



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
			10/1/14 12:00 AM	129.00	4.00	7.30	8.90	1.60	14.60	7.30	7.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00
10/1/14 12:15 AM	130.00	3.90	9.40	5.60	0.00	7.40	9.40	7.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 12:30 AM	126.00	4.60	9.80	5.20	0.00	6.80	9.80	9.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 12:45 AM	138.00	2.40	11.40	4.80	0.00	6.20	11.40	6.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:00 AM	133.00	2.70	15.50	7.30	0.00	10.80	15.50	8.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:15 AM	120.00	2.60	4.90	12.40	7.50	16.10	4.90	7.10	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:30 AM	132.00	2.10	4.10	5.80	1.70	8.30	4.10	5.70	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:45 AM	144.00	2.40	3.50	6.30	2.80	10.00	3.50	6.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:00 AM	130.00	2.60	3.30	5.30	2.00	12.60	3.30	5.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:15 AM	121.00	2.60	3.80	6.60	2.80	9.60	3.80	5.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:30 AM	122.00	2.80	6.60	10.10	3.50	0.00	6.60	5.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:45 AM	135.00	2.30	5.50	7.20	1.70	13.80	5.50	6.60	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:00 AM	139.00	1.80	4.60	7.00	2.40	9.20	4.60	6.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:15 AM	150.00	1.90	6.80	7.00	0.20	10.80	6.80	7.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:30 AM	129.00	2.10	8.70	5.20	0.00	19.20	8.70	8.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:45 AM	131.00	2.40	15.40	5.80	0.00	11.70	15.40	10.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 4:00 AM	130.00	2.20	16.00	12.20	0.00	23.90	16.00	11.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 4:15 AM	146.00	1.60	11.30	14.70	3.40	26.20	11.30	9.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 4:30 AM	136.00	1.60	7.50	12.00	4.50	23.90	7.50	9.40	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 4:45 AM	132.00	2.50	9.20	12.00	2.80	20.60	9.20	10.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 5:00 AM	121.00	3.10	9.10	11.50	2.40	25.20	9.10	10.10	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 5:15 AM	120.00	2.50	8.50	9.40	0.90	14.90	8.50	10.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 5:30 AM	141.00	2.40	8.00	8.40	0.40	12.60	8.00	9.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 5:45 AM	126.00	2.80	8.70	7.00	0.00	16.40	8.70	10.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 6:00 AM	137.00	2.90	12.10	12.00	0.00	25.00	12.10	10.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 6:15 AM	140.00	1.70	10.40	8.10	0.00	17.90	10.40	12.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 6:30 AM	131.00	2.50	17.40	8.60	0.00	19.40	17.40	12.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 6:45 AM	124.00	2.60	16.30	10.10	0.00	20.80	16.30	12.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 7:00 AM	134.00	1.40	12.70	10.30	0.00	22.00	12.70	12.20	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 7:15 AM	124.00	2.40	12.20	10.50	0.00	21.30	12.20	13.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 7:30 AM	151.00	1.20	12.00	10.60	0.00	21.70	12.00	15.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 7:45 AM	164.00	2.50	14.60	9.70	0.00	25.70	14.60	15.50	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 8:00 AM	149.00	4.20	13.90	10.40	0.00	40.70	13.90	15.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 8:15 AM	140.00	4.00	13.30	8.30	0.00	24.60	13.30	14.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 8:30 AM	147.00	3.20	14.10	11.20	0.00	40.20	14.10	15.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 8:45 AM	159.00	3.30	13.20	11.00	0.00	24.00	13.20	15.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 9:00 AM	165.00	4.10	17.10	13.20	0.00	27.70	17.10	14.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 9:15 AM	149.00	3.60	21.40	15.50	0.00	28.80	21.40	15.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 9:30 AM	162.00	4.10	21.20	15.40	0.00	30.50	21.20	15.60	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 9:45 AM	159.00	4.60	22.00	14.60	0.00	28.80	22.00	15.50	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 10:00 AM	152.00	5.80	21.10	13.70	0.00	33.40	21.10	16.00	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 10:15 AM	153.00	3.30	19.30	11.90	0.00	31.10	19.30	15.90	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 10:30 AM	113.00	2.80	19.30	10.60	0.00	41.30	19.30	15.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 10:45 AM	162.00	4.70	17.50	10.90	0.00	27.30	17.50	14.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 11:00 AM	141.00	3.60	11.00	9.10	0.00	28.30	11.00	10.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 11:15 AM	187.00	3.40	10.60	17.30	6.70	17.30	11.40	10.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 11:30 AM	147.00	2.90	11.00	10.40	0.00	19.00	11.00	9.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 11:45 AM	151.00	4.80	9.70	9.90	0.20	20.10	9.70	8.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 12:00 PM	149.00	2.80	24.30	9.30	0.00	15.90	24.30	7.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 12:15 PM	158.00	3.80	10.40	9.70	0.00	15.90	10.40	7.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 12:30 PM	152.00	4.30	8.20	7.70	0.00	15.40	8.20	6.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 12:45 PM	149.00	4.90	8.10	7.20	0.00	15.10	8.10	6.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:00 PM	127.00	4.30	9.00	7.80	0.00	18.40	9.00	6.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:15 PM	183.00	3.70	6.30	16.60	10.30	16.60	8.10	6.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:30 PM	163.00	3.60	9.30	8.20	0.00	19.10	9.30	6.40	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 1:45 PM	128.00	3.40	9.80	8.60	0.00	20.70	9.80	6.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:00 PM	184.00	4.90	6.60	24.40	17.80	24.40	9.00	6.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:15 PM	167.00	3.20	9.00	7.60	0.00	20.30	9.00	6.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:30 PM	173.00	3.50	23.60	7.50	0.00	18.90	23.60	6.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 2:45 PM	143.00	4.70	9.40	7.50	0.00	22.50	9.40	6.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:00 PM	151.00	3.70	26.00	12.50	0.00	44.10	26.00	8.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:15 PM	152.00	4.00	18.70	14.50	0.00	70.10	18.70	8.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:30 PM	115.00	4.40	30.80	26.80	0.00	55.70	30.80	15.90	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 3:45 PM	155.00	3.20	31.30	31.20	0.00	62.20	31.30	11.80	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 4:00 PM	137.00	4.20	35.90	22.30	0.00	43.80	35.90	15.50	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/1/14 4:15 PM	138.00	5.60	18.70	8.60	0.00	18.90	18.70	11.70	8.60									



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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
10/2/14 1:15 AM	160.00	3.50	18.90	10.40	0.00	18.80	18.90	17.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 1:30 AM	136.00	4.20	20.20	10.80	0.00	21.10	20.20	17.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 1:45 AM	156.00	4.10	20.90	11.30	0.00	21.50	20.90	17.40	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:00 AM	161.00	4.90	19.90	10.70	0.00	20.70	19.90	17.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:15 AM	168.00	4.10	21.00	10.30	0.00	20.80	21.00	18.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:30 AM	166.00	4.00	21.40	10.30	0.00	20.90	21.40	18.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:45 AM	164.00	3.60	23.60	11.00	0.00	22.10	23.60	19.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:00 AM	178.00	3.70	24.60	11.00	0.00	21.80	24.60	20.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:15 AM	151.00	4.00	27.60	10.60	0.00	22.20	27.60	23.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:30 AM	155.00	4.10	28.10	10.90	0.00	22.50	28.10	25.50	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:45 AM	157.00	4.80	31.40	11.40	0.00	22.80	31.40	30.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:00 AM	156.00	3.30	37.40	11.40	0.00	24.30	37.40	32.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:15 AM	154.00	3.70	40.00	11.40	0.00	24.90	40.00	33.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:30 AM	151.00	2.40	42.00	11.80	0.00	25.60	42.00	33.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:45 AM	153.00	4.00	39.00	11.80	0.00	24.80	39.00	34.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:00 AM	158.00	2.50	38.50	12.10	0.00	25.60	38.50	35.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:15 AM	163.00	4.50	41.40	14.30	0.00	25.90	41.40	34.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:30 AM	158.00	4.40	42.90	15.20	0.00	27.40	42.90	34.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:45 AM	158.00	3.20	41.00	15.00	0.00	27.10	41.00	35.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 6:00 AM	169.00	4.00	41.90	14.60	0.00	26.90	41.90	35.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 6:15 AM	163.00	3.80	41.90	15.20	0.00	29.90	41.90	35.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 6:30 AM	154.00	4.70	43.10	14.80	0.00	28.20	43.10	35.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 6:45 AM	162.00	4.60	46.20	15.40	0.00	33.20	46.20	39.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 7:00 AM	191.00	3.40	42.70	33.40	0.00	33.40	49.80	42.70	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 7:15 AM	185.00	3.50	45.30	38.00	0.00	38.00	55.30	45.30	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 7:30 AM	187.00	2.80	46.40	35.10	0.00	35.10	55.30	46.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 7:45 AM	187.00	2.10	46.30	35.10	0.00	35.10	54.10	46.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 8:00 AM	167.00	0.90	50.30	17.50	0.00	36.10	50.30	46.30	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 8:15 AM	160.00	2.80	49.50	18.30	0.00	29.90	49.50	46.70	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 8:30 AM	130.00	1.90	52.50	18.80	0.00	31.40	52.50	48.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 8:45 AM	152.00	3.00	56.70	18.80	0.00	31.70	56.70	50.30	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 9:00 AM	134.00	2.70	60.10	18.00	0.00	35.20	60.10	51.20	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 9:15 AM	155.00	3.00	61.10	19.40	0.00	36.60	61.10	53.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 9:30 AM	163.00	3.50	61.40	19.90	0.00	35.50	61.40	52.80	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 9:45 AM	160.00	2.90	58.40	19.40	0.00	34.10	58.40	51.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 10:00 AM	166.00	3.00	64.40	18.40	0.00	37.30	64.40	50.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 10:15 AM	159.00	3.20	56.30	18.20	0.00	33.60	56.30	52.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 10:30 AM	158.00	2.60	76.60	19.50	0.00	36.10	76.60	51.20	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 10:45 AM	170.00	2.50	57.60	17.40	0.00	35.70	57.60	51.80	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 11:00 AM	169.00	3.00	56.40	16.80	0.00	34.50	56.40	51.40	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 11:15 AM	156.00	2.90	54.40	16.30	0.00	30.30	54.40	52.50	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 11:30 AM	161.00	2.80	58.90	15.70	0.00	30.20	58.90	51.30	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 11:45 AM	177.00	4.10	53.70	15.30	0.00	30.20	53.70	54.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 12:00 PM	162.00	2.60	55.40	16.10	0.00	31.00	55.40	53.40	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 12:15 PM	192.00	3.10	52.20	32.60	0.00	32.60	51.50	52.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 12:30 PM	201.00	4.50	52.00	30.50	0.00	30.50	49.60	52.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 12:45 PM	213.00	3.60	56.00	41.70	0.00	41.70	49.80	56.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 1:00 PM	227.00	3.50	54.20	31.20	0.00	31.20	49.20	54.20	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 1:15 PM	215.00	2.80	55.30	31.70	0.00	31.70	49.00	55.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 1:30 PM	228.00	4.10	57.70	33.70	0.00	33.70	48.70	57.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 1:45 PM	212.00	3.10	50.00	29.30	0.00	29.30	43.50	50.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:00 PM	212.00	2.90	37.20	24.00	0.00	24.00	31.00	37.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:15 PM	206.00	3.20	31.90	20.40	0.00	20.40	25.00	31.90	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:30 PM	227.00	3.00	30.20	20.50	0.00	20.50	25.00	30.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 2:45 PM	208.00	3.20	25.90	18.30	0.00	18.30	22.40	25.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:00 PM	200.00	3.70	24.00	17.60	0.00	17.60	20.60	24.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:15 PM	190.00	3.00	21.70	15.20	0.00	15.20	18.10	21.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:30 PM	186.00	2.50	20.40	13.70	0.00	13.70	16.10	20.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 3:45 PM	184.00	1.70	19.00	13.10	0.00	13.10	16.00	19.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:00 PM	127.00	3.30	17.80	7.20	0.00	13.70	17.80	17.60	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:15 PM	145.00	2.60	15.80	7.30	0.00	14.00	15.80	17.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:30 PM	123.00	2.00	15.90	7.20	0.00	12.70	15.90	19.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 4:45 PM	175.00	1.90	17.00	7.60	0.00	12.50	17.00	23.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:00 PM	189.00	2.40	26.80	15.80	0.00	15.80	22.10	26.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:15 PM	198.00	2.60	32.90	13.30	0.00	13.30	24.50	32.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:30 PM	175.00	2.90	25.50	8.80	0.00	16.30	25.50	36.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 5:45 PM	232.00	2.00	40.40	14.40	0.00	14.40	25.70	40.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 6:00 PM	185.00	2.60	42.90	13.60	0.00	13.60	24.90	42.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/14 6:15 PM	176.00	3.50	26.80	8.30	0.00	16.60	26.80	41.								



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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/3/14 2:30 AM	167.00	3.40	13.20	3.80	0.00	6.40	13.20	23.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 2:45 AM	160.00	4.50	13.60	3.70	0.00	6.20	13.60	24.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:00 AM	166.00	4.60	13.80	3.70	0.00	6.70	13.80	23.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:15 AM	170.00	3.80	14.50	3.90	0.00	6.60	14.50	24.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:30 AM	170.00	5.10	14.40	4.10	0.00	7.30	14.40	26.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:45 AM	184.00	3.90	25.60	7.40	0.00	7.40	14.60	25.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:00 AM	182.00	5.80	25.10	8.10	0.00	8.10	15.60	25.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:15 AM	197.00	5.00	24.80	8.40	0.00	8.40	15.50	24.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:30 AM	192.00	7.00	25.70	7.90	0.00	7.90	14.90	25.70	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:45 AM	192.00	7.30	26.40	8.00	0.00	8.00	15.60	26.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:00 AM	221.00	4.80	26.40	8.20	0.00	8.20	15.30	26.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:15 AM	212.00	5.80	24.10	7.40	0.00	7.40	14.30	24.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:30 AM	238.00	3.30	20.90	6.50	0.00	6.50	12.00	20.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:45 AM	230.00	4.00	16.30	6.50	0.00	6.50	11.40	16.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:00 AM	241.00	3.50	15.40	8.60	0.00	8.60	10.50	15.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:15 AM	257.00	4.00	12.30	5.00	0.00	5.00	7.70	12.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:30 AM	271.00	6.40	2.70	7.50	4.80	7.40	7.50	11.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:45 AM	326.00	7.30	2.60	6.60	4.00	5.30	6.60	10.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:00 AM	324.00	7.10	2.50	6.60	4.10	5.10	6.60	10.20	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:15 AM	332.00	5.50	2.30	6.90	4.60	5.70	6.90	9.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:30 AM	311.00	4.20	2.40	5.50	3.10	6.00	5.50	7.90	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:45 AM	309.00	5.40	1.70	2.80	1.10	2.90	2.80	1.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 8:00 AM	270.00	3.90	2.10	1.50	0.00	3.20	1.50	1.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 8:15 AM	277.00	4.50	2.00	1.10	0.00	3.10	1.10	0.80	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 8:30 AM	294.00	4.50	1.90	0.80	0.00	2.90	0.80	0.80	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 8:45 AM	307.00	3.40	2.10	0.70	0.00	2.90	0.70	0.90	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 9:00 AM	297.00	5.50	2.30	0.70	0.00	3.00	0.70	1.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 9:15 AM	292.00	3.20	2.00	0.60	0.00	2.90	0.60	1.10	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 9:30 AM	274.00	4.00	1.90	0.60	0.00	2.60	0.60	1.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 9:45 AM	262.00	4.50	1.10	2.70	1.60	2.70	0.70	1.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 10:00 AM	264.00	6.10	1.10	3.00	1.90	3.00	0.60	1.10	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 10:15 AM	267.00	4.50	1.10	2.50	1.40	2.50	0.60	1.10	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 10:30 AM	295.00	6.10	1.10	0.50	0.00	2.90	0.50	1.20	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 10:45 AM	315.00	8.00	1.10	0.60	0.00	3.00	0.60	1.30	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 11:00 AM	301.00	5.40	1.10	0.50	0.00	3.10	0.50	1.20	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 11:15 AM	300.00	10.00	0.90	0.50	0.00	0.00	0.50	1.10	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 11:30 AM	319.00	5.20	0.90	0.60	0.00	0.00	0.60	1.20	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 11:45 AM	286.00	9.00	1.50	0.60	0.00	2.60	0.60	1.20	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 12:00 PM	293.00	6.30	2.30	0.60	0.00	2.90	0.60	1.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 12:15 PM	298.00	5.20	2.90	0.60	0.00	3.20	0.60	1.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 12:30 PM	291.00	7.20	4.00	0.60	0.00	3.50	0.60	1.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 12:45 PM	260.00	5.50	1.20	3.80	2.60	3.80	0.70	1.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 1:00 PM	281.00	4.30	6.20	0.80	0.00	4.30	0.80	1.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 1:15 PM	261.00	6.60	1.30	4.70	3.40	4.70	0.70	1.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 1:30 PM	279.00	7.90	6.40	0.70	0.00	4.90	0.70	1.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 1:45 PM	278.00	7.10	6.90	0.70	0.00	5.20	0.70	1.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 2:00 PM	274.00	4.50	6.40	0.70	0.00	5.20	0.70	1.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 2:15 PM	268.00	8.90	1.30	6.50	5.20	6.50	0.80	1.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 2:30 PM	289.00	10.10	8.00	0.70	0.00	7.00	0.70	1.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 2:45 PM	272.00	7.10	6.40	0.70	0.00	7.00	0.70	1.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:00 PM	263.00	9.70	1.00	5.60	4.60	5.60	0.50	1.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:15 PM	272.00	4.70	6.40	0.60	0.00	6.40	0.60	1.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:30 PM	272.00	8.00	11.60	1.20	0.00	12.00	1.20	1.70	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 3:45 PM	257.00	10.10	1.60	11.30	9.70	11.30	1.90	1.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:00 PM	276.00	7.00	9.10	1.80	0.00	11.10	1.80	1.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:15 PM	266.00	6.80	1.20	9.60	8.40	9.60	1.90	1.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:30 PM	280.00	8.30	8.40	1.70	0.00	9.80	1.70	1.20	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 4:45 PM	270.00	7.30	9.20	2.00	0.00	8.60	2.00	1.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:00 PM	269.00	5.10	1.70	10.40	8.70	10.40	2.30	1.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:15 PM	269.00	5.10	1.90	9.50	7.60	9.50	2.70	1.90	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:30 PM	268.00	4.50	2.00	8.20	6.20	8.20	2.50	2.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 5:45 PM	260.00	7.10	2.00	7.80	5.80	7.80	2.30	2.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:00 PM	258.00	5.80	2.50	6.20	3.70	6.20	2.40	2.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:15 PM	262.00	6.30	2.40	5.90	3.50	5.90	2.00	2.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:30 PM	253.00	5.70	2.30	5.70	3.40	5.70	2.30	2.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 6:45 PM	274.00	5.40	8.70	2.00	0.00	6.60	2.00	2.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:00 PM	268.00	5.00	2.60	6.90	4.30	6.90	2.30	2.60	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:15 PM	264.00	3.80	2.70	6.90	4.20	6.90	2.40	2.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:30 PM	265.00	6.90	3.30	6.80	3.50	6.80	2.80	3.30	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 7:45 PM	275.00	6.10	6.50	3.60	0.00	7.50	3.60	3.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/3/14 8:00 PM	287.00	4.20	6.40	3.70	0.00	7.90	3.70									



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Real-Time Air Monitoring Data  
October 2014

