







US Army Corps  
of Engineers®

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/3/15 2:30 AM	227.00	0.60	11.50	16.90	5.40	16.90	12.50	11.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 2:45 AM	179.00	1.30	12.00	14.30	2.30	16.80	12.00	11.60	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:00 AM	200.00	1.20	10.40	16.90	6.50	16.90	10.80	10.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:15 AM	242.00	1.30	11.80	14.60	2.80	14.60	12.00	11.80	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:30 AM	321.00	2.60	13.70	10.70	0.00	0.00	10.70	11.30	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:45 AM	275.00	2.30	15.80	12.90	0.00	15.20	12.90	11.60	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:00 AM	317.00	2.80	16.60	13.40	0.00	16.50	13.40	11.80	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:15 AM	301.00	2.00	19.60	13.60	0.00	20.10	13.60	14.50	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:30 AM	274.00	1.80	16.50	15.80	0.00	0.00	15.80	14.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:45 AM	297.00	2.20	14.00	13.30	0.00	15.90	13.30	12.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:00 AM	308.00	2.20	14.10	12.20	0.00	16.40	12.20	12.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:15 AM	285.00	1.70	12.50	11.70	0.00	16.10	11.70	11.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:30 AM	298.00	2.10	12.10	10.90	0.00	16.10	10.90	11.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:45 AM	321.00	2.80	12.00	11.40	0.00	14.10	11.40	11.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 6:00 AM	313.00	2.30	12.40	10.70	0.00	14.40	10.70	11.20	12.40	0.00	0.90	0.90	0.90	0.90	0.90	0.90
4/3/15 6:15 AM	344.00	5.80	13.20	11.40	0.00	15.10	11.40	10.90	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 6:30 AM	353.00	9.00	12.90	11.10	0.00	15.20	11.10	11.20	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 6:45 AM	349.00	8.30	12.90	12.10	0.00	15.60	12.10	11.20	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:00 AM	353.00	9.30	14.50	11.30	0.00	0.00	11.30	10.70	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:15 AM	351.00	8.90	13.60	12.00	0.00	15.70	12.00	10.80	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:30 AM	349.00	8.30	13.10	11.40	0.00	15.90	11.40	11.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:45 AM	350.00	5.90	13.20	11.20	0.00	16.30	11.20	11.10	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 8:00 AM	336.00	3.80	12.80	11.20	0.00	16.90	11.20	11.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 8:15 AM	0.00	7.40	18.10	10.90	0.00	18.10	11.80	10.90	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 8:30 AM	332.00	3.00	13.20	11.60	0.00	18.10	11.60	11.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 8:45 AM	14.00	9.80	18.10	11.50	0.00	18.10	12.00	11.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 9:00 AM	12.00	8.50	19.70	12.00	0.00	19.70	12.50	12.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 9:15 AM	6.00	9.10	19.70	11.90	0.00	19.70	12.90	11.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 9:30 AM	2.00	8.60	19.00	12.60	0.00	19.00	13.20	12.60	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 9:45 AM	29.00	5.70	20.50	12.40	0.00	20.50	14.50	12.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 10:00 AM	36.00	4.70	18.90	12.70	0.00	18.90	14.90	12.70	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 10:15 AM	43.00	5.90	0.00	13.20	0.00	0.00	14.30	13.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 10:30 AM	20.00	8.00	17.70	13.90	0.00	17.70	15.60	13.90	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 10:45 AM	0.00	7.00	18.50	12.80	0.00	18.50	15.60	12.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 11:00 AM	352.00	8.00	13.80	13.30	0.00	15.60	13.30	14.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 11:15 AM	0.00	9.30	15.60	13.30	0.00	15.60	15.60	13.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 11:30 AM	8.00	8.50	18.60	21.70	3.10	18.60	14.60	21.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 11:45 AM	21.00	8.40	17.60	14.30	0.00	17.60	16.60	14.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 12:00 PM	6.00	10.10	16.80	13.80	0.00	16.80	14.20	13.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 12:15 PM	5.00	9.60	16.90	15.00	0.00	16.90	15.30	15.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 12:30 PM	9.00	8.70	16.90	14.70	0.00	16.90	15.00	14.70	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 12:45 PM	7.00	8.40	16.90	14.80	0.00	16.90	16.90	14.80	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 1:00 PM	2.00	7.80	17.70	16.80	0.00	17.70	16.20	16.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 1:15 PM	5.00	9.20	18.80	15.40	0.00	18.80	16.00	15.40	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 1:30 PM	4.00	10.20	20.50	16.20	0.00	20.50	17.10	16.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 1:45 PM	15.00	11.30	22.80	16.50	0.00	22.80	18.60	16.50	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 2:00 PM	16.00	9.00	22.80	17.70	0.00	22.80	20.50	17.70	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 2:15 PM	25.00	8.80	24.70	17.80	0.00	24.70	19.50	17.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 2:30 PM	28.00	8.80	23.00	17.50	0.00	23.00	19.10	17.50	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 2:45 PM	33.00	8.20	31.10	20.60	0.00	31.10	20.10	20.60	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:00 PM	22.00	7.30	17.80	23.50	5.70	17.80	21.30	23.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:15 PM	22.00	9.50	13.20	20.90	7.70	13.20	15.10	20.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:30 PM	14.00	7.10	12.90	14.90	2.00	12.90	12.60	14.90	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 3:45 PM	19.00	8.80	16.90	20.10	3.20	16.90	10.80	20.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:00 PM	14.00	8.50	16.90	12.90	0.00	16.90	9.60	12.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:15 PM	18.00	9.30	18.80	12.80	0.00	18.80	11.80	12.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:30 PM	0.00	11.00	11.80	12.20	0.40	11.80	9.60	12.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 4:45 PM	358.00	9.80	7.10	9.00	1.90	9.00	9.00	15.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:00 PM	10.00	8.40	15.60	12.50	0.00	15.60	9.10	12.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:15 PM	7.00	9.60	11.00	12.10	1.10	11.00	9.80	12.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:30 PM	353.00	8.90	7.40	9.30	1.90	9.10	9.30	11.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 5:45 PM	357.00	9.30	7.20	9.50	2.30	9.10	9.50	11.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 6:00 PM	3.00	8.40	8.90	11.10	2.20	8.90	10.20	11.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 6:15 PM	7.00	10.40	8.90	10.70	1.80	8.90	8.70	10.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 6:30 PM	7.00	10.50	9.30	10.80	1.50	9.30	11.20	10.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 6:45 PM	5.00	9.00	0.00	10.90	0.00	0.00	9.90	10.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:00 PM	5.00	8.90	8.80	11.10	2.30	8.80	8.50	11.10	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:15 PM	357.00	10.40	7.30	9.20	1.90	8.90	9.20	10.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:30 PM	7.00	11.80	8.80	10.50	1.70	8.80	9.30	10.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/15 7:45 PM	352.00	9.10	8.20	9.40	1.20	8.70	9									





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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
4/5/15 5:00 AM	223.00	6.60	9.70	9.50	0.00	9.50	8.20	9.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 5:15 AM	217.00	4.50	9.40	9.40	0.00	9.40	8.10	9.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 5:30 AM	231.00	4.30	9.40	9.60	0.20	9.60	8.10	9.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 5:45 AM	228.00	4.00	9.30	9.80	0.50	9.80	7.80	9.30	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:00 AM	219.00	3.70	9.30	9.50	0.20	9.50	8.00	9.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:15 AM	222.00	5.70	9.50	9.70	0.20	9.70	8.40	9.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:30 AM	216.00	4.00	9.90	9.70	0.00	9.70	8.80	9.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:45 AM	212.00	4.20	10.00	9.80	0.00	9.80	8.90	10.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:00 AM	216.00	2.60	10.10	0.00	0.00	0.00	9.20	10.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:15 AM	209.00	4.00	10.30	0.00	0.00	0.00	9.30	10.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:30 AM	206.00	4.40	10.10	8.50	0.00	8.50	9.10	10.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:45 AM	203.00	4.90	9.80	8.50	0.00	8.50	8.90	9.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:00 AM	207.00	4.00	9.30	8.40	0.00	8.40	9.00	9.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:15 AM	211.00	5.30	9.20	8.20	0.00	8.20	8.20	9.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:30 AM	224.00	5.20	9.30	0.00	0.00	0.00	8.20	9.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:45 AM	209.00	4.70	8.80	8.60	0.00	8.60	8.20	8.80	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:00 AM	223.00	5.60	8.40	8.70	0.30	8.70	8.00	8.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:15 AM	210.00	6.30	8.50	9.10	0.60	9.10	7.80	8.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:30 AM	238.00	6.20	7.80	8.80	1.00	8.80	7.50	7.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:45 AM	237.00	6.40	7.30	8.70	1.40	8.70	6.90	7.30	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 10:00 AM	217.00	9.00	7.10	8.10	1.00	8.10	6.40	7.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 10:15 AM	244.00	6.80	6.80	7.90	1.10	7.90	6.20	6.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 10:30 AM	222.00	9.20	6.60	7.40	0.80	7.40	6.00	6.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 10:45 AM	240.00	6.90	6.10	0.00	0.00	0.00	5.80	6.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 11:00 AM	215.00	8.00	6.10	0.00	0.00	0.00	5.60	6.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 11:15 AM	226.00	10.00	5.90	7.30	1.40	7.30	5.70	5.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 11:30 AM	224.00	9.40	5.80	7.00	1.20	7.00	5.70	5.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 11:45 AM	227.00	8.10	5.70	0.00	0.00	0.00	5.30	5.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 12:00 PM	227.00	6.00	5.00	6.90	1.90	6.90	5.20	5.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 12:15 PM	226.00	6.80	5.00	7.50	2.50	7.50	5.20	5.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 12:30 PM	194.00	10.00	5.00	7.40	2.40	7.40	5.00	5.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 12:45 PM	232.00	9.00	5.00	8.00	3.00	8.00	5.00	5.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 1:00 PM	221.00	7.50	4.50	8.00	3.50	8.00	4.90	4.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 1:15 PM	221.00	6.40	4.40	8.40	4.00	8.40	4.80	4.40	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 1:30 PM	242.00	7.50	4.60	0.00	0.00	0.00	5.40	4.60	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 1:45 PM	205.00	9.30	4.50	0.00	0.00	0.00	5.70	4.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 2:00 PM	223.00	7.90	5.00	10.50	5.50	10.50	6.60	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 2:15 PM	217.00	8.90	5.50	11.50	6.00	11.50	7.80	5.50	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 2:30 PM	244.00	8.80	5.20	10.20	5.00	10.20	6.80	5.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 2:45 PM	218.00	5.80	5.20	10.50	5.30	10.50	6.80	5.20	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 3:00 PM	196.00	6.90	5.50	10.30	4.80	10.30	7.00	5.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 3:15 PM	246.00	7.70	5.90	11.20	5.30	11.20	7.10	5.90	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 3:30 PM	237.00	7.70	6.00	11.40	5.40	11.40	7.20	6.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 3:45 PM	239.00	7.10	6.10	11.30	5.20	11.30	7.50	6.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 4:00 PM	238.00	6.50	6.10	10.40	4.30	10.40	7.20	6.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 4:15 PM	203.00	7.10	5.90	10.80	4.90	10.80	7.30	5.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 4:30 PM	239.00	5.80	7.40	10.10	2.70	10.10	7.90	7.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 4:45 PM	207.00	6.50	6.20	10.90	4.70	10.90	8.00	6.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 5:00 PM	228.00	5.90	6.20	10.90	4.70	10.90	8.40	6.20	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 5:15 PM	211.00	6.50	7.60	10.90	3.30	10.90	9.20	7.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 5:30 PM	221.00	8.10	8.70	14.90	6.20	14.90	10.70	8.70	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 5:45 PM	223.00	6.30	8.90	15.20	6.30	15.20	10.90	8.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:00 PM	226.00	4.60	8.80	15.00	6.20	15.00	11.80	8.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:15 PM	234.00	4.40	9.30	14.50	5.20	14.50	11.90	9.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:30 PM	207.00	3.50	9.50	14.50	5.00	14.50	13.00	9.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 6:45 PM	199.00	4.40	9.60	13.10	3.50	13.10	12.80	9.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:00 PM	195.00	6.00	8.60	11.70	3.10	11.70	11.40	8.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:15 PM	195.00	4.30	8.00	10.90	2.90	10.90	9.70	8.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:30 PM	201.00	3.80	8.80	8.50	0.00	8.50	8.00	8.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 7:45 PM	187.00	3.70	8.50	8.90	0.40	8.90	7.90	8.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:00 PM	187.00	3.50	8.30	8.10	0.00	8.10	7.30	8.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:15 PM	186.00	3.00	8.10	0.00	0.00	0.00	6.80	8.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:30 PM	183.00	3.20	8.40	0.00	0.00	0.00	7.20	8.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 8:45 PM	186.00	3.40	8.90	0.00	0.00	0.00	7.00	8.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:00 PM	183.00	4.80	9.20	0.00	0.00	0.00	7.30	9.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:15 PM	184.00	4.30	8.80	7.80	0.00	7.80	8.50	8.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:30 PM	188.00	5.00	8.90	7.50	0.00	7.50	8.40	8.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 9:45 PM	194.00	3.50	9.50	7.50	0.00	7.50	8.90	9.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 10:00 PM	186.00	5.10	10.80	8.40	0.00	8.40	9.10	10.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 10:15 PM	197.00	5.00	10.50	7.90	0.00	7.90	8.40	10.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/15 10:30 PM	201.00	4.40	9.40	7.10	0.00	7.10	8.50	9.40	6.20	0.00	0.00	0.00	0.00			



