



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-1-12 to 12-7-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
12/1/12 12:00 AM	120.00	0.70	50.00	43.30	0.00	41.20	50.00	64.00	43.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 12:15 AM	173.00	1.10	50.70	50.20	0.00	45.80	50.70	62.10	50.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 12:30 AM	147.00	1.00	52.30	55.70	3.40	48.30	52.30	60.20	55.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 12:45 AM	157.00	2.50	49.30	52.00	2.70	43.30	49.30	59.50	52.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:00 AM	152.00	1.90	50.20	46.00	0.00	41.80	50.20	58.60	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:15 AM	177.00	2.20	51.00	43.20	0.00	39.00	51.00	56.60	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:30 AM	166.00	1.80	57.30	52.40	0.00	42.20	57.30	62.10	52.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:45 AM	160.00	1.70	52.70	50.20	0.00	43.40	52.70	58.10	50.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:00 AM	148.00	1.60	53.90	47.40	0.00	50.00	53.90	57.10	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:15 AM	165.00	2.60	51.50	47.00	0.00	54.00	51.50	56.10	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:30 AM	159.00	2.80	53.50	63.70	10.20	44.90	53.50	55.40	63.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:45 AM	157.00	2.50	64.00	64.90	0.90	48.90	64.00	53.10	64.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:00 AM	169.00	2.00	63.70	74.90	11.20	53.00	63.70	53.30	74.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:15 AM	177.00	2.00	50.40	47.40	0.00	45.80	50.40	52.40	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:30 AM	181.00	2.70	50.10	48.60	0.00	48.60	44.50	50.10	47.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:45 AM	178.00	2.70	42.50	42.10	0.00	42.30	42.50	49.00	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:00 AM	185.00	2.30	48.60	39.70	0.00	39.70	43.40	48.60	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:15 AM	184.00	3.00	48.00	39.10	0.00	39.10	42.10	48.00	40.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:30 AM	174.00	3.10	41.60	40.10	0.00	39.20	41.60	46.60	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:45 AM	168.00	3.30	44.60	39.50	0.00	40.50	44.60	46.60	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 5:00 AM	173.00	2.80	39.90	40.20	0.30	39.80	39.90	45.90	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 5:15 AM	174.00	2.70	41.10	38.90	0.00	42.60	41.10	45.90	38.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 5:30 AM	167.00	2.50	48.20	45.70	0.00	46.40	48.20	45.60	45.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 5:45 AM	183.00	3.20	45.80	45.80	0.00	45.80	44.30	45.80	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 6:00 AM	170.00	4.00	41.30	39.00	0.00	45.90	41.30	46.10	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 6:15 AM	185.00	3.50	46.50	42.10	0.00	42.10	41.90	46.50	39.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 6:30 AM	173.00	3.00	41.40	40.30	0.00	45.80	41.40	46.50	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 6:45 AM	172.00	3.20	43.30	40.80	0.00	46.20	43.30	46.60	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 7:00 AM	188.00	2.50	46.80	45.80	0.00	45.80	43.50	46.80	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 7:15 AM	178.00	2.20	46.20	42.90	0.00	47.80	46.20	46.60	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 7:30 AM	177.00	3.10	48.10	43.80	0.00	47.70	48.10	47.30	43.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 7:45 AM	178.00	3.80	48.60	46.40	0.00	51.50	48.60	48.30	46.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 8:00 AM	168.00	3.70	48.60	47.20	0.00	55.00	48.60	49.10	47.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 8:15 AM	169.00	3.20	46.50	47.10	0.60	55.80	46.50	48.70	47.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 8:30 AM	182.00	2.90	48.50	49.50	1.00	49.50	46.90	48.50	46.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 8:45 AM	173.00	4.00	48.30	45.60	0.00	0.00	48.30	48.70	45.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 9:00 AM	181.00	4.30	47.90	40.10	0.00	40.10	46.50	47.90	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 9:30 AM	185.00	3.70	46.80	38.10	0.00	38.10	45.60	46.80	44.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 9:45 AM	192.00	4.90	46.60	36.30	0.00	36.30	46.10	46.60	43.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 10:00 AM	194.00	4.70	46.60	33.30	0.00	33.30	45.60	46.60	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 10:15 AM	192.00	4.20	46.40	32.00	0.00	32.00	44.90	46.40	42.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 10:30 AM	203.00	4.30	46.10	29.00	0.00	29.00	44.20	46.10	42.