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
10/4/14 3:45 AM	268.00	6.60	7.70	10.90	3.20	10.90	5.00	7.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:00 AM	277.00	4.50	9.70	5.30	0.00	11.10	5.30	8.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:15 AM	263.00	5.30	9.10	11.40	2.30	11.40	6.80	9.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:30 AM	273.00	4.70	9.30	6.80	0.00	12.40	6.80	8.40	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:45 AM	268.00	4.70	9.10	13.40	4.30	13.40	7.40	9.10	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:00 AM	256.00	4.10	9.30	11.80	2.50	11.80	7.20	9.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:15 AM	243.00	6.90	9.50	11.10	1.60	11.10	6.80	9.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:30 AM	269.00	3.90	9.60	9.30	0.00	9.30	6.60	9.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:45 AM	259.00	5.10	9.50	9.40	0.00	9.40	6.90	9.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:00 AM	243.00	5.60	8.90	9.70	0.80	9.70	5.90	8.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:15 AM	244.00	7.40	8.80	8.60	0.00	8.60	6.00	8.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:30 AM	249.00	8.20	9.00	9.20	0.20	9.20	6.60	9.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:45 AM	244.00	5.90	9.00	8.80	0.00	8.80	5.60	9.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:00 AM	242.00	8.30	9.00	9.40	0.40	9.40	5.20	9.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:15 AM	239.00	6.30	9.80	9.60	0.00	9.60	6.10	9.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:30 AM	246.00	6.70	9.20	8.90	0.00	8.90	6.40	9.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:45 AM	240.00	7.90	9.00	8.90	0.00	8.90	6.40	9.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:00 AM	259.00	7.60	9.30	8.90	0.00	8.90	5.90	9.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:15 AM	258.00	5.50	10.70	7.60	0.00	7.60	6.80	10.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:30 AM	225.00	5.90	9.50	8.40	0.00	8.40	5.40	9.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:45 AM	228.00	4.60	9.10	8.90	0.00	8.90	6.00	9.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 9:00 AM	221.00	6.20	9.40	8.00	0.00	8.00	6.40	9.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 9:15 AM	244.00	5.50	10.60	7.50	0.00	7.50	7.70	10.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 9:30 AM	240.00	7.40	11.00	7.60	0.00	7.60	7.90	11.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 9:45 AM	219.00	6.60	11.80	8.50	0.00	8.50	9.80	11.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 10:00 AM	241.00	5.30	11.80	7.70	0.00	7.70	9.40	11.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 10:15 AM	247.00	6.40	11.50	7.00	0.00	7.00	8.60	11.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 10:30 AM	252.00	9.10	10.70	6.50	0.00	6.50	8.00	10.70	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 10:45 AM	243.00	6.10	11.00	6.00	0.00	6.00	8.40	11.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 11:00 AM	239.00	6.80	11.30	6.00	0.00	6.00	8.50	11.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 11:15 AM	241.00	8.20	10.50	6.40	0.00	6.40	8.50	10.50	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 11:30 AM	244.00	5.80	10.20	5.20	0.00	5.20	7.90	10.20	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 11:45 AM	248.00	6.70	10.40	6.50	0.00	6.50	7.60	10.40	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 12:00 PM	252.00	7.10	9.80	5.80	0.00	5.80	7.50	9.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 12:15 PM	249.00	5.90	10.90	7.30	0.00	7.30	8.80	10.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 12:30 PM	265.00	5.60	9.10	4.90	0.00	4.90	5.00	9.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 12:45 PM	241.00	7.10	9.00	5.30	0.00	5.30	4.40	9.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 1:00 PM	250.00	6.60	8.20	4.10	0.00	4.10	3.70	8.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 1:15 PM	242.00	8.10	8.10	4.10	0.00	4.10	3.40	8.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 1:30 PM	261.00	6.90	8.10	3.20	0.00	3.20	3.80	8.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 1:45 PM	259.00	7.00	8.10	3.60	0.00	3.60	3.40	8.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 2:00 PM	257.00	5.80	7.80	2.90	0.00	2.90	3.00	7.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 2:15 PM	274.00	6.90	1.30	5.80	4.50	4.50	5.80	9.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 2:30 PM	271.00	8.60	1.30	7.30	6.00	4.90	7.30	10.20	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 2:45 PM	257.00	7.10	9.70	4.80	0.00	4.80	8.10	9.70	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 3:00 PM	266.00	5.60	10.00	4.50	0.00	4.50	7.10	10.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 3:15 PM	258.00	7.90	9.50	4.70	0.00	4.70	6.40	9.50	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 3:30 PM	265.00	4.90	9.80	5.10	0.00	5.10	6.80	9.80	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 3:45 PM	268.00	7.30	9.20	6.00	0.00	6.00	7.10	9.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:00 PM	257.00	7.70	9.20	6.30	0.00	6.30	6.70	9.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:15 PM	257.00	7.30	8.20	5.60	0.00	5.60	6.80	8.20	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:30 PM	247.00	8.20	8.10	5.80	0.00	5.80	5.90	8.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 4:45 PM	268.00	8.00	7.60	4.90	0.00	4.90	5.40	7.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:00 PM	266.00	7.50	6.90	5.50	0.00	5.50	5.40	6.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:15 PM	261.00	6.00	6.70	5.80	0.00	5.80	5.20	6.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:30 PM	252.00	6.80	6.50	6.10	0.00	6.10	4.80	6.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 5:45 PM	263.00	6.20	6.70	5.50	0.00	5.50	4.50	6.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:00 PM	254.00	4.90	5.50	4.20	0.00	4.20	4.20	5.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:15 PM	258.00	6.00	5.20	4.70	0.00	4.70	3.50	5.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:30 PM	259.00	4.80	5.10	4.40	0.00	4.40	3.50	5.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 6:45 PM	244.00	4.40	5.10	4.30	0.00	4.30	2.80	5.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:00 PM	258.00	4.60	5.10	5.20	0.10	5.20	3.00	5.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:15 PM	260.00	5.70	5.00	4.70	0.00	4.70	3.80	5.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:30 PM	256.00	3.60	5.40	4.90	0.00	4.90	4.70	5.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 7:45 PM	250.00	3.80	5.10	4.90	0.00	4.90	3.90	5.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:00 PM	260.00	5.20	5.40	5.50	0.10	5.50	4.70	5.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:15 PM	256.00	4.10	5.20	5.00	0.00	5.00	5.00	5.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:30 PM	250.00	4.30	5.50	5.20	0.00	5.20	5.50	5.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 8:45 PM	234.00	5.00	5.40	5.80	0.40	5.80	5.40	5.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 9:00 PM	242.00	5.80	5.40	5.90	0.50	5.90	5.90	5.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/14 9:15 PM	255.00	4.80	5.70	5.60	0.00	5.60	5.80	5.70								



US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/5/14 5:00 AM	215.00	3.70	7.90	7.60	0.00	7.60	7.80	7.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 5:15 AM	213.00	2.20	8.10	7.00	0.00	7.00	7.90	8.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 5:30 AM	211.00	2.80	8.10	7.60	0.00	7.60	8.50	8.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 5:45 AM	204.00	2.30	7.80	7.00	0.00	7.00	9.20	7.80	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:00 AM	213.00	2.70	8.00	6.50	0.00	6.50	8.00	8.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:15 AM	207.00	4.10	7.50	6.10	0.00	6.10	8.00	7.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:30 AM	208.00	3.50	7.60	6.50	0.00	6.50	8.60	7.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:45 AM	211.00	4.20	7.20	6.70	0.00	6.70	6.00	7.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:00 AM	215.00	2.90	6.90	5.50	0.00	5.50	6.30	6.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:15 AM	215.00	3.10	7.20	6.20	0.00	6.20	11.20	7.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:30 AM	211.00	3.50	7.10	5.60	0.00	5.60	12.10	7.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:45 AM	206.00	2.70	7.00	5.40	0.00	5.40	6.60	7.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:00 AM	217.00	4.00	7.00	6.00	0.00	6.00	6.00	7.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:15 AM	194.00	3.80	6.80	5.80	0.00	5.80	6.60	6.80	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:30 AM	208.00	3.50	6.60	5.50	0.00	5.50	5.70	6.60	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:45 AM	193.00	5.00	6.60	5.70	0.00	5.70	5.50	6.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:00 AM	215.00	3.90	6.40	6.50	0.10	6.50	5.00	6.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:15 AM	216.00	6.40	6.60	6.20	0.00	6.20	6.20	6.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:30 AM	220.00	4.00	7.20	0.00	0.00	0.00	6.90	7.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:45 AM	210.00	4.40	8.10	10.60	2.50	10.60	10.30	8.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 10:00 AM	220.00	5.50	7.80	9.60	1.80	9.60	7.70	7.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 10:15 AM	221.00	4.70	5.90	6.70	0.80	6.70	4.80	5.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 10:30 AM	242.00	5.20	5.80	6.00	0.20	6.00	4.90	5.80	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 10:45 AM	251.00	5.90	5.50	5.80	0.30	5.80	4.60	5.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 11:00 AM	226.00	6.60	4.90	5.00	0.10	5.00	4.10	4.90	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 11:15 AM	222.00	6.50	4.80	5.70	0.90	5.70	4.40	4.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 11:30 AM	245.00	6.70	4.60	5.60	1.00	5.60	3.10	4.60	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 11:45 AM	251.00	6.80	4.40	5.10	0.70	5.10	3.20	4.40	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 12:00 PM	234.00	7.90	4.00	5.70	1.70	5.70	3.40	4.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 12:15 PM	221.00	8.30	4.10	5.20	1.10	5.20	4.20	4.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 12:30 PM	217.00	7.00	4.50	5.00	0.50	5.00	3.90	4.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 12:45 PM	240.00	8.30	4.20	5.60	1.40	5.60	3.60	4.20	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 1:00 PM	225.00	8.50	4.50	0.00	0.00	0.00	3.50	4.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 1:15 PM	223.00	7.70	4.50	7.10	2.60	7.10	3.30	4.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 1:30 PM	225.00	8.60	4.60	7.30	2.70	7.30	4.00	4.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 1:45 PM	229.00	9.80	4.80	7.40	2.60	7.40	4.10	4.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 2:00 PM	236.00	9.10	5.00	7.80	2.80	7.80	4.40	5.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 2:15 PM	239.00	7.20	5.20	7.80	2.60	7.80	5.50	5.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 2:30 PM	232.00	4.90	5.90	8.30	2.40	8.30	6.20	5.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 2:45 PM	229.00	6.90	6.00	8.10	2.10	8.10	7.10	6.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 3:00 PM	227.00	6.00	6.30	8.20	1.90	8.20	6.80	6.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 3:15 PM	230.00	5.90	6.10	7.50	1.40	7.50	6.40	6.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 3:30 PM	232.00	6.70	6.80	6.60	0.00	6.60	6.40	6.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 3:45 PM	243.00	6.00	7.00	6.30	0.00	6.30	7.10	7.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 4:00 PM	231.00	6.00	6.90	0.00	0.00	0.00	6.90	6.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 4:15 PM	216.00	4.00	6.80	7.20	0.40	7.20	6.50	6.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 4:30 PM	238.00	4.80	0.00	6.80	0.00	6.80	7.10	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 4:45 PM	224.00	5.30	6.80	6.40	0.00	6.40	7.10	6.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 5:00 PM	232.00	6.00	6.70	0.00	0.00	0.00	6.60	6.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 5:15 PM	240.00	3.20	6.30	6.30	0.00	6.30	6.20	6.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 5:30 PM	242.00	3.90	5.80	6.50	0.70	6.50	6.50	5.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 5:45 PM	215.00	3.80	5.80	6.80	1.00	6.80	6.20	5.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:00 PM	224.00	3.10	6.20	6.70	0.50	6.70	6.80	6.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:15 PM	212.00	2.40	6.30	7.60	1.30	7.60	6.50	6.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:30 PM	207.00	3.10	6.30	6.70	0.40	6.70	7.10	6.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 6:45 PM	209.00	2.40	6.50	6.80	0.30	6.80	8.00	6.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:00 PM	205.00	2.00	6.60	6.70	0.10	6.70	6.90	6.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:15 PM	209.00	2.00	6.70	6.80	0.10	6.80	7.30	6.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:30 PM	198.00	1.50	7.60	7.30	0.00	7.30	7.40	7.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 7:45 PM	225.00	1.90	7.90	7.20	0.00	7.20	7.90	7.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:00 PM	217.00	1.90	8.50	7.10	0.00	7.10	8.30	8.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:15 PM	210.00	1.50	8.80	7.40	0.00	7.40	8.80	8.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:30 PM	188.00	2.70	9.00	7.10	0.00	7.10	9.10	9.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 8:45 PM	205.00	2.50	10.20	7.70	0.00	7.70	16.30	10.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:00 PM	201.00	2.90	13.30	14.30	1.00	14.30	20.70	13.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:15 PM	213.00	2.70	11.70	10.50	0.00	10.50	19.00	11.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:30 PM	216.00	2.80	10.80	10.50	0.00	10.50	16.20	10.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 9:45 PM	201.00	3.00	11.40	9.80	0.00	9.80	15.60	11.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 10:00 PM	0.00	0.00	0.00	0.00	0.00	0.00	9.80	15.60	11.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 10:15 PM	141.00	1.00	14.20	5.60	0.00	9.80	14.20	11.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/14 10:30 PM	203.00	2.90	12.40	9.20	0.00	9.20	13.70	12.40	5.70	0.0						



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
10/6/14 6:15 AM	205.00	3.10	21.60	18.00	0.00	18.00	27.90	21.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 6:30 AM	193.00	4.30	23.60	19.60	0.00	19.60	26.70	23.60	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 6:45 AM	204.00	3.40	20.90	17.00	0.00	17.00	23.90	20.90	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:00 AM	200.00	2.60	19.60	15.90	0.00	15.90	15.10	19.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:15 AM	199.00	2.30	12.10	0.00	0.00	0.00	10.10	12.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:30 AM	205.00	2.40	11.90	7.60	0.00	7.60	9.80	11.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:45 AM	226.00	2.20	11.10	8.40	0.00	8.40	10.90	11.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:00 AM	181.00	2.90	11.20	9.00	0.00	9.00	11.60	11.20	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:15 AM	202.00	4.00	11.70	0.00	0.00	0.00	9.20	11.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:30 AM	194.00	4.00	12.00	9.20	0.00	9.20	9.60	12.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:45 AM	191.00	3.50	12.80	9.90	0.00	9.90	11.70	12.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:00 AM	182.00	4.30	15.50	12.80	0.00	12.80	15.10	15.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:15 AM	195.00	3.70	14.60	0.00	0.00	0.00	16.00	14.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:30 AM	197.00	5.00	13.70	10.30	0.00	10.30	11.20	13.70	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:45 AM	185.00	4.80	13.20	10.50	0.00	10.50	11.20	13.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:00 AM	196.00	5.50	12.30	10.10	0.00	10.10	10.30	12.30	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:15 AM	213.00	4.50	12.30	9.20	0.00	9.20	10.50	12.30	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:30 AM	227.00	5.60	12.40	8.40	0.00	8.40	10.10	12.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:45 AM	236.00	7.20	12.10	8.20	0.00	8.20	9.00	12.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 11:00 AM	228.00	6.50	12.10	8.30	0.00	8.30	9.60	12.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 11:15 AM	220.00	4.00	12.20	7.50	0.00	7.50	8.60	12.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 11:30 AM	238.00	5.70	12.00	7.70	0.00	7.70	9.50	12.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 11:45 AM	241.00	5.90	12.10	8.20	0.00	8.20	8.60	12.10	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 12:00 PM	237.00	8.40	12.30	8.60	0.00	8.60	10.80	12.30	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 12:15 PM	269.00	6.80	11.30	8.70	0.00	8.70	9.40	11.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 12:30 PM	261.00	6.60	11.00	9.20	0.00	9.20	10.50	11.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 12:45 PM	265.00	6.90	8.70	8.00	0.00	8.00	7.60	8.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 1:00 PM	261.00	7.30	8.50	9.30	0.80	9.30	8.30	8.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 1:15 PM	225.00	6.90	8.10	8.80	0.70	8.80	8.80	8.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 1:30 PM	257.00	7.30	7.50	8.60	1.10	8.60	7.20	7.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 1:45 PM	245.00	6.60	6.50	8.00	1.50	8.00	6.50	6.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 2:00 PM	227.00	7.60	6.40	8.50	2.10	8.50	6.70	6.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 2:15 PM	229.00	4.80	5.80	7.10	1.30	7.10	5.60	5.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 2:30 PM	264.00	6.80	5.70	8.90	3.20	8.90	5.20	5.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 2:45 PM	266.00	8.70	5.90	9.50	3.60	9.50	6.10	5.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 3:00 PM	245.00	7.80	5.70	9.10	3.40	9.10	6.20	5.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 3:15 PM	264.00	8.90	6.50	8.50	2.00	8.50	4.50	6.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 3:30 PM	259.00	7.00	5.90	8.80	2.90	8.80	5.20	5.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 3:45 PM	271.00	7.20	7.00	5.10	0.00	6.80	5.10	6.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 4:00 PM	249.00	6.50	5.80	8.90	3.10	8.90	6.10	5.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 4:15 PM	235.00	8.10	6.10	8.30	2.20	8.30	5.70	6.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 4:30 PM	279.00	8.20	10.40	5.70	0.00	14.70	5.70	6.40	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 4:45 PM	247.00	7.00	8.60	10.80	2.20	10.80	6.80	8.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 5:00 PM	244.00	5.50	6.70	9.40	2.70	9.40	6.10	6.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 5:15 PM	250.00	4.20	6.90	9.70	2.80	9.70	6.30	6.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 5:30 PM	248.00	5.50	7.60	8.60	1.00	8.60	7.00	7.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 5:45 PM	265.00	6.20	7.40	9.00	1.60	9.00	5.90	7.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 6:00 PM	274.00	2.80	9.80	6.50	0.00	9.40	6.50	7.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 6:15 PM	268.00	3.20	7.60	9.00	1.40	9.00	6.90	7.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 6:30 PM	259.00	2.80	7.70	8.30	0.60	8.30	7.20	7.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 6:45 PM	259.00	2.70	8.20	9.30	1.10	9.30	7.40	8.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:00 PM	258.00	2.20	8.30	10.30	2.00	10.30	7.60	8.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:15 PM	244.00	2.30	8.50	9.40	0.90	9.40	9.20	8.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:30 PM	249.00	2.60	8.60	10.60	2.00	10.60	9.10	8.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 7:45 PM	255.00	2.60	9.80	0.00	0.00	0.00	11.30	9.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:00 PM	251.00	2.30	9.90	11.50	1.60	11.50	11.60	9.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:15 PM	253.00	2.70	11.80	13.10	1.30	13.10	13.10	11.80	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:30 PM	251.00	2.40	11.40	12.90	1.50	12.90	15.40	11.40	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 8:45 PM	242.00	1.90	11.40	13.20	1.80	13.20	16.70	11.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:00 PM	223.00	1.80	12.30	12.90	0.60	12.90	17.10	12.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:15 PM	222.00	1.50	13.30	14.30	1.00	14.30	17.20	13.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:30 PM	216.00	1.80	12.70	14.50	1.80	14.50	16.60	12.70	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 9:45 PM	219.00	2.10	13.70	12.10	0.00	12.10	15.70	13.70	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:00 PM	214.00	2.20	14.40	14.00	0.00	14.00	17.40	14.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:15 PM	192.00	2.30	16.40	17.50	1.10	17.50	18.80	16.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:30 PM	202.00	1.70	17.40	18.10	0.70	18.10	22.00	17.40	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 10:45 PM	215.00	2.50	17.90	19.10	1.20	19.10	19.80	17.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 11:00 PM	206.00	2.50	16.70	17.70	1.00	17.70	18.20	16.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 11:15 PM	204.00	2.90	16.60	16.60	0.00	16.60	17.90	16.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/6/14 11:30 PM	198.00	2.20	16.10	16.40	0.30	16.40	18.90	16.10	12.00	0								