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/6/15 6:15 AM	201.00	3.40	8.60	6.30	0.00	6.30	7.30	8.60	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 6:30 AM	191.00	3.60	8.60	6.40	0.00	6.40	7.30	8.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 6:45 AM	198.00	2.90	8.50	6.30	0.00	6.30	7.60	8.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:00 AM	193.00	2.50	8.50	6.50	0.00	6.50	7.50	8.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:15 AM	187.00	3.70	8.90	6.80	0.00	6.80	7.20	8.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:30 AM	201.00	3.60	9.20	6.80	0.00	6.80	7.50	9.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:45 AM	204.00	4.10	9.00	7.20	0.00	7.20	7.80	9.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:00 AM	193.00	3.40	8.90	7.20	0.00	7.20	7.70	8.90	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:15 AM	214.00	3.90	10.00	7.80	0.00	7.80	8.10	10.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:30 AM	207.00	4.80	9.80	8.30	0.00	8.30	10.00	9.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:45 AM	195.00	4.90	9.60	8.20	0.00	8.20	9.70	9.60	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:00 AM	194.00	5.40	9.80	0.00	0.00	0.00	11.00	9.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:15 AM	204.00	4.80	9.70	0.00	0.00	0.00	9.60	9.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:30 AM	196.00	5.00	9.40	0.00	0.00	0.00	9.50	9.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:45 AM	223.00	4.00	9.90	8.80	0.00	8.80	9.70	9.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 10:00 AM	206.00	3.30	9.90	9.50	0.00	9.50	9.70	9.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 10:15 AM	184.00	4.90	10.40	10.00	0.00	10.00	9.80	10.40	5.70	0.00	1.30	1.30	1.30	0.00	0.00	0.00
4/6/15 10:30 AM	215.00	3.40	10.10	10.60	0.50	10.60	10.20	10.10	5.20	0.00	1.20	1.20	1.20	0.00	0.00	0.00
4/6/15 10:45 AM	210.00	3.60	11.00	10.60	0.00	10.60	10.80	11.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 11:00 AM	220.00	3.20	11.20	14.00	2.80	14.00	10.50	11.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 11:15 AM	225.00	3.60	11.00	10.90	0.00	10.90	11.20	11.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 11:30 AM	240.00	2.60	12.00	15.00	3.00	15.00	12.50	12.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 11:45 AM	247.00	3.10	10.70	11.20	0.50	11.20	11.50	10.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 12:00 PM	302.00	0.90	6.30	10.30	4.00	0.00	10.30	10.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 12:15 PM	218.00	0.50	10.30	10.30	0.00	0.00	10.20	10.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 12:30 PM	237.00	1.70	10.50	11.70	1.20	11.70	12.30	10.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 12:45 PM	41.00	1.00	12.10	12.50	0.40	12.10	15.70	12.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 1:00 PM	106.00	3.10	14.60	7.70	0.00	0.00	14.60	12.90	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 1:15 PM	320.00	2.10	8.80	13.90	5.10	14.80	13.90	11.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 1:30 PM	122.00	2.80	12.50	10.70	0.00	13.60	12.50	11.20	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 1:45 PM	316.00	0.70	8.00	14.40	6.40	14.80	14.40	11.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 2:00 PM	107.00	2.60	16.30	7.90	0.00	19.00	16.30	11.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 2:15 PM	65.00	3.80	17.30	12.50	0.00	17.30	14.60	12.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 2:30 PM	103.00	3.30	14.60	10.60	0.00	16.30	14.60	15.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 2:45 PM	114.00	3.20	14.00	10.20	0.00	16.30	14.00	11.90	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 3:00 PM	28.00	3.70	26.60	11.40	0.00	26.60	28.10	11.40	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 3:15 PM	38.00	4.80	23.60	16.10	0.00	23.60	21.30	16.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 3:30 PM	23.00	5.70	31.20	17.30	0.00	31.20	22.20	17.30	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 3:45 PM	31.00	4.60	30.70	18.70	0.00	30.70	21.90	18.70	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 4:00 PM	30.00	5.90	26.30	24.60	0.00	26.30	30.50	24.60	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 4:15 PM	38.00	4.40	38.50	30.60	0.00	38.50	35.30	30.60	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 4:30 PM	25.00	3.50	38.50	27.30	0.00	38.50	41.30	27.30	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 4:45 PM	1.00	4.90	28.30	28.70	0.40	28.30	33.30	28.70	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 5:00 PM	27.00	4.90	28.40	29.30	0.90	28.40	32.10	29.30	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 5:15 PM	33.00	5.50	25.90	33.70	7.80	25.90	30.00	33.70	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 5:30 PM	33.00	4.90	30.10	34.00	3.90	30.10	39.70	34.00	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 5:45 PM	18.00	4.50	31.80	31.40	0.00	31.80	39.20	31.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 6:00 PM	4.00	3.60	30.30	28.30	0.00	30.30	30.80	28.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 6:15 PM	31.00	4.60	26.50	32.90	6.40	26.50	32.30	32.90	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 6:30 PM	37.00	4.20	26.20	35.40	9.20	26.20	37.30	35.40	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 6:45 PM	19.00	5.50	24.30	34.00	9.70	24.30	37.70	34.00	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:00 PM	25.00	4.50	26.20	38.70	12.50	26.20	31.90	38.70	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:15 PM	25.00	4.80	27.10	27.40	0.30	27.10	31.10	27.40	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:30 PM	31.00	5.00	27.10	30.70	3.60	27.10	31.80	30.70	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 7:45 PM	12.00	3.90	22.90	31.80	8.90	22.90	34.40	31.80	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:00 PM	15.00	6.10	22.60	37.80	15.20	22.60	34.80	37.80	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:15 PM	4.00	8.20	21.70	32.90	11.20	21.70	36.10	32.90	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:30 PM	8.00	9.80	25.20	32.70	7.50	25.20	35.00	32.70	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 8:45 PM	16.00	7.70	21.30	36.50	15.20	21.30	39.70	36.50	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:00 PM	9.00	7.80	26.60	36.50	9.90	26.60	33.50	36.50	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:15 PM	37.00	5.80	20.40	32.40	12.00	20.40	33.30	32.40	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:30 PM	20.00	7.90	28.40	42.70	14.30	28.40	47.30	42.70	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 9:45 PM	38.00	5.50	33.00	44.20	11.20	33.00	53.60	44.20	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 10:00 PM	65.00	7.20	31.20	52.10	20.90	31.20	47.70	52.10	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 10:15 PM	121.00	3.50	43.60	28.60	0.00	31.20	43.60	45.80	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 10:30 PM	15.00	2.80	33.50	45.00	11.50	33.50	46.10	45.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 10:45 PM	339.00	3.50	25.30	41.20	15.90	25.50	41.20	45.90	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 11:00 PM	13.00	4.20	25.60	41.00	15.40	25.60	44.90	41.00	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 11:15 PM	33.00	5.30	38.30	50.60	12.30	38.30	45.90	50.60	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/15 11:30 PM	355.00	5.60	24.40	43.20	18.80	26.40	43.20	35.90								



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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		
			4/7/15 7:30 AM	20.00	6.00	20.80	32.00	11.20	20.80	33.50	32.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00
4/7/15 7:45 AM	16.00	7.40	17.10	36.20	19.10	17.10	30.60	36.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:00 AM	7.00	5.10	16.70	34.80	18.10	16.70	31.00	34.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:15 AM	4.00	6.50	16.90	34.00	17.10	16.90	32.30	34.00	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:30 AM	358.00	6.10	15.20	30.30	15.10	16.80	30.30	34.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:45 AM	354.00	5.30	14.70	28.50	13.80	16.00	28.50	35.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:00 AM	20.00	7.80	17.90	35.90	18.00	17.90	23.70	35.90	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:15 AM	17.00	6.20	15.00	25.50	10.50	15.00	24.80	25.50	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:30 AM	8.00	7.10	13.80	20.90	7.10	13.80	28.20	20.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:45 AM	11.00	6.90	14.50	21.10	6.60	14.50	28.70	21.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:00 AM	19.00	6.50	15.20	21.70	6.50	15.20	27.00	21.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:15 AM	6.00	6.80	21.00	23.70	2.70	21.00	22.90	23.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:30 AM	1.00	8.70	19.00	31.50	12.50	19.00	23.70	31.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:45 AM	1.00	6.80	18.00	33.70	15.70	18.00	26.30	33.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:00 AM	5.00	9.70	18.00	28.90	10.90	18.00	26.30	28.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:15 AM	2.00	9.30	19.70	26.90	7.20	19.70	26.10	26.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:30 AM	6.00	6.90	15.90	24.40	8.50	15.90	28.00	24.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:45 AM	8.00	6.70	14.90	20.60	5.70	14.90	30.80	20.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 12:00 PM	17.00	6.50	13.90	20.30	6.40	13.90	26.70	20.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 12:15 PM	17.00	4.90	14.50	21.00	6.50	14.50	26.30	21.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 12:30 PM	34.00	7.40	18.60	25.20	6.60	18.60	26.70	25.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 12:45 PM	42.00	5.50	17.20	28.10	10.90	17.20	28.90	28.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 1:00 PM	47.00	5.80	17.70	24.40	6.70	17.70	23.20	24.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 1:15 PM	35.00	6.70	12.20	22.90	10.70	12.20	17.20	22.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 1:30 PM	29.00	7.20	12.20	23.10	10.90	12.20	17.00	23.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 1:45 PM	29.00	5.50	12.50	21.70	9.20	12.50	21.10	21.70	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 2:00 PM	24.00	7.20	12.90	25.50	12.60	12.90	29.00	25.50	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 2:15 PM	39.00	4.10	14.80	26.70	11.90	14.80	30.00	26.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 2:30 PM	24.00	5.30	15.80	28.40	12.60	15.80	30.30	28.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 2:45 PM	25.00	7.40	15.80	35.60	19.80	15.80	34.50	35.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 3:00 PM	28.00	7.30	15.40	32.10	16.70	15.40	28.60	32.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 3:15 PM	37.00	5.30	14.60	28.80	14.20	14.60	26.90	28.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 3:30 PM	43.00	5.10	15.40	28.50	13.10	15.40	29.40	28.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 3:45 PM	44.00	5.50	15.70	28.20	12.50	15.70	27.10	28.20	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 4:00 PM	26.00	5.20	15.60	26.80	11.20	15.60	26.90	26.80	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 4:15 PM	25.00	5.90	16.40	26.90	10.50	16.40	28.00	26.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 4:30 PM	41.00	4.40	16.30	27.40	11.10	16.30	28.20	27.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 4:45 PM	37.00	5.10	17.20	30.30	13.10	17.20	38.50	30.30	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 5:00 PM	31.00	4.70	16.50	31.20	14.70	16.50	32.60	31.20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 5:15 PM	40.00	3.10	16.70	31.80	15.10	16.70	32.70	31.80	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 5:30 PM	59.00	5.70	15.60	30.50	14.90	15.60	30.90	30.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 5:45 PM	57.00	4.40	16.00	32.70	16.70	16.00	39.80	32.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 6:00 PM	67.00	3.50	17.60	33.80	16.20	17.60	48.10	33.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 6:15 PM	78.00	4.20	18.60	34.70	16.10	18.60	42.30	34.70	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 6:30 PM	83.00	4.90	21.60	41.90	20.30	21.60	33.00	41.90	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 6:45 PM	83.00	4.20	26.10	47.10	21.00	26.10	36.20	47.10	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 7:00 PM	78.00	4.80	30.30	38.10	7.80	30.30	33.20	38.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 7:15 PM	77.00	4.70	18.90	36.70	17.80	18.90	37.90	36.70	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 7:30 PM	81.00	4.70	16.00	35.40	19.40	16.00	36.20	35.40	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 7:45 PM	72.00	4.70	16.00	38.10	22.10	16.00	35.50	38.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:00 PM	72.00	4.70	16.80	39.30	22.50	16.80	35.90	39.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:15 PM	83.00	4.60	18.40	42.30	23.90	18.40	57.90	42.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:30 PM	89.00	4.10	19.50	48.30	28.80	19.50	47.60	48.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 8:45 PM	83.00	5.30	19.50	47.00	27.50	19.50	47.70	47.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:00 PM	83.00	5.00	19.20	43.50	24.30	19.20	36.60	43.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:15 PM	80.00	4.50	21.30	45.60	24.30	21.30	46.50	45.60	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:30 PM	81.00	3.00	20.00	46.10	26.10	20.00	49.40	46.10	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 9:45 PM	85.00	4.60	18.50	45.10	26.60	18.50	47.30	45.10	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:00 PM	104.00	4.30	44.50	11.00	0.00	16.80	44.50	42.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:15 PM	121.00	5.60	36.70	11.20	0.00	16.60	36.70	36.20	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:30 PM	124.00	6.90	39.80	11.80	0.00	17.00	39.80	34.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 10:45 PM	121.00	5.30	34.70	12.00	0.00	17.70	34.70	36.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:00 PM	124.00	4.70	41.00	12.20	0.00	17.50	41.00	38.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:15 PM	129.00	5.90	34.80	12.90	0.00	19.20	34.80	34.10	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:30 PM	129.00	5.40	25.90	11.80	0.00	16.90	25.90	28.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/7/15 11:45 PM	134.00	6.00																











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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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		
4/11/15 12:30 PM	253.00	5.30	6.10	7.40	1.30	7.40	7.20	6.10	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 12:45 PM	254.00	3.40	6.40	0.00	0.00	0.00	7.40	6.40	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 1:00 PM	256.00	4.60	6.90	8.80	1.90	8.80	8.40	6.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 1:15 PM	250.00	3.70	5.90	7.70	1.80	7.70	7.60	5.90	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 1:30 PM	242.00	2.10	6.00	8.10	2.10	8.10	7.60	6.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 1:45 PM	207.00	3.80	5.70	8.50	2.80	8.50	7.20	5.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 2:00 PM	248.00	5.70	5.80	8.20	2.40	8.20	7.10	5.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 2:15 PM	235.00	2.90	5.80	9.90	4.10	9.90	7.10	5.80	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 2:30 PM	283.00	2.50	8.50	6.30	0.00	10.40	6.30	5.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 2:45 PM	256.00	5.90	5.80	10.40	4.60	10.40	6.60	5.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 3:00 PM	250.00	6.40	5.80	10.80	5.00	10.80	6.40	5.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 3:15 PM	251.00	2.50	5.90	10.40	4.50	10.40	6.20	5.90	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 3:30 PM	262.00	5.30	5.70	10.40	4.70	10.40	5.70	5.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 3:45 PM	217.00	4.50	5.40	9.20	3.80	9.20	5.10	5.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 4:00 PM	244.00	4.10	5.50	9.10	3.60	9.10	5.40	5.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 4:15 PM	198.00	4.70	5.30	8.60	3.30	8.60	5.10	5.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 4:30 PM	234.00	3.40	5.00	8.40	3.40	8.40	5.00	5.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 4:45 PM	212.00	3.50	4.90	8.00	3.10	8.00	4.80	4.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 5:00 PM	211.00	3.90	5.00	8.00	3.00	8.00	4.70	5.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 5:15 PM	253.00	4.30	4.70	7.70	3.00	7.70	4.50	4.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 5:30 PM	242.00	2.00	4.80	7.60	2.80	7.60	4.30	4.80	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 5:45 PM	260.00	4.60	4.80	8.20	3.40	8.20	4.10	4.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 6:00 PM	247.00	2.90	4.90	7.90	3.00	7.90	4.20	4.90	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 6:15 PM	234.00	3.60	4.80	8.20	3.40	8.20	4.20	4.80	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 6:30 PM	203.00	2.80	4.80	8.50	3.70	8.50	4.30	4.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 6:45 PM	232.00	2.20	4.40	8.50	4.10	8.50	4.60	4.40	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 7:00 PM	226.00	2.90	4.60	8.30	3.70	8.30	4.40	4.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 7:15 PM	229.00	2.40	4.90	8.10	3.20	8.10	4.50	4.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 7:30 PM	210.00	1.70	5.00	8.00	3.00	8.00	4.50	5.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 7:45 PM	117.00	1.50	4.70	6.80	2.10	7.40	4.70	6.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 8:00 PM	124.00	1.40	5.00	7.00	2.00	7.40	5.00	6.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 8:15 PM	128.00	1.40	5.50	7.50	2.00	7.00	5.50	6.80	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 8:30 PM	144.00	1.70	6.10	7.50	1.40	7.00	6.10	7.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 8:45 PM	165.00	2.30	6.50	7.90	1.40	0.00	6.50	7.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 9:00 PM	178.00	2.40	12.80	7.90	0.00	11.20	12.80	10.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 9:15 PM	189.00	2.40	10.40	10.80	0.40	10.80	13.30	10.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 9:30 PM	185.00	3.20	11.20	11.20	0.00	11.20	15.80	11.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 9:45 PM	181.00	3.30	13.60	11.80	0.00	11.80	18.40	13.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 10:00 PM	185.00	3.20	12.30	0.00	0.00	0.00	18.80	12.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 10:15 PM	184.00	3.50	12.40	0.00	0.00	0.00	18.90	12.40	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 10:30 PM	185.00	4.30	12.10	10.40	0.00	10.40	15.00	12.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 10:45 PM	188.00	3.40	12.70	10.60	0.00	10.60	14.70	12.70	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 11:00 PM	175.00	3.30	14.30	9.80	0.00	0.00	14.30	12.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 11:15 PM	183.00	3.70	13.30	11.90	0.00	11.90	17.20	13.30	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 11:30 PM	184.00	3.90	13.20	12.20	0.00	12.20	17.50	13.20	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/11/15 11:45 PM	185.00	4.00	13.50	11.10	0.00	11.10	15.10	13.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 12:00 AM	189.00	3.70	13.60	10.40	0.00	10.40	13.80	13.60	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 12:15 AM	187.00	3.30	13.60	10.30	0.00	10.30	14.00	13.60	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 12:30 AM	175.00	2.90	14.00	13.00	0.00	10.30	14.00	13.50	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 12:45 AM	182.00	3.00	13.50	10.80	0.00	10.80	14.20	13.50	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 1:00 AM	184.00	2.90	13.50	10.70	0.00	10.70	14.10	13.50	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 1:15 AM	181.00	4.10	13.60	11.70	0.00	11.70	14.30	13.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 1:30 AM	177.00	3.70	14.20	13.00	0.00	11.50	14.20	13.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 1:45 AM	174.00	3.60	12.40	14.00	1.60	10.80	12.40	13.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 2:00 AM	179.00	3.60	14.40	15.20	0.80	12.00	14.40	15.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 2:15 AM	180.00	3.00	15.30	12.30	0.00	12.30	14.80	15.30	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 2:30 AM	184.00	3.30	14.80	12.60	0.00	12.60	14.50	14.80	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 2:45 AM	189.00	3.70	14.90	0.00	0.00	0.00	15.60	14.90	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 3:00 AM	187.00	3.30	15.30	12.60	0.00	12.60	15.20	15.30	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 3:15 AM	181.00	2.90	15.40	12.80	0.00	12.80	15.20	15.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 3:30 AM	179.00	2.00	15.90	12.80	0.00	12.80	15.90	15.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 3:45 AM	178.00	2.30	17.20	12.80	0.00	13.00	17.20	15.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 4:00 AM	167.00	2.30	17.50	13.30	0.00	13.50	17.50	17.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 4:15 AM	160.00	2.40	17.60	16.10	0.00	13.40	17.60	18.80	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 4:30 AM	161.00	2.30	17.20	15.90	0.00	0.00	17.20	19.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 4:45 AM	161.00	2.70	15.70	14.30	0.00	13.20	15.70	17.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 5:00 AM	154.00	2.40	15.70	13.80	0.00	13.40	15.70	16.70	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 5:15 AM	151.00	2.10	16.20	13.60	0.00	13.60	16.20	17.00	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 5:30 AM	168.00	2.50	18.00	13.70	0.00	14.60	18.00	16.40	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/12/15 5:45 AM	157.00	2.70	18.70	14.30	0.00	15.00	18.70	17.10	14									