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 10:45 AM	194.00	5.00	45.30	28.40	0.00	28.40	43.20	45.30	39.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 11:00 AM	211.00	6.70	46.30	27.70	0.00	27.70	42.20	46.30	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 11:15 AM	204.00	6.20	44.50	28.00	0.00	28.00	40.80	44.50	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 11:30 AM	200.00	5.20	43.70	27.70	0.00	27.70	41.00	43.70	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 11:45 AM	203.00	5.50	44.80	27.60	0.00	27.60	40.40	44.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 12:00 PM	205.00	5.80	44.40	26.80	0.00	26.80	39.80	44.40	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 12:15 PM	208.00	5.80	45.00	24.40	0.00	24.40	39.90	45.00	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 12:30 PM	222.00	7.30	45.20	21.30	0.00	21.30	46.80	45.20	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 12:45 PM	194.00	5.90	41.20	20.40	0.00	20.40	41.60	41.20	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:00 PM	205.00	5.60	36.90	18.10	0.00	18.10	39.70	36.90	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:15 PM	199.00	7.30	33.20	18.40	0.00	18.40	42.40	33.20	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:30 PM	198.00	6.70	32.50	18.30	0.00	18.30	43.20	32.50	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 1:45 PM	202.00	4.60	30.00	20.00	0.00	20.00	45.70	30.00	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:00 PM	200.00	5.50	29.40	20.40	0.00	20.40	47.20	29.40	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:15 PM	202.00	5.70	29.60	18.70	0.00	18.70	45.10	29.60	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:30 PM	205.00	5.80	28.80	17.40	0.00	17.40	40.70	28.80	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 2:45 PM	205.00	6.30	27.70	15.80	0.00	15.80	38.20	27.70	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:00 PM	198.00	4.40	26.90	14.50	0.00	14.50	34.60	26.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:15 PM	199.00	5.20	26.70	14.50	0.00	14.50	30.50	26.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:30 PM	200.00	8.20	26.20	14.20	0.00	14.20	28.10	26.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 3:45 PM	194.00	5.80	26.20	13.20	0.00	13.20	26.70	26.20	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:00 PM	205.00	5.50	26.70	12.60	0.00	12.60	26.50	26.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:15 PM	188.00	3.40	26.80	12.20	0.00	12.20	25.90	26.80	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:30 PM	189.00	3.80	27.60	12.30	0.00	12.30	25.90	27.60	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 4:45 PM	190.00	4.10	28.30	12.90	0.00	12.90	28.20	28.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 5:00 PM	190.00	3.30	28.60	12.70	0.00	12.70	25.60	28.60	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/1/12 5:15 PM	182.00	4.30	26.70	11.2												



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12-1-12 to 12-7-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/2/12 11:45 PM	198.00	0.90	54.10	41.30	0.00	41.30	49.50	54.10	49.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:00 AM	182.00	2.00	58.80	49.40	0.00	49.40	60.60	58.80	55.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:15 AM	175.00	1.80	55.00	55.70	0.70	42.90	55.00	55.20	55.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:30 AM	213.00	1.40	60.10	39.80	0.00	39.80	98.30	60.10	58.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:45 AM	210.00	0.90	154.50	22.20	0.00	22.20	137.40	154.50	147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:00 AM	205.00	1.40	95.30	20.10	0.00	20.10	147.60	95.30	78.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:15 AM	198.00	2.20	53.30	19.40	0.00	19.40	190.20	53.30	53.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:30 AM	200.00	1.20	39.80	18.20	0.00	18.20	123.40	39.80	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:45 AM	198.00	2.10	32.40	18.20	0.00	18.20	92.30	32.40	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:00 AM	197.00	2.30	32.90	18.90	0.00	18.90	109.30	32.90	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:15 AM	179.00	2.60	76.60	20.30	0.00	16.70	76.60	29.70	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:30 AM	171.00	1.60	44.70	27.70	0.00	14.40	44.70	29.80	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:45 AM	177.00	2.10	32.70	21.40	0.00	15.20	32.70	28.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:00 AM	183.00	2.20	26.30	16.20	0.00	16.20	27.90	26.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:15 AM	187.00	2.20	25.70	16.30	0.00	16.30	32.80	25.