**US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/7/14 7:30 AM	191.00	5.00	15.90	6.50	0.00	6.50	10.40	15.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 7:45 AM	187.00	4.90	15.60	6.20	0.00	6.20	11.00	15.60	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:00 AM	197.00	6.30	15.50	5.60	0.00	5.60	12.90	15.50	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:15 AM	196.00	5.10	15.20	6.40	0.00	6.40	11.10	15.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:30 AM	189.00	4.10	15.40	5.90	0.00	5.90	10.10	15.40	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:45 AM	199.00	5.40	14.80	5.70	0.00	5.70	9.70	14.80	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:00 AM	192.00	4.10	14.30	6.00	0.00	6.00	11.60	14.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:15 AM	195.00	5.10	13.60	6.20	0.00	6.20	9.20	13.60	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:30 AM	199.00	5.90	12.90	6.40	0.00	6.40	9.60	12.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:45 AM	200.00	5.10	12.60	6.70	0.00	6.70	9.60	12.60	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:00 AM	197.00	6.20	13.00	7.00	0.00	7.00	10.40	13.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:15 AM	189.00	6.50	13.20	7.30	0.00	7.30	10.40	13.20	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:30 AM	198.00	5.30	13.60	7.80	0.00	7.80	12.00	13.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:45 AM	192.00	5.00	14.00	7.80	0.00	7.80	11.90	14.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:00 AM	215.00	5.70	14.40	7.90	0.00	7.90	11.80	14.40	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:15 AM	235.00	4.60	15.10	7.90	0.00	7.90	11.70	15.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:30 AM	236.00	4.70	15.00	7.60	0.00	7.60	11.40	15.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:45 AM	216.00	5.20	15.80	8.80	0.00	8.80	13.10	15.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 12:00 PM	239.00	5.80	15.80	8.30	0.00	8.30	13.40	15.80	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 12:15 PM	232.00	5.80	14.30	8.70	0.00	8.70	12.60	14.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 12:30 PM	226.00	4.40	13.20	8.80	0.00	8.80	12.20	13.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 12:45 PM	253.00	5.10	11.60	8.40	0.00	8.40	11.40	11.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 1:00 PM	241.00	4.00	11.20	8.80	0.00	8.80	12.10	11.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 1:15 PM	247.00	4.00	10.50	9.20	0.00	9.20	11.10	10.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 1:30 PM	239.00	4.00	10.40	10.00	0.00	10.00	11.00	10.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 1:45 PM	230.00	5.60	8.90	9.40	0.50	9.40	11.00	8.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 2:00 PM	285.00	5.20	5.50	8.80	3.30	8.90	8.80	7.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 2:15 PM	289.00	3.80	5.40	8.80	3.40	8.90	8.80	7.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 2:30 PM	290.00	5.90	8.90	7.70	0.00	9.60	7.70	7.40	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 2:45 PM	268.00	5.00	6.60	10.30	3.70	10.30	8.20	6.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 3:00 PM	302.00	6.00	8.00	8.20	0.20	12.30	8.20	7.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 3:15 PM	275.00	5.70	9.00	12.40	3.40	11.30	12.40	7.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 3:30 PM	256.00	5.20	8.00	16.50	8.50	16.50	10.50	8.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 3:45 PM	277.00	6.80	10.30	9.30	0.00	11.90	9.30	7.70	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 4:00 PM	252.00	8.00	8.30	14.20	5.90	14.20	8.90	8.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 4:15 PM	261.00	6.80	7.40	15.40	8.00	15.40	10.30	7.40	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 4:30 PM	259.00	7.90	7.50	14.20	6.70	14.20	9.30	7.50	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 4:45 PM	271.00	4.10	14.60	9.70	0.00	15.20	9.70	8.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 5:00 PM	280.00	8.80	15.50	7.40	0.00	12.00	7.40	7.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 5:15 PM	0.00	0.00	0.00	0.00	0.00	10.60	6.40	7.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 5:30 PM	255.00	7.50	10.10	10.30	0.20	10.30	5.80	10.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 5:45 PM	262.00	5.20	13.20	9.50	0.00	9.50	7.00	13.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 6:00 PM	269.00	5.40	15.00	11.00	0.00	11.00	7.80	15.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 6:15 PM	266.00	6.20	16.90	10.20	0.00	10.20	8.10	16.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 6:30 PM	275.00	5.00	11.60	8.40	0.00	10.70	8.40	17.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 6:45 PM	274.00	3.80	12.00	8.10	0.00	13.90	8.10	17.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 7:00 PM	260.00	3.80	18.40	16.40	0.00	16.40	9.00	18.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 7:15 PM	277.00	4.60	7.70	9.00	1.30	10.50	9.00	17.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 7:30 PM	264.00	4.50	16.70	11.30	0.00	11.30	8.90	16.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 7:45 PM	269.00	3.60	16.90	11.10	0.00	11.10	9.70	16.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:00 PM	257.00	3.40	17.00	10.40	0.00	10.40	10.20	17.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:15 PM	248.00	2.60	19.20	0.00	0.00	0.00	14.20	19.20	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:30 PM	248.00	1.90	18.40	10.20	0.00	10.20	13.60	18.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 8:45 PM	238.00	2.30	17.50	10.40	0.00	10.40	11.80	17.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:00 PM	232.00	2.50	18.10	10.60	0.00	10.60	11.70	18.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:15 PM	248.00	2.70	19.10	10.80	0.00	10.80	13.40	19.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:30 PM	259.00	3.90	20.00	12.70	0.00	12.70	15.00	20.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 9:45 PM	266.00	4.60	20.40	13.10	0.00	13.10	16.60	20.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:00 PM	268.00	3.50	22.70	14.40	0.00	14.40	23.20	22.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:15 PM	265.00	4.10	23.80	16.30	0.00	16.30	23.00	23.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:30 PM	274.00	3.80	5.50	19.60	14.10	13.20	19.60	24.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 10:45 PM	272.00	4.00	6.30	16.10	9.80	13.40	16.10	25.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:00 PM	265.00	4.10	22.80	12.60	0.00	12.60	15.60	22.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:15 PM	272.00	3.80	8.70	14.50	5.80	12.50	14.50	19.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:30 PM	261.00	2.80	18.90	12.10	0.00	12.10	15.70	18.90	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/14 11:45 PM	258.00	3.40	18.70	11.70	0.00	11.70	13.50	18.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/8/14 12:00 AM	264.00	2.60	18.90	11.70	0.00	11.70	13.20	18.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/8/14 12:15 AM	245.00	2.10	18.80	10.80	0.00	10.80	13.60	18.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/8/14 12:30 AM	262.00	2.60	19.50	15.70	0.00	15.70	14.90	19.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/8/14 12:45 AM	253.00	2.90	18.40	14.40	0.0											



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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		
10/8/14 8:45 AM	265.00	3.30	22.00	23.80	1.80	23.80	22.90	22.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:00 AM	278.00	4.00	13.90	22.90	9.00	27.70	22.90	21.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:15 AM	284.00	3.60	13.50	22.90	9.40	22.30	22.90	20.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:30 AM	282.00	3.40	12.70	23.80	11.10	20.00	23.80	20.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:45 AM	254.00	4.60	21.30	24.50	3.20	24.50	25.30	21.30	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:00 AM	255.00	5.40	20.50	28.30	7.80	28.30	23.50	20.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:15 AM	248.00	5.80	18.40	22.60	4.20	22.60	18.80	18.40	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:30 AM	274.00	4.30	15.80	19.00	3.20	23.60	19.00	17.50	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:45 AM	289.00	5.00	15.80	19.10	3.30	23.80	19.10	17.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:00 AM	263.00	4.20	16.80	26.00	9.20	26.00	18.80	16.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:15 AM	279.00	6.10	14.70	21.60	6.90	22.80	21.60	17.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:30 AM	301.00	6.40	13.20	16.30	3.10	20.50	16.30	15.90	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:45 AM	263.00	5.80	15.50	17.90	2.40	17.90	12.80	15.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 12:00 PM	283.00	6.30	11.20	10.30	0.00	12.30	10.30	12.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 12:15 PM	286.00	5.60	10.50	7.30	0.00	13.60	7.30	12.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 12:30 PM	286.00	8.60	9.70	7.60	0.00	10.90	7.60	11.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 12:45 PM	278.00	4.50	12.10	10.00	0.00	18.70	10.00	12.40	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 1:00 PM	285.00	7.80	16.50	8.80	0.00	20.20	8.80	11.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 1:15 PM	257.00	6.90	11.00	11.90	0.90	11.90	7.30	11.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 1:30 PM	244.00	6.40	11.40	11.00	0.00	11.00	7.70	11.40	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 1:45 PM	306.00	6.70	8.80	8.30	0.00	11.60	8.30	10.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 2:00 PM	263.00	5.70	11.70	10.30	0.00	10.30	8.60	11.70	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 2:15 PM	247.00	7.60	11.50	14.30	2.80	14.30	7.40	11.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 2:30 PM	271.00	6.20	9.10	6.40	0.00	10.20	6.40	10.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 2:45 PM	267.00	6.20	11.20	19.10	7.90	19.10	6.70	11.20	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 3:00 PM	278.00	6.30	10.30	7.10	0.00	15.80	7.10	12.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 3:15 PM	281.00	6.60	7.70	7.60	0.00	10.00	7.60	11.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 3:30 PM	249.00	7.10	11.90	16.10	4.20	16.10	6.90	11.90	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 3:45 PM	257.00	6.40	13.00	12.70	0.00	12.70	9.40	13.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 4:00 PM	261.00	5.00	12.40	16.40	4.00	16.40	10.80	12.40	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 4:15 PM	262.00	6.40	11.50	15.60	4.10	15.60	6.20	11.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 4:30 PM	267.00	4.90	11.60	9.80	0.00	9.80	7.80	11.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 4:45 PM	257.00	4.40	11.50	9.60	0.00	9.60	6.90	11.50	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 5:00 PM	264.00	4.20	12.10	10.80	0.00	10.80	6.90	12.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 5:15 PM	250.00	4.00	12.00	10.00	0.00	10.00	8.50	12.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 5:30 PM	253.00	5.60	12.10	12.90	0.80	12.90	7.90	12.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 5:45 PM	262.00	4.50	12.50	10.30	0.00	10.30	10.30	12.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 6:00 PM	252.00	3.50	12.80	10.80	0.00	10.80	8.90	12.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 6:15 PM	254.00	3.40	12.70	10.60	0.00	10.60	8.70	12.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 6:30 PM	226.00	1.80	12.50	11.50	0.00	11.50	9.80	12.50	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 6:45 PM	232.00	1.80	12.40	15.00	2.60	15.00	9.00	12.40	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 7:00 PM	234.00	1.50	15.40	16.50	1.10	16.50	9.50	15.40	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 7:15 PM	225.00	2.10	13.90	11.40	0.00	11.40	13.00	13.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 7:30 PM	214.00	2.60	13.80	11.70	0.00	11.70	12.00	13.80	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 7:45 PM	216.00	2.20	15.10	14.20	0.00	14.20	12.40	15.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 8:00 PM	227.00	2.60	16.20	17.90	1.70	17.90	15.60	16.20	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 8:15 PM	222.00	2.80	17.10	19.10	2.00	19.10	16.30	17.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 8:30 PM	223.00	3.20	17.90	18.90	1.00	18.90	17.20	17.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 8:45 PM	220.00	2.70	17.30	18.60	1.30	18.60	17.30	17.30	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:00 PM	235.00	4.00	17.60	16.50	0.00	16.50	17.80	17.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:15 PM	239.00	4.20	18.80	16.60	0.00	16.60	17.10	18.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:30 PM	236.00	3.80	18.00	17.90	0.00	17.90	16.30	18.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 9:45 PM	236.00	3.80	18.30	18.10	0.00	18.10	16.30	18.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:00 PM	236.00	3.20	17.70	17.60	0.00	17.60	19.00	17.70	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:15 PM	230.00	3.00	18.70	18.20	0.00	18.20	19.30	18.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:30 PM	242.00	3.20	18.30	18.20	0.00	18.20	19.60	18.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 10:45 PM	236.00	3.40	18.60	19.50	0.90	19.50	20.70	18.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:00 PM	242.00	3.80	18.10	19.30	1.20	19.30	20.90	18.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:15 PM	227.00	4.00	18.60	20.10	1.50	20.10	20.30	18.60	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:30 PM	234.00	2.70	18.50	21.00	2.50	21.00	20.10	18.50	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/8/14 11:45 PM	222.00	2.90	19.30	22.20	2.90	22.20	21.60	19.30	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 12:00 AM	232.00	3.40	18.20	0.00	0.00	0.00	19.50	18.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 12:15 AM	258.00	4.00	18.70	18.90	0.20	18.90	19.40	18.70	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 12:30 AM	276.00	2.50	11.90	17.10	5.20	21.90	17.10	18.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 12:45 AM	283.00	3.30	11.90	18.10	6.20	19.20	18.10	17.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 1:00 AM	278.00	2.40	10.90	19.00	8.10	17.60	19.00	17.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 1:15 AM	285.00	2.50	11.30	18.50	7.20	18.90	18.50	16.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 1:30 AM	304.00	3.00	13.00	27.10	14.10	19.70	27.10	18.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/9/14 1:45 AM	278.00	1.30	13.40	24.10	10.70	23.00	24.10	19.30	13.40	0.0								





**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/9/14 10:00 AM	332.00	1.80	29.00	46.50	17.50	46.40	46.50	31.60	29.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 10:15 AM	340.00	2.50	27.10	38.80	11.70	36.30	38.80	34.60	27.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 10:30 AM	336.00	1.00	30.90	44.00	13.10	39.10	44.00	35.00	30.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 10:45 AM	344.00	1.80	28.40	40.10	11.70	42.40	40.10	31.10	28.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:00 AM	350.00	2.90	25.50	34.60	9.10	30.50	34.60	29.50	25.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:15 AM	351.00	1.50	24.60	34.60	10.00	24.90	34.60	29.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:30 AM	359.00	1.00	19.80	24.20	4.40	39.30	24.20	26.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:45 AM	3.00	3.30	22.20	23.30	1.10	22.20	20.50	23.30	16.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 12:00 PM	25.00	5.60	21.80	22.00	0.20	21.80	19.70	22.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 12:15 PM	33.00	6.60	18.80	21.70	2.90	18.80	19.30	21.70	17.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 12:30 PM	38.00	5.50	19.90	20.60	0.70	19.90	18.50	20.60	16.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 12:45 PM	35.00	6.10	18.50	20.20	1.70	18.50	53.70	20.20	13.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 1:00 PM	14.00	5.10	18.00	21.20	3.20	18.00	18.70	21.20	12.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 1:15 PM	21.00	5.10	24.40	18.90	0.00	24.40	11.30	18.90	12.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 1:30 PM	34.00	4.40	16.40	19.60	3.20	16.40	12.00	19.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 1:45 PM	57.00	3.60	9.40	19.10	9.70	9.40	12.60	19.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 2:00 PM	52.00	3.30	9.50	22.70	13.20	9.50	16.20	22.70	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 2:15 PM	65.00	3.10	9.60	18.20	8.60	9.60	12.10	18.20	10.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 2:30 PM	49.00	3.80	8.20	19.20	11.00	8.20	10.80	19.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 2:45 PM	51.00	3.10	8.10	18.60	10.50	8.10	17.00	18.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 3:00 PM	69.00	3.50	0.00	20.00	0.00	0.00	19.10	20.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 3:15 PM	119.00	4.00	35.30	11.40	0.00	26.30	35.30	23.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 3:30 PM	70.00	4.10	18.60	27.00	8.40	18.60	23.80	27.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 3:45 PM	92.00	3.90	31.60	10.00	0.00	28.80	31.60	27.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 4:00 PM	90.00	2.90	44.20	17.90	0.00	39.20	44.20	27.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 4:15 PM	83.00	4.50	26.60	26.20	0.00	26.60	17.50	26.20	12.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 4:30 PM	72.00	4.50	14.80	22.30	7.50	14.80	16.60	22.30	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 4:45 PM	69.00	4.00	32.30	26.30	0.00	32.30	56.50	26.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 5:00 PM	58.00	3.50	28.60	26.80	0.00	28.60	52.70	26.80	16.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 5:15 PM	55.00	4.10	34.10	28.50	0.00	34.10	31.80	28.50	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 5:30 PM	58.00	4.70	33.60	19.50	0.00	33.60	27.30	19.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 5:45 PM	62.00	4.10	52.10	23.50	0.00	52.10	27.50	23.50	21.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 6:00 PM	56.00	2.90	34.10	30.30	0.00	34.10	35.70	30.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 6:15 PM	0.00	0.00	0.00	0.00	0.00	22.20	17.20	23.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 6:30 PM	58.00	3.70	24.10	30.50	6.40	24.10	31.30	30.50	12.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 6:45 PM	56.00	3.50	18.30	23.00	4.70	18.30	25.00	23.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 7:00 PM	58.00	4.70	14.60	20.30	5.70	14.60	16.80	20.30	18.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 7:15 PM	59.00	4.60	26.20	27.90	1.70	26.20	48.30	27.90	16.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 7:30 PM	63.00	3.00	19.10	27.30	8.20	19.10	34.90	27.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 7:45 PM	63.00	3.50	35.70	20.00	0.00	35.70	27.50	20.00	15.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 8:00 PM	52.00	2.70	46.10	24.80	0.00	46.10	8.80	24.80	14.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 8:15 PM	50.00	3.60	26.00	19.50	0.00	26.00	7.00	19.50	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 8:30 PM	57.00	2.70	32.90	22.90	0.00	32.90	8.60	22.90	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 8:45 PM	60.00	2.60	15.10	22.10	7.00	15.10	15.70	22.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 9:00 PM	61.00	2.90	13.20	22.80	9.60	13.20	10.70	22.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 9:15 PM	58.00	2.30	9.60	22.40	12.80	9.60	16.50	22.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 9:30 PM	55.00	2.70	11.60	20.80	9.20	11.60	7.50	20.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 9:45 PM	52.00	3.20	19.40	21.50	2.10	19.40	22.70	21.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 10:00 PM	57.00	3.70	17.10	21.80	4.70	17.10	18.00	21.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 10:15 PM	51.00	4.00	13.50	22.60	9.10	13.50	18.90	22.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 10:30 PM	49.00	4.10	22.50	27.10	4.60	22.50	18.00	27.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 10:45 PM	48.00	3.30	19.90	21.30	1.40	19.90	15.90	21.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:00 PM	60.00	1.90	13.40	21.40	8.00	13.40	14.80	21.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:15 PM	60.00	2.60	14.60	21.40	6.80	14.60	11.60	21.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:30 PM	59.00	2.50	6.50	26.30	19.80	6.50	16.50	26.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/9/14 11:45 PM	64.00	2.00	14.50	27.80	13.30	14.50	20.00	27.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 12:00 AM	59.00	2.20	15.00	24.80	9.80	15.00	21.40	24.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 12:15 AM	185.00	1.60	25.10	15.20	0.00	15.20	25.20	25.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 12:30 AM	190.00	2.50	21.80	13.10	0.00	13.10	12.90	21.80	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 12:45 AM	213.00	1.70	22.60	6.20	0.00	6.20	0.00	22.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 1:00 AM	177.00	1.50	14.00	6.60	0.00	9.10	14.00	20.20	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 1:15 AM	198.00	1.40	22.30	18.80	0.00	18.80	23.60	22.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 1:30 AM	222.00	1.70	27.00	22.30	0.00	22.30	25.60	27.00	16.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 1:45 AM	216.00	1.50	28.00	22.10	0.00	22.10	24.90	28.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 2:00 AM	234.00	0.70	28.70	23.00	0.00	23.00	26.60	28.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 2:15 AM	199.00	1.80	27.10	23.60	0.00	23.60	26.50	27.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 2:30 AM	182.00	1.50	28.00	23.30	0.00	23.30	26.60	28.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 2:45 AM	191.00	1.50	26.90	22.70	0.00	22.70	26.90	26.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 3:00 AM	198.00	1.40	26.50	23.40	0.00	23.40	28.60	26.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 3:15 AM	176.00	1.60	23.80	11.70	0.00	22.40	23.80	26.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 3:30 AM	163.00	1.50	24.00	11.70	0.00	23.60	24.00	25.80	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 3:45 AM	179.00	1.00	26.60	12.90	0.00	20.00	26.60	25.40	12.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/10/14 4:00 AM	187.00	1.20	24.50	20.70	0.00	20.70										