**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/13/15 3:00 PM	315.00	5.20	9.00	5.20	0.00	8.70	5.20	3.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 3:15 PM	298.00	4.70	9.10	4.60	0.00	8.40	4.60	3.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 3:30 PM	315.00	7.60	9.10	4.40	0.00	8.70	4.40	3.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 3:45 PM	302.00	4.30	9.70	4.40	0.00	8.90	4.40	2.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 4:00 PM	317.00	6.60	8.80	3.90	0.00	8.50	3.90	2.90	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 4:15 PM	314.00	7.20	8.50	3.50	0.00	8.80	3.50	2.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 4:30 PM	286.00	4.90	8.70	3.60	0.00	9.60	3.60	2.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 4:45 PM	297.00	7.60	8.80	3.70	0.00	0.00	3.70	3.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 5:00 PM	317.00	6.30	8.90	4.20	0.00	10.00	4.20	3.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 5:15 PM	295.00	5.60	9.70	4.40	0.00	10.80	4.40	3.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 5:30 PM	319.00	4.70	10.30	4.80	0.00	10.00	4.80	3.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 5:45 PM	284.00	5.00	11.10	4.80	0.00	9.50	4.80	3.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 6:00 PM	301.00	5.90	9.80	4.70	0.00	11.40	4.70	3.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 6:15 PM	299.00	5.70	9.30	4.70	0.00	8.30	4.70	3.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 6:30 PM	303.00	2.80	9.20	4.00	0.00	8.60	4.00	3.10	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 6:45 PM	277.00	3.70	9.20	4.10	0.00	8.60	4.10	3.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 7:00 PM	300.00	4.50	9.00	4.20	0.00	8.10	4.20	3.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 7:15 PM	286.00	3.70	9.80	4.50	0.00	8.60	4.50	3.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 7:30 PM	297.00	3.80	10.10	4.70	0.00	8.30	4.70	3.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 7:45 PM	299.00	2.90	9.90	5.40	0.00	0.00	5.40	3.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 8:00 PM	281.00	2.50	9.80	5.70	0.00	7.60	5.70	3.30	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 8:15 PM	277.00	2.50	9.20	6.00	0.00	7.70	6.00	3.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 8:30 PM	270.00	2.00	9.60	6.30	0.00	7.90	6.30	3.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 8:45 PM	249.00	1.60	4.00	8.50	4.50	8.50	6.90	4.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 9:00 PM	252.00	1.90	4.50	9.80	5.30	9.80	6.90	4.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 9:15 PM	286.00	2.00	10.40	7.30	0.00	8.70	7.30	4.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 9:30 PM	278.00	2.40	11.70	7.00	0.00	9.20	7.00	5.60	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 9:45 PM	284.00	2.10	11.80	8.10	0.00	9.10	8.10	5.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 10:00 PM	289.00	2.40	12.10	8.50	0.00	0.00	8.50	5.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 10:15 PM	301.00	1.90	12.30	8.80	0.00	0.00	8.80	6.00	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 10:30 PM	304.00	2.40	13.80	9.80	0.00	9.50	9.80	6.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 10:45 PM	315.00	2.70	12.20	9.70	0.00	0.00	9.70	6.60	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 11:00 PM	318.00	2.80	11.80	10.00	0.00	0.00	10.00	6.70	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 11:15 PM	318.00	3.10	11.20	10.50	0.00	0.00	10.50	7.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 11:30 PM	323.00	3.00	12.40	8.90	0.00	8.90	8.90	7.40	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/15 11:45 PM	321.00	3.10	12.30	9.70	0.00	9.50	9.70	7.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 12:00 AM	320.00	3.20	11.30	10.20	0.00	0.00	10.20	9.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 12:15 AM	325.00	3.40	10.40	9.20	0.00	10.10	9.20	8.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 12:30 AM	326.00	3.70	10.20	8.30	0.00	10.80	8.30	7.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 12:45 AM	335.00	3.60	9.90	8.00	0.00	10.80	8.00	7.10	9.90	0.00	0.00	0.00	0.80	0.00	0.00	0.00
4/14/15 1:00 AM	349.00	4.90	9.70	8.40	0.00	11.80	8.40	7.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 1:15 AM	349.00	5.80	9.80	8.90	0.00	13.00	8.90	7.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 1:30 AM	350.00	6.00	11.00	11.00	0.00	13.10	11.00	7.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 1:45 AM	350.00	5.80	9.20	10.30	1.10	12.70	10.30	7.40	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 2:00 AM	342.00	3.70	8.40	8.60	0.20	12.70	8.60	7.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 2:15 AM	343.00	4.40	7.90	8.00	0.10	11.90	8.00	6.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 2:30 AM	349.00	5.00	7.40	8.00	0.60	11.50	8.00	6.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 2:45 AM	357.00	3.90	7.50	8.30	0.80	12.20	8.30	6.70	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 3:00 AM	356.00	4.10	7.60	8.10	0.50	9.20	8.10	6.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 3:15 AM	352.00	3.60	7.40	8.70	1.30	8.40	8.70	6.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 3:30 AM	17.00	5.30	7.60	7.00	0.00	7.60	8.70	7.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 3:45 AM	40.00	5.00	0.00	7.00	0.00	0.00	8.40	7.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 4:00 AM	30.00	3.80	7.80	6.60	0.00	7.80	7.40	6.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 4:15 AM	31.00	3.70	9.20	6.80	0.00	9.20	8.10	6.80	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 4:30 AM	351.00	1.60	7.20	6.80	0.00	0.00	6.80	6.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 4:45 AM	353.00	2.60	9.80	7.20	0.00	8.40	7.20	27.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 5:00 AM	0.00	2.50	8.10	7.00	0.00	8.10	7.50	7.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 5:15 AM	0.00	1.90	8.70	7.20	0.00	8.70	15.10	7.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 5:30 AM	167.00	0.50	7.30	6.30	0.00	9.80	7.30	6.90	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 5:45 AM	312.00	0.90	6.10	7.40	1.30	10.50	7.40	6.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 6:00 AM	162.00	0.30	8.60	6.60	0.00	12.40	8.60	6.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 6:15 AM	124.00	0.30	8.30	6.50	0.00	12.40	8.30	6.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 6:30 AM	50.00	0.40	0.00	6.80	0.00	0.00	9.50	6.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 6:45 AM	318.00	0.90	6.50	8.50	2.00	10.20	8.50	6.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 7:00 AM	355.00	0.70	6.40	9.50	3.10	10.20	9.50	6.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 7:15 AM	176.00	0.40	10.70	7.10	0.00	11.40	10.70	7.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 7:30 AM	215.00	1.10	7.10	12.80	5.70	12.80	19.20	7.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 7:45 AM	175.00	1.00	14.50	8.10	0.00	14.60	14.50	7.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 8:00 AM	127.00	0.50	16.90	8.60	0.00	14.60	16.90	7.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 8:15 AM	160.00	0.30	42.50	8.70	0.00	10.60	42.50	8.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/15 8:30 AM	220.00	0.20	8.80	22.10	13.											



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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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		
4/14/15 4:15 PM	350.00	2.90	25.20	29.70	4.50	36.10	29.70	37.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 4:30 PM	345.00	3.70	23.60	27.50	3.90	29.60	27.50	32.00	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 4:45 PM	354.00	4.00	25.90	31.40	5.50	29.70	31.40	33.60	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 5:00 PM	355.00	3.30	25.80	28.30	2.50	28.30	28.30	35.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 5:15 PM	4.00	3.10	36.70	30.50	0.00	36.70	33.70	30.50	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 5:30 PM	27.00	3.30	29.60	28.20	0.00	29.60	38.10	28.20	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 5:45 PM	31.00	3.50	28.70	31.00	2.30	28.70	38.20	31.00	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 6:00 PM	32.00	4.50	25.30	27.50	2.20	25.30	34.70	27.50	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 6:15 PM	41.00	4.90	27.50	26.80	0.00	27.50	30.00	26.80	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 6:30 PM	53.00	4.20	23.20	25.10	1.90	23.20	24.90	25.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 6:45 PM	78.00	3.20	23.00	23.70	0.70	23.00	19.20	23.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 7:00 PM	67.00	3.30	20.60	24.10	3.50	20.60	20.90	24.10	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 7:15 PM	57.00	2.80	21.90	22.60	0.70	21.90	22.90	22.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 7:30 PM	56.00	2.70	25.80	25.10	0.00	25.80	26.50	25.10	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 7:45 PM	100.00	1.40	61.90	18.40	0.00	35.30	61.90	36.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 8:00 PM	196.00	0.40	51.40	66.10	14.70	66.10	82.80	51.40	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 8:15 PM	75.00	1.80	34.00	36.30	2.30	34.00	53.00	36.30	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 8:30 PM	180.00	1.80	38.50	52.00	13.50	52.00	52.90	38.50	43.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 8:45 PM	87.00	1.40	54.90	39.70	0.00	54.90	52.20	39.70	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 9:00 PM	107.00	1.60	65.20	35.10	0.00	49.80	65.20	35.00	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 9:15 PM	80.00	4.00	67.20	40.10	0.00	67.20	74.90	40.10	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 9:30 PM	69.00	3.60	61.20	39.50	0.00	61.20	55.40	39.50	57.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 9:45 PM	80.00	3.70	60.40	33.20	0.00	60.40	44.00	33.20	38.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 10:00 PM	78.00	2.90	45.50	33.20	0.00	45.50	67.40	33.20	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 10:15 PM	73.00	3.30	40.00	68.30	28.30	40.00	79.30	68.30	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 10:30 PM	44.00	3.40	32.80	46.90	14.10	32.80	79.30	46.90	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 10:45 PM	53.00	3.60	33.10	45.80	12.70	33.10	45.80	45.80	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 11:00 PM	69.00	3.60	35.50	46.20	10.70	35.50	45.80	46.20	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 11:15 PM	72.00	3.00	35.50	53.30	17.80	35.50	50.00	53.30	31.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 11:30 PM	77.00	3.80	34.80	47.10	12.30	34.80	42.00	47.10	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/14/15 11:45 PM	63.00	3.50	43.90	44.80	0.90	43.90	43.30	44.80	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 12:00 AM	77.00	3.40	38.20	52.10	13.90	38.20	46.90	52.10	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 12:15 AM	64.00	2.90	36.50	41.10	4.60	36.50	41.70	41.10	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 12:30 AM	40.00	3.10	39.90	44.90	5.00	39.90	41.00	44.90	35.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 12:45 AM	58.00	2.50	33.30	42.40	9.10	33.30	35.60	42.40	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 1:00 AM	52.00	2.90	36.00	37.20	1.20	36.00	34.60	37.20	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 1:15 AM	37.00	3.10	34.00	40.00	6.00	34.00	42.60	40.00	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 1:30 AM	45.00	2.60	41.60	35.90	0.00	41.60	35.00	35.90	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 1:45 AM	42.00	2.50	49.50	41.60	0.00	49.50	45.90	41.60	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 2:00 AM	35.00	2.40	45.20	87.10	41.90	45.20	103.40	87.10	61.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 2:15 AM	43.00	2.20	45.20	65.20	20.00	45.20	88.50	65.20	68.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 2:30 AM	310.00	0.50	35.00	57.50	22.50	36.40	57.50	53.60	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 2:45 AM	63.00	1.30	32.10	52.20	20.10	32.10	56.90	52.20	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 3:00 AM	38.00	1.50	40.80	53.30	12.50	40.80	54.50	53.30	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 3:15 AM	52.00	2.20	37.70	54.80	17.10	37.70	57.90	54.80	44.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 3:30 AM	44.00	1.50	37.70	48.80	11.10	37.70	55.60	48.80	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 3:45 AM	29.00	2.80	43.80	49.00	5.20	43.80	59.10	49.00	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 4:00 AM	36.00	2.60	40.00	38.50	0.00	40.00	51.60	38.50	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 4:15 AM	27.00	4.00	40.00	52.60	12.60	40.00	56.60	52.60	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 4:30 AM	42.00	3.70	38.30	52.00	13.70	38.30	39.80	52.00	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 4:45 AM	37.00	3.30	38.30	51.40	13.10	38.30	51.00	51.40	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 5:00 AM	39.00	3.10	37.30	45.40	8.10	37.30	49.60	45.40	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 5:15 AM	37.00	1.80	34.80	44.70	9.90	34.80	41.10	44.70	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 5:30 AM	63.00	1.50	31.40	42.40	11.00	31.40	29.20	42.40	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 5:45 AM	76.00	3.30	35.40	41.80	6.40	35.40	35.40	41.80	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 6:00 AM	62.00	3.30	46.60	44.00	0.00	46.60	41.30	44.00	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 6:15 AM	61.00	3.50	46.60	45.40	0.00	46.60	43.80	45.40	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 6:30 AM	53.00	3.80	38.30	52.10	13.80	38.30	44.70	52.10	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 6:45 AM	60.00	4.00	45.80	59.30	13.50	45.80	56.40	59.30	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 7:00 AM	57.00	5.20	33.90	45.20	11.30	33.90	47.40	45.20	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 7:15 AM	81.00	4.70	31.90	52.60	20.70	31.90	39.20	52.60	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 7:30 AM	72.00	4.80	36.60	40.40	3.80	36.60	45.90	40.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 7:45 AM	69.00	4.50	36.60	43.70	7.10	36.60	56.70	43.70	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 8:00 AM	98.00	1.90	57.70	33.40	0.00	0.00	57.70	47.90	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 8:15 AM	94.00	2.10	54.10	54.30	0.20	92.80	54.10	48.80	54.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 8:30 AM	83.00	2.40	47.10	42.00	0.00	47.10	54.10	42.00	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 8:45 AM	58.00	4.10	47.10	41.50	0.00	47.10	43.00	41.50	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 9:00 AM	73.00	3.10	32.70	43.40	10.70	32.70	46.90	43.40	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/15/15 9:15 AM	66.00	2.50	32.70	44.90	12.20	32.70	42.50	44.90	26.50									



