00	21.40	5.40	21.40	25.00	16.00	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 11:15 AM	183.00	5.50	16.60	20.90	4.30	20.90	23.80	16.60	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 11:30 AM	180.00	4.50	17.40	21.60	4.20	21.60	24.90	17.40	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 11:45 AM	183.00	4.10	17.70	20.90	3.20	20.90	24.60	17.70	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:00 PM	179.00	4.80	18.00	20.30	2.30	20.30	24.70	18.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:15 PM	177.00	5.30	24.90	21.80	0.00	20.10	24.90	18.50	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:30 PM	192.00	5.40	26.40	20.80	0.00	20.30	26.40	18.90	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 12:45 PM	189.00	6.10	18.90	21.00	2.10	21.00	28.90	18.90	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:00 PM	186.00	5.40	19.10	21.30	2.20	21.30	27.70	19.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:15 PM	178.00	5.40	19.00	22.30	3.30	22.30	27.70	19.00	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:30 PM	177.00	4.60	28.80	20.00	0.00	22.70	28.80	18.30	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 1:45 PM	182.00	5.50	28.80	21.20	0.00	24.10	28.80	18.60	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 2:00 PM	184.00	4.20	18.60	25.20	6.60	25.20	28.00	18.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 2:15 PM	176.00	4.10	18.90	25.60	6.70	25.60	29.90	18.90	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 2:30 PM	175.00	5.10	32.80	25.30	0.00	27.30	32.80	18.60	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 2:45 PM	151.00	3.60	32.20	27.20	0.00	27.30	32.20	18.60	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:00 PM	154.00	4.80	31.20	26.90	0.00	28.20	31.20	18.80	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:15 PM	159.00	3.90	33.10	24.80	0.00	28.90	33.10	19.00	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:30 PM	146.00	3.90	31.40	25.70	0.00	27.00	31.40	19.10	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 3:45 PM	179.00	4.00	28.30	23.30	0.00	24.50	28.30	20.20	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:00 PM	191.00	3.00	28.00	23.10	0.00	24.40	28.00	21.40	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:15 PM	177.00	1.70	20.70	22.80	2.10	22.80	26.90	20.70	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:30 PM	185.00	1.70	29.20	22.20	0.00	21.10	29.20	20.00	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 4:45 PM	159.00	1.20	19.60	21.30	1.70	21.30	24.40	19.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 5:00 PM	153.00	2.60	23.60	19.40	0.00	20.10	23.60	19.60	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 5:15 PM	160.00	2.90	23.10	19.60	0.00	21.10	23.10	19.70	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/13 5:30 PM	161.00	2.70	25.60	19.60	0.00	20.80	25.60	19.90	19.60	0.00	0.00					



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
3-8-13 to 3-14-13

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (ug/m^3), and Naphthalene (ug/m^3). Rows represent hourly data from 3/11/13 12:15 AM to 3/11/13 11:45 PM.