US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/10/14 11:15 AM	119.00	4.60	17.20	10.00	0.00	17.70	17.20	16.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 11:30 AM	113.00	5.30	38.70	10.00	0.00	27.20	38.70	19.20	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 11:45 AM	69.00	5.20	40.70	17.50	0.00	40.70	20.50	17.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 12:00 PM	106.00	4.90	11.60	18.90	7.30	23.10	11.60	16.10	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 12:15 PM	77.00	3.40	13.10	16.30	3.20	13.10	22.60	16.30	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 12:30 PM	71.00	4.60	10.00	15.20	5.20	10.00	19.80	15.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 12:45 PM	87.00	4.20	10.40	18.60	8.20	10.40	19.20	18.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 1:00 PM	74.00	3.70	27.50	15.80	0.00	27.50	16.90	15.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 1:15 PM	86.00	3.10	20.80	17.60	0.00	20.80	15.50	17.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 1:30 PM	69.00	2.90	15.50	16.80	1.30	15.50	24.20	16.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 1:45 PM	84.00	3.60	16.10	19.00	2.90	16.10	17.70	19.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 2:00 PM	72.00	3.30	37.00	15.80	0.00	37.00	17.60	15.80	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 2:15 PM	70.00	4.60	18.00	18.80	0.80	18.00	19.80	18.80	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 2:30 PM	32.00	4.90	24.50	18.20	0.00	24.50	18.20	18.20	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 2:45 PM	23.00	6.30	29.10	22.80	0.00	29.10	30.10	22.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 3:00 PM	28.00	4.90	32.00	19.10	0.00	32.00	22.80	19.10	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 3:15 PM	25.00	6.50	24.00	21.60	0.00	24.00	20.50	21.60	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 3:30 PM	26.00	4.50	30.00	28.30	0.00	30.00	62.70	28.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 3:45 PM	15.00	6.50	9.20	20.70	11.50	9.20	21.70	20.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 4:00 PM	29.00	7.00	12.20	15.70	3.50	12.20	10.60	15.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 4:15 PM	39.00	6.80	9.70	16.70	7.00	9.70	9.40	16.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 4:30 PM	47.00	6.30	11.00	16.30	5.30	11.00	11.50	16.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 4:45 PM	27.00	5.90	10.70	17.50	6.80	10.70	14.10	17.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 5:00 PM	37.00	7.80	10.70	19.20	8.50	10.70	13.30	19.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 5:15 PM	28.00	9.50	12.90	18.00	5.10	12.90	13.20	18.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 5:30 PM	32.00	7.90	11.20	17.80	6.60	11.20	15.60	17.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 5:45 PM	26.00	7.60	11.50	17.10	5.60	11.50	18.10	17.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 6:00 PM	32.00	7.20	10.80	18.30	7.50	10.80	11.60	18.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 6:15 PM	42.00	5.70	10.90	19.10	8.20	10.90	15.40	19.10	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 6:30 PM	12.00	7.10	13.50	17.70	4.20	13.50	14.90	17.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 6:45 PM	23.00	7.10	10.40	16.70	6.30	10.40	15.50	16.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 7:00 PM	36.00	7.60	9.50	17.50	8.00	9.50	10.70	17.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 7:15 PM	24.00	6.50	8.70	16.60	7.90	8.70	12.20	16.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 7:30 PM	24.00	7.80	12.50	17.50	5.00	12.50	10.60	17.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 7:45 PM	43.00	5.80	0.00	14.50	0.00	0.00	13.80	14.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 8:00 PM	39.00	8.30	6.50	14.40	7.90	6.50	7.80	14.40	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 8:15 PM	39.00	7.70	7.10	14.00	6.90	7.10	7.70	14.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 8:30 PM	34.00	7.70	3.90	12.60	8.70	3.90	8.50	12.60	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 8:45 PM	26.00	6.90	4.70	12.40	7.70	4.70	7.90	12.40	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 9:00 PM	37.00	6.30	4.10	12.40	8.30	4.10	8.10	12.40	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 9:15 PM	32.00	7.00	0.00	12.20	0.00	0.00	3.00	12.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 9:30 PM	29.00	6.70	6.20	11.10	4.90	6.20	5.80	11.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 9:45 PM	35.00	5.60	3.50	10.40	6.90	3.50	3.90	10.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 10:00 PM	29.00	5.30	7.10	10.30	3.20	7.10	7.40	10.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 10:15 PM	28.00	7.10	3.70	9.70	6.00	3.70	3.60	9.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 10:30 PM	28.00	7.10	5.00	9.30	4.30	5.00	2.40	9.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 10:45 PM	43.00	6.00	4.60	9.30	4.70	4.60	1.20	9.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 11:00 PM	46.00	4.40	2.30	8.20	5.90	2.30	1.70	8.20	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 11:15 PM	40.00	5.70	2.30	8.20	5.90	2.30	0.40	8.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 11:30 PM	48.00	4.30	2.00	7.40	5.40	2.00	2.40	7.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/14 11:45 PM	31.00	4.60	0.00	7.40	0.00	0.00	4.80	7.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 12:00 AM	41.00	5.00	11.40	10.20	0.00	11.40	3.10	10.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 12:15 AM	37.00	5.50	4.00	8.50	4.50	4.00	0.30	8.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 12:30 AM	50.00	5.00	0.00	8.50	0.00	0.00	0.90	8.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 12:45 AM	41.00	4.60	1.30	7.60	6.30	1.30	0.30	7.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 1:00 AM	51.00	3.90	1.70	7.50	5.80	1.70	6.40	7.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 1:15 AM	46.00	2.60	4.60	11.70	7.10	4.60	11.10	11.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 1:30 AM	19.00	4.60	3.10	7.50	4.40	3.10	1.20	7.50	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 1:45 AM	39.00	5.20	5.40	8.00	2.60	5.40	2.10	8.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 2:00 AM	63.00	2.30	2.20	7.20	5.00	2.20	10.90	7.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 2:15 AM	146.00	2.80	5.00	2.70	0.00	2.60	5.00	7.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 2:30 AM	118.00	1.00	7.50	4.20	0.00	2.40	7.50	7.50	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 2:45 AM	135.00	1.20	6.50	3.20	0.00	2.70	6.50	7.40	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 3:00 AM	147.00	1.30	7.30	6.30	0.00	10.00	7.30	7.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 3:15 AM	176.00	2.20	13.20	7.50	0.00	11.20	13.20	9.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 3:30 AM	198.00	1.30	11.10	34.40	23.30	34.40	19.10	11.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 3:45 AM	214.00	1.30	12.30	10.70	0.00	10.70	20.70	12.30	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 4:00 AM	242.00	1.00	12.30	9.80	0.00	9.80	21.70	12.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 4:15 AM	206.00	1.40	14.10	20.80	6.70	20.80	43.00	14.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/14 4:30 AM	232.00	0.50	15.40	23.00												





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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		
			10/12/14 1:45 PM	149.00	4.10	6.30	4.30	0.00	7.90	6.30	7.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00
10/12/14 2:00 PM	168.00	4.30	9.40	4.10	0.00	7.90	9.40	7.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 2:15 PM	132.00	4.00	5.90	3.80	0.00	0.00	5.90	7.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 2:30 PM	150.00	4.90	5.70	3.70	0.00	6.40	5.70	7.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 2:45 PM	124.00	4.70	6.00	3.80	0.00	7.60	6.00	7.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 3:00 PM	115.00	4.30	6.60	4.20	0.00	8.90	6.60	7.60	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 3:15 PM	141.00	4.90	7.40	4.30	0.00	7.80	7.40	8.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 3:30 PM	143.00	5.10	6.90	4.60	0.00	7.70	6.90	8.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 3:45 PM	145.00	4.90	6.20	4.50	0.00	8.00	6.20	7.80	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 4:00 PM	117.00	5.40	7.20	4.80	0.00	9.80	7.20	8.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 4:15 PM	152.00	4.90	7.20	4.70	0.00	8.20	7.20	8.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 4:30 PM	131.00	3.70	13.00	4.80	0.00	7.10	13.00	8.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 4:45 PM	139.00	6.00	9.20	4.60	0.00	8.30	9.20	8.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 5:00 PM	152.00	6.10	7.20	3.60	0.00	8.40	7.20	8.50	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 5:15 PM	141.00	6.00	10.60	4.00	0.00	7.40	10.60	8.60	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 5:30 PM	151.00	4.30	7.70	3.90	0.00	9.90	7.70	9.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 5:45 PM	136.00	5.60	7.90	3.60	0.00	9.50	7.90	9.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 6:00 PM	151.00	5.20	10.50	3.90	0.00	10.90	10.50	9.70	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 6:15 PM	151.00	4.70	11.90	4.00	0.00	10.40	11.90	10.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 6:30 PM	155.00	4.70	12.00	4.80	0.00	11.70	12.00	10.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 6:45 PM	143.00	4.70	15.30	4.20	0.00	14.60	15.30	11.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 7:00 PM	133.00	4.40	11.70	3.80	0.00	12.50	11.70	11.50	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 7:15 PM	158.00	3.90	13.10	3.60	0.00	9.60	13.10	11.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 7:30 PM	157.00	6.20	14.80	4.00	0.00	11.80	14.80	12.70	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 7:45 PM	149.00	6.70	15.00	4.30	0.00	13.70	15.00	13.40	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 8:00 PM	150.00	5.90	14.60	5.50	0.00	14.60	14.60	14.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 8:15 PM	154.00	4.90	17.70	5.50	0.00	14.10	17.70	14.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 8:30 PM	154.00	3.70	19.60	5.80	0.00	13.70	19.60	15.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 8:45 PM	191.00	3.70	16.70	15.20	0.00	15.20	20.10	16.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 9:00 PM	163.00	2.80	21.20	6.20	0.00	13.60	21.20	17.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 9:15 PM	167.00	4.10	18.80	5.20	0.00	14.40	18.80	17.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 9:30 PM	139.00	5.40	18.90	4.80	0.00	13.50	18.90	17.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 9:45 PM	167.00	3.60	18.50	5.60	0.00	13.90	18.50	17.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 10:00 PM	163.00	2.90	25.00	6.20	0.00	15.50	25.00	19.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 10:15 PM	168.00	3.30	29.60	6.50	0.00	18.70	29.60	25.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 10:30 PM	165.00	3.50	37.50	6.90	0.00	18.50	37.50	30.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 10:45 PM	159.00	3.40	46.10	7.00	0.00	19.80	46.10	36.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 11:00 PM	153.00	3.70	52.90	7.30	0.00	19.80	52.90	40.20	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 11:15 PM	149.00	3.30	54.60	7.10	0.00	19.30	54.60	41.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 11:30 PM	153.00	2.80	55.10	6.90	0.00	20.10	55.10	40.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/12/14 11:45 PM	156.00	3.20	51.50	6.30	0.00	19.70	51.50	40.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 12:00 AM	158.00	3.50	49.50	6.20	0.00	19.10	49.50	39.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 12:15 AM	170.00	4.00	48.00	6.10	0.00	19.90	48.00	40.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 12:30 AM	152.00	3.30	48.60	7.20	0.00	20.90	48.60	40.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 12:45 AM	170.00	3.10	50.00	8.40	0.00	20.00	50.00	41.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 1:00 AM	181.00	3.70	42.50	19.70	0.00	19.70	50.80	42.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 1:15 AM	166.00	3.10	52.00	9.50	0.00	18.70	52.00	43.80	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 1:30 AM	179.00	3.30	49.00	9.80	0.00	20.40	49.00	42.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 1:45 AM	180.00	2.90	42.30	20.50	0.00	20.50	47.00	42.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 2:00 AM	181.00	3.10	42.40	17.40	0.00	17.40	46.40	42.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 2:15 AM	178.00	3.80	47.10	7.90	0.00	17.50	47.10	42.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 2:30 AM	191.00	3.00	43.40	18.20	0.00	18.20	49.40	43.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 2:45 AM	185.00	3.00	46.30	19.30	0.00	19.30	50.90	46.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 3:00 AM	216.00	3.00	47.10	20.50	0.00	20.50	52.30	47.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 3:15 AM	212.00	2.60	47.80	21.50	0.00	21.50	52.40	47.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 3:30 AM	196.00	1.60	49.50	22.20	0.00	22.20	52.80	49.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 3:45 AM	196.00	2.70	50.30	22.60	0.00	22.60	51.30	50.30	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:00 AM	188.00	1.40	51.40	24.40	0.00	24.40	53.20	51.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:15 AM	203.00	1.60	52.00	24.90	0.00	24.90	51.80	52.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:30 AM	202.00	2.50	50.50	25.40	0.00	25.40	50.30	50.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:45 AM	184.00	1.70	50.20	25.80	0.00	25.80	50.70	50.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:00 AM	171.00	2.80	49.60	14.70	0.00	25.80	49.60	48.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:15 AM	167.00	1.70	49.30	14.70	0.00	26.30	49.30	47.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:30 AM	189.00	2.30	46.90	26.20	0.00	26.20	48.40	46.90	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:45 AM	188.00	1.40	46.70	26.10	0.00	26.10	47.70	46.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:00 AM	158.00	1.30	51.80	16.30	0.00	31.70	51.80	50.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:15 AM	321.00	0.50	20.90	56.10	35.20	34.60	56.10	53.90	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:30 AM	161.00	2.40	54.30	20.60	0.00	34.80	54.30	54.30	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:45 AM	162.00	2.30	59.80	20.00	0.00	37.50	59.80	55.80	20									



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
10/13/14 3:00 PM	147.00	3.60	29.40	6.00	0.00	11.60	29.40	50.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 3:15 PM	153.00	5.30	29.60	6.00	0.00	12.80	29.60	46.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 3:30 PM	151.00	5.10	32.10	7.00	0.00	15.30	32.10	46.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 3:45 PM	154.00	6.70	27.50	7.00	0.00	13.20	27.50	49.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:00 PM	157.00	5.90	22.70	5.30	0.00	10.70	22.70	42.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:15 PM	159.00	6.00	17.00	4.70	0.00	8.90	17.00	29.20	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:30 PM	142.00	5.90	15.10	4.90	0.00	9.00	15.10	25.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 4:45 PM	150.00	7.00	13.40	5.80	0.00	9.00	13.40	18.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:00 PM	156.00	6.60	12.50	6.80	0.00	9.00	12.50	18.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:15 PM	157.00	4.60	12.60	6.10	0.00	9.50	12.60	19.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:30 PM	152.00	6.40	11.80	5.60	0.00	8.60	11.80	19.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 5:45 PM	153.00	7.20	11.70	5.20	0.00	8.50	11.70	19.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:00 PM	149.00	6.00	10.30	4.60	0.00	8.00	10.30	17.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:15 PM	147.00	7.90	9.60	4.20	0.00	7.20	9.60	15.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:30 PM	161.00	6.60	10.20	4.00	0.00	7.20	10.20	18.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 6:45 PM	155.00	5.20	9.90	3.90	0.00	6.90	9.90	15.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 7:00 PM	167.00	6.00	10.00	4.30	0.00	7.70	10.00	14.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 7:15 PM	160.00	5.10	10.50	4.50	0.00	8.60	10.50	13.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 7:30 PM	147.00	6.00	11.10	5.10	0.00	8.90	11.10	13.60	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 7:45 PM	156.00	4.50	11.50	5.10	0.00	9.30	11.50	13.70	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 8:00 PM	151.00	4.80	11.90	5.10	0.00	9.80	11.90	14.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 8:15 PM	165.00	5.30	12.90	5.90	0.00	10.40	12.90	17.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 8:30 PM	156.00	4.60	14.80	5.30	0.00	9.80	14.80	20.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 8:45 PM	152.00	5.20	16.10	5.10	0.00	10.20	16.10	22.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 9:00 PM	154.00	6.10	17.10	5.10	0.00	9.50	17.10	23.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 9:15 PM	157.00	4.60	17.30	4.80	0.00	9.90	17.30	23.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 9:30 PM	150.00	7.10	18.40	5.50	0.00	9.50	18.40	24.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 9:45 PM	154.00	6.40	19.00	5.80	0.00	10.00	19.00	25.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 10:00 PM	136.00	6.60	20.00	6.10	0.00	10.50	20.00	27.40	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 10:15 PM	165.00	7.00	22.10	6.60	0.00	10.80	22.10	30.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 10:30 PM	175.00	5.50	23.60	6.50	0.00	11.10	23.60	33.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 10:45 PM	177.00	8.00	24.20	6.60	0.00	11.70	24.20	34.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 11:00 PM	173.00	6.90	24.70	6.70	0.00	11.60	24.70	33.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 11:15 PM	183.00	7.50	32.80	11.60	0.00	11.60	24.90	32.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 11:30 PM	170.00	7.80	25.20	6.40	0.00	12.00	25.20	31.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/13/14 11:45 PM	173.00	8.00	22.20	6.30	0.00	10.80	22.20	27.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 12:00 AM	163.00	6.30	19.00	5.80	0.00	9.40	19.00	24.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 12:15 AM	173.00	9.30	16.70	5.40	0.00	8.90	16.70	20.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 12:30 AM	187.00	8.80	12.50	7.90	0.00	7.90	10.70	12.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 12:45 AM	165.00	7.70	5.80	3.40	0.00	5.00	5.80	8.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 1:00 AM	181.00	8.00	5.90	4.10	0.00	4.10	4.40	5.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 1:15 AM	184.00	7.60	4.90	4.10	0.00	4.10	4.20	4.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 1:30 AM	188.00	7.20	4.50	4.00	0.00	4.00	4.00	4.50	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 1:45 AM	183.00	8.40	4.40	4.20	0.00	4.20	3.90	4.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 2:00 AM	185.00	6.30	4.20	3.90	0.00	3.90	4.00	4.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 2:15 AM	187.00	7.30	4.20	3.50	0.00	3.50	3.80	4.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 2:30 AM	175.00	8.50	3.70	2.20	0.00	3.70	3.70	4.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 2:45 AM	164.00	6.60	3.90	2.30	0.00	3.80	3.90	4.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 3:00 AM	171.00	5.90	3.80	2.10	0.00	3.70	3.80	4.10	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 3:15 AM	173.00	8.00	3.80	2.30	0.00	3.60	3.80	4.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 3:30 AM	175.00	4.90	3.70	2.40	0.00	4.00	3.70	4.20	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 3:45 AM	166.00	5.40	3.80	2.20	0.00	3.70	3.80	4.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 4:00 AM	176.00	6.10	3.80	2.20	0.00	4.00	3.80	4.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 4:15 AM	167.00	5.30	4.30	2.20	0.00	4.10	4.30	5.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 4:30 AM	172.00	5.50	4.60	2.10	0.00	4.10	4.60	5.40	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 4:45 AM	180.00	4.00	5.50	4.40	0.00	4.40	4.50	5.50	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 5:00 AM	174.00	3.10	4.40	2.20	0.00	4.20	4.40	5.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 5:15 AM	190.00	4.20	5.80	4.00	0.00	4.00	4.20	5.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 5:30 AM	177.00	5.40	4.30	2.00	0.00	3.70	4.30	6.40	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 5:45 AM	198.00	4.10	7.10	3.60	0.00	3.60	4.40	7.10	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 6:00 AM	182.00	4.70	8.20	3.70	0.00	3.70	5.40	8.20	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 6:15 AM	199.00	2.00	8.90	3.70	0.00	3.70	5.90	8.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 6:30 AM	169.00	1.60	5.60	2.10	0.00	3.70	5.60	6.90	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 6:45 AM	177.00	1.10	5.40	1.90	0.00	4.00	5.40	6.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 7:00 AM	165.00	0.60	5.10	1.90	0.00	3.80	5.10	6.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 7:15 AM	142.00	0.40	5.40	1.70	0.00	4.10	5.40	6.10	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 7:30 AM	26.00	0.70	3.90	6.20	2.30	3.90	6.00	6.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 7:45 AM	274.00	2.20	2.40	6.60	4.20	4.00	6.60	6.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 8:00 AM	203.00	2.60	7.20	5.70	0.00	5.70	7.20	7.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/14/14 8:15 AM	190.00	2.50	7.20	5.60	0.00	5.60	7.30	7.20	3.30	0.00</								