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Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m³)							Naphthalene (µg/m³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
4/15/15 5:30 PM	49.00	6.00	43.50	49.40	5.90	43.50	78.60	49.40	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 5:45 PM	48.00	5.20	49.30	51.90	2.60	49.30	63.90	51.90	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 6:00 PM	60.00	6.00	48.20	57.60	9.40	48.20	65.40	57.60	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 6:15 PM	67.00	4.20	53.20	56.70	3.50	53.20	76.20	56.70	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 6:30 PM	86.00	3.70	48.70	59.40	10.70	48.70	62.30	59.40	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 6:45 PM	69.00	5.30	55.30	55.90	0.60	55.30	144.00	55.90	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 7:00 PM	70.00	5.50	59.90	60.40	0.50	59.90	76.80	60.40	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 7:15 PM	73.00	4.50	56.70	55.60	0.00	56.70	54.80	55.60	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 7:30 PM	85.00	3.90	55.20	48.00	0.00	55.20	47.90	48.00	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 7:45 PM	71.00	4.10	45.70	46.00	0.30	45.70	42.20	46.00	44.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 8:00 PM	71.00	4.90	47.50	42.90	0.00	47.50	80.20	42.90	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 8:15 PM	88.00	4.00	33.10	56.60	23.50	33.10	325.10	56.60	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 8:30 PM	80.00	4.80	63.40	64.80	1.40	63.40	113.70	64.80	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 8:45 PM	81.00	4.50	0.00	50.50	0.00	0.00	68.80	50.50	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 9:00 PM	101.00	4.40	81.00	19.20	0.00	0.00	81.00	61.90	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 9:15 PM	91.00	4.00	81.00	23.00	0.00	33.20	81.00	69.70	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 9:30 PM	109.00	4.50	111.10	26.50	0.00	30.90	111.10	85.70	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 9:45 PM	97.00	4.20	97.20	18.90	0.00	33.20	97.20	72.50	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 10:00 PM	118.00	6.20	101.70	29.90	0.00	50.40	101.70	74.00	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 10:15 PM	67.00	4.90	29.80	101.60	71.80	29.80	125.60	101.60	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 10:30 PM	93.00	4.10	89.90	28.20	0.00	35.90	89.90	87.50	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 10:45 PM	91.00	4.50	101.70	31.30	0.00	0.00	101.70	41.20	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 11:00 PM	102.00	4.50	77.30	27.90	0.00	44.30	77.30	50.80	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 11:15 PM	105.00	3.90	44.30	27.90	0.00	39.60	44.30	44.10	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 11:30 PM	83.00	3.70	28.80	50.50	21.70	28.80	72.20	50.50	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/15 11:45 PM	72.00	4.80	29.20	61.20	32.00	29.20	66.50	61.20	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 12:00 AM	111.00	5.10	76.20	16.00	0.00	27.60	76.20	58.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 12:15 AM	122.00	4.90	55.90	21.90	0.00	35.20	55.90	40.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 12:30 AM	106.00	7.00	97.20	20.00	0.00	32.60	97.20	48.10	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 12:45 AM	115.00	3.80	71.60	18.30	0.00	27.60	71.60	56.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 1:00 AM	121.00	5.30	70.40	18.70	0.00	28.00	70.40	51.30	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 1:15 AM	127.00	4.80	44.90	23.80	0.00	32.30	44.90	34.90	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 1:30 AM	109.00	4.90	62.20	21.80	0.00	0.00	62.20	39.10	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 1:45 AM	113.00	3.30	20.40	18.70	0.00	24.40	20.40	30.10	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 2:00 AM	124.00	3.80	21.80	22.10	0.30	38.50	21.80	29.20	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 2:15 AM	131.00	5.20	22.10	22.10	0.00	22.50	22.10	31.00	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 2:30 AM	147.00	2.20	18.00	19.70	1.70	40.20	18.00	27.90	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 2:45 AM	113.00	3.30	15.90	14.50	0.00	24.70	15.90	27.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 3:00 AM	124.00	2.60	16.20	14.20	0.00	28.90	16.20	28.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 3:15 AM	123.00	3.60	24.20	13.90	0.00	24.40	24.20	31.10	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 3:30 AM	121.00	1.70	26.20	14.30	0.00	24.30	26.20	32.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 3:45 AM	30.00	1.50	37.70	32.10	0.00	37.70	19.70	32.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 4:00 AM	82.00	0.50	28.70	32.20	3.50	28.70	22.40	32.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 4:15 AM	143.00	1.60	21.80	15.50	0.00	24.30	21.80	33.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 4:30 AM	145.00	2.00	24.20	10.80	0.00	22.90	24.20	36.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 4:45 AM	35.00	2.50	22.30	36.60	14.30	22.30	24.10	36.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 5:00 AM	38.00	1.80	20.60	45.50	24.90	20.60	33.20	45.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 5:15 AM	336.00	2.00	10.90	28.20	17.30	25.60	28.20	40.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 5:30 AM	5.00	2.20	21.40	40.10	18.70	21.40	33.80	40.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 5:45 AM	38.00	4.70	22.30	40.10	17.80	22.30	40.90	40.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 6:00 AM	33.00	5.20	30.10	38.40	8.30	30.10	44.20	38.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 6:15 AM	31.00	5.70	34.90	39.10	4.20	34.90	51.00	39.10	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 6:30 AM	35.00	6.70	22.00	38.30	16.30	22.00	31.60	38.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 6:45 AM	32.00	4.20	18.80	39.40	20.60	18.80	28.20	39.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:00 AM	23.00	6.40	19.20	37.50	18.30	19.20	27.30	37.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:15 AM	33.00	5.40	17.50	37.20	19.70	17.50	26.20	37.20	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:30 AM	36.00	3.30	19.10	35.80	16.70	19.10	27.10	35.80	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:45 AM	28.00	2.80	19.30	35.80	16.50	19.30	31.50	35.80	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:00 AM	15.00	3.30	24.90	36.70	11.80	24.90	35.10	36.70	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:15 AM	48.00	2.70	19.60	32.70	13.10	19.60	27.10	32.70	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:30 AM	53.00	3.10	21.60	33.30	11.70	21.60	31.70	33.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:45 AM	64.00	3.30	18.90	33.30	14.40	18.90	37.20	33.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:00 AM	55.00	3.50	21.20	38.20	17.00	21.20	80.70	38.20	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:15 AM	35.00	2.50	0.00	41.00	0.00	0.00	66.10	41.00	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:30 AM	82.00	2.20	33.60	58.30	24.70	33.60	78.90	58.30	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:45 AM	66.00	2.90	32.40	53.30	20.90	32.40	83.90	53.30	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 10:00 AM	80.00	1.10	38.70	36.30	0.00	38.70	37.00	36.30	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 10:15 AM	87.00	1.20	26.00	31.40	5.40	26.00	31.30	31.40	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 10:30 AM	70.00	1.30	27.90	32.50	4.60	27.90	31.30	32.50	19							



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/16/15 6:45 PM	107.00	2.30	60.30	59.30	0.00	82.70	60.30	51.60	59.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:00 PM	121.00	2.60	29.90	25.20	0.00	28.70	29.90	34.80	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:15 PM	76.00	2.70	26.30	42.20	15.90	26.30	47.30	42.20	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:30 PM	121.00	1.90	47.80	17.20	0.00	0.00	47.80	37.90	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 7:45 PM	122.00	1.70	63.90	20.00	0.00	31.50	63.90	35.70	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:00 PM	126.00	1.70	47.20	22.50	0.00	33.10	47.20	37.40	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:15 PM	117.00	2.30	33.10	21.80	0.00	32.30	33.10	32.90	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:30 PM	112.00	2.20	50.40	21.90	0.00	29.30	50.40	42.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 8:45 PM	139.00	2.00	50.40	24.00	0.00	30.30	50.40	33.20	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:00 PM	133.00	2.00	39.50	22.60	0.00	27.40	39.50	40.20	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:15 PM	133.00	2.30	25.90	23.10	0.00	30.20	25.90	33.20	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:30 PM	146.00	2.20	28.00	19.00	0.00	27.80	28.00	32.90	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 9:45 PM	145.00	1.50	27.40	15.50	0.00	21.90	27.40	34.10	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 10:00 PM	155.00	1.10	31.20	16.60	0.00	25.30	31.20	36.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 10:15 PM	190.00	1.20	37.40	29.70	0.00	29.70	29.20	37.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 10:30 PM	165.00	1.70	32.10	20.10	0.00	26.70	32.10	41.70	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 10:45 PM	190.00	1.80	44.80	87.40	42.60	87.40	41.20	44.80	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 11:00 PM	191.00	1.70	46.90	44.50	0.00	44.50	47.80	46.90	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 11:15 PM	197.00	2.40	48.10	46.40	0.00	46.40	53.10	48.10	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 11:30 PM	196.00	1.90	51.30	42.40	0.00	42.40	55.50	51.30	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/15 11:45 PM	209.00	1.70	54.00	41.20	0.00	41.20	55.00	54.00	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 12:00 AM	212.00	1.40	54.20	42.60	0.00	42.60	53.90	54.20	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 12:15 AM	190.00	2.00	51.10	42.60	0.00	42.60	56.30	51.10	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 12:30 AM	200.00	1.10	49.50	44.50	0.00	44.50	53.50	49.50	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 12:45 AM	163.00	1.70	48.40	31.90	0.00	44.50	48.40	47.10	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 1:00 AM	180.00	1.20	47.10	37.40	0.00	37.40	46.30	47.10	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 1:15 AM	198.00	1.10	46.50	37.50	0.00	37.50	43.50	46.50	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 1:30 AM	198.00	1.80	43.30	0.00	0.00	0.00	43.00	43.30	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 1:45 AM	213.00	1.30	43.20	0.00	0.00	0.00	43.90	43.20	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 2:00 AM	221.00	1.80	45.60	47.80	2.20	47.80	57.60	45.60	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 2:15 AM	199.00	1.80	55.00	48.80	0.00	48.80	55.30	55.00	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 2:30 AM	216.00	1.80	53.80	42.80	0.00	42.80	56.80	53.80	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 2:45 AM	212.00	2.20	44.70	40.50	0.00	40.50	52.50	44.70	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 3:00 AM	219.00	2.40	45.20	0.00	0.00	0.00	47.60	45.20	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 3:15 AM	203.00	2.10	45.90	36.40	0.00	36.40	44.30	45.90	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 3:30 AM	205.00	2.30	44.60	35.30	0.00	35.30	43.40	44.60	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 3:45 AM	202.00	2.10	46.30	36.80	0.00	36.80	45.20	46.30	33.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 4:00 AM	203.00	1.80	49.40	37.40	0.00	37.40	45.20	49.40	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 4:15 AM	195.00	1.30	52.50	39.90	0.00	39.90	52.70	52.50	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 4:30 AM	183.00	1.30	59.30	0.00	0.00	0.00	61.00	59.30	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 4:45 AM	188.00	1.20	63.40	44.80	0.00	44.80	64.30	63.40	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 5:00 AM	149.00	1.10	67.70	32.70	0.00	44.60	67.70	65.20	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 5:15 AM	212.00	1.10	68.30	44.20	0.00	44.20	73.40	68.30	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 5:30 AM	210.00	1.50	68.90	44.30	0.00	44.30	75.50	68.90	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 5:45 AM	211.00	0.80	74.50	45.60	0.00	45.60	74.90	74.50	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 6:00 AM	200.00	1.20	74.10	44.70	0.00	44.70	76.70	74.10	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 6:15 AM	201.00	1.50	74.40	45.30	0.00	45.30	74.90	74.40	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 6:30 AM	210.00	1.60	78.10	44.40	0.00	44.40	77.10	78.10	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 6:45 AM	202.00	1.40	83.20	44.20	0.00	44.20	85.10	83.20	32.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 7:00 AM	215.00	1.60	88.50	44.20	0.00	44.20	89.30	88.50	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 7:15 AM	227.00	1.80	93.20	44.20	0.00	44.20	87.00	93.20	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 7:30 AM	233.00	2.10	101.10	46.50	0.00	46.50	91.10	101.10	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 7:45 AM	221.00	2.50	102.40	46.80	0.00	46.80	100.00	102.40	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 8:00 AM	232.00	2.60	94.20	47.90	0.00	47.90	96.50	94.20	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 8:15 AM	235.00	3.20	89.40	47.90	0.00	47.90	93.50	89.40	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 8:30 AM	221.00	3.70	90.90	47.40	0.00	47.40	90.70	90.90	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 8:45 AM	221.00	3.30	87.20	48.00	0.00	48.00	88.60	87.20	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:00 AM	248.00	4.20	81.10	48.00	0.00	48.00	81.80	81.10	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:15 AM	240.00	4.60	70.00	43.60	0.00	43.60	72.00	70.00	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:30 AM	245.00	4.10	70.00	42.80	0.00	42.80	64.40	70.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:45 AM	243.00	4.70	48.00	36.10	0.00	36.10	49.10	48.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:00 AM	233.00	3.40	37.60	27.40	0.00	27.40	38.30	37.60	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:15 AM	252.00	3.30	31.40	22.60	0.00	22.60	28.30	31.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:30 AM	253.00	2.00	27.80	20.90	0.00	20.90	26.80	27.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:45 AM	278.00	1.80	12.70	24.40	11.70	20.10	24.40	25.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:00 AM	204.00	1.30	22.40	20.40	0.00	20.40	21.30	22.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:15 AM	265.00	2.90	20.40	20.60	0.20	20.60	19.30	20.40	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:30 AM	241.00	1.20	19.00	20.50	1.50	20.50	18.40	19.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:45 AM	207.00	2.20	19.00	20.50	1.50	20.50										