**US Army Corps
of Engineers**

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
3/12/13 12:00 AM	264.00	5.40	2.70	10.70	8.00	10.70	6.20	2.70	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 12:15 AM	263.00	5.40	3.40	10.60	7.20	10.60	6.60	3.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 12:30 AM	265.00	4.00	4.00	10.70	6.70	10.70	7.50	4.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 12:45 AM	268.00	6.60	4.90	11.40	6.50	11.40	8.30	4.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:00 AM	264.00	6.50	5.80	12.00	6.20	12.00	8.30	5.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:15 AM	282.00	5.30	7.40	12.60	5.20	12.60	8.60	7.40	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:30 AM	269.00	5.30	17.10	9.30	0.00	13.90	9.30	9.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:45 AM	267.00	5.20	9.40	14.20	4.80	14.20	9.90	9.40	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:00 AM	266.00	6.20	10.10	14.80	4.70	14.80	10.60	10.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:15 AM	298.00	6.10	10.60	15.40	4.80	15.40	11.90	10.60	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:30 AM	291.00	6.70	20.20	12.90	0.00	15.40	12.90	10.80	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:45 AM	270.00	7.10	20.10	13.10	0.00	0.00	13.10	11.20	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:00 AM	256.00	5.90	20.00	14.00	0.00	15.20	14.00	12.50	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:15 AM	278.00	7.60	13.20	14.80	1.60	14.80	14.60	13.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:30 AM	268.00	6.00	16.70	14.10	0.00	13.60	14.10	12.80	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:45 AM	285.00	5.80	12.60	13.20	0.60	13.20	13.60	12.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:00 AM	262.00	5.30	14.10	12.60	0.00	12.10	12.60	12.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:15 AM	268.00	6.20	12.90	13.40	0.50	13.40	13.50	12.90	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:30 AM	281.00	6.80	12.60	14.20	1.60	14.20	14.90	12.60	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:45 AM	285.00	7.30	18.80	18.20	0.00	14.20	18.20	10.90	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 5:00 AM	273.00	5.90	18.10	17.60	0.00	14.00	17.60	9.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 5:15 AM	264.00	6.50	16.60	14.00	0.00	13.60	14.00	7.10	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 5:30 AM	260.00	4.90	6.80	12.30	5.50	12.30	12.40	6.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 5:45 AM	274.00	4.60	7.90	13.60	5.70	13.60	14.00	7.90	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 6:00 AM	272.00	4.30	16.30	13.10	0.00	13.30	13.10	8.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 6:15 AM	262.00	4.00	14.20	8.90	0.00	12.60	8.90	6.90	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 6:30 AM	274.00	4.20	7.50	10.70	3.20	10.70	9.20	7.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 6:45 AM	263.00	4.30	11.60	9.30	0.00	10.30	9.30	7.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 7:00 AM	267.00	7.00	7.50	9.80	2.30	9.80	8.70	7.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 7:15 AM	264.00	6.90	8.00	10.10	2.10	10.10	7.60	8.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 7:30 AM	266.00	6.20	7.70	9.90	2.20	9.90	6.30	7.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 7:45 AM	278.00	4.50	8.30	10.10	1.80	10.10	5.00	8.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 8:00 AM	257.00	5.00	11.40	4.60	0.00	10.00	4.60	8.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 8:15 AM	276.00	5.50	9.40	10.30	0.90	10.30	5.10	9.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 8:30 AM	274.00	5.10	11.80	5.30	0.00	10.20	5.30	9.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 8:45 AM	286.00	3.30	11.00	5.60	0.00	10.10	5.60	8.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 9:00 AM	263.00	3.40	11.60	5.90	0.00	10.10	5.90	8.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 9:15 AM	250.00	3.80	8.90	10.10	1.20	10.10	7.20	8.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 9:30 AM	262.00	6.00	8.60	10.30	1.70	10.30	7.30	8.60	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 9:45 AM	283.00	4.60	8.70	0.00	0.00	0.00	7.30	8.70	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 10:00 AM	267.00	4.20	8.80	8.70	0.00	8.50	8.70	10.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 10:15 AM	254.00	7.20	8.90	9.70	0.80	9.70	8.80	8.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 10:30 AM	259.00	5.40	8.70	9.30	0.60	9.30	7.40	8.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 10:45 AM	249.00	5.50	7.70	8.20	0.50	8.20	6.60	7.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 11:00 AM	228.00	5.10	8.50	8.20	0.00	8.20	6.00	8.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 11:15 AM	238.00	6.90	11.90	8.90	0.00	8.90	7.70	11.90	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 11:30 AM	245.00	6.70	11.00	8.70	0.00	8.70	7.10	11.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 11:45 AM	255.00	8.80	10.70	7.60	0.00	7.60	5.60	10.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 12:00 PM	256.00	8.90	9.80	7.80	0.00	7.80	6.00	9.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 12:15 PM	251.00	7.60	9.20	7.40	0.00	7.40	5.30	9.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 12:30 PM	267.00	6.50	8.10	6.60	0.00	6.60	5.60	8.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 12:45 PM	279.00	7.50	6.50	5.90	0.00	5.90	2.90	6.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:00 PM	265.00	7.70	4.30	2.50	0.00	5.90	2.50	6.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:15 PM	253.00	7.50	5.70	5.60	0.00	5.60	2.50	5.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:30 PM	288.00	6.70	5.90	5.30	0.00	5.30	2.60	5.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 1:45 PM	258.00	5.30	6.60	4.20	0.00	5.90	4.20	6.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:00 PM	295.00	6.30	6.30	5.90	0.00	5.90	4.80	6.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:15 PM	274.00	7.20	10.00	7.80	0.00	6.30	7.80	7.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:30 PM	254.00	6.90	6.40	9.10	2.70	6.60	9.10	8.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 2:45 PM	264.00	7.40	9.70	7.40	0.00	7.40	10.70	9.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:00 PM	278.00	6.20	10.70	7.70	0.00	7.70	11.00	10.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:15 PM	268.00	7.10	9.20	11.40	2.20	8.40	11.40	11.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:30 PM	265.00	8.30	12.20	9.40	0.00	9.40	12.70	12.20	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 3:45 PM	310.00	5.90	13.30	9.50	0.00	9.50	14.30	13.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:00 PM	295.00	4.80	9.60	10.40	0.80	8.70	10.40	10.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:15 PM	279.00	6.70	8.60	10.50	1.90	8.40	10.50	10.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:30 PM	295.00	6.00	8.60	8.60	0.00	8.20	8.60	8.90	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 4:45 PM	273.00	6.70	8.80	9.50	0.70	9.10	9.50	9.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 5:00 PM	263.00	7.80	9.50	8.80	0.00	9.00	8.80	9.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/13 5:15 PM	263.00	8.80	10.10	9.10	0.00	9.10	9.60	10.10	10.9							



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
3-8-13 to 3-14-13

Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³) (Upwind, Downwind, CDF Contribution, M1, M2, M3, M4), and Naphthalene (µg/m³) (Upwind, Downwind, CDF Contribution, M1, M2, M3, M4). Rows represent hourly data from 3/12/13 11:45 PM to 3/13/13 11:15 PM.



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Table with columns: Reading Time (EST), Wind Direction, Wind Speed, Particulates (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4], and Naphthalene (µg/m³) [Upwind, Downwind, CDF Contribution, M1, M2, M3, M4]. Rows represent hourly data from 3/13/13 11:30 PM to 3/14/13 11:00 PM.



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
3/14/13 11:15 PM	208.00	3.50	11.20	19.70	8.50	19.70	9.50	11.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/14/13 11:30 PM	204.00	4.30	11.00	17.60	6.60	17.60	8.60	11.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/14/13 11:45 PM	202.00	4.40	10.40	16.80	6.40	16.80	7.70	10.40	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00