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/14/14 4:15 PM	160.00	3.40	1.00	3.40	2.40	5.90	1.00	1.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 4:30 PM	208.00	4.30	1.20	6.70	5.50	6.70	1.00	1.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 4:45 PM	187.00	8.30	1.40	6.70	5.30	6.70	1.10	1.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 5:00 PM	191.00	4.60	1.50	6.30	4.80	6.30	1.10	1.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 5:15 PM	199.00	3.90	1.50	0.00	0.00	0.00	1.70	1.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 5:30 PM	208.00	3.00	1.40	0.00	0.00	0.00	1.70	1.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 5:45 PM	189.00	3.00	2.30	6.80	4.50	6.80	2.40	2.30	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 6:00 PM	184.00	2.50	2.70	5.50	2.80	5.50	1.70	2.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 6:15 PM	180.00	1.50	3.00	4.30	1.30	4.30	1.90	3.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 6:30 PM	194.00	1.20	3.50	4.90	1.40	4.90	2.40	3.50	2.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 6:45 PM	228.00	1.40	3.50	5.00	1.50	5.00	2.50	3.50	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 7:00 PM	208.00	1.20	3.40	5.10	1.70	5.10	2.40	3.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 7:15 PM	192.00	1.60	3.20	4.70	1.50	4.70	2.10	3.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 7:30 PM	194.00	1.90	3.20	4.50	1.30	4.50	2.30	3.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 7:45 PM	191.00	2.60	3.60	4.50	0.90	4.50	2.80	3.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 8:00 PM	193.00	1.60	4.50	4.50	0.00	4.50	2.60	4.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 8:15 PM	176.00	1.60	2.40	0.00	0.00	3.80	2.40	4.70	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 8:30 PM	0.00	0.00	0.00	0.00	0.00	3.80	2.60	4.50	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 8:45 PM	0.00	0.00	0.00	0.00	0.00	4.00	2.50	4.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 9:00 PM	181.00	1.50	3.20	3.50	0.30	3.50	1.20	3.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 9:15 PM	191.00	1.50	2.60	3.20	0.60	3.20	0.60	2.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 9:30 PM	222.00	1.80	2.30	3.40	1.10	3.40	0.60	2.30	1.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 9:45 PM	215.00	1.00	2.20	3.00	0.80	3.00	0.30	2.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 10:00 PM	205.00	1.30	2.40	3.00	0.60	3.00	0.30	2.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 10:15 PM	191.00	1.70	2.50	3.00	0.50	3.00	0.80	2.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 10:30 PM	215.00	2.40	2.90	4.30	1.40	4.30	0.70	2.90	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 10:45 PM	306.00	1.70	2.30	0.90	0.00	3.70	0.90	3.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 11:00 PM	348.00	3.90	1.80	0.80	0.00	3.80	0.80	3.60	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 11:15 PM	342.00	3.50	1.70	0.90	0.00	3.80	0.90	3.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 11:30 PM	347.00	4.40	1.30	1.00	0.00	4.10	1.00	3.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/14/14 11:45 AM	348.00	4.20	1.40	1.00	0.00	3.90	1.00	3.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 12:00 AM	347.00	4.80	1.30	0.00	0.00	2.60	0.00	3.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 12:15 AM	342.00	6.80	1.20	-0.30	0.00	2.70	-0.30	3.40	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 12:30 AM	346.00	6.60	1.20	-0.20	0.00	2.70	-0.20	3.10	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 12:45 AM	348.00	7.00	1.00	-0.40	0.00	2.20	-0.40	2.70	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 1:00 AM	342.00	4.40	1.10	-0.10	0.00	2.30	-0.10	3.30	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 1:15 AM	328.00	5.80	1.10	-0.20	0.00	2.00	-0.20	3.40	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 1:30 AM	337.00	4.10	1.00	-0.10	0.00	2.10	-0.10	3.10	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 1:45 AM	333.00	4.60	1.00	-0.10	0.00	2.10	-0.10	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 2:00 AM	343.00	3.80	1.10	0.00	0.00	1.90	0.00	3.20	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 2:15 AM	347.00	5.30	0.90	-0.10	0.00	1.70	-0.10	3.10	0.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 2:30 AM	347.00	4.80	1.00	-0.10	0.00	1.70	-0.10	3.10	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 2:45 AM	333.00	4.30	1.00	0.10	0.00	1.60	0.10	3.60	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 3:00 AM	330.00	2.70	1.00	0.30	0.00	1.60	0.30	3.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 3:15 AM	316.00	2.90	1.00	0.20	0.00	1.40	0.20	3.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 3:30 AM	269.00	2.20	3.80	1.40	0.00	1.40	0.40	3.80	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 3:45 AM	304.00	2.70	1.10	0.30	0.00	1.30	0.30	3.70	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 4:00 AM	315.00	2.50	1.20	0.20	0.00	1.20	0.20	3.80	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 4:15 AM	321.00	3.30	1.70	0.50	0.00	1.70	0.50	3.40	1.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 4:30 AM	320.00	3.50	1.20	0.50	0.00	1.70	0.50	3.40	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 4:45 AM	315.00	4.60	2.00	0.00	0.00	1.30	0.00	3.40	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 5:00 AM	325.00	4.00	2.00	0.20	0.00	1.30	0.20	3.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 5:15 AM	306.00	3.60	1.20	0.40	0.00	1.50	0.40	3.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 5:30 AM	311.00	2.90	1.20	0.20	0.00	1.40	0.20	3.40	1.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 5:45 AM	312.00	3.00	0.90	0.00	0.00	1.40	0.00	3.10	0.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 6:00 AM	300.00	2.30	1.00	0.00	0.00	1.30	0.00	2.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 6:15 AM	321.00	2.40	1.00	0.00	0.00	1.40	0.00	2.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 6:30 AM	335.00	3.20	1.50	1.00	0.00	1.70	1.00	3.40	1.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 6:45 AM	342.00	5.00	1.80	1.00	0.00	1.60	1.00	3.40	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 7:00 AM	328.00	4.00	1.80	1.30	0.00	1.90	1.30	3.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 7:15 AM	345.00	6.10	1.90	0.90	0.00	1.80	0.90	3.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 7:30 AM	346.00	4.30	2.00	0.60	0.00	1.60	0.60	3.60	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 7:45 AM	347.00	4.70	0.80	-0.40	0.00	1.20	-0.40	2.70	0.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 8:00 AM	338.00	3.30	1.60	0.00	0.00	1.10	0.00	2.30	1.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 8:15 AM	351.00	4.50	0.80	-0.40	0.00	1.20	-0.40	1.50	0.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 8:30 AM	345.00	5.00	0.90	0.00	0.00	1.10	0.00	1.40	0.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 8:45 AM	347.00	5.20	1.90	1.40	0.00	1.90	1.40	2.50	1.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 9:00 AM	345.00	4.60	1.50	0.80	0.00	1.40	0.80	1.90	1.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 9:15 AM	347.00	5.90	1.40	1.00	0.00	1.60	1.00	1.90	1.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 9:30 AM	352.00	6.30	1.10	0.00	0.00	1.60	0.00	1.40	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 9:45 AM	346.00	4.80	1.10	0.00	0.00	1.30	0.00	1.10	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 10:00 AM	317.00	3.60	1.10	0.00	0.00	1.30	0.00	1.30	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 10:15 AM	350.00	5.10	1.00	-0.20	0.00	1.20	-0.20	1.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 10:30 AM	344.00	3.40	1.10	0.50	0.00	1.30	0.50	1.70	1.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/15/14 10:45 AM	342.00	4.30	1.20	0.50												



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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		
10/15/14 5:30 PM	334.00	3.60	1.20	0.70	0.00	1.50	0.70	1.80	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 5:45 PM	335.00	4.30	1.30	0.80	0.00	1.40	0.80	1.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 6:00 PM	331.00	4.10	1.30	0.80	0.00	1.40	0.80	1.80	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 6:15 PM	338.00	4.50	1.50	1.00	0.00	1.70	1.00	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 6:30 PM	343.00	4.70	1.80	1.70	0.00	1.90	1.70	2.10	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 6:45 PM	330.00	4.70	2.10	1.70	0.00	2.00	1.70	2.20	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 7:00 PM	347.00	4.60	2.00	2.30	0.30	2.00	2.30	2.60	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 7:15 PM	346.00	5.50	1.80	2.20	0.40	1.80	2.20	2.70	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 7:30 PM	346.00	7.20	1.60	2.50	0.90	1.90	2.50	3.30	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 7:45 PM	350.00	6.40	2.00	3.60	1.60	2.00	3.60	4.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 8:00 PM	351.00	6.80	2.30	5.50	3.20	2.20	5.50	6.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 8:15 PM	352.00	8.00	2.40	6.70	4.30	2.40	6.70	6.70	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 8:30 PM	3.00	8.30	2.40	7.40	5.00	2.40	6.90	7.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 8:45 PM	359.00	8.30	2.70	9.30	6.60	2.70	9.30	9.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 9:00 PM	357.00	8.00	2.90	10.30	7.40	2.70	10.30	10.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 9:15 PM	353.00	8.10	3.10	10.20	7.10	2.70	10.20	10.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 9:30 PM	3.00	7.70	2.70	11.90	9.20	2.70	9.90	11.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 9:45 PM	13.00	8.70	2.70	11.80	9.10	2.70	8.90	11.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 10:00 PM	14.00	8.80	2.40	10.60	8.20	2.40	9.00	10.60	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 10:15 PM	17.00	9.10	2.90	10.70	7.80	2.90	10.90	10.70	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 10:30 PM	20.00	7.70	2.80	12.60	9.80	2.80	12.00	12.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 10:45 PM	14.00	7.60	4.70	12.00	7.30	4.70	10.90	12.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 11:00 PM	5.00	6.50	3.50	8.40	4.90	3.50	3.60	8.40	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 11:15 PM	350.00	6.70	2.00	4.00	2.00	4.00	4.00	8.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 11:30 PM	0.00	8.90	2.70	7.30	4.60	2.70	3.90	7.30	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/15/14 11:45 PM	349.00	7.80	3.00	6.50	3.50	3.00	6.50	10.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 12:00 AM	353.00	8.50	2.20	7.10	4.90	2.40	7.10	9.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 12:15 AM	1.00	8.30	3.50	6.90	3.40	3.50	8.10	6.90	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 12:30 AM	0.00	7.20	2.90	6.50	3.60	2.90	5.30	6.50	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 12:45 AM	5.00	8.00	2.90	6.00	3.10	2.90	7.30	6.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 1:00 AM	3.00	7.30	2.40	6.30	3.90	2.40	4.20	6.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 1:15 AM	2.00	7.90	2.70	6.30	3.60	2.70	4.80	6.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 1:30 AM	350.00	7.00	2.20	7.50	5.30	2.70	7.50	6.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 1:45 AM	348.00	6.80	1.50	10.00	8.50	4.80	10.00	6.60	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 2:00 AM	359.00	7.70	1.70	8.50	6.80	5.70	8.50	6.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 2:15 AM	355.00	8.80	1.60	7.90	6.30	3.40	7.90	6.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 2:30 AM	349.00	7.00	2.40	7.10	4.70	3.60	7.10	6.20	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 2:45 AM	351.00	7.60	3.30	4.50	1.20	2.90	4.50	6.40	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 3:00 AM	354.00	8.20	3.40	5.10	1.70	2.90	5.10	6.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 3:15 AM	343.00	5.40	3.30	4.50	1.20	3.70	4.50	6.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 3:30 AM	334.00	4.00	2.80	4.20	1.40	3.70	4.20	5.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 3:45 AM	340.00	4.10	2.80	4.10	1.30	2.80	4.10	5.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 4:00 AM	345.00	4.70	3.00	3.70	0.70	2.80	3.70	5.30	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 4:15 AM	317.00	4.20	2.80	2.40	0.00	2.40	2.40	5.10	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 4:30 AM	320.00	4.50	1.70	1.70	0.00	2.20	1.70	3.80	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 4:45 AM	334.00	3.50	1.90	1.60	0.00	2.10	1.60	3.60	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 5:00 AM	318.00	3.00	1.70	0.90	0.00	2.00	0.90	3.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 5:15 AM	323.00	3.50	1.70	1.60	0.00	2.10	1.60	3.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 5:30 AM	333.00	4.50	1.70	1.40	0.00	1.90	1.40	3.10	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 5:45 AM	333.00	3.50	1.90	2.00	0.10	2.00	2.00	3.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 6:00 AM	341.00	2.40	2.70	2.70	0.00	2.50	2.70	3.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 6:15 AM	314.00	3.50	3.40	3.60	0.20	2.90	3.60	6.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 6:30 AM	334.00	2.70	4.30	5.30	1.00	4.60	5.30	3.40	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 6:45 AM	316.00	4.40	3.70	5.00	1.30	3.10	5.00	3.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 7:00 AM	305.00	2.90	3.90	6.10	2.20	4.30	6.10	4.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 7:15 AM	304.00	3.20	3.70	5.80	2.10	3.80	5.80	4.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 7:30 AM	304.00	3.70	4.70	6.00	1.30	4.10	6.00	4.20	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 7:45 AM	304.00	3.60	3.10	4.30	1.20	3.40	4.30	4.20	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 8:00 AM	305.00	3.40	3.50	4.20	0.70	3.40	4.20	4.40	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 8:15 AM	298.00	3.90	12.70	12.90	0.20	4.50	12.90	11.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 8:30 AM	292.00	2.60	7.50	10.30	2.80	7.90	10.30	5.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 8:45 AM	316.00	1.90	6.20	7.40	1.20	7.90	7.40	5.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 9:00 AM	293.00	2.10	4.90	5.80	0.90	6.00	5.80	4.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 9:15 AM	285.00	2.30	4.60	5.80	1.20	5.20	5.80	5.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 9:30 AM	280.00	2.90	6.20	7.00	0.80	7.40	7.00	5.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 9:45 AM	275.00	3.80	5.30	8.10	2.80	7.30	8.10	6.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 10:00 AM	278.00	3.20	3.70	9.10	5.40	6.10	9.10	6.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 10:15 AM	276.00	2.80	3.90	8.60	4.70	5.40	8.60	6.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 10:30 AM	271.00	2.10	5.80	10.60	4.80	9.30	10.60	7.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 10:45 AM	293.00	2.70	6.30	10.40	4.10	9.30	10.40	7.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/16/14 11:00 AM	273.00	2.90	7.40	9														



US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/16/14 6:45 PM	209.00	2.20	9.60	7.90	0.00	7.90	9.00	9.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 7:00 PM	206.00	2.80	9.10	6.80	0.00	6.80	5.80	9.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 7:15 PM	207.00	2.20	9.10	7.50	0.00	7.50	6.20	9.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 7:30 PM	197.00	3.20	9.80	6.50	0.00	6.50	6.60	9.80	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 7:45 PM	202.00	3.10	11.70	7.50	0.00	7.50	8.00	11.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 8:00 PM	192.00	2.90	12.90	8.10	0.00	8.10	8.70	12.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 8:15 PM	194.00	2.80	13.00	8.50	0.00	8.50	9.50	13.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 8:30 PM	199.00	2.60	13.20	8.30	0.00	8.30	9.00	13.20	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 8:45 PM	185.00	3.10	14.00	8.70	0.00	8.70	11.60	14.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 9:00 PM	185.00	2.50	15.20	10.00	0.00	10.00	15.90	15.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 9:15 PM	184.00	2.70	15.80	9.90	0.00	9.90	14.70	15.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 9:30 PM	197.00	3.40	17.40	10.40	0.00	10.40	14.40	17.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 9:45 PM	189.00	3.40	17.90	10.80	0.00	10.80	15.20	17.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 10:00 PM	207.00	4.30	19.50	12.90	0.00	12.90	17.40	19.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 10:15 PM	200.00	3.30	21.80	14.50	0.00	14.50	20.00	21.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 10:30 PM	199.00	3.80	21.90	15.10	0.00	15.10	22.00	21.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 10:45 PM	188.00	3.50	20.30	13.20	0.00	13.20	19.10	20.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 11:00 PM	184.00	6.00	19.70	12.10	0.00	12.10	17.50	19.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 11:15 PM	0.00	0.00	0.00	0.00	0.00	11.70	16.40	19.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 11:30 PM	0.00	0.00	0.00	0.00	0.00	11.50	14.90	17.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/14 11:45 PM	0.00	0.00	0.00	0.00	0.00	10.70	14.80	17.10	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 12:00 AM	196.00	4.40	14.90	9.50	0.00	9.50	12.10	14.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 12:15 AM	189.00	5.40	14.20	8.50	0.00	8.50	10.60	14.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 12:30 AM	183.00	5.20	13.90	9.20	0.00	9.20	10.60	13.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 12:45 AM	195.00	5.40	13.70	9.00	0.00	9.00	10.20	13.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 1:00 AM	194.00	4.70	13.90	8.90	0.00	8.90	10.20	13.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 1:15 AM	193.00	5.10	14.40	9.10	0.00	9.10	11.20	14.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 1:30 AM	196.00	4.50	15.60	10.10	0.00	10.10	11.00	15.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 1:45 AM	189.00	3.90	14.90	9.70	0.00	9.70	11.00	14.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 2:00 AM	193.00	4.10	15.40	10.40	0.00	10.40	12.80	15.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 2:15 AM	193.00	3.80	15.50	10.90	0.00	10.90	13.20	15.50	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 2:30 AM	196.00	4.30	15.40	10.10	0.00	10.10	12.80	15.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 2:45 AM	186.00	4.00	15.50	9.70	0.00	9.70	11.90	15.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 3:00 AM	194.00	5.10	14.80	9.20	0.00	9.20	11.80	14.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 3:15 AM	200.00	4.60	13.80	9.00	0.00	9.00	11.00	13.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 3:30 AM	203.00	4.50	12.50	8.50	0.00	8.50	10.10	12.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 3:45 AM	213.00	4.10	12.40	8.80	0.00	8.80	9.30	12.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 4:00 AM	207.00	3.70	11.60	8.00	0.00	8.00	8.20	11.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 4:15 AM	209.00	3.40	11.10	7.40	0.00	7.40	8.40	11.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 4:30 AM	199.00	3.30	10.20	7.30	0.00	7.30	7.00	10.20	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 4:45 AM	206.00	2.80	9.70	7.40	0.00	7.40	6.10	9.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 5:00 AM	197.00	2.60	9.80	7.40	0.00	7.40	6.40	9.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 5:15 AM	210.00	3.20	9.90	7.40	0.00	7.40	6.70	9.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 5:30 AM	204.00	2.80	10.30	7.50	0.00	7.50	7.20	10.30	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 5:45 AM	215.00	2.60	11.10	8.20	0.00	8.20	8.30	11.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 6:00 AM	231.00	2.70	11.40	8.90	0.00	8.90	10.30	11.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 6:15 AM	249.00	3.90	12.40	9.10	0.00	9.10	11.30	12.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 6:30 AM	225.00	3.50	12.80	9.60	0.00	9.60	11.10	12.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 6:45 AM	240.00	3.70	11.20	8.30	0.00	8.30	9.90	11.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 7:00 AM	250.00	2.30	10.40	8.10	0.00	8.10	7.80	10.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 7:15 AM	230.00	3.20	9.80	8.50	0.00	8.50	6.90	9.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 7:30 AM	240.00	3.70	10.40	9.10	0.00	9.10	7.50	10.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 7:45 AM	245.00	3.80	9.40	8.50	0.00	8.50	6.80	9.40	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 8:00 AM	253.00	3.60	8.90	9.10	0.20	9.10	6.40	8.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 8:15 AM	258.00	3.50	9.70	9.50	0.00	9.50	6.80	9.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 8:30 AM	246.00	4.40	9.00	10.00	1.00	10.00	6.20	9.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 8:45 AM	248.00	3.60	8.00	9.90	1.90	9.90	5.90	8.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 9:00 AM	249.00	4.30	8.30	10.50	2.20	10.50	6.30	8.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 9:15 AM	249.00	5.40	8.10	11.40	3.30	11.40	8.00	8.10	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 9:30 AM	272.00	3.70	8.60	6.50	0.00	12.40	6.50	7.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 9:45 AM	276.00	7.10	7.90	6.00	0.00	13.00	6.00	6.30	7.90	1.40	0.00	0.00	0.00	0.00	0.00	1.40
10/17/14 10:00 AM	272.00	5.00	8.00	5.80	0.00	13.40	5.80	5.70	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 10:15 AM	287.00	4.70	8.40	5.80	0.00	13.00	5.80	6.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 10:30 AM	268.00	5.30	6.20	13.10	6.90	13.10	6.90	6.20	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 10:45 AM	252.00	6.10	6.30	16.00	9.70	16.00	7.20	6.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 11:00 AM	260.00	3.70	6.30	15.70	9.40	15.70	7.00	6.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 11:15 AM	268.00	4.50	7.40	16.50	9.10	16.50	8.10	7.40	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 11:30 AM	257.00	6.00	7.30	17.90	10.60	17.90	10.80	7.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 11:45 AM	259.00	4.80	7.90	17.60	9.70	17.60	9.40	7.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/14 12:00 PM	257.00	4.50	8.40	0.00	0.00	0.00	10.20									