**US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/17/15 8:15 PM	112.00	1.20	51.70	27.50	0.00	0.00	51.70	36.10	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 8:30 PM	130.00	1.70	67.30	29.50	0.00	35.40	67.30	48.40	29.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 8:45 PM	130.00	1.70	54.00	29.00	0.00	42.00	54.00	41.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:00 PM	147.00	1.30	136.90	40.50	0.00	50.90	136.90	49.20	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:15 PM	165.00	1.40	94.40	44.30	0.00	41.20	94.40	65.80	44.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:30 PM	151.00	1.50	59.80	37.10	0.00	44.60	59.80	52.70	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 9:45 PM	159.00	1.50	64.50	91.90	27.40	56.50	64.50	56.10	91.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:00 PM	165.00	1.60	69.00	100.90	31.90	157.30	69.00	62.00	100.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:15 PM	162.00	1.40	67.70	45.30	0.00	157.30	67.70	63.40	45.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:30 PM	154.00	1.40	77.40	45.00	0.00	157.30	77.40	56.50	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 10:45 PM	172.00	1.40	76.10	45.90	0.00	89.60	76.10	63.20	45.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:00 PM	188.00	1.40	61.50	89.60	28.10	89.60	77.40	61.50	47.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:15 PM	193.00	1.80	61.00	73.90	12.90	73.90	76.20	61.00	45.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:30 PM	202.00	1.50	62.80	74.40	11.60	74.40	73.80	62.80	46.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/15 11:45 PM	199.00	1.90	64.60	76.40	11.80	76.40	75.50	64.60	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:00 AM	198.00	2.60	64.00	70.50	6.50	70.50	77.20	64.00	49.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:15 AM	206.00	2.70	60.00	74.80	14.80	74.80	76.00	60.00	43.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:30 AM	201.00	2.70	57.10	69.60	12.50	69.60	56.80	57.10	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:45 AM	207.00	2.40	54.70	66.00	11.30	66.00	56.40	54.70	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 1:00 AM	206.00	2.90	50.60	51.50	0.90	51.50	51.00	50.60	34.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 1:15 AM	208.00	2.50	43.40	43.00	0.00	43.00	37.60	43.40	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 1:30 AM	209.00	2.10	39.70	37.20	0.00	37.20	34.20	39.70	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 1:45 AM	212.00	2.70	37.20	34.70	0.00	34.70	31.40	37.20	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 2:00 AM	211.00	2.10	36.30	33.50	0.00	33.50	30.00	36.30	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 2:15 AM	206.00	2.30	35.30	32.00	0.00	32.00	27.90	35.30	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 2:30 AM	211.00	2.30	36.00	32.30	0.00	32.30	45.60	36.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 2:45 AM	200.00	1.60	56.20	0.00	0.00	0.00	71.20	56.20	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 3:00 AM	216.00	1.10	57.00	76.60	19.60	76.60	48.00	57.00	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 3:15 AM	211.00	1.20	41.50	43.80	2.30	43.80	33.00	41.50	47.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 3:30 AM	218.00	0.50	44.70	41.70	0.00	41.70	43.20	44.70	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 3:45 AM	216.00	1.00	50.20	50.40	0.20	50.40	57.40	50.20	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 4:00 AM	209.00	1.50	50.50	51.90	1.40	51.90	57.40	50.50	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 4:15 AM	236.00	1.70	51.30	48.70	0.00	48.70	50.50	51.30	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 4:30 AM	237.00	1.40	48.00	47.90	0.00	47.90	41.60	48.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 4:45 AM	233.00	0.90	44.00	38.70	0.00	38.70	35.70	44.00	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 5:00 AM	236.00	2.00	42.30	38.70	0.00	38.70	33.60	42.30	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 5:15 AM	232.00	2.00	37.80	0.00	0.00	0.00	29.90	37.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 5:30 AM	249.00	1.70	35.60	27.80	0.00	27.80	29.30	35.60	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 5:45 AM	231.00	1.80	35.90	28.30	0.00	28.30	28.50	35.90	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 6:00 AM	231.00	1.80	39.30	30.50	0.00	30.50	31.90	39.30	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 6:15 AM	225.00	1.70	42.30	33.00	0.00	33.00	35.00	42.30	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 6:30 AM	223.00	1.20	42.30	33.00	0.00	33.00	37.00	42.30	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 6:45 AM	221.00	2.00	42.50	34.70	0.00	34.70	40.30	42.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 7:00 AM	238.00	1.10	44.90	0.00	0.00	0.00	41.00	44.90	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 7:15 AM	214.00	1.60	46.00	37.80	0.00	37.80	43.00	46.00	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 7:30 AM	224.00	0.90	48.10	36.70	0.00	36.70	44.10	48.10	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 7:45 AM	251.00	1.80	48.50	36.30	0.00	36.30	46.90	48.50	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 8:00 AM	358.00	0.80	26.10	45.10	19.00	36.30	45.10	46.00	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 8:15 AM	357.00	7.40	25.80	43.00	17.20	0.00	43.00	46.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 8:30 AM	17.00	8.80	37.20	44.60	7.40	37.20	43.60	44.60	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 8:45 AM	5.00	10.40	37.50	42.90	5.40	37.50	45.10	42.90	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 9:00 AM	17.00	7.40	0.00	42.70	0.00	0.00	43.80	42.70	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 9:15 AM	6.00	8.40	35.00	39.60	4.60	35.00	39.50	39.60	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 9:30 AM	3.00	8.80	44.30	38.30	0.00	44.30	41.00	38.30	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 9:45 AM	0.00	7.70	44.40	37.00	0.00	44.40	47.50	37.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 10:00 AM	2.00	8.50	44.40	37.90	0.00	44.40	53.70	37.90	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 10:15 AM	358.00	8.00	41.70	56.40	14.70	65.20	56.40	47.20	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 10:30 AM	4.00	6.80	61.10	50.00	0.00	61.10	72.10	50.00	46.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 10:45 AM	351.00	7.80	52.50	75.40	22.90	59.10	75.40	53.70	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 11:00 AM	0.00	8.60	59.10	56.20	0.00	59.10	83.80	56.20	55.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 11:15 AM	2.00	7.00	59.20	56.20	0.00	59.20	81.00	56.20	54.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 11:30 AM	10.00	7.80	55.40	53.40	0.00	55.40	74.40	53.40	53.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 11:45 AM	10.00	8.70	49.40	49.40	0.00	49.40	64.80	49.40	49.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:00 PM	8.00	8.00	49.40	48.40	0.00	49.40	63.30	48.40	44.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:15 PM	352.00	9.10	36.50	53.60	17.10	49.40	53.60	42.90	36.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:30 PM	356.00	9.90	33.10	44.80	11.70	34.20	44.80	39.50	33.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 12:45 PM	8.00	9.40	27.90	37.20	9.30	27.90	42.30	37.20	30.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 1:00 PM	355.00	9.90	22.20	32.80	10.60	24.00	32.80	31.80	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/15 1:15 PM	11.00	9.90	18.80	26.50	7.70											





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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		
4/19/15 10:45 PM	316.00	4.70	12.70	44.30	31.60	21.30	44.30	51.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/19/15 11:00 PM	321.00	5.10	9.70	25.50	15.80	15.20	25.50	36.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/19/15 11:15 PM	325.00	4.50	13.50	21.60	8.10	18.20	21.60	36.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/19/15 11:30 PM	338.00	3.00	9.00	20.30	11.30	17.40	20.30	24.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/19/15 11:45 PM	324.00	4.40	9.70	23.30	13.60	15.80	23.30	24.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:00 AM	326.00	4.00	9.20	18.40	9.20	13.50	18.40	23.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:15 AM	320.00	2.90	8.50	13.00	4.50	11.40	13.00	19.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:30 AM	297.00	4.10	9.40	14.70	5.30	11.10	14.70	19.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:45 AM	288.00	3.30	8.70	14.20	5.50	11.70	14.20	19.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:00 AM	246.00	3.40	21.30	11.40	0.00	11.40	13.00	21.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:15 AM	237.00	3.80	21.90	0.00	0.00	0.00	15.60	21.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:30 AM	239.00	4.80	25.00	12.90	0.00	12.90	21.20	25.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:45 AM	258.00	5.50	25.90	12.20	0.00	12.20	17.00	25.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:00 AM	246.00	5.80	31.80	0.00	0.00	0.00	27.80	31.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:15 AM	238.00	4.70	35.50	15.00	0.00	15.70	37.60	35.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:30 AM	236.00	5.40	40.20	21.80	0.00	21.80	42.70	40.20	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:45 AM	240.00	6.60	40.20	18.80	0.00	18.80	45.40	40.20	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:00 AM	236.00	5.00	43.10	18.80	0.00	18.80	40.80	43.10	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:15 AM	223.00	4.40	38.70	18.80	0.00	18.80	40.80	38.70	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:30 AM	231.00	6.10	38.20	16.80	0.00	16.80	34.60	38.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:45 AM	229.00	5.90	26.50	12.00	0.00	12.00	26.70	26.50	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 4:00 AM	230.00	5.10	26.30	11.50	0.00	11.50	26.70	26.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 4:15 AM	229.00	4.70	26.00	11.90	0.00	11.90	26.70	26.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 4:30 AM	219.00	3.60	25.20	11.90	0.00	11.90	26.70	25.20	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 4:45 AM	215.00	5.70	25.20	0.00	0.00	0.00	18.20	25.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 5:00 AM	214.00	5.00	23.70	11.50	0.00	11.50	17.80	23.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 5:15 AM	219.00	4.70	19.10	10.30	0.00	10.30	13.40	19.10	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 5:30 AM	219.00	5.00	18.70	11.20	0.00	11.20	15.20	18.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 5:45 AM	227.00	5.60	25.80	17.20	0.00	17.20	31.30	25.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 6:00 AM	214.00	4.40	28.30	18.60	0.00	18.60	27.80	28.30	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 6:15 AM	214.00	8.30	37.60	22.40	0.00	22.40	36.90	37.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 6:30 AM	223.00	8.10	45.20	24.10	0.00	24.10	46.90	45.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 6:45 AM	228.00	8.10	41.30	21.30	0.00	21.30	40.30	41.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 7:00 AM	236.00	8.10	40.30	19.90	0.00	19.90	37.50	40.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 7:15 AM	240.00	7.90	32.90	16.00	0.00	16.00	25.70	32.90	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 7:30 AM	227.00	10.10	21.10	10.30	0.00	10.30	13.20	21.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 7:45 AM	238.00	10.40	17.00	9.70	0.00	9.70	11.10	17.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 8:00 AM	232.00	9.50	16.20	9.50	0.00	9.50	11.20	16.20	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 8:15 AM	235.00	9.50	16.40	9.50	0.00	9.50	16.70	16.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 8:30 AM	241.00	9.20	12.30	0.00	0.00	0.00	10.50	12.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 8:45 AM	257.00	10.40	11.40	10.60	0.00	10.60	9.90	11.40	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 9:00 AM	256.00	7.40	9.70	9.40	0.00	9.40	8.10	9.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 9:15 AM	263.00	8.10	9.40	9.20	0.00	9.20	8.10	9.40	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 9:30 AM	263.00	9.10	9.20	8.10	0.00	8.10	7.70	9.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 9:45 AM	265.00	9.80	8.80	7.70	0.00	7.70	6.40	8.80	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 10:00 AM	275.00	9.40	7.30	6.40	0.00	8.50	6.40	7.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 10:15 AM	262.00	12.10	8.10	8.40	0.30	8.40	8.60	8.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 10:30 AM	242.00	11.20	6.30	9.60	3.30	9.60	5.60	6.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 10:45 AM	264.00	8.30	6.00	6.60	0.60	6.60	6.70	6.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 11:00 AM	246.00	8.20	5.20	6.80	1.60	6.80	5.00	5.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 11:15 AM	250.00	10.90	4.70	6.40	1.70	6.40	3.80	4.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 11:30 AM	242.00	9.20	4.70	6.70	2.00	6.70	4.10	4.70	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 11:45 AM	262.00	8.30	4.00	6.50	2.50	6.50	3.60	4.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:00 PM	263.00	10.00	3.50	0.00	0.00	0.00	4.40	3.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:15 PM	261.00	8.00	3.50	0.00	0.00	0.00	4.50	3.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:30 PM	264.00	9.00	3.80	7.70	3.90	7.70	4.50	3.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 12:45 PM	263.00	7.30	3.40	6.50	3.10	6.50	3.90	3.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:00 PM	259.00	7.40	2.80	6.00	3.20	6.00	3.60	2.80	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:15 PM	264.00	8.00	2.60	6.40	3.80	6.40	3.10	2.60	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:30 PM	260.00	9.30	2.40	6.10	3.70	6.10	0.00	2.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 1:45 PM	259.00	9.70	2.40	5.90	3.50	5.90	2.80	2.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:00 PM	246.00	8.90	2.40	6.20	3.80	6.20	3.00	2.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:15 PM	255.00	8.60	2.40	6.00	3.60	6.00	2.70	2.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:30 PM	261.00	7.30	2.50	6.70	4.20	6.70	3.40	2.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 2:45 PM	247.00	10.40	3.10	7.10	4.00	7.10	4.70	3.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:00 PM	255.00	8.40	3.40	7.10	3.70	7.10	4.70	3.40	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:15 PM	266.00	6.60	3.80	8.10	4.30	8.10	5.30	3.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:30 PM	251.00	7.00	3.40	7.70	4.30	7.70	4.90	3.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 3:45 PM	265.00	9.80	3.10	7.80	4.70	7.80	4.50	3.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/20/15 4:00 PM	252.00	8.90	2.70	7.10	4.40	7.10	4.30	2.70										



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/21/15 12:00 AM	244.00	5.40	3.90	4.20	0.30	4.20	3.60	3.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 12:15 AM	243.00	6.00	4.30	4.70	0.40	4.70	4.10	4.30	2.80	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 12:30 AM	230.00	6.30	3.90	4.70	0.80	4.70	4.20	3.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 12:45 AM	236.00	4.90	3.90	4.80	0.90	4.80	4.20	3.90	3.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:00 AM	225.00	4.70	3.80	4.80	1.00	4.80	4.20	3.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:15 AM	232.00	4.70	4.00	0.00	0.00	0.00	4.10	4.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:30 AM	232.00	4.40	4.00	4.80	0.80	4.80	4.20	4.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:45 AM	233.00	5.80	3.90	5.00	1.10	5.00	4.10	3.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:00 AM	235.00	6.70	4.20	5.10	0.90	5.10	3.90	4.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:15 AM	230.00	6.30	3.80	4.90	1.10	4.90	3.70	3.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:30 AM	225.00	6.10	4.00	4.90	0.90	4.90	3.80	4.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:45 AM	221.00	5.10	4.00	5.00	1.00	5.00	3.80	4.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:00 AM	231.00	5.60	3.80	4.80	1.00	4.80	3.70	3.80	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:15 AM	230.00	5.00	4.00	5.00	1.00	5.00	3.50	4.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:30 AM	238.00	6.30	4.10	4.80	0.70	4.80	3.60	4.10	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:45 AM	233.00	7.80	3.90	4.80	0.90	4.80	3.50	3.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:00 AM	224.00	4.20	4.10	4.90	0.80	4.90	3.60	4.10	5.80	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:15 AM	239.00	5.80	4.50	5.10	0.60	5.10	3.70	4.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:30 AM	250.00	6.20	4.30	5.10	0.80	5.10	4.00	4.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:45 AM	241.00	7.40	3.90	4.90	1.00	4.90	4.00	3.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:00 AM	243.00	7.40	3.80	4.80	1.00	4.80	3.70	3.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:15 AM	243.00	9.00	4.10	5.40	1.30	5.40	4.00	4.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:30 AM	238.00	6.50	4.00	5.20	1.20	5.20	3.40	4.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:45 AM	245.00	8.40	3.80	0.00	0.00	0.00	3.20	3.80	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 6:00 AM	244.00	7.30	3.60	5.10	1.50	5.10	3.20	3.60	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 6:15 AM	250.00	7.80	3.50	5.40	1.90	5.40	2.90	3.50	5.00	0.00	0.00	1.20	0.00	0.00	0.00	
4/21/15 6:30 AM	241.00	7.80	3.70	5.90	2.20	5.90	3.20	3.70	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 6:45 AM	239.00	7.20	3.70	0.00	0.00	0.00	3.10	3.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 7:00 AM	232.00	6.20	3.50	6.10	2.60	6.10	3.40	3.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 7:15 AM	235.00	5.50	3.60	6.10	2.50	6.10	3.20	3.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 7:30 AM	239.00	6.70	3.60	5.10	1.50	5.10	3.30	3.60	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 7:45 AM	234.00	7.00	3.70	4.30	0.60	4.30	3.20	3.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 8:00 AM	228.00	8.40	3.40	0.00	0.00	0.00	3.50	3.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 8:15 AM	259.00	7.90	3.50	3.70	0.20	3.70	3.50	3.50	4.60	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 8:30 AM	255.00	7.60	3.10	3.40	0.30	3.40	3.70	3.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 8:45 AM	260.00	8.30	3.20	3.60	0.40	3.60	3.40	3.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 9:00 AM	250.00	10.30	3.40	0.00	0.00	0.00	3.50	3.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 9:15 AM	249.00	7.30	3.40	0.00	0.00	0.00	3.80	3.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 9:30 AM	259.00	10.10	3.20	0.00	0.00	0.00	3.90	3.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 9:45 AM	256.00	9.70	3.00	4.80	1.80	4.80	3.60	3.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 10:00 AM	244.00	8.40	3.00	4.80	1.80	4.80	4.00	3.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 10:15 AM	263.00	8.30	2.90	5.90	3.00	5.90	3.80	2.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 10:30 AM	264.00	7.50	3.10	5.90	2.80	5.90	3.80	3.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 10:45 AM	269.00	9.80	3.10	7.10	4.00	7.10	3.70	3.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 11:00 AM	262.00	8.90	3.50	7.70	4.20	7.70	4.00	3.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 11:15 AM	267.00	9.70	3.40	8.10	4.70	8.10	4.00	3.40	5.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 11:30 AM	241.00	12.70	3.10	7.70	4.60	7.70	4.10	3.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 11:45 AM	271.00	8.40	4.70	4.10	0.00	4.70	4.10	3.10	4.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 12:00 PM	255.00	11.80	3.10	7.70	4.60	7.70	4.60	3.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 12:15 PM	264.00	8.80	3.50	6.90	3.40	6.90	5.20	3.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 12:30 PM	261.00	8.90	3.80	0.00	0.00	0.00	4.70	3.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 12:45 PM	254.00	11.60	3.80	9.70	5.90	9.70	6.00	3.80	8.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:00 PM	246.00	12.00	3.90	7.20	3.30	7.20	6.20	3.90	5.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:15 PM	265.00	10.70	4.30	0.00	0.00	0.00	7.20	4.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:30 PM	260.00	12.20	4.60	0.00	0.00	0.00	6.40	4.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 1:45 PM	258.00	10.70	5.10	7.20	2.10	7.20	6.70	5.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:00 PM	257.00	11.00	4.60	7.30	2.70	7.30	7.00	4.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:15 PM	259.00	11.40	4.50	0.00	0.00	0.00	8.60	4.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:30 PM	260.00	12.90	4.50	0.00	0.00	0.00	8.80	4.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 2:45 PM	229.00	10.80	4.90	7.50	2.60	7.50	6.60	4.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:00 PM	253.00	11.40	4.80	7.50	2.70	7.50	7.60	4.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:15 PM	257.00	14.00	5.20	8.70	3.50	8.70	8.30	5.20	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:30 PM	247.00	9.80	5.50	0.00	0.00	0.00	11.70	5.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 3:45 PM	255.00	11.10	5.60	0.00	0.00	0.00	10.30	5.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:00 PM	255.00	9.20	6.50	9.60	3.10	9.60	26.80	6.50	10.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:15 PM	264.00	12.70	6.00	10.40	4.40	10.40	19.30	6.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:30 PM	241.00	9.40	6.30	14.20	7.90	14.20	18.30	6.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 4:45 PM	274.00	15.30	8.80	13.30	4.50	13.30	13.70	7.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:00 PM	267.00	12.30	7.40	12.60	5.20	12.60	13.10	7.40	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:15 PM	271.00	9.30	20.70	35.00	14.30	17.30	35.00	10.50	20.70	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:30 PM	295.00	9.30	13.10	24.40	11.30	17.50	24.40	9.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 5:45 PM	303.00	6.20	16.40	20.90	4.50	17.90	20.90	11.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 6:00 PM	290.00	6.80	17.00	42.30	25.30	22.60	42.30	13.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 6:15 PM	304.00	8.50	14.50	19.00	4.50	25.00	19.00	11.80	14.50	0.00	0.00	0.00	0.00	0.00	0.00	
4/21/15 6:30 PM	293.00	6.10	13.50	19.00												