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:30 AM	190.00	2.60	23.50	15.00	0.00	15.00	50.60	23.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:45 AM	185.00	3.10	21.90	14.90	0.00	14.90	62.40	21.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 4:00 AM	200.00	3.90	19.50	11.00	0.00	11.00	45.60	19.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 4:15 AM	184.00	4.00	16.40	9.30	0.00	9.30	34.50	16.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 4:30 AM	188.00	3.50	14.00	8.80	0.00	8.80	26.40	14.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 4:45 AM	180.00	3.40	13.10	7.80	0.00	7.80	25.30	13.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 5:00 AM	177.00	3.80	23.80	4.00	0.00	7.20	23.80	12.90	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 5:15 AM	181.00	4.00	13.20	8.00	0.00	8.00	18.20	13.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 5:30 AM	170.00	4.00	18.20	4.60	0.00	8.30	18.20	13.50	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 5:45 AM	181.00	3.40	14.20	8.90	0.00	8.90	19.10	14.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 6:00 AM	175.00	3.70	19.50	5.90	0.00	10.50	19.50	14.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 6:15 AM	175.00	4.90	18.60	5.90	0.00	10.30	18.60	13.50	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 6:30 AM	174.00	4.30	16.30	5.50	0.00	8.90	16.30	12.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 6:45 AM	179.00	4.60	15.60	5.00	0.00	8.20	15.60	11.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 7:00 AM	186.00	5.00	11.00	8.30	0.00	8.30	16.00	11.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 7:15 AM	187.00	3.40	10.60	7.90	0.00	7.90	17.00	10.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 7:30 AM	183.00	5.10	10.70	8.10	0.00	8.10	17.20	10.70	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 7:45 AM	180.00	4.90	11.00	8.90	0.00	8.90	13.70	11.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 8:00 AM	182.00	4.60	11.40	8.60	0.00	8.60	11.60	11.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 8:15 AM	181.00	5.80	12.10	8.30	0.00	8.30	10.20	12.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 8:30 AM	188.00	3.80	12.70	8.80	0.00	8.80	9.00	12.70	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 8:45 AM	188.00	4.70	12.60	8.80	0.00	8.80	8.30	12.60	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 9:00 AM	191.00	4.40	12.50	8.60	0.00	8.60	8.10	12.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 9:15 AM	188.00	5.00	12.20	9.10	0.00	9.10	8.80	12.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 9:30 AM	186.00	4.90	12.60	10.80	0.00	10.80	10.90	12.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 9:45 AM	185.00	4.40	12.60	12.80	0.20	12.80	12.30	12.60	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 10:00 AM	194.00	4.50	13.80	15.40	1.60	15.40	13.90	13.80	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 10:15 AM	201.00	5.60	14.60	16.20	1.60	16.20	14.20	14.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 10:30 AM	208.00	6.20	15.80	15.70	0.00	15.70	12.90	15.80	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 10:45 AM	200.00	5.70	16.20	15.70	0.00	15.70	12.40	16.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 11:00 AM	203.00	5.10	16.20	14.80	0.00	14.80	11.10	16.20	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 11:15 AM	188.00	5.30	15.50	13.70	0.00	13.70	10.10	15.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 11:30 AM	198.00	7.10	13.50	12.20	0.00	12.20	9.10	13.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 11:45 AM	205.00	7.30	12.90	11.70	0.00	11.70	8.90	12.90	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:00 PM	212.00	6.10	12.80	11.30	0.00	11.30	8.80	12.80	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:15 PM	203.00	6.30	13.80	11.70	0.00	11.70	8.90	13.80	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:30 PM	192.00	5.50	14.40	11.40	0.00	11.40	8.80	14.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 12:45 PM	194.00	7.40	14.90	11.20	0.00	11.20	8.70	14.90	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:00 PM	187.00	7.70	15.00	11.00	0.00	11.00	8.50	15.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:15 PM	196.00	7.80	14.70	10.70	0.00	10.70	8.40	14.70	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:30 PM	187.00	4.20	14.40	10.30	0.00	10.30	8.40	14.40	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 1:45 PM	189.00	4.60	13.00	10.00	0.00	10.00	8.00	13.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:00 PM	186.00	6.20	11.80	9.70	0.00	9.70	7.20	11.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:15 PM	193.00	7.90	11.10	8.80	0.00	8.80	6.10	11.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:30 PM	200.00	10.80	9.90	7.10	0.00	7.10	4.80	9.90	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 2:45 PM	202.00	8.90	10.00	7.00	0.00	7.00	4.50	10.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:00 PM	195.00	7.30	10.10	7.40	0.00	7.40	4.40	10.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:15 PM	209.00	12.70	10.60	7.40	0.00	7.40	4.10	10.60	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:30 PM	206.00	7.70	11.20	7.60	0.00	7.60	4.10	11.20	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 3:45 PM	198.00	11.00	11.50	7.40	0.00	7.40	3.80	11.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/3/12 4:00 PM	201.00	7.30	12.00	7.60	0.00	7.60	3.60	12.00	3.60	0.00</								