**US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
10/17/14 8:00 PM	286.00	6.50	11.20	18.30	7.10	18.90	18.30	21.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 8:15 PM	287.00	5.30	10.00	16.60	6.60	16.30	16.60	20.30	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 8:30 PM	292.00	7.00	10.60	14.40	3.80	14.90	14.40	19.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 8:45 PM	283.00	5.60	11.20	16.00	4.80	15.90	16.00	18.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 9:00 PM	291.00	6.10	12.50	17.60	5.10	16.90	17.60	20.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 9:15 PM	278.00	4.80	12.10	20.50	8.40	17.40	20.50	21.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 9:30 PM	285.00	6.30	12.60	20.30	7.70	18.10	20.30	21.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 9:45 PM	283.00	6.10	11.90	20.20	8.30	0.00	20.20	21.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 10:00 PM	295.00	7.10	11.60	20.30	8.70	17.60	20.30	21.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 10:15 PM	295.00	5.20	11.40	17.70	6.30	17.70	17.70	20.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 10:30 PM	336.00	3.30	11.80	16.00	4.20	16.20	16.00	18.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 10:45 PM	352.00	11.00	10.00	14.10	4.10	14.90	14.10	17.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 11:00 PM	348.00	7.20	10.30	12.40	2.10	14.10	12.40	16.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 11:15 PM	328.00	5.20	8.80	11.60	2.80	13.30	11.60	15.70	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 11:30 PM	355.00	10.80	9.00	11.40	2.40	11.90	11.40	14.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/17/14 11:45 PM	347.00	10.20	3.30	2.80	0.00	0.00	2.80	12.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:00 AM	349.00	8.50	2.10	-0.40	0.00	4.00	-0.40	7.50	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:15 AM	354.00	11.40	2.10	0.20	0.00	4.70	0.20	9.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:30 AM	337.00	4.50	1.50	-2.60	0.00	4.00	-2.60	6.90	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:45 AM	336.00	5.30	0.90	-1.50	0.00	2.20	-1.50	1.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 1:00 AM	343.00	4.30	1.10	-1.60	0.00	2.30	-1.60	2.40	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 1:15 AM	348.00	4.00	1.50	-1.20	0.00	2.10	-1.20	2.30	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 1:30 AM	332.00	5.30	2.00	1.10	0.00	3.30	1.10	3.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 1:45 AM	319.00	3.70	2.30	1.90	0.00	3.40	1.90	3.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 2:00 AM	323.00	4.20	1.80	0.50	0.00	2.50	0.50	2.60	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 2:15 AM	321.00	4.10	1.90	-0.60	0.00	2.80	-0.60	2.60	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 2:30 AM	320.00	3.50	2.20	0.20	0.00	2.80	0.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 2:45 AM	312.00	3.30	3.00	0.90	0.00	3.30	0.90	2.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 3:00 AM	313.00	3.90	2.80	0.30	0.00	3.20	0.30	2.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 3:15 AM	306.00	3.70	3.10	0.20	0.00	3.50	0.20	2.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 3:30 AM	304.00	3.40	2.80	0.70	0.00	3.90	0.70	3.50	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 3:45 AM	295.00	3.20	2.70	0.20	0.00	3.80	0.20	3.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 4:00 AM	312.00	3.00	3.20	1.80	0.00	3.30	1.80	3.30	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 4:15 AM	315.00	4.40	3.20	1.90	0.00	4.20	1.90	3.40	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 4:30 AM	317.00	4.10	3.30	1.90	0.00	4.40	1.90	3.50	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 4:45 AM	316.00	5.50	2.60	1.70	0.00	3.80	1.70	4.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 5:00 AM	308.00	4.30	2.30	1.40	0.00	3.60	1.40	4.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 5:15 AM	313.00	4.20	2.60	1.60	0.00	3.60	1.60	3.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 5:30 AM	305.00	3.90	2.80	1.90	0.00	3.60	1.90	3.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 5:45 AM	307.00	4.70	3.00	1.80	0.00	3.50	1.80	4.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 6:00 AM	312.00	4.60	3.10	2.30	0.00	3.90	2.30	4.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 6:15 AM	313.00	3.80	2.90	2.50	0.00	4.60	2.50	4.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 6:30 AM	309.00	4.50	2.70	2.60	0.00	5.10	2.60	4.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 6:45 AM	314.00	4.10	2.00	1.90	0.00	4.70	1.90	3.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 7:00 AM	319.00	4.90	2.70	2.00	0.00	3.70	2.00	4.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 7:15 AM	349.00	11.20	2.70	1.80	0.00	3.90	1.80	4.40	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 7:30 AM	354.00	10.40	3.90	2.70	0.00	3.80	2.70	5.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 7:45 AM	358.00	10.10	3.90	3.40	0.00	0.00	3.40	5.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 8:00 AM	353.00	9.60	3.50	3.20	0.00	4.60	3.20	5.30	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 8:15 AM	359.00	9.60	2.40	3.00	0.60	2.80	3.00	4.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 8:30 AM	356.00	10.40	1.30	0.00	0.00	2.80	0.00	2.50	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 8:45 AM	350.00	9.00	2.60	2.60	0.00	3.30	2.60	3.70	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 9:00 AM	1.00	9.20	3.90	3.30	0.00	3.90	3.30	3.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 9:15 AM	359.00	8.70	2.90	1.40	0.00	3.40	1.40	2.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 9:30 AM	351.00	7.70	2.60	0.40	0.00	3.00	0.40	2.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 9:45 AM	337.00	6.50	2.80	-0.20	0.00	2.50	-0.20	2.30	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 10:00 AM	348.00	8.50	3.20	0.30	0.00	3.10	0.30	2.40	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 10:15 AM	350.00	9.50	4.00	2.90	0.00	3.40	2.90	4.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 10:30 AM	356.00	9.10	3.00	1.30	0.00	2.90	1.30	3.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 10:45 AM	355.00	10.30	2.70	1.90	0.00	3.30	1.90	3.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 11:00 AM	356.00	11.20	2.00	2.10	0.10	2.90	2.10	5.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 11:15 AM	351.00	10.00	1.70	4.90	3.20	4.10	4.90	6.40	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 11:30 AM	355.00	9.50	0.90	4.00	3.10	3.80	4.00	7.50	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 11:45 AM	348.00	9.30	0.50	1.60	1.10	2.40	1.60	3.90	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:00 PM	353.00	8.70	0.40	-0.80	0.00	1.90	-0.80	2.30	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:15 PM	349.00	8.40	0.40	-0.30	0.00	1.70	-0.30	3.30	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:30 PM	349.00	8.90	0.40	0.60	0.20	2.10	0.60	3.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 12:45 PM	355.00	7.90	0.80	-1.20	0.00	1.90	-1.20	2.40	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 1:00 PM	347.00	8.40	0.90	0.00	0.00	2.10	0.00	3.10	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/18/14 1:15 PM	342.00	5.70	1.00	-0.40	0.00	1.80	-0.40	2.70	1.00	0.00	0.00	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		
10/19/14 10:30 PM	204.00	6.20	13.50	8.40	0.00	8.40	10.20	13.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/19/14 10:45 PM	217.00	4.90	14.50	8.30	0.00	8.30	9.90	14.50	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/19/14 11:00 PM	208.00	4.30	14.50	8.30	0.00	8.30	10.60	14.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/19/14 11:15 PM	200.00	5.70	14.80	8.70	0.00	8.70	10.80	14.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/19/14 11:30 PM	0.00	0.00	0.00	0.00	0.00	8.70	10.90	15.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/19/14 11:45 PM	206.00	4.30	15.40	8.90	0.00	8.90	11.20	15.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:00 AM	204.00	4.50	18.80	10.80	0.00	10.80	14.10	18.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:15 AM	207.00	5.80	18.20	10.30	0.00	10.30	13.70	18.20	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:30 AM	206.00	4.60	19.50	11.00	0.00	11.00	16.20	19.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:45 AM	204.00	4.10	22.00	12.30	0.00	12.30	15.50	22.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:00 AM	206.00	4.20	16.90	10.10	0.00	10.10	12.60	16.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:15 AM	208.00	4.80	16.30	10.30	0.00	10.30	12.70	16.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:30 AM	206.00	4.80	15.90	10.20	0.00	10.20	12.00	15.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:45 AM	204.00	5.10	18.00	11.00	0.00	11.00	14.20	18.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:00 AM	208.00	5.90	19.70	11.20	0.00	11.20	15.00	19.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:15 AM	202.00	4.90	18.20	11.20	0.00	11.20	15.00	18.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:30 AM	207.00	6.00	18.40	11.00	0.00	11.00	14.20	18.40	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:45 AM	205.00	5.10	18.00	10.30	0.00	10.30	13.00	18.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 3:00 AM	212.00	5.10	16.50	10.70	0.00	10.70	13.70	16.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 3:15 AM	202.00	5.60	17.00	10.50	0.00	10.50	13.50	17.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 3:30 AM	212.00	5.50	16.90	10.70	0.00	10.70	13.50	16.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 3:45 AM	213.00	4.70	18.10	11.40	0.00	11.40	13.70	18.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 4:00 AM	206.00	4.00	19.10	0.00	0.00	0.00	14.60	19.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 4:15 AM	0.00	0.00	0.00	0.00	0.00	11.90	14.70	18.40	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 4:30 AM	0.00	0.00	0.00	0.00	0.00	12.00	15.40	18.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 4:45 AM	0.00	0.00	0.00	0.00	0.00	12.70	16.10	19.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 5:00 AM	205.00	3.90	18.00	11.90	0.00	11.90	16.70	18.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 5:15 AM	218.00	3.10	16.20	10.20	0.00	10.20	13.60	16.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 5:30 AM	202.00	4.90	16.30	10.40	0.00	10.40	13.80	16.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 5:45 AM	219.00	5.60	14.50	9.30	0.00	9.30	12.20	14.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 6:00 AM	214.00	4.90	13.60	9.20	0.00	9.20	11.40	13.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 6:15 AM	209.00	3.80	12.90	9.10	0.00	9.10	10.20	12.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 6:30 AM	224.00	4.60	12.40	8.90	0.00	8.90	9.70	12.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 6:45 AM	215.00	4.30	12.20	8.60	0.00	8.60	10.20	12.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 7:00 AM	233.00	4.70	12.50	8.40	0.00	8.40	10.30	12.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 7:15 AM	226.00	3.30	13.30	9.10	0.00	9.10	13.40	13.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 7:30 AM	234.00	2.90	13.10	8.90	0.00	8.90	10.70	13.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 7:45 AM	238.00	2.70	12.90	9.00	0.00	9.00	9.90	12.90	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 8:00 AM	232.00	2.30	15.80	9.80	0.00	9.80	10.80	15.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 8:15 AM	232.00	3.60	16.40	10.30	0.00	10.30	11.60	16.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 8:30 AM	256.00	4.70	16.30	9.60	0.00	9.60	11.40	16.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 8:45 AM	253.00	4.30	16.30	10.70	0.00	10.70	11.80	16.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 9:00 AM	254.00	4.30	16.90	0.00	0.00	0.00	12.70	16.90	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 9:15 AM	282.00	3.50	6.80	12.80	6.00	13.40	12.80	16.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 9:30 AM	263.00	2.50	15.90	11.40	0.00	11.40	13.60	15.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 9:45 AM	252.00	3.10	15.20	12.60	0.00	12.60	12.30	15.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 10:00 AM	290.00	2.70	7.70	12.10	4.40	12.30	12.10	14.40	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 10:15 AM	305.00	3.60	8.40	12.30	3.90	13.20	12.30	13.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 10:30 AM	281.00	3.50	7.70	12.90	5.20	14.30	12.90	13.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 10:45 AM	280.00	3.40	7.70	13.30	5.60	14.60	13.30	13.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 11:00 AM	259.00	2.50	13.10	15.10	2.00	15.10	13.40	13.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 11:15 AM	309.00	2.60	8.30	15.20	6.90	15.80	15.20	14.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 11:30 AM	286.00	3.40	8.60	14.30	5.70	16.10	14.30	14.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 11:45 AM	357.00	4.80	8.90	15.90	7.00	17.00	15.90	14.40	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:00 PM	8.00	3.90	19.10	15.20	0.00	19.10	17.40	15.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:15 PM	341.00	2.20	10.20	20.80	10.60	19.80	20.80	15.70	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:30 PM	1.00	2.40	21.30	15.70	0.00	21.30	18.80	15.70	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 12:45 PM	3.00	4.60	20.60	19.50	0.00	20.60	20.00	19.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:00 PM	354.00	4.70	11.90	22.00	10.10	23.10	22.00	18.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:15 PM	353.00	4.50	14.00	24.10	10.10	24.20	24.10	20.10	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:30 PM	358.00	5.00	14.00	24.50	10.50	24.70	24.50	21.10	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 1:45 PM	37.00	3.90	25.20	21.90	0.00	25.20	25.80	21.90	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:00 PM	36.00	5.20	26.40	22.00	0.00	26.40	25.90	22.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:15 PM	12.00	4.40	25.30	21.60	0.00	25.30	24.30	21.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:30 PM	42.00	4.80	23.60	22.50	0.00	23.60	25.70	22.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 2:45 PM	38.00	6.00	25.40	22.50	0.00	25.40	23.30	22.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 3:00 PM	10.00	6.70	27.60	24.20	0.00	27.60	32.00	24.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 3:15 PM	16.00	5.80	26.80	27.60	0.80	26.80	25.30	27.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/20/14 3:30 PM	37.00	5.90	28.10	29.40	1.30	28.10	27.90	29.40	15.90	0.00	0							



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
10/20/14 11:45 PM	347.00	5.70	6.30	6.30	0.00	7.20	6.30	9.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:00 AM	354.00	7.60	6.10	6.30	0.20	7.00	6.30	9.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:15 AM	21.00	7.10	6.70	9.40	2.70	6.70	6.20	9.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:30 AM	358.00	4.60	4.80	6.50	1.70	6.80	6.50	9.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:45 AM	5.00	9.80	8.60	10.10	1.50	8.60	8.40	10.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:00 AM	358.00	6.60	4.30	8.40	4.10	8.00	8.40	9.70	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:15 AM	2.00	6.40	5.90	12.10	6.20	5.90	5.20	12.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:30 AM	348.00	7.60	2.80	6.90	4.10	7.20	6.90	10.40	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:45 AM	347.00	7.40	2.00	3.20	1.20	4.90	3.20	7.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:00 AM	352.00	7.10	1.80	2.40	0.60	3.50	2.40	6.30	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:15 AM	353.00	8.20	1.70	2.00	0.30	0.00	2.00	4.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:30 AM	347.00	7.40	1.90	1.70	0.00	2.90	1.70	4.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:45 AM	350.00	7.40	2.10	0.90	0.00	2.60	0.90	4.30	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:00 AM	343.00	5.70	2.20	1.30	0.00	2.90	1.30	4.70	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:15 AM	346.00	5.10	2.50	1.50	0.00	3.40	1.50	4.70	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:30 AM	346.00	5.60	2.70	1.30	0.00	3.50	1.30	4.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:45 AM	356.00	8.20	2.80	1.40	0.00	3.30	1.40	4.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:00 AM	14.00	9.00	3.10	5.10	2.00	3.10	1.50	5.10	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:15 AM	15.00	9.10	2.90	5.00	2.10	2.90	1.60	5.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:30 AM	14.00	8.50	2.50	4.70	2.20	2.50	1.00	4.70	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:45 AM	8.00	9.20	2.90	5.00	2.10	2.90	1.60	5.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 5:00 AM	17.00	8.80	4.00	8.80	4.80	4.00	1.90	8.80	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 5:15 AM	18.00	8.60	5.90	9.80	3.90	5.90	2.40	9.80	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 5:30 AM	7.00	9.70	3.50	9.60	6.10	3.50	2.00	9.60	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 5:45 AM	13.00	8.30	6.30	6.30	0.00	6.30	1.50	6.30	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 6:00 AM	13.00	9.00	6.20	6.20	0.00	6.20	1.00	6.20	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 6:15 AM	1.00	10.50	5.00	5.40	0.40	5.00	0.90	5.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 6:30 AM	2.00	9.30	7.00	5.70	0.00	7.00	1.10	5.70	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 6:45 AM	2.00	11.50	6.00	4.20	0.00	6.00	6.90	4.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 7:00 AM	13.00	10.90	4.80	3.40	0.00	4.80	3.10	3.40	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 7:15 AM	21.00	7.20	5.10	3.90	0.00	5.10	1.80	3.90	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 7:30 AM	3.00	8.00	5.60	2.80	0.00	5.60	3.90	2.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 7:45 AM	359.00	10.50	1.90	2.40	0.50	7.30	2.40	3.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 8:00 AM	359.00	9.00	3.10	4.10	1.00	7.50	4.10	3.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 8:15 AM	356.00	11.60	3.00	-0.60	0.00	3.30	-0.60	3.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 8:30 AM	357.00	9.50	2.90	3.20	0.30	5.80	3.20	3.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 8:45 AM	353.00	9.40	3.40	1.50	0.00	2.90	1.50	2.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 9:00 AM	352.00	7.00	2.80	0.50	0.00	2.50	0.50	3.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 9:15 AM	358.00	11.20	2.80	1.10	0.00	3.60	1.10	3.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 9:30 AM	357.00	10.10	2.70	0.10	0.00	2.50	0.10	2.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 9:45 AM	351.00	7.00	2.40	0.10	0.00	2.80	0.10	2.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 10:00 AM	352.00	7.80	2.60	0.80	0.00	3.40	0.80	2.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 10:15 AM	351.00	9.80	2.50	1.20	0.00	3.00	1.20	3.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 10:30 AM	354.00	9.90	2.20	0.70	0.00	2.30	0.70	3.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 10:45 AM	343.00	8.40	1.50	1.30	0.00	2.10	1.30	3.90	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 11:00 AM	348.00	8.20	1.00	1.00	0.00	2.30	1.00	4.30	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 11:15 AM	357.00	8.80	1.30	2.60	1.30	3.40	2.60	4.50	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 11:30 AM	350.00	9.80	1.20	3.50	2.30	2.70	3.50	5.10	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 11:45 AM	349.00	9.70	1.40	2.80	1.40	3.00	2.80	5.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:00 PM	358.00	10.90	1.30	3.50	2.20	3.30	3.50	6.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:15 PM	355.00	9.80	1.10	2.40	1.30	2.70	2.40	6.40	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:30 PM	358.00	10.70	0.90	2.10	1.20	3.10	2.10	5.40	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 12:45 PM	3.00	8.50	3.00	6.50	3.50	3.00	2.20	6.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:00 PM	353.00	10.50	1.20	1.80	0.60	3.30	1.80	6.40	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:15 PM	6.00	12.20	2.50	6.00	3.50	2.50	1.90	6.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:30 PM	6.00	9.50	2.90	5.90	3.00	2.90	1.70	5.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 1:45 PM	357.00	8.80	1.10	2.30	1.20	3.60	2.30	6.20	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:00 PM	10.00	12.10	6.40	6.20	0.00	6.40	3.40	6.20	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:15 PM	19.00	10.40	2.70	4.70	2.00	2.70	0.40	4.70	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:30 PM	353.00	11.30	0.90	1.20	0.30	3.00	1.20	4.70	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 2:45 PM	358.00	9.50	0.80	1.00	0.20	2.60	1.00	4.20	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:00 PM	351.00	9.50	0.70	0.80	0.10	8.30	0.80	3.50	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:15 PM	9.00	8.90	4.10	3.40	0.00	4.10	6.60	3.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:30 PM	13.00	9.00	3.60	3.00	0.00	3.60	0.80	3.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 3:45 PM	1.00	8.80	2.30	4.10	1.80	2.30	1.20	4.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:00 PM	7.00	9.00	0.00	4.10	0.00	0.00	1.00	4.10	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:15 PM	10.00	8.90	2.80	3.30	0.50	2.80	1.00	3.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:30 PM	358.00	7.50	1.70	1.20	0.00	4.60	1.20	2.80	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 4:45 PM	10.00	8.70	7.80	4.40	0.00	7.80	0.20	4.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 5:00 PM	4.00	7.60	3.20	2.20	0.00	3.20	0.70	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/21/14 5:15 PM	7.00	9.00	5.00	1.80	0.00	5.00	1.20	1.80</										