**US Army Corps  
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Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/22/15 1:15 AM	285.00	6.00	7.80	11.40	3.60	9.20	11.40	9.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 1:30 AM	266.00	4.60	8.60	8.40	0.00	8.40	10.40	8.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 1:45 AM	272.00	5.60	7.90	10.40	2.50	8.40	10.40	8.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:00 AM	272.00	4.90	7.60	10.60	3.00	8.60	10.60	8.50	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:15 AM	0.00	0.00	0.00	0.00	0.00	8.40	9.70	8.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:30 AM	272.00	3.60	7.80	9.90	2.10	9.10	9.90	8.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:45 AM	270.00	5.40	7.80	10.00	2.20	9.40	10.00	8.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:00 AM	280.00	4.50	7.70	9.90	2.20	9.90	9.90	8.20	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:15 AM	270.00	3.40	7.50	9.90	2.40	9.90	9.90	8.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:30 AM	271.00	3.80	7.30	9.90	2.60	9.40	9.90	8.50	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:45 AM	271.00	3.60	7.40	10.10	2.70	8.80	10.10	8.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:00 AM	259.00	3.50	8.50	8.80	0.30	8.80	10.00	8.50	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:15 AM	268.00	4.80	8.30	8.50	0.20	8.50	9.90	8.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:30 AM	270.00	3.80	7.40	9.80	2.40	7.80	9.80	8.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:45 AM	270.00	4.20	7.50	9.80	2.30	7.80	9.80	8.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:00 AM	272.00	3.70	7.70	9.60	1.90	7.70	9.60	8.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:15 AM	277.00	4.10	7.50	9.80	2.30	7.70	9.80	8.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:30 AM	272.00	4.40	7.40	10.70	3.30	7.70	10.70	8.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:45 AM	266.00	3.90	8.90	7.70	0.00	7.70	10.80	8.90	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:00 AM	267.00	5.90	8.70	7.50	0.00	7.50	11.30	8.70	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:15 AM	263.00	3.90	8.80	11.80	3.00	11.80	10.80	8.80	33.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:30 AM	272.00	5.80	7.50	10.90	3.40	7.70	10.90	8.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:45 AM	270.00	5.30	7.50	10.70	3.20	7.90	10.70	8.60	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 7:00 AM	267.00	7.40	8.60	8.30	0.00	8.30	9.90	8.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 7:15 AM	288.00	6.80	7.70	10.30	2.60	8.50	10.30	8.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 7:30 AM	320.00	5.10	7.50	10.20	2.70	8.50	10.20	8.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 7:45 AM	312.00	7.30	6.90	9.40	2.50	0.00	9.40	8.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 8:00 AM	286.00	6.70	7.20	9.00	1.80	8.00	9.00	7.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 8:15 AM	300.00	4.50	6.80	8.40	1.60	7.80	8.40	7.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 8:30 AM	324.00	5.50	8.20	8.10	0.00	9.80	8.10	7.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 8:45 AM	295.00	9.00	6.20	7.70	1.50	9.60	7.70	7.30	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 9:00 AM	303.00	6.40	7.10	7.10	0.00	10.30	7.10	7.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 9:15 AM	310.00	6.80	6.10	7.30	1.20	9.80	7.30	7.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 9:30 AM	299.00	8.70	6.10	7.00	0.90	9.90	7.00	6.70	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 9:45 AM	311.00	7.30	5.90	6.90	1.00	12.40	6.90	6.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 10:00 AM	301.00	6.90	6.80	7.90	1.10	11.80	7.90	6.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 10:15 AM	281.00	8.30	6.90	7.30	0.40	0.00	7.30	6.40	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 10:30 AM	291.00	8.80	5.50	7.50	2.00	11.00	7.50	6.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 10:45 AM	273.00	7.40	5.20	7.20	2.00	11.90	7.20	6.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 11:00 AM	280.00	6.80	5.80	6.20	0.40	10.40	6.20	6.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 11:15 AM	275.00	4.90	5.40	6.50	1.10	8.90	6.50	5.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 11:30 AM	322.00	7.30	6.50	7.10	0.60	9.00	7.10	6.30	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 11:45 AM	299.00	5.90	5.30	6.50	1.20	8.50	6.50	5.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 12:00 PM	301.00	6.30	5.50	6.00	0.50	8.50	6.00	5.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 12:15 PM	299.00	7.50	6.90	7.40	0.50	0.00	7.40	5.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 12:30 PM	281.00	6.00	7.00	6.30	0.00	7.60	6.30	5.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 12:45 PM	298.00	7.40	5.60	6.40	0.80	0.00	6.40	5.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 1:00 PM	283.00	8.00	7.20	7.40	0.20	7.10	7.40	5.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 1:15 PM	301.00	6.90	6.30	6.60	0.30	7.20	6.60	5.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 1:30 PM	303.00	4.60	6.60	6.70	0.10	5.60	6.70	5.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 1:45 PM	293.00	6.90	6.30	6.00	0.00	5.90	6.00	5.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:00 PM	281.00	8.80	6.40	6.30	0.00	5.60	6.30	5.80	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:15 PM	263.00	6.70	6.70	5.20	0.00	5.20	6.30	6.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:30 PM	325.00	5.90	6.10	6.50	0.40	5.20	6.50	5.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 2:45 PM	294.00	5.20	5.90	6.20	0.30	6.10	6.20	5.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:00 PM	302.00	8.80	6.50	6.40	0.00	6.30	6.40	6.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:15 PM	304.00	8.30	6.50	9.30	2.80	0.00	9.30	5.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:30 PM	277.00	8.40	6.40	7.00	0.60	0.00	7.00	5.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 3:45 PM	292.00	6.90	6.70	7.90	1.20	7.70	7.90	6.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:00 PM	283.00	8.40	8.20	7.90	0.00	7.60	7.90	6.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:15 PM	293.00	7.90	8.00	7.60	0.00	7.70	7.60	6.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:30 PM	296.00	7.50	8.60	8.20	0.00	7.70	8.20	6.80	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 4:45 PM	278.00	8.30	7.80	8.00	0.20	8.10	8.00	8.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:00 PM	288.00	6.70	10.00	8.70	0.00	0.00	8.70	7.50	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:15 PM	302.00	8.00	9.30	7.60	0.00	8.80	7.60	6.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:30 PM	297.00	6.20	7.30	7.60	0.30	8.80	7.60	6.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 5:45 PM	280.00	7.80	8.10	6.80	0.00	8.40	6.80	6.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:00 PM	293.00	6.90	7.00	6.70	0.00	8.10	6.70	6.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:15 PM	299.00	5.60	7.00	6.70	0.00	7.70	6.70	6.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:30 PM	312.00	8.80	8.00	7.50	0.00	7.20	7.50	6.60	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/15 6:45 PM	289.00	5.10	7.10	6.90	0.00	7.40	6.90	6.90	7.10	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
4/24/15 4:00 AM	205.00	1.00	34.00	38.90	4.90	38.90	37.30	34.00	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 4:15 AM	189.00	1.30	33.80	36.50	2.70	36.50	37.20	33.80	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 4:30 AM	164.00	0.90	38.30	23.90	0.00	36.40	38.30	32.00	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 4:45 AM	155.00	1.60	38.10	24.70	0.00	37.70	38.10	32.60	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:00 AM	175.00	2.10	36.80	23.70	0.00	0.00	36.80	32.50	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:15 AM	166.00	1.70	37.60	26.40	0.00	35.30	37.60	32.90	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:30 AM	186.00	1.10	33.80	35.20	1.40	35.20	37.80	33.80	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:45 AM	169.00	1.30	38.10	29.00	0.00	35.20	38.10	34.10	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:00 AM	161.00	1.70	40.00	28.80	0.00	37.10	40.00	33.60	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:15 AM	162.00	1.20	40.40	27.90	0.00	34.70	40.40	33.50	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:30 AM	187.00	1.60	35.10	36.10	1.00	36.10	41.10	35.10	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:45 AM	180.00	0.90	33.40	35.60	2.20	35.60	54.30	33.40	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:00 AM	197.00	2.00	33.00	35.60	2.60	35.60	42.70	33.00	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:15 AM	190.00	1.20	33.20	38.30	5.10	38.30	66.90	33.20	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:30 AM	202.00	1.80	34.40	43.70	9.30	43.70	65.20	34.40	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:45 AM	197.00	2.40	34.70	0.00	0.00	0.00	43.70	34.70	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:00 AM	211.00	1.60	32.70	50.10	17.40	50.10	55.00	32.70	30.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:15 AM	219.00	1.20	33.70	41.80	8.10	41.80	41.80	33.70	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:30 AM	229.00	2.10	31.40	41.10	9.70	41.10	39.40	31.40	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:45 AM	159.00	1.10	39.50	29.20	0.00	39.20	39.50	31.10	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 9:00 AM	210.00	1.80	30.80	39.50	8.70	39.50	35.90	30.80	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 9:15 AM	160.00	2.20	34.80	24.30	0.00	37.80	34.80	29.90	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 9:30 AM	233.00	2.30	29.20	35.90	6.70	35.90	36.00	29.20	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 9:45 AM	204.00	2.90	25.30	33.60	8.30	33.60	31.40	25.30	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 10:00 AM	191.00	2.30	25.30	32.90	7.60	32.90	27.00	25.30	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 10:15 AM	160.00	3.50	27.90	18.30	0.00	26.20	27.90	22.80	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 10:30 AM	190.00	1.20	19.60	24.20	4.60	24.20	25.40	19.60	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 10:45 AM	230.00	3.80	16.20	26.20	10.00	26.20	16.20	16.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 11:00 AM	94.00	1.30	15.90	12.50	0.00	22.40	15.90	16.60	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 11:15 AM	155.00	4.20	14.80	12.20	0.00	21.90	14.80	15.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 11:30 AM	234.00	1.40	14.90	20.40	5.50	20.40	15.60	14.90	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 11:45 AM	208.00	3.20	15.20	20.40	5.20	20.40	14.90	15.20	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 12:00 PM	198.00	4.40	15.10	21.70	6.60	21.70	21.40	15.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 12:15 PM	153.00	3.30	17.50	11.90	0.00	21.80	17.50	16.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 12:30 PM	214.00	4.30	15.10	23.20	8.10	23.20	15.60	15.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 12:45 PM	144.00	3.50	21.70	11.70	0.00	22.50	21.70	15.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 1:00 PM	154.00	2.90	18.20	12.80	0.00	87.20	18.20	16.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 1:15 PM	123.00	1.50	19.10	13.30	0.00	23.30	19.10	15.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 1:30 PM	57.00	5.00	22.90	15.80	0.00	22.90	17.50	15.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 1:45 PM	63.00	4.00	22.20	15.90	0.00	22.20	16.80	15.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 2:00 PM	73.00	3.90	22.40	15.60	0.00	22.40	17.90	15.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 2:15 PM	37.00	4.90	33.40	16.00	0.00	33.40	27.70	16.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 2:30 PM	64.00	4.60	35.90	24.50	0.00	35.90	37.80	24.50	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 2:45 PM	75.00	4.80	57.90	34.00	0.00	57.90	41.00	34.00	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 3:00 PM	106.00	3.80	47.20	27.50	0.00	43.90	47.20	35.60	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 3:15 PM	77.00	5.00	54.40	37.80	0.00	54.40	53.30	37.80	41.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 3:30 PM	75.00	5.50	0.00	32.70	0.00	0.00	64.20	32.70	72.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 3:45 PM	84.00	5.20	102.10	50.00	0.00	102.10	62.10	50.00	88.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 4:00 PM	74.00	5.00	60.60	34.60	0.00	60.60	50.30	34.60	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 4:15 PM	78.00	4.50	48.00	41.10	0.00	48.00	57.30	41.10	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 4:30 PM	74.00	5.10	39.70	42.00	2.30	39.70	49.10	42.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 4:45 PM	88.00	5.40	36.60	38.10	1.50	36.60	52.00	38.10	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:00 PM	76.00	5.10	44.90	36.70	0.00	44.90	50.40	36.70	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:15 PM	72.00	4.30	49.60	36.70	0.00	49.60	44.40	36.70	46.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:30 PM	54.00	7.20	41.40	40.80	0.00	41.40	42.10	40.80	107.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 5:45 PM	53.00	5.20	46.70	35.80	0.00	46.70	40.20	35.80	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:00 PM	63.00	6.10	41.00	33.40	0.00	41.00	32.00	33.40	29.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:15 PM	61.00	5.20	39.00	31.90	0.00	39.00	34.00	31.90	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:30 PM	57.00	6.30	46.00	36.50	0.00	46.00	40.80	36.50	44.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 6:45 PM	58.00	3.50	38.10	38.00	0.00	38.10	44.10	38.00	44.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:00 PM	57.00	4.70	35.30	33.70	0.00	35.30	31.90	33.70	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:15 PM	63.00	6.30	37.40	32.90	0.00	37.40	39.40	32.90	36.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:30 PM	49.00	4.30	51.20	34.70	0.00	51.20	37.40	34.70	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 7:45 PM	44.00	7.60	51.20	35.00	0.00	51.20	37.30	35.00	58.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:00 PM	84.00	4.20	46.70	39.60	0.00	46.70	41.50	39.60	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:15 PM	68.00	3.90	32.30	35.00	2.70	32.30	34.70	35.00	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:30 PM	64.00	5.20	31.50	35.00	3.50	31.50	32.50	35.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 8:45 PM	55.00	5.80	33.20	32.00	0.00	33.20	36.70	32.00	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/15 9:00 PM	21.00	6.70	30.60	46.00	15.40	30.60	39.80	46.00	20.							