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-1-12 to 12-7-12

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
12/5/12 11:00 PM	160.00	3.40	15.90	18.50	2.60	32.00	15.90	15.90	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/5/12 11:15 PM	165.00	3.40	14.50	19.20	4.70	24.40	14.50	13.70	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/5/12 11:30 PM	174.00	3.20	14.00	17.30	3.30	20.40	14.00	13.10	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/5/12 11:45 PM	162.00	5.10	17.90	17.90	0.00	14.20	17.90	12.70	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:00 AM	173.00	4.60	15.70	22.70	7.00	13.20	15.70	11.80	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:15 AM	174.00	3.80	19.40	19.30	0.00	12.30	19.40	14.00	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:30 AM	164.00	4.00	22.00	20.90	0.00	13.10	22.00	13.10	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:45 AM	163.00	4.70	19.40	19.80	0.40	14.20	19.40	14.40	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:00 AM	175.00	4.80	18.80	18.60	0.00	39.00	18.80	15.10	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:15 AM	172.00	3.10	19.00	18.40	0.00	41.10	19.00	11.60	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:30 AM	169.00	4.00	17.40	17.40	0.00	62.80	17.40	12.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:45 AM	176.00	3.90	16.70	17.50	0.80	59.50	16.70	11.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:00 AM	172.00	3.50	15.40	16.30	0.90	57.90	15.40	10.40	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:15 AM	169.00	4.10	14.30	15.40	1.10	57.00	14.30	9.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:30 AM	172.00	3.30	13.10	14.10	1.00	54.00	13.10	9.20	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:45 AM	171.00	3.90	16.40	16.70	0.30	49.60	16.40	9.90	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:00 AM	181.00	3.70	9.70	57.40	47.70	57.40	13.20	9.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:15 AM	171.00	4.50	12.50	13.50	1.00	54.30	12.50	9.50	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:30 AM	169.00	4.30	11.50	13.50	2.00	50.90	11.50	9.60	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:45 AM	161.00	4.50	14.30	15.80	1.50	44.70	14.30	9.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 4:00 AM	158.00	5.30	12.40	13.10	0.70	54.90	12.40	11.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 4:15 AM	168.00	3.90	12.00	14.50	2.50	51.40	12.00	12.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 4:30 AM	165.00	4.60	12.60	14.80	2.20	46.20	12.60	12.80	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 4:45 AM	168.00	5.10	12.00	14.80	2.80	43.80	12.00	13.20	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 5:00 AM	162.00	4.40	11.40	13.60	2.20	47.70	11.40	12.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 5:15 AM	172.00	3.50	14.50	13.80	0.00	43.10	14.50	11.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 5:30 AM	184.00	4.30	11.00	60.80	49.80	60.80	13.00	11.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 5:45 AM	181.00	5.10	11.40	46.60	35.20	46.60	13.00	11.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 6:00 AM	183.00	5.80	12.10	31.00	18.90	31.00	12.40	12.10	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 6:15 AM	183.00	6.40	12.90	24.50	11.60	24.50	14.50	12.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 6:30 AM	186.00	5.20	13.00	23.60	10.60	23.60	14.00	13.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 6:45 AM	183.00	6.20	13.60	24.70	11.10	24.70	14.60	13.60	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 7:00 AM	182.00	4.00	13.60	30.70	17.10	30.70	15.40	13.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 7:15 AM	189.00	5.00	14.50	30.00	15.50	30.00	15.40	14.50	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 7:30 AM	176.00	5.50	15.60	17.40	1.80	34.30	15.60	14.90	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 7:45 AM	187.00	4.80	15.20	33.00	17.80	33.00	17.00	15.