**US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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
10/22/14 1:00 AM	164.00	1.70	12.20	4.00	0.00	15.10	12.20	11.70	4.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 1:15 AM	175.00	1.70	8.50	4.70	0.00	17.30	8.50	11.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 1:30 AM	193.00	1.50	11.00	22.80	11.80	22.80	9.90	11.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 1:45 AM	192.00	0.90	8.20	9.20	1.00	9.20	8.80	8.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:00 AM	203.00	1.40	9.20	9.10	0.00	9.10	7.90	9.20	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:15 AM	213.00	1.70	9.20	9.80	0.60	9.80	8.30	9.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:30 AM	209.00	1.10	9.90	9.10	0.00	9.10	8.60	9.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:45 AM	260.00	1.40	11.10	10.00	0.00	10.00	9.60	11.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:00 AM	247.00	1.20	16.50	10.20	0.00	10.20	10.60	16.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:15 AM	188.00	0.50	17.20	11.20	0.00	11.20	11.80	17.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:30 AM	216.00	0.80	17.30	13.10	0.00	13.10	23.10	17.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:45 AM	222.00	0.70	15.60	11.40	0.00	11.40	17.40	15.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:00 AM	224.00	1.00	15.20	10.80	0.00	10.80	15.10	15.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:15 AM	209.00	1.10	14.70	10.40	0.00	10.40	16.90	14.70	8.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:30 AM	231.00	1.30	15.20	10.70	0.00	10.70	14.60	15.20	7.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:45 AM	230.00	1.10	14.70	10.20	0.00	10.20	15.90	14.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:00 AM	193.00	0.90	17.10	11.90	0.00	11.90	17.80	17.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:15 AM	221.00	1.10	20.60	12.80	0.00	12.80	20.30	20.60	9.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:30 AM	155.00	1.70	22.80	9.60	0.00	14.80	22.80	24.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:45 AM	152.00	2.00	23.90	9.50	0.00	14.40	23.90	23.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:00 AM	152.00	2.10	26.20	9.80	0.00	14.30	26.20	23.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:15 AM	155.00	2.20	25.90	10.00	0.00	15.90	25.90	25.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:30 AM	148.00	2.30	29.50	12.10	0.00	17.50	29.50	23.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:45 AM	148.00	1.80	27.00	15.30	0.00	17.70	27.00	23.60	15.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 7:00 AM	123.00	2.30	38.20	12.60	0.00	22.60	38.20	25.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 7:15 AM	166.00	1.30	26.20	9.20	0.00	19.70	26.20	24.70	9.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 7:30 AM	161.00	1.70	17.60	5.60	0.00	17.30	17.60	19.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 7:45 AM	145.00	0.80	20.10	5.50	0.00	16.90	20.10	17.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 8:00 AM	124.00	1.80	13.90	6.70	0.00	21.60	13.90	14.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 8:15 AM	136.00	1.70	14.60	9.60	0.00	13.00	14.60	14.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 8:30 AM	156.00	1.20	15.80	8.70	0.00	16.70	15.60	15.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 8:45 AM	129.00	2.00	18.40	7.80	0.00	14.20	18.40	15.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 9:00 AM	151.00	1.10	12.20	12.30	0.10	28.40	12.20	14.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 9:15 AM	171.00	2.40	10.20	15.00	4.80	0.00	10.20	13.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 9:30 AM	156.00	2.60	8.90	19.30	10.40	23.50	8.90	13.10	19.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 9:45 AM	127.00	2.50	12.80	11.50	0.00	20.00	12.80	10.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 10:00 AM	108.00	2.60	12.30	13.30	1.00	13.60	12.30	11.80	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 10:15 AM	164.00	2.30	15.70	15.00	0.00	16.80	15.70	13.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 10:30 AM	72.00	2.10	16.60	10.60	0.00	16.60	15.00	10.60	15.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 10:45 AM	87.00	1.60	18.60	10.40	0.00	18.60	13.20	10.40	14.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 11:00 AM	87.00	1.80	36.10	9.50	0.00	36.10	9.90	9.50	19.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 11:15 AM	69.00	3.10	32.40	10.00	0.00	32.40	11.90	10.00	18.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 11:30 AM	75.00	3.20	26.80	10.10	0.00	26.80	16.90	10.10	18.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 11:45 AM	59.00	3.90	31.70	15.00	0.00	31.70	13.40	15.00	18.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 12:00 PM	70.00	3.40	40.00	21.90	0.00	40.00	26.90	21.90	24.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 12:15 PM	106.00	2.50	25.90	21.40	0.00	29.60	25.90	20.10	21.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 12:30 PM	97.00	2.20	27.10	20.70	0.00	39.90	27.10	24.30	20.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 12:45 PM	70.00	2.90	37.50	27.10	0.00	37.50	22.10	27.10	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 1:00 PM	112.00	3.70	33.70	34.70	1.00	34.90	33.70	30.00	34.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 1:15 PM	102.00	3.60	15.60	32.20	16.60	59.50	15.60	18.80	32.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 1:30 PM	103.00	3.90	14.80	17.40	2.60	19.50	14.80	11.70	17.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 1:45 PM	73.00	4.10	13.90	11.00	0.00	13.90	9.00	11.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:00 PM	73.00	1.70	22.40	12.20	0.00	22.40	7.10	12.20	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:15 PM	42.00	3.80	23.80	10.30	0.00	23.80	8.30	10.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:30 PM	34.00	2.90	13.70	11.00	0.00	13.70	10.10	11.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 2:45 PM	37.00	4.90	25.50	10.20	0.00	25.50	21.00	10.20	17.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:00 PM	24.00	3.80	17.70	14.30	0.00	17.70	18.70	14.30	15.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:15 PM	40.00	4.60	21.40	15.00	0.00	21.40	14.00	15.00	13.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:30 PM	21.00	4.40	20.20	18.70	0.00	20.20	14.40	18.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 3:45 PM	41.00	3.40	9.60	14.70	5.10	9.60	11.00	14.70	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:00 PM	33.00	4.50	11.80	11.20	0.00	11.80	10.00	11.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:15 PM	26.00	4.50	7.40	7.90	0.50	7.40	5.90	7.90	11.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:30 PM	31.00	4.00	7.60	6.20	0.00	7.60	3.60	6.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 4:45 PM	51.00	3.30	9.70	8.00	0.00	9.70	14.90	8.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:00 PM	42.00	3.10	8.70	5.70	0.00	8.70	6.50	5.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:15 PM	47.00	3.70	9.30	9.40	0.10	9.30	8.70	9.40	16.60	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:30 PM	67.00	3.90	24.00	9.00	0.00	24.00	9.10	9.00	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 5:45 PM	57.00	3.80	15.30	10.30	0.00	15.30	5.70	10.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:00 PM	54.00	3.90	11.20	14.50	3.30	11.20	7.80	14.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:15 PM	61.00	2.50	17.30	15.70	0.00	17.30	12.00	15.70	8.90	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:30 PM	82.00	3.60	20.30	22.50	2.20	20.30	27.60	22.50	17.70	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 6:45 PM	67.00	3.80	16.90	26.10	9.20	16.90	29.60	26.10	17.20	0.00	0.00	0.00	0.00	0.00	0.00	
10/22/14 7:00 PM	61.00	3.50	13.70	26.10	12.40	13.70										



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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
10/23/14 2:15 AM	153.00	3.10	31.90	18.60	0.00	26.20	31.90	32.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 2:30 AM	168.00	3.20	30.90	18.00	0.00	26.00	30.90	32.80	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 2:45 AM	162.00	3.00	31.50	17.00	0.00	25.80	31.50	32.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:00 AM	165.00	2.40	31.10	16.10	0.00	24.40	31.10	33.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:15 AM	169.00	3.70	31.30	16.40	0.00	23.20	31.30	35.30	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:30 AM	169.00	2.70	30.20	16.20	0.00	23.70	30.20	34.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:45 AM	160.00	3.30	30.80	16.30	0.00	24.00	30.80	32.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:00 AM	168.00	3.30	30.50	15.90	0.00	22.90	30.50	31.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:15 AM	164.00	3.50	30.90	15.80	0.00	24.80	30.90	31.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:30 AM	162.00	3.70	30.10	16.40	0.00	22.10	30.10	31.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:45 AM	160.00	3.40	31.10	16.70	0.00	22.10	31.10	32.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:00 AM	160.00	2.80	29.40	16.60	0.00	24.30	29.40	32.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:15 AM	161.00	3.70	30.60	15.60	0.00	23.60	30.60	32.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:30 AM	161.00	3.80	30.90	15.20	0.00	24.60	30.90	31.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:45 AM	166.00	3.10	31.30	15.90	0.00	24.60	31.30	32.30	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:00 AM	173.00	3.10	31.50	16.70	0.00	24.40	31.50	32.20	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:15 AM	169.00	3.50	32.70	17.60	0.00	23.30	32.70	32.60	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:30 AM	179.00	2.80	32.70	18.30	0.00	26.70	32.70	32.60	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:45 AM	180.00	2.60	32.50	26.60	0.00	26.60	31.80	32.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 7:00 AM	167.00	2.50	31.70	16.70	0.00	23.40	31.70	33.70	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 7:15 AM	162.00	2.80	33.00	16.90	0.00	24.20	33.00	33.50	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 7:30 AM	163.00	2.40	34.10	17.10	0.00	24.70	34.10	33.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 7:45 AM	160.00	3.10	33.00	18.50	0.00	24.70	33.00	36.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 8:00 AM	172.00	3.10	34.80	20.20	0.00	25.60	34.80	36.00	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 8:15 AM	172.00	3.10	35.50	19.00	0.00	25.50	35.50	37.40	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 8:30 AM	200.00	3.20	36.50	26.40	0.00	26.40	36.80	36.50	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 8:45 AM	191.00	3.80	36.40	27.60	0.00	27.60	39.40	36.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 9:00 AM	211.00	3.50	36.80	25.70	0.00	25.70	37.10	36.80	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 9:15 AM	207.00	2.60	31.00	25.70	0.00	25.70	33.60	31.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 9:30 AM	195.00	3.90	28.70	24.40	0.00	24.40	29.70	28.70	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 9:45 AM	194.00	3.60	28.80	26.00	0.00	26.00	30.40	28.80	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 10:00 AM	203.00	3.60	29.50	25.70	0.00	25.70	30.90	29.50	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 10:15 AM	185.00	4.90	27.30	24.60	0.00	24.60	28.40	27.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 10:30 AM	217.00	4.10	23.20	22.70	0.00	22.70	25.70	23.20	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 10:45 AM	222.00	3.80	22.60	20.60	0.00	20.60	22.30	22.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 11:00 AM	201.00	4.20	19.60	18.80	0.00	18.80	20.70	19.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 11:15 AM	230.00	4.90	18.00	17.10	0.00	17.10	18.80	18.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 11:30 AM	221.00	4.20	15.90	16.20	0.30	16.20	15.60	15.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 11:45 AM	229.00	4.70	14.80	14.90	0.10	14.90	15.40	14.80	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 12:00 PM	199.00	4.40	14.00	14.10	0.10	14.10	14.30	14.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 12:15 PM	173.00	5.10	12.00	9.00	0.00	12.30	12.00	12.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 12:30 PM	207.00	3.90	12.20	11.60	0.00	11.60	10.20	12.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 12:45 PM	225.00	5.10	11.30	11.50	0.20	11.50	9.70	11.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 1:00 PM	230.00	2.20	12.50	11.80	0.00	11.80	9.70	12.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 1:15 PM	219.00	4.60	10.60	11.40	0.80	11.40	9.70	10.60	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 1:30 PM	210.00	4.60	10.80	10.60	0.00	10.60	8.70	10.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 1:45 PM	178.00	6.00	8.70	5.90	0.00	10.80	8.70	8.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 2:00 PM	180.00	4.30	9.20	8.80	0.00	8.80	6.10	9.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 2:15 PM	203.00	3.50	6.80	9.50	2.70	9.50	6.50	6.80	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 2:30 PM	180.00	5.20	5.90	8.00	2.10	8.00	5.90	5.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 2:45 PM	191.00	4.90	5.60	8.30	2.70	8.30	4.80	5.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:00 PM	200.00	4.80	5.10	7.70	2.60	7.70	4.30	5.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:15 PM	207.00	5.20	4.50	7.30	2.80	7.30	3.90	4.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:30 PM	191.00	2.70	4.60	9.10	4.50	9.10	3.70	4.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 3:45 PM	206.00	3.00	5.40	8.00	2.60	8.00	4.90	5.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:00 PM	191.00	2.20	4.70	6.90	2.20	6.90	3.60	4.70	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:15 PM	207.00	4.30	5.00	7.40	2.40	7.40	3.50	5.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:30 PM	190.00	4.60	6.10	8.80	2.70	8.80	5.20	6.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 4:45 PM	215.00	4.30	6.20	8.30	2.10	8.30	5.00	6.20	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:00 PM	202.00	3.80	5.10	7.30	2.20	7.30	4.50	5.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:15 PM	177.00	4.70	4.00	4.50	0.50	7.40	4.00	5.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:30 PM	202.00	3.30	5.90	8.50	2.60	8.50	5.20	5.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 5:45 PM	186.00	2.00	7.20	8.70	1.50	8.70	5.50	7.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:00 PM	173.00	2.40	5.90	5.60	0.00	8.60	5.90	7.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:15 PM	155.00	2.10	5.70	5.80	0.10	9.10	5.70	7.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:30 PM	176.00	2.20	5.50	6.00	0.50	8.30	5.50	6.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 6:45 PM	199.00	3.00	7.10	9.50	2.40	9.50	6.70	7.10	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 7:00 PM	185.00	3.00	9.10	9.80	0.70	9.80	6.50	9.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/14 7:15 PM	187.00	2.90	9.00	11.50	2.50	11.50	9.50	9.00	7.50	0.00	0.00	0.00	0.00	0.		





**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
10/25/14 4:45 AM	240.00	2.30	58.20	30.20	0.00	30.20	47.10	58.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:00 AM	236.00	1.90	59.80	29.20	0.00	29.20	50.70	59.80	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:15 AM	238.00	1.70	56.20	28.90	0.00	28.90	50.10	56.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:30 AM	274.00	2.40	18.10	49.30	31.20	28.70	49.30	55.00	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:45 AM	264.00	3.30	52.20	28.00	0.00	28.00	47.50	52.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:00 AM	283.00	4.40	17.70	46.00	28.30	27.60	46.00	51.20	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:15 AM	279.00	3.10	18.30	47.80	29.50	27.80	47.80	51.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:30 AM	262.00	2.30	52.00	28.20	0.00	28.20	47.90	52.00	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:45 AM	272.00	3.30	20.70	48.80	28.10	29.00	48.80	52.80	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:00 AM	269.00	3.70	73.00	33.50	0.00	33.50	65.80	73.00	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:15 AM	280.00	4.20	24.30	69.20	44.90	36.00	69.20	78.90	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:30 AM	251.00	3.30	85.50	46.40	0.00	46.40	81.80	85.50	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:45 AM	245.00	2.60	78.30	36.50	0.00	36.50	67.20	78.30	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:00 AM	250.00	2.70	71.60	33.00	0.00	33.00	63.10	71.60	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:15 AM	221.00	3.10	68.50	31.80	0.00	31.80	60.80	68.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:30 AM	230.00	3.40	66.40	31.40	0.00	31.40	57.60	66.40	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:45 AM	238.00	3.30	63.90	30.10	0.00	30.10	56.90	63.90	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:00 AM	247.00	4.00	65.30	29.90	0.00	29.90	58.30	65.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:15 AM	269.00	4.00	64.40	30.10	0.00	30.10	60.30	64.40	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:30 AM	276.00	2.80	20.80	52.10	31.30	29.80	52.10	57.00	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:45 AM	251.00	4.30	51.20	28.60	0.00	28.60	48.30	51.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 10:00 AM	307.00	4.00	17.60	47.60	30.00	31.10	47.60	48.90	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 10:15 AM	301.00	2.80	17.10	46.80	29.70	29.40	46.80	46.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 10:30 AM	301.00	4.30	21.10	43.50	22.40	29.90	43.50	41.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 10:45 AM	311.00	4.80	26.40	39.40	13.00	30.20	39.40	35.40	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 11:00 AM	298.00	5.00	22.40	35.80	13.40	32.80	35.80	31.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 11:15 AM	321.00	4.40	21.50	34.50	13.00	30.70	34.50	28.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 11:30 AM	277.00	4.20	20.20	30.80	10.60	27.20	30.80	26.40	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 11:45 AM	289.00	5.00	20.20	27.80	7.60	26.30	27.80	21.30	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 12:00 PM	284.00	3.10	15.80	23.40	7.60	22.70	23.40	16.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 12:15 PM	291.00	3.40	15.00	20.70	5.70	21.30	20.70	12.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 12:30 PM	323.00	3.20	15.10	16.60	1.50	19.90	16.60	12.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 12:45 PM	295.00	4.10	13.00	14.00	1.00	17.40	14.00	10.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 1:00 PM	327.00	4.20	12.10	11.00	0.00	16.60	11.00	7.50	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 1:15 PM	306.00	6.40	9.10	8.90	0.00	12.30	8.90	6.50	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 1:30 PM	287.00	5.60	7.90	5.60	0.00	9.90	5.60	4.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 1:45 PM	284.00	4.80	8.30	6.20	0.00	9.20	6.20	3.10	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 2:00 PM	304.00	6.10	13.70	3.00	0.00	8.50	3.00	2.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 2:15 PM	297.00	5.90	8.00	3.10	0.00	9.90	3.10	2.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 2:30 PM	285.00	6.20	8.10	2.00	0.00	11.50	2.00	2.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 2:45 PM	281.00	5.50	7.80	2.00	0.00	7.70	2.00	2.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 3:00 PM	289.00	4.40	8.70	2.00	0.00	9.00	2.00	2.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 3:15 PM	279.00	5.90	11.50	2.40	0.00	8.40	2.40	2.50	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 3:30 PM	279.00	5.50	8.50	2.40	0.00	8.90	2.40	2.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 3:45 PM	297.00	7.40	10.20	1.50	0.00	8.50	1.50	2.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 4:00 PM	296.00	7.40	9.10	2.10	0.00	9.20	2.10	2.80	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 4:15 PM	281.00	5.40	9.20	1.50	0.00	9.30	1.50	2.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 4:30 PM	291.00	7.00	7.30	1.40	0.00	6.80	1.40	1.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 4:45 PM	289.00	6.00	8.40	1.50	0.00	7.10	1.50	2.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:00 PM	280.00	6.20	9.80	0.90	0.00	11.90	0.90	1.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:15 PM	285.00	5.50	9.90	1.20	0.00	10.20	1.20	2.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:30 PM	297.00	5.30	10.30	1.40	0.00	9.40	1.40	2.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 5:45 PM	287.00	3.90	9.90	1.70	0.00	12.10	1.70	2.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:00 PM	285.00	6.00	9.60	0.80	0.00	12.80	0.80	2.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:15 PM	295.00	4.00	8.40	1.70	0.00	9.40	1.70	2.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:30 PM	278.00	3.50	7.30	2.90	0.00	8.80	2.90	2.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 6:45 PM	272.00	5.50	8.80	0.60	0.00	11.10	0.60	2.20	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:00 PM	294.00	6.20	9.20	1.10	0.00	10.10	1.10	2.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:15 PM	287.00	4.20	8.50	0.70	0.00	8.90	0.70	2.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:30 PM	294.00	4.60	8.50	0.90	0.00	9.80	0.90	2.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 7:45 PM	299.00	3.60	8.00	1.30	0.00	8.60	1.30	3.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:00 PM	305.00	3.30	8.60	1.80	0.00	8.80	1.80	2.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:15 PM	294.00	2.40	8.10	1.10	0.00	10.20	1.10	2.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:30 PM	296.00	2.20	7.70	1.00	0.00	7.90	1.00	2.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 8:45 PM	298.00	3.60	6.90	1.40	0.00	0.00	1.40	3.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:00 PM	297.00	4.20	7.70	1.80	0.00	7.50	1.80	3.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:15 PM	300.00	4.50	8.50	2.70	0.00	9.10	2.70	4.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:30 PM	293.00	3.60	9.00	3.20	0.00	9.20	3.20	3.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/25/14 9:45 PM	299.00	4.50	11.50	3.30	0.00	11.20	3.30	5.30	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10																		