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/25/15 5:15 AM	86.00	4.40	23.80	34.00	10.20	23.80	39.00	34.00	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 5:30 AM	79.00	6.60	22.80	36.30	13.50	22.80	0.00	36.30	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 5:45 AM	106.00	5.00	30.10	22.00	0.00	24.50	30.10	30.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:00 AM	85.00	5.70	22.90	34.20	11.30	22.90	39.50	34.20	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:15 AM	101.00	5.60	29.60	18.20	0.00	21.70	29.60	29.80	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:30 AM	111.00	5.40	36.30	18.30	0.00	21.40	36.30	32.30	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:45 AM	114.00	5.00	31.60	18.30	0.00	20.90	31.60	29.60	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:00 AM	112.00	5.00	30.10	18.30	0.00	20.20	30.10	30.90	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:15 AM	116.00	6.20	33.40	18.10	0.00	19.70	33.40	29.70	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:30 AM	119.00	6.10	34.30	18.90	0.00	19.70	34.30	29.80	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:45 AM	116.00	5.20	35.30	18.80	0.00	20.00	35.30	27.60	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:00 AM	111.00	8.20	33.00	18.50	0.00	19.60	33.00	27.70	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:15 AM	106.00	5.80	31.70	16.40	0.00	19.80	31.70	27.50	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:30 AM	106.00	6.10	29.00	16.50	0.00	22.50	29.00	27.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:45 AM	117.00	4.50	29.50	15.90	0.00	21.50	29.50	27.40	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:00 AM	114.00	5.90	32.70	15.20	0.00	21.30	32.70	27.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:15 AM	96.00	4.70	31.80	16.20	0.00	22.20	31.80	28.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:30 AM	82.00	8.20	21.40	29.00	7.60	21.40	32.70	29.00	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:45 AM	101.00	4.90	36.80	16.10	0.00	20.20	36.80	29.50	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 10:00 AM	117.00	4.00	36.20	17.70	0.00	22.20	36.20	29.80	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 10:15 AM	77.00	6.40	21.50	30.70	9.20	21.50	37.80	30.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 10:30 AM	79.00	4.90	19.00	32.10	13.10	19.00	39.60	32.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 10:45 AM	75.00	6.00	18.80	28.50	9.70	18.80	33.60	28.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 11:00 AM	64.00	4.60	18.90	32.20	13.30	18.90	38.10	32.20	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 11:15 AM	63.00	6.00	18.00	31.40	13.40	18.00	39.80	31.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 11:30 AM	64.00	5.70	18.30	27.90	9.60	18.30	28.40	27.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 11:45 AM	47.00	5.50	17.40	27.60	10.20	17.40	30.30	27.60	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 12:00 PM	52.00	5.10	17.70	26.70	9.00	17.70	26.40	26.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 12:15 PM	46.00	4.40	18.50	27.90	9.40	18.50	25.70	27.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 12:30 PM	49.00	3.80	18.20	29.20	11.00	18.20	28.40	29.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 12:45 PM	70.00	2.10	18.60	30.10	11.50	18.60	0.00	30.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 1:00 PM	69.00	2.50	19.50	29.50	10.00	19.50	31.80	29.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 1:15 PM	61.00	2.60	22.90	34.60	11.70	22.90	34.20	34.60	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 1:30 PM	69.00	3.90	18.00	30.40	12.40	18.00	32.20	30.40	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 1:45 PM	55.00	5.20	19.50	30.20	10.70	19.50	29.10	30.20	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 2:00 PM	52.00	6.30	19.80	27.10	7.30	19.80	26.10	27.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 2:15 PM	51.00	7.30	18.70	29.60	10.90	18.70	28.70	29.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 2:30 PM	48.00	9.30	19.10	29.10	10.00	19.10	28.20	29.10	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 2:45 PM	50.00	7.40	36.80	27.60	0.00	36.80	25.10	27.60	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 3:00 PM	49.00	9.10	19.60	32.30	12.70	19.60	35.80	32.30	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 3:15 PM	60.00	7.20	23.70	30.70	7.00	23.70	32.70	30.70	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 3:30 PM	55.00	8.40	17.00	27.10	10.10	17.00	26.30	27.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 3:45 PM	49.00	9.90	17.20	27.10	9.90	17.20	25.60	27.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 4:00 PM	51.00	8.30	18.00	24.50	6.50	18.00	24.70	24.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 4:15 PM	40.00	10.10	0.00	24.50	0.00	0.00	24.70	24.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 4:30 PM	53.00	9.30	20.40	22.80	2.40	20.40	21.70	22.80	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 4:45 PM	55.00	8.80	17.40	23.50	6.10	17.40	23.40	23.50	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 5:00 PM	40.00	7.00	18.90	30.70	11.80	18.90	30.70	30.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 5:15 PM	49.00	7.70	17.70	26.70	9.00	17.70	26.90	26.70	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 5:30 PM	36.00	6.80	17.20	25.30	8.10	17.20	26.70	25.30	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 5:45 PM	45.00	6.10	17.20	22.90	5.70	17.20	20.10	22.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:00 PM	48.00	7.10	18.80	23.80	5.00	18.80	22.40	23.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:15 PM	38.00	6.90	22.20	27.50	5.30	22.20	27.00	27.50	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:30 PM	35.00	7.20	18.70	25.00	6.30	18.70	19.90	25.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 6:45 PM	28.00	6.80	14.60	20.00	5.40	14.60	18.20	20.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:00 PM	33.00	6.10	19.20	22.50	3.30	19.20	27.00	22.50	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:15 PM	22.00	6.50	15.90	22.90	7.00	15.90	24.10	22.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:30 PM	31.00	6.30	16.40	23.90	7.50	16.40	23.80	23.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 7:45 PM	31.00	6.00	16.50	25.70	9.20	16.50	22.10	25.70	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:00 PM	27.00	6.20	16.40	28.80	12.40	16.40	23.70	28.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:15 PM	18.00	7.40	0.00	29.70	0.00	0.00	20.70	29.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:30 PM	19.00	7.00	15.10	28.70	13.60	15.10	19.50	28.70	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 8:45 PM	17.00	7.00	14.20	23.50	9.30	14.20	18.50	23.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:00 PM	20.00	8.70	11.60	23.10	11.50	11.60	13.40	23.10	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:15 PM	19.00	8.10	10.80	19.90	9.10	10.80	9.60	19.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:30 PM	9.00	8.20	9.50	19.40	9.90	9.50	8.80	19.40	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 9:45 PM	5.00	9.20	9.50	20.30	10.80	9.50	8.60	20.30	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 10:00 PM	2.00	8.50	9.30	19.10	9.80	9.30	8.60	19.10	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/15 10:15 PM	357.00	6.30	9.10	8.20	0.00	9.20	8.20	18.20	9.10	0.00	0.00					







**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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		
4/27/15 7:45 AM	352.00	8.90	3.00	5.50	2.50	4.70	5.50	3.50	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:00 AM	345.00	7.00	3.00	4.80	1.80	4.20	4.80	3.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:15 AM	348.00	8.10	3.10	4.80	1.70	4.20	4.80	3.40	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:30 AM	351.00	7.80	3.20	4.60	1.40	0.00	4.60	3.10	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:45 AM	351.00	8.00	2.40	3.90	1.50	4.80	3.90	3.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:00 AM	349.00	8.20	2.20	3.90	1.70	4.10	3.90	3.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:15 AM	355.00	9.10	2.00	4.00	2.00	4.30	4.00	3.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:30 AM	352.00	10.20	1.90	3.90	2.00	4.20	3.90	2.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:45 AM	359.00	9.40	1.90	3.90	2.00	4.50	3.90	3.10	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:00 AM	354.00	9.00	2.20	3.60	1.40	0.00	3.60	2.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:15 AM	4.00	9.50	0.00	2.90	0.00	0.00	3.60	2.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:30 AM	350.00	10.10	2.40	3.70	1.30	0.00	3.70	2.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:45 AM	348.00	10.40	2.70	3.50	0.80	0.00	3.50	2.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:00 AM	353.00	9.90	2.60	3.50	0.90	4.30	3.50	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:15 AM	357.00	11.10	2.90	3.70	0.80	4.30	3.70	2.50	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:30 AM	352.00	10.90	3.10	3.70	0.60	4.80	3.70	2.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:45 AM	359.00	10.30	3.10	3.60	0.50	5.10	3.60	2.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 12:00 PM	7.00	11.30	5.00	2.60	0.00	5.00	3.50	2.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 12:15 PM	6.00	11.50	5.30	2.80	0.00	5.30	3.80	2.80	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 12:30 PM	9.00	11.90	0.00	2.80	0.00	0.00	4.60	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 12:45 PM	7.00	11.80	4.80	2.80	0.00	4.80	4.30	2.80	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 1:00 PM	7.00	10.00	0.00	2.60	0.00	0.00	5.00	2.60	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 1:15 PM	7.00	8.80	0.00	2.70	0.00	0.00	4.90	2.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 1:30 PM	18.00	9.70	4.90	2.80	0.00	4.90	4.60	2.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 1:45 PM	24.00	8.30	5.00	2.90	0.00	5.00	4.60	2.90	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 2:00 PM	20.00	7.40	0.00	2.90	0.00	0.00	4.30	2.90	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 2:15 PM	27.00	8.40	5.30	3.00	0.00	5.30	5.00	3.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 2:30 PM	28.00	7.20	5.70	2.90	0.00	5.70	4.40	2.90	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 2:45 PM	25.00	7.50	5.10	3.70	0.00	5.10	5.60	3.70	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 3:00 PM	22.00	7.60	0.00	4.30	0.00	0.00	3.90	4.30	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 3:15 PM	19.00	7.80	7.20	4.00	0.00	7.20	4.30	4.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 3:30 PM	21.00	8.10	5.70	4.10	0.00	5.70	4.30	4.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 3:45 PM	26.00	8.20	6.60	5.10	0.00	6.60	3.70	5.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 4:00 PM	23.00	7.40	4.80	4.80	0.00	4.80	4.00	4.80	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 4:15 PM	27.00	7.60	9.30	4.80	0.00	9.30	4.00	4.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 4:30 PM	18.00	8.60	8.20	3.80	0.00	8.20	5.30	3.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 4:45 PM	10.00	7.50	9.80	4.00	0.00	9.80	4.90	4.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 5:00 PM	22.00	7.20	9.80	4.50	0.00	9.80	3.90	4.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 5:15 PM	20.00	8.70	0.00	4.10	0.00	0.00	3.60	4.10	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 5:30 PM	9.00	8.80	0.00	4.40	0.00	0.00	4.70	4.40	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 5:45 PM	16.00	8.50	7.90	5.30	0.00	7.90	4.80	5.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 6:00 PM	10.00	6.70	6.30	6.10	0.00	6.30	5.10	6.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 6:15 PM	17.00	7.50	6.40	4.50	0.00	6.40	4.20	4.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 6:30 PM	17.00	8.00	6.70	4.70	0.00	6.70	5.20	4.70	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 6:45 PM	25.00	5.70	8.20	5.00	0.00	8.20	4.20	5.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 7:00 PM	42.00	5.30	6.90	6.00	0.00	6.90	5.70	6.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 7:15 PM	22.00	6.20	5.60	5.40	0.00	5.60	4.10	5.40	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 7:30 PM	22.00	6.70	8.10	4.80	0.00	8.10	4.40	4.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 7:45 PM	26.00	4.90	5.80	5.20	0.00	5.80	5.00	5.20	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:00 PM	24.00	4.50	6.00	6.00	0.00	6.00	4.30	6.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:15 PM	33.00	4.10	4.20	5.00	0.80	4.20	4.60	5.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:30 PM	51.00	2.90	6.00	6.80	0.80	6.00	5.10	6.80	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 8:45 PM	29.00	2.70	4.60	6.80	2.20	4.60	4.90	6.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:00 PM	34.00	4.10	5.00	6.50	1.50	5.00	5.50	6.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:15 PM	33.00	3.40	4.80	6.20	1.40	4.80	5.10	6.20	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:30 PM	47.00	4.20	4.20	5.60	1.40	4.20	5.30	5.60	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 9:45 PM	64.00	2.50	4.60	6.00	1.40	4.60	6.50	6.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:00 PM	56.00	2.10	5.30	6.20	0.90	5.30	5.50	6.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:15 PM	28.00	2.30	4.00	6.20	2.20	4.00	6.00	6.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:30 PM	348.00	1.10	2.90	5.70	2.80	0.00	5.70	6.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 10:45 PM	336.00	0.30	2.70	5.30	2.60	6.00	5.30	6.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:00 PM	347.00	2.60	2.60	6.00	3.40	5.30	6.00	6.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:15 PM	351.00	2.30	3.30	7.60	4.30	5.80	7.60	7.60	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:30 PM	354.00	2.30	2.80	7.60	4.80	5.90	7.60	7.50	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/27/15 11:45 PM	36.00	2.60	6.00	6.20	0.20	6.00	15.30	6.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/28/15 12:00 AM	0.00	1.20	6.00	6.50	0.50	6.00	9.60	6.50	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/28/15 12:15 AM	252.00	0.80	6.10	4.40	0.00	4.40	6.70	6.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/28/15 12:30 AM	353.00	1.30	2.20	6.20	4.00	4.40	6.20	6.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/28/15 12:45 AM	333.00	2.10	2.00	6.40	4.40	4.60	6.40	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/28/15 1:00 AM	329.00	1.50	2.30	6.00	3.70	4.90	6.00	6.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4/28/15 1:15 AM	351.00	1.30	2.60	7.00	4.40	0.00	7.00	6.00	2.60	0.00	0.00	0.00	0.00	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
4/28/15 9:00 AM	3.00	0.90	13.70	12.60	0.00	13.70	18.00	12.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 9:15 AM	33.00	2.30	0.00	11.90	0.00	0.00	18.10	11.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 9:30 AM	2.00	1.80	16.60	12.60	0.00	16.60	17.30	12.60	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 9:45 AM	17.00	1.90	0.00	12.60	0.00	0.00	18.30	12.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:00 AM	32.00	3.00	35.60	11.30	0.00	35.60	15.80	11.30	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:15 AM	31.00	3.70	9.20	9.10	0.00	9.20	10.00	9.10	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:30 AM	19.00	4.30	13.60	9.30	0.00	13.60	9.00	9.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:45 AM	3.00	5.00	11.70	10.00	0.00	11.70	10.70	10.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:00 AM	39.00	5.20	14.70	10.50	0.00	14.70	11.30	10.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:15 AM	16.00	5.70	11.30	10.70	0.00	11.30	12.70	10.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:30 AM	31.00	5.10	11.70	11.10	0.00	11.70	12.90	11.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:45 AM	31.00	5.00	0.00	10.80	0.00	0.00	14.30	10.80	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 12:00 PM	30.00	5.10	11.90	11.10	0.00	11.90	11.60	11.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 12:15 PM	31.00	5.90	11.10	12.70	1.60	11.10	11.60	12.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 12:30 PM	23.00	6.10	10.70	13.10	2.40	10.70	11.60	13.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 12:45 PM	40.00	6.20	12.50	12.60	0.10	12.50	12.80	12.60	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 1:00 PM	31.00	5.20	12.50	13.10	0.60	12.50	11.90	13.10	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 1:15 PM	26.00	5.80	10.30	12.10	1.80	10.30	9.60	12.10	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 1:30 PM	37.00	6.10	10.20	11.70	1.50	10.20	8.60	11.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 1:45 PM	34.00	6.30	0.00	12.80	0.00	0.00	9.90	12.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 2:00 PM	37.00	6.10	9.00	12.80	3.80	9.00	12.90	12.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 2:15 PM	29.00	5.40	0.00	12.00	0.00	0.00	8.40	12.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 2:30 PM	29.00	4.60	0.00	12.80	0.00	0.00	12.90	12.80	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 2:45 PM	53.00	5.00	8.70	10.60	1.90	8.70	9.80	10.60	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 3:00 PM	28.00	3.30	8.40	10.50	2.10	8.40	12.70	10.50	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 3:15 PM	24.00	4.90	11.80	9.50	0.00	11.80	12.60	9.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 3:30 PM	30.00	6.40	16.40	12.90	0.00	16.40	33.80	12.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 3:45 PM	35.00	6.10	16.70	12.20	0.00	16.70	13.40	12.20	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 4:00 PM	33.00	5.80	13.10	11.30	0.00	13.10	34.70	11.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 4:15 PM	36.00	4.70	15.30	16.50	1.20	15.30	38.50	16.50	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 4:30 PM	33.00	5.60	16.40	13.30	0.00	16.40	26.00	13.30	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 4:45 PM	33.00	5.50	14.10	12.80	0.00	14.10	18.20	12.80	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 5:00 PM	31.00	5.10	16.00	13.90	0.00	16.00	22.10	13.90	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 5:15 PM	35.00	5.60	20.70	12.90	0.00	20.70	13.60	12.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 5:30 PM	36.00	4.40	14.30	15.00	0.70	14.30	19.30	15.00	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 5:45 PM	30.00	3.90	16.90	14.60	0.00	16.90	16.80	14.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 6:00 PM	32.00	3.50	12.80	12.10	0.00	12.80	12.90	12.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 6:15 PM	37.00	3.00	11.10	11.40	0.30	11.10	10.90	11.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 6:30 PM	25.00	2.90	17.80	12.90	0.00	17.80	17.00	12.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 6:45 PM	4.00	2.90	11.00	14.10	3.10	11.00	21.10	14.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 7:00 PM	29.00	3.00	11.00	11.40	0.40	11.00	11.30	11.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 7:15 PM	5.00	3.40	9.60	10.80	1.20	9.60	12.00	10.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 7:30 PM	349.00	2.80	8.40	12.20	3.80	10.30	12.20	10.60	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 7:45 PM	346.00	2.10	6.20	19.60	13.40	10.40	19.60	11.00	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 8:00 PM	352.00	1.90	5.40	10.00	4.60	0.00	10.00	10.80	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 8:15 PM	349.00	2.80	5.30	8.80	3.50	9.50	8.80	10.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 8:30 PM	328.00	1.60	5.50	8.50	3.00	9.60	8.50	10.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 8:45 PM	332.00	1.50	6.10	8.40	2.30	9.60	8.40	10.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 9:00 PM	331.00	1.50	6.00	8.60	2.60	9.40	8.60	10.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 9:15 PM	355.00	1.50	6.80	11.10	4.30	9.10	11.10	10.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 9:30 PM	340.00	2.00	6.90	8.80	1.90	10.80	8.80	10.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 9:45 PM	351.00	1.90	7.10	9.30	2.20	9.20	9.30	10.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:00 PM	326.00	1.50	6.40	8.40	2.00	8.70	8.40	10.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:15 PM	319.00	1.30	5.50	9.10	3.60	7.50	9.10	10.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:30 PM	14.00	0.90	7.30	10.20	2.90	7.30	9.00	10.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 10:45 PM	35.00	2.10	7.50	10.20	2.70	7.50	9.50	10.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:00 PM	71.00	0.70	8.50	10.60	2.10	8.50	9.10	10.60	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:15 PM	227.00	0.60	10.70	7.50	0.00	7.50	10.50	10.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:30 PM	224.00	0.70	10.50	0.00	0.00	0.00	10.20	10.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/15 11:45 PM	293.00	0.90	5.10	9.80	4.70	7.70	9.80	10.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:00 AM	295.00	0.90	5.30	10.80	5.50	7.70	10.80	10.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:15 AM	314.00	1.60	6.00	10.20	4.20	7.20	10.20	9.80	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:30 AM	273.00	1.40	7.00	11.90	4.90	7.00	11.90	9.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:45 AM	237.00	0.60	9.60	7.20	0.00	7.20	11.40	9.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:00 AM	233.00	1.20	9.30	8.40	0.00	8.40	9.30	9.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:15 AM	263.00	1.30	9.20	8.40	0.00	8.40	9.10	9.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:30 AM	233.00	1.00	9.20	10.70	1.50	10.70	9.10	9.20	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:45 AM	206.00	1.10	9.30	6.50	0.00	6.50	8.50	9.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 2:00 AM	218.00	0.60	9.70	6.40	0.00	6.40	10.00	9.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 2:15 AM	255.00	1.20	10.10	6.40	0.00	6.40	10.50	10.10	4.40	0.0						



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/29/15 10:15 AM	43.00	4.10	9.20	10.50	1.30	9.20	7.10	10.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 10:30 AM	9.00	2.80	8.30	10.70	2.40	8.30	8.00	10.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 10:45 AM	66.00	2.40	9.30	10.10	0.80	9.30	10.90	10.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:00 AM	43.00	2.90	9.40	12.30	2.90	9.40	12.40	12.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:15 AM	348.00	5.70	6.30	7.60	1.30	0.00	7.60	8.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:30 AM	31.00	4.40	7.40	9.70	2.30	7.40	32.90	9.70	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:45 AM	16.00	4.50	7.40	9.10	1.70	7.40	12.10	9.10	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:00 PM	8.00	6.10	10.30	8.60	0.00	10.30	19.80	8.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:15 PM	25.00	5.80	9.20	8.00	0.00	9.20	16.70	8.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:30 PM	28.00	5.00	10.70	7.80	0.00	10.70	10.10	7.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 12:45 PM	15.00	3.70	8.90	7.70	0.00	8.90	12.10	7.70	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:00 PM	0.00	6.20	11.10	8.50	0.00	11.10	11.20	8.50	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:15 PM	32.00	5.10	11.00	8.30	0.00	11.00	11.30	8.30	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:30 PM	34.00	5.00	9.50	8.40	0.00	9.50	15.20	8.40	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 1:45 PM	24.00	3.30	9.90	8.40	0.00	9.90	11.30	8.40	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 2:00 PM	347.00	4.80	5.20	13.40	8.20	10.50	13.40	8.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 2:15 PM	344.00	3.10	5.60	14.40	8.80	9.70	14.40	8.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 2:30 PM	344.00	3.60	5.20	12.20	7.00	11.90	12.20	10.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 2:45 PM	349.00	4.90	5.00	38.70	33.70	10.10	38.70	10.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 3:00 PM	347.00	4.70	4.70	133.70	129.00	10.50	133.70	8.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 3:15 PM	349.00	3.90	5.30	10.40	5.10	10.50	10.40	8.40	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 3:30 PM	19.00	4.20	9.20	8.20	0.00	9.20	10.90	8.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 3:45 PM	30.00	6.40	11.00	8.60	0.00	11.00	10.70	8.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 4:00 PM	19.00	5.80	10.40	7.90	0.00	10.40	14.40	7.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 4:15 PM	16.00	6.50	9.90	7.90	0.00	9.90	9.60	7.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 4:30 PM	10.00	7.70	9.30	7.70	0.00	9.30	9.10	7.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 4:45 PM	0.00	7.50	8.70	7.10	0.00	8.70	8.50	7.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 5:00 PM	16.00	5.70	10.80	7.50	0.00	10.80	10.60	7.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 5:15 PM	11.00	6.00	9.90	7.70	0.00	9.90	10.00	7.70	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 5:30 PM	30.00	7.20	13.60	8.30	0.00	13.60	11.20	8.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 5:45 PM	20.00	4.90	14.80	9.20	0.00	14.80	20.60	9.20	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 6:00 PM	27.00	4.70	15.60	9.90	0.00	15.60	17.30	9.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 6:15 PM	23.00	5.60	13.40	10.50	0.00	13.40	17.20	10.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 6:30 PM	21.00	5.00	14.00	10.00	0.00	14.00	11.00	10.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 6:45 PM	32.00	4.90	14.00	13.30	0.00	14.00	11.30	13.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 7:00 PM	15.00	7.40	8.90	9.80	0.90	8.90	11.20	9.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 7:15 PM	21.00	5.40	10.20	10.90	0.70	10.20	14.90	10.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 7:30 PM	18.00	4.10	8.50	11.10	2.60	8.50	25.20	11.10	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 7:45 PM	21.00	5.60	10.70	12.90	2.20	10.70	15.40	12.90	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 8:00 PM	348.00	4.40	5.30	14.40	9.10	9.90	14.40	16.60	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 8:15 PM	340.00	2.90	7.90	10.60	2.70	10.70	10.60	16.30	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 8:30 PM	357.00	3.40	5.50	11.60	6.10	13.60	11.60	12.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 8:45 PM	42.00	4.40	0.00	11.50	0.00	0.00	12.80	11.50	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 9:00 PM	36.00	4.60	11.20	11.40	0.20	11.20	14.90	11.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 9:15 PM	320.00	1.40	5.20	12.10	6.90	14.50	12.10	11.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 9:30 PM	338.00	2.00	5.40	9.00	3.60	8.10	9.00	10.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 9:45 PM	330.00	2.50	5.50	9.20	3.70	8.30	9.20	10.30	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 10:00 PM	352.00	2.30	6.90	10.70	3.80	0.00	10.70	11.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 10:15 PM	352.00	2.30	6.90	10.60	3.70	8.30	10.60	11.10	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 10:30 PM	347.00	4.10	4.90	8.80	3.90	7.90	8.80	10.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 10:45 PM	347.00	4.60	4.90	9.00	4.10	7.90	9.00	9.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:00 PM	349.00	5.30	4.80	8.70	3.90	7.90	8.70	9.80	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:15 PM	348.00	5.60	4.10	8.20	4.10	7.80	8.20	9.90	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:30 PM	357.00	7.10	4.20	8.20	4.00	7.60	8.20	9.70	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/15 11:45 PM	359.00	7.40	4.30	8.10	3.80	8.10	8.10	9.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:00 AM	355.00	9.10	4.30	7.90	3.60	8.10	7.90	9.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:15 AM	354.00	8.30	3.80	7.30	3.50	6.80	7.30	8.90	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:30 AM	355.00	8.60	3.80	7.00	3.20	6.80	7.00	9.10	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:45 AM	354.00	8.50	3.60	7.00	3.40	0.00	7.00	8.50	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:00 AM	354.00	7.50	3.70	7.20	3.50	6.60	7.20	8.30	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:15 AM	359.00	7.30	4.10	7.10	3.00	6.80	7.10	8.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:30 AM	356.00	7.20	4.20	6.50	2.30	6.50	6.50	7.90	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:45 AM	359.00	7.40	4.50	7.00	2.50	6.30	7.00	7.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:00 AM	357.00	6.30	4.90	7.10	2.20	6.30	7.10	7.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:15 AM	357.00	7.90	5.40	7.00	1.60	6.20	7.00	7.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:30 AM	0.00	9.50	6.20	6.90	0.70	6.20	7.90	6.90	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:45 AM	6.00	6.70	6.40	6.90	0.50	6.40	10.70	6.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:00 AM	359.00	8.40	3.60	8.40	4.80	6.40	8.40	7.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:15 AM	4.00	10.30	6.40	6.80	0.40	6.40	7.40	6.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:30 AM	8.00	10.60	6.30	6.70	0.40	6.30	8.30	6.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:45 AM	11.00	8.30														



**US Army Corps  
of Engineers®**

Indiana Harbor and Canal  
Confined Disposal Facility  
Real-Time Air Monitoring Data  
April 2015

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
4/30/15 11:30 AM	12.00	8.30	9.30	4.60	0.00	9.30	5.50	4.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 11:45 AM	7.00	8.60	10.00	4.70	0.00	10.00	10.90	4.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:00 PM	7.00	9.60	10.20	5.40	0.00	10.20	9.30	5.40	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:15 PM	8.00	12.60	9.90	5.10	0.00	9.90	4.40	5.10	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:30 PM	6.00	10.60	9.40	5.50	0.00	9.40	7.10	5.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 12:45 PM	4.00	12.10	8.80	5.00	0.00	8.80	16.70	5.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:00 PM	7.00	10.00	8.30	5.00	0.00	8.30	7.10	5.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:15 PM	10.00	10.30	7.70	4.50	0.00	7.70	6.40	4.50	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:30 PM	6.00	11.10	7.70	6.90	0.00	7.70	6.90	6.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 1:45 PM	4.00	11.60	-0.30	4.70	5.00	-0.30	8.80	4.70	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:00 PM	4.00	8.30	2.50	4.50	2.00	2.50	8.20	4.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:15 PM	352.00	8.10	0.20	4.00	3.80	1.20	4.00	4.60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:30 PM	5.00	9.20	0.70	4.30	3.60	0.70	3.30	4.30	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 2:45 PM	355.00	9.20	0.70	27.10	26.40	0.50	27.10	0.40	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:00 PM	354.00	10.60	0.90	4.00	3.10	0.50	4.00	0.50	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:15 PM	351.00	8.80	0.50	6.10	5.60	0.50	6.10	0.60	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:30 PM	352.00	8.90	0.40	5.70	5.30	0.30	5.70	0.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 3:45 PM	3.00	9.40	1.40	0.20	0.00	1.40	3.50	0.20	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 4:00 PM	359.00	8.70	0.40	2.70	2.30	0.30	2.70	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 4:15 PM	351.00	7.60	0.40	3.10	2.70	0.10	3.10	0.30	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 4:30 PM	348.00	7.70	0.60	3.00	2.40	0.00	3.00	0.50	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 4:45 PM	7.00	8.80	0.40	0.40	0.00	0.40	2.70	0.40	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 5:00 PM	358.00	8.40	0.30	2.40	2.10	0.10	2.40	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 5:15 PM	7.00	7.70	0.00	0.30	0.30	0.00	2.20	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 5:30 PM	358.00	6.80	0.20	1.90	1.70	0.00	1.90	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 5:45 PM	16.00	6.90	0.10	0.20	0.10	0.10	2.10	0.20	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 6:00 PM	357.00	6.00	0.30	4.70	4.40	0.50	4.70	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 6:15 PM	353.00	6.30	0.20	4.10	3.90	0.10	4.10	0.30	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 6:30 PM	356.00	5.50	0.20	5.40	5.20	0.10	5.40	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 6:45 PM	349.00	5.70	0.70	9.10	8.40	3.40	9.10	0.40	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 7:00 PM	345.00	5.00	0.30	3.20	2.90	1.20	3.20	0.70	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 7:15 PM	2.00	6.20	0.10	0.40	0.30	0.10	4.20	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 7:30 PM	353.00	7.70	0.20	4.70	4.50	0.10	4.70	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 7:45 PM	355.00	7.50	0.50	2.90	2.40	0.20	2.90	0.40	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 8:00 PM	2.00	5.90	0.10	0.60	0.50	0.10	4.40	0.60	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 8:15 PM	347.00	4.80	0.50	3.30	2.80	0.30	3.30	0.40	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 8:30 PM	325.00	3.30	0.60	17.60	17.00	1.70	17.60	0.70	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 8:45 PM	347.00	3.00	0.40	4.00	3.60	1.70	4.00	0.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 9:00 PM	354.00	4.70	0.40	3.20	2.80	0.10	3.20	0.70	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 9:15 PM	344.00	4.30	0.30	2.90	2.60	0.20	2.90	0.40	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 9:30 PM	347.00	5.00	0.30	3.00	2.70	0.00	3.00	0.40	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 9:45 PM	352.00	4.60	0.40	3.10	2.70	0.10	3.10	0.60	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 10:00 PM	346.00	4.40	0.40	2.70	2.30	0.00	2.70	0.60	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 10:15 PM	348.00	3.70	0.30	2.20	1.90	0.00	2.20	0.50	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 10:30 PM	354.00	5.00	0.20	2.50	2.30	0.00	2.50	0.50	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 10:45 PM	350.00	5.30	0.10	1.80	1.70	0.00	1.80	0.50	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 11:00 PM	351.00	4.90	0.20	1.60	1.40	0.00	1.60	0.50	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 11:15 PM	348.00	5.00	0.20	1.80	1.60	0.00	1.80	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 11:30 PM	349.00	3.70	0.40	1.40	1.00	-0.20	1.40	0.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/15 11:45 PM	356.00	4.30	0.20	1.90	1.70	-0.10	1.90	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# IHC CDF Dredge Project : Air Monitoring Alarm Response Log

**Air Monitoring Station:**       M1             M2             M3             M4             Dock

**Air Monitoring Instrument:**

Cerex Unit (Naphthalene)             Thermo Unit (Particles)             PID Monitor

Date & Time of alarm: 1/4/2015 4:45-5:30pm            Email sent to site Technician?      ((Yes) or No)

Technician responded to the alarm; Scott Peterson

1. Was dredging occurring at the time of the alarm?            ( Yes or (No) )

2. Alarm caused by:

- |                                     |                                         |
|-------------------------------------|-----------------------------------------|
| <input type="checkbox"/>            | Loss of Power                           |
| <input type="checkbox"/>            | Loss of Radio Communication             |
| <input type="checkbox"/>            | Out of Calibration                      |
| <input type="checkbox"/>            | UV Alignment                            |
| <input type="checkbox"/>            | Blockage in Air Tube                    |
| <input type="checkbox"/>            | Air Quality                             |
| <input checked="" type="checkbox"/> | Other: weather, cold and windy, snowing |

3. Corrective Actions taken?            ( Yes or (No) )

4. Dredging suspended?            ( Yes or (No) )

5. Alarm logged in air monitoring action spreadsheet?            ((Yes) or No )

***Description of Action Taken:***

A) No problems were found, snow blowing on top of the dike.