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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
10/26/14 6:00 AM	271.00	2.40	10.10	7.30	0.00	11.60	7.30	11.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 6:15 AM	297.00	2.50	12.80	9.00	0.00	14.00	9.00	13.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 6:30 AM	306.00	2.20	11.10	8.70	0.00	14.20	8.70	13.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 6:45 AM	311.00	2.40	11.90	8.90	0.00	12.40	8.90	13.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:00 AM	293.00	3.00	13.00	8.20	0.00	12.50	8.20	13.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:15 AM	306.00	2.20	11.20	11.00	0.00	12.00	11.00	16.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:30 AM	288.00	2.40	15.40	11.70	0.00	16.70	11.70	16.60	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:45 AM	170.00	1.20	9.30	13.40	4.10	15.50	9.30	14.70	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:00 AM	222.00	1.00	13.40	15.10	1.70	15.10	8.50	13.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:15 AM	239.00	1.10	13.30	16.00	2.70	16.00	10.10	13.30	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:30 AM	252.00	1.50	14.10	15.40	1.30	15.40	10.90	14.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:45 AM	307.00	0.40	13.30	10.40	0.00	15.20	10.40	14.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:00 AM	311.00	1.40	10.80	14.30	3.50	13.30	14.30	17.40	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:15 AM	339.00	1.00	10.90	15.10	4.20	16.20	15.10	15.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:30 AM	310.00	1.60	12.60	14.40	1.80	16.70	14.40	14.40	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:45 AM	345.00	3.10	12.30	12.70	0.40	17.30	12.70	14.70	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:00 AM	353.00	3.20	12.40	13.00	0.60	15.70	13.00	14.40	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:15 AM	354.00	2.70	11.40	12.40	1.00	14.30	12.40	12.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:30 AM	0.00	2.50	9.70	13.00	3.30	9.70	11.70	13.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:45 AM	331.00	1.40	5.70	3.90	0.00	6.10	3.90	8.20	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 11:00 AM	2.00	0.80	6.40	7.20	0.80	6.40	2.70	7.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 11:15 AM	353.00	1.80	4.90	1.90	0.00	6.60	1.90	7.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 11:30 AM	349.00	1.50	4.20	2.90	0.00	6.20	2.90	7.50	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 11:45 AM	9.00	1.70	6.00	7.70	1.70	6.00	1.90	7.70	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 12:00 PM	19.00	1.10	6.00	7.30	1.30	6.00	2.80	7.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 12:15 PM	349.00	0.60	3.70	2.60	0.00	5.40	2.60	7.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 12:30 PM	15.00	1.10	6.00	6.90	0.90	6.00	2.20	6.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 12:45 PM	299.00	1.20	4.30	2.50	0.00	5.90	2.50	6.60	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 1:00 PM	355.00	1.10	4.90	2.90	0.00	4.90	2.90	5.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 1:15 PM	69.00	0.70	5.00	5.40	0.40	5.00	1.10	5.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 1:30 PM	48.00	1.40	7.60	4.90	0.00	7.60	-0.40	4.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 1:45 PM	299.00	0.60	6.50	5.30	0.00	8.00	5.30	7.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 2:00 PM	181.00	1.60	8.20	18.00	9.80	18.00	10.80	8.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 2:15 PM	44.00	1.80	17.80	7.50	0.00	17.80	7.90	7.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 2:30 PM	119.00	2.20	14.50	7.60	0.00	19.00	14.50	8.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 2:45 PM	101.00	2.00	6.60	8.10	1.50	10.80	6.60	9.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 3:00 PM	99.00	3.50	10.00	7.90	0.00	12.30	10.00	10.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 3:15 PM	96.00	2.80	8.90	12.60	3.70	18.90	8.90	9.80	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 3:30 PM	107.00	2.90	11.10	11.80	0.70	21.50	11.10	12.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 3:45 PM	79.00	2.90	17.70	13.80	0.00	17.70	12.10	13.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 4:00 PM	76.00	3.10	14.60	13.40	0.00	14.60	9.30	13.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 4:15 PM	105.00	3.80	7.70	9.60	1.90	13.40	7.70	10.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 4:30 PM	81.00	2.40	16.20	11.20	0.00	16.20	6.90	11.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 4:45 PM	65.00	3.90	12.00	10.80	0.00	12.00	14.00	10.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 5:00 PM	65.00	3.80	7.00	10.70	3.70	7.00	8.60	10.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 5:15 PM	66.00	3.90	7.20	12.60	5.40	7.20	5.70	12.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 5:30 PM	67.00	5.10	6.90	12.30	5.40	6.90	5.20	12.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 5:45 PM	65.00	4.40	6.10	12.30	6.20	6.10	2.80	12.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 6:00 PM	77.00	5.10	4.20	10.00	5.80	4.20	4.10	10.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 6:15 PM	72.00	3.50	5.00	9.10	4.10	5.00	1.70	9.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 6:30 PM	64.00	4.60	5.80	9.10	3.30	5.80	1.10	9.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 6:45 PM	79.00	3.50	7.00	9.90	2.90	7.00	2.60	9.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:00 PM	113.00	3.50	2.50	6.30	3.80	5.20	2.50	9.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:15 PM	109.00	3.70	3.30	6.50	3.20	5.80	3.30	10.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:30 PM	115.00	3.00	2.90	5.70	2.80	4.80	2.90	10.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 7:45 PM	122.00	2.70	2.00	8.40	6.40	5.70	2.00	11.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:00 PM	130.00	2.50	2.70	5.30	2.60	5.50	2.70	11.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:15 PM	122.00	2.20	0.80	4.80	4.00	6.00	0.80	8.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:30 PM	139.00	2.80	3.40	3.70	0.30	5.00	3.40	10.70	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 8:45 PM	126.00	3.00	22.90	5.00	0.00	6.60	22.90	16.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:00 PM	117.00	2.40	54.70	7.00	0.00	28.40	54.70	35.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:15 PM	107.00	2.40	50.60	15.70	0.00	41.50	50.60	38.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:30 PM	118.00	3.10	30.00	10.90	0.00	33.80	30.00	28.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 9:45 PM	124.00	3.10	22.20	8.30	0.00	21.10	22.20	18.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:00 PM	126.00	4.20	21.60	9.10	0.00	22.30	21.60	20.40	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:15 PM	142.00	2.20	25.30	11.40	0.00	25.70	25.30	21.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:30 PM	148.00	2.70	26.60	14.80	0.00	35.90	26.60	22.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 10:45 PM	147.00	3.90	28.60	16.50	0.00	36.00	28.60	23.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 11:00 PM	148.00	3.10	29.50	16.90	0.00	37.40	29.50	24.00	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/26/14 11:15 PM	154.00	3.10	32.10	1														







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Real-Time Air Monitoring Data  
October 2014

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
10/29/14 9:45 AM	313.00	5.20	8.80	8.00	0.00	11.50	8.00	11.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:00 AM	325.00	5.30	10.20	8.40	0.00	13.10	8.40	11.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:15 AM	318.00	5.80	8.70	12.20	3.50	9.00	12.20	11.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:30 AM	308.00	6.80	11.40	17.80	6.40	12.70	17.80	11.70	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:45 AM	303.00	6.70	10.00	28.00	18.00	11.70	28.00	11.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:00 AM	275.00	6.00	9.90	18.40	8.50	11.90	18.40	13.70	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:15 AM	279.00	5.30	9.60	16.20	6.60	15.40	16.20	14.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:30 AM	288.00	6.40	9.70	16.70	7.00	12.80	16.70	10.70	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:45 AM	288.00	4.30	14.40	7.10	0.00	10.90	7.10	10.40	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 12:00 PM	287.00	3.70	9.60	7.70	0.00	10.20	7.70	9.80	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 12:15 PM	286.00	3.10	8.40	3.10	0.00	10.00	3.10	8.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 12:30 PM	296.00	3.50	8.30	5.50	0.00	18.00	5.50	8.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 12:45 PM	292.00	4.40	10.10	6.70	0.00	9.10	6.70	9.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 1:00 PM	296.00	4.40	8.60	6.50	0.00	8.10	6.50	9.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 1:15 PM	290.00	3.40	6.90	5.10	0.00	7.60	5.10	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 1:30 PM	313.00	3.80	7.80	3.70	0.00	6.80	3.70	8.20	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 1:45 PM	300.00	5.00	9.70	5.30	0.00	6.80	5.30	9.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 2:00 PM	307.00	4.70	9.40	7.10	0.00	9.70	7.10	9.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 2:15 PM	316.00	4.00	8.00	7.60	0.00	8.30	7.60	9.90	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 2:30 PM	300.00	2.90	9.90	7.60	0.00	9.40	7.60	10.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 2:45 PM	297.00	2.90	11.10	7.80	0.00	11.40	7.80	11.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 3:00 PM	282.00	3.80	11.50	9.30	0.00	14.60	9.30	11.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 3:15 PM	319.00	4.20	13.00	12.30	0.00	11.20	12.30	11.50	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 3:30 PM	294.00	3.30	9.20	11.00	1.80	11.30	11.00	12.50	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 3:45 PM	292.00	4.90	9.20	9.50	0.30	14.60	9.50	12.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 4:00 PM	281.00	4.00	9.90	10.90	1.00	19.30	10.90	12.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 4:15 PM	263.00	3.60	14.20	18.90	4.70	18.90	12.70	14.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 4:30 PM	286.00	3.30	10.20	11.20	1.00	73.20	11.20	13.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 4:45 PM	285.00	4.50	10.50	12.80	2.30	15.80	12.80	12.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 5:00 PM	272.00	3.10	8.20	9.00	0.80	12.10	9.00	12.50	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 5:15 PM	269.00	3.10	12.00	13.40	1.40	13.40	10.20	12.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 5:30 PM	276.00	2.20	13.30	12.40	0.00	14.60	12.40	12.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 5:45 PM	273.00	3.00	11.80	12.10	0.30	14.40	12.10	11.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 6:00 PM	271.00	2.50	12.90	11.90	0.00	15.20	11.90	12.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 6:15 PM	265.00	2.10	11.80	12.30	0.50	12.30	11.20	11.80	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 6:30 PM	258.00	2.30	12.90	23.30	10.40	23.30	11.50	12.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 6:45 PM	265.00	2.50	13.10	13.50	0.40	13.50	14.00	13.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 7:00 PM	249.00	1.90	14.80	14.70	0.00	14.70	14.40	14.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 7:15 PM	262.00	2.20	14.00	15.90	1.90	15.90	14.60	14.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 7:30 PM	239.00	2.50	14.10	15.90	1.80	15.90	14.50	14.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 7:45 PM	255.00	2.60	15.80	14.30	0.00	14.30	15.10	15.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 8:00 PM	256.00	1.80	16.30	14.80	0.00	14.80	15.90	16.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 8:15 PM	245.00	2.50	17.40	15.30	0.00	15.30	18.00	17.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 8:30 PM	244.00	2.40	16.20	14.90	0.00	14.90	16.30	16.20	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 8:45 PM	251.00	2.10	16.90	15.00	0.00	15.00	17.10	16.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 9:00 PM	244.00	2.00	17.00	15.30	0.00	15.30	17.90	17.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 9:15 PM	254.00	2.40	18.50	17.60	0.00	17.60	19.90	18.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 9:30 PM	239.00	2.00	18.00	16.90	0.00	16.90	19.20	18.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 9:45 PM	252.00	2.10	18.00	17.40	0.00	17.40	20.20	18.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:00 PM	247.00	2.40	18.10	0.00	0.00	0.00	19.90	18.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:15 PM	233.00	1.50	18.00	17.30	0.00	17.30	20.20	18.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:30 PM	261.00	2.70	19.00	17.70	0.00	17.70	21.10	19.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 10:45 PM	231.00	1.80	19.10	17.70	0.00	17.70	21.20	19.10	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:00 PM	240.00	1.90	19.80	17.30	0.00	17.30	21.80	19.80	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:15 PM	229.00	1.80	20.30	17.60	0.00	17.60	21.90	20.30	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:30 PM	243.00	2.30	20.50	17.60	0.00	17.60	24.00	20.50	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/14 11:45 PM	234.00	2.10	19.80	17.90	0.00	19.70	23.50	19.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 12:00 AM	237.00	2.30	22.50	19.70	0.00	19.70	25.10	22.50	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 12:15 AM	233.00	2.10	23.90	20.90	0.00	20.90	28.60	23.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 12:30 AM	232.00	2.40	24.10	21.80	0.00	21.80	28.10	24.10	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 12:45 AM	229.00	1.90	25.10	22.80	0.00	22.80	28.30	25.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 1:00 AM	229.00	2.10	25.80	23.40	0.00	23.40	28.30	25.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 1:15 AM	228.00	2.50	26.50	24.70	0.00	24.70	29.30	26.50	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 1:30 AM	226.00	2.70	26.10	25.10	0.00	25.10	29.80	26.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 1:45 AM	225.00	2.40	27.50	25.00	0.00	25.00	30.50	27.50	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 2:00 AM	226.00	1.80	27.50	26.90	0.00	26.90	29.60	27.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 2:15 AM	235.00	2.10	29.10	28.40	0.00	28.40	31.70	29.10	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 2:30 AM	238.00	2.40	29.90	28.70	0.00	28.70	30.90	29.90	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/14 2:45 AM	239.00	2.50	29.80	27.90	0.00	27.90	30.40									





**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
October 2014

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		
10/31/14 12:30 PM	335.00	8.60	4.80	5.30	0.50	5.70	5.30	9.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 12:45 PM	338.00	10.80	4.70	8.00	3.30	6.70	8.00	9.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 1:00 PM	343.00	10.40	5.40	17.30	11.90	9.70	17.30	12.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 1:15 PM	352.00	16.00	5.20	9.60	4.40	6.90	9.60	11.70	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 1:30 PM	358.00	20.60	4.80	6.60	1.80	5.50	6.60	11.30	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 1:45 PM	356.00	19.00	3.20	5.60	2.40	5.30	5.60	11.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 2:00 PM	350.00	17.60	2.10	3.80	1.70	4.50	3.80	11.80	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 2:15 PM	356.00	15.90	1.60	4.50	2.90	4.00	4.50	11.70	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 2:30 PM	352.00	19.80	1.00	3.30	2.30	4.00	3.30	11.50	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 2:45 PM	353.00	21.00	0.80	3.70	2.90	4.80	3.70	11.10	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 3:00 PM	0.00	17.30	3.90	10.60	6.70	3.90	3.50	10.60	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 3:15 PM	357.00	21.60	1.10	4.00	2.90	3.90	4.00	10.40	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 3:30 PM	354.00	20.20	1.30	6.40	5.10	0.00	6.40	10.40	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 3:45 PM	2.00	19.60	2.20	10.40	8.20	2.20	4.90	10.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 4:00 PM	359.00	15.00	2.90	2.00	0.00	3.60	2.00	10.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 4:15 PM	359.00	17.90	2.90	1.10	0.00	3.30	1.10	10.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 4:30 PM	2.00	16.70	2.90	10.60	7.70	2.90	1.00	10.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 4:45 PM	6.00	16.00	3.70	11.00	7.30	3.70	0.70	11.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 5:00 PM	2.00	19.40	3.80	10.40	6.60	3.80	4.30	10.40	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 5:15 PM	0.00	17.60	3.30	10.10	6.80	3.30	0.80	10.10	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 5:30 PM	354.00	16.50	2.70	1.20	0.00	3.30	1.20	9.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 5:45 PM	8.00	18.60	0.00	10.10	0.00	0.00	3.40	10.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 6:00 PM	2.00	17.60	3.30	10.20	6.90	3.30	0.90	10.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 6:15 PM	5.00	18.90	5.50	10.10	4.60	5.50	0.90	10.10	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 6:30 PM	8.00	17.80	3.30	11.10	7.80	3.30	1.40	11.10	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 6:45 PM	6.00	17.00	4.00	9.80	5.80	4.00	0.70	9.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 7:00 PM	6.00	17.40	4.70	10.20	5.50	4.70	5.90	10.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 7:15 PM	9.00	18.90	10.80	10.20	0.00	10.80	7.20	10.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 7:30 PM	3.00	16.50	9.60	10.10	0.50	9.60	4.40	10.10	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 7:45 PM	3.00	13.40	10.10	10.40	0.30	10.10	2.50	10.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 8:00 PM	7.00	13.60	10.10	10.10	0.00	10.10	8.80	10.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 8:15 PM	10.00	14.50	10.10	9.70	0.00	10.10	8.80	9.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 8:30 PM	358.00	15.90	2.90	8.80	5.90	11.20	8.80	10.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 8:45 PM	3.00	16.40	3.60	9.80	6.20	3.60	8.80	9.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 9:00 PM	2.00	17.00	0.00	10.80	0.00	0.00	8.80	10.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 9:15 PM	19.00	15.50	7.50	9.70	2.20	7.50	8.80	9.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 9:30 PM	10.00	14.90	3.50	9.90	6.40	3.50	8.80	9.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 9:45 PM	23.00	12.90	4.90	9.80	4.90	4.90	8.80	9.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 10:00 PM	10.00	16.20	8.00	10.00	2.00	8.00	8.80	10.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 10:15 PM	7.00	16.60	6.50	9.60	3.10	6.50	8.80	9.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 10:30 PM	5.00	16.20	4.80	9.60	4.80	4.80	8.80	9.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 10:45 PM	16.00	13.10	2.50	12.90	10.40	2.50	8.80	12.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 11:00 PM	8.00	14.30	6.80	22.50	15.70	6.80	8.80	22.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 11:15 PM	12.00	15.00	6.60	10.00	3.40	6.60	8.80	10.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 11:30 PM	4.00	16.60	3.80	10.00	6.20	3.80	8.80	10.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10/31/14 11:45 PM	24.00	12.70	5.90	10.20	4.30	5.90	8.80	10.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		