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 8:00 AM	186.00	4.70	15.60	33.40	17.80	33.40	17.10	15.60	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 8:15 AM	191.00	4.10	16.40	40.30	23.90	40.30	20.10	16.40	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 8:30 AM	186.00	4.30	17.00	39.10	22.10	39.10	17.80	17.00	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 8:45 AM	178.00	3.30	21.40	19.80	0.00	42.10	21.40	16.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 9:00 AM	178.00	4.00	18.50	20.00	1.50	49.90	18.50	17.30	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 9:15 AM	172.00	4.40	20.30	19.40	0.00	50.40	20.30	17.20	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 9:30 AM	171.00	4.90	19.60	20.10	0.50	53.60	19.60	17.40	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 9:45 AM	189.00	4.70	17.70	60.80	43.10	60.80	18.80	17.70	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 10:00 AM	177.00	4.30	22.60	19.80	0.00	59.30	22.60	17.80	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 10:15 AM	194.00	4.90	16.80	64.50	47.70	64.50	35.70	16.80	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 10:30 AM	196.00	4.90	17.00	64.20	47.20	64.20	30.30	17.00	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 10:45 AM	199.00	4.00	17.90	63.20	45.30	63.20	23.40	17.90	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 11:00 AM	204.00	5.50	16.80	66.10	49.30	66.10	24.80	16.80	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 11:15 AM	193.00	4.90	16.30	64.20	47.90	64.20	23.80	16.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 11:30 AM	185.00	4.20	16.50	63.50	47.00	63.50	23.20	16.50	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 11:45 AM	224.00	4.60	16.60	65.10	48.50	65.10	22.90	16.60	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:00 PM	198.00	5.00	15.70	57.30	41.60	57.30	19.80	15.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:15 PM	205.00	6.70	15.50	55.90	40.40	55.90	24.10	15.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:30 PM	209.00	5.90	15.50	58.10	42.60	58.10	18.80	15.50	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 12:45 PM	200.00	3.80	15.70	48.90	33.20	48.90	18.00	15.70	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:00 PM	202.00	6.10	14.90	44.40	29.50	44.40	18.30	14.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:15 PM	176.00	4.90	16.20	15.80	0.00	26.20	16.20	14.80	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:30 PM	208.00	4.70	15.20	21.20	6.00	21.20	16.70	15.20	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 1:45 PM	197.00	4.40	15.40	29.70	14.30	29.70	18.40	15.40	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:00 PM	208.00	3.50	15.90	33.80	17.90	33.80	17.30	15.90	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:15 PM	197.00	3.80	15.30	34.40	19.10	34.40	16.00	15.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:30 PM	205.00	4.30	15.20	32.30	17.10	32.30	15.50	15.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 2:45 PM	202.00	4.50	16.70	36.60	19.90	36.60	19.20	16.70	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:00 PM	215.00	4.20	15.20	31.60	16.40	31.60	16.30	15.20	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:15 PM	207.00	4.70	18.00	34.00	16.00	34.00	15.50	18.00	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:30 PM	188.00	4.50	16.50	24.10	7.60	24.10	19.30	16.50	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 3:45 PM	186.00	4.30	17.40	15.70	0.00	15.70	18.40	17.40	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/12 4:00 PM	177.00	3.9														



**US Army Corps
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12-1-12 to 12-7-12

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/6/12 10:45 PM	185.00	5.10	23.40	13.70	0.00	13.70	25.10	23.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/6/12 11:00 PM	279.00	3.30	17.90	25.20	7.30	14.50	25.20	23.20	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/6/12 11:15 PM	254.00	2.70	22.30	14.30	0.00	14.30	23.40	22.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/6/12 11:30 PM	269.00	1.80	23.20	14.50	0.00	14.50	22.70	23.20	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/6/12 11:45 PM	208.00	1.80	21.60	14.90	0.00	14.90	22.70	21.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:00 AM	223.00	1.90	22.60	14.50	0.00	14.50	22.40	22.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:15 AM	216.00	2.30	22.20	14.10	0.00	14.10	21.40	22.20	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:30 AM	225.00	2.60	22.20	13.70	0.00	13.70	21.40	22.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:45 AM	233.00	2.50	23.00	13.90	0.00	13.90	21.60	23.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:00 AM	225.00	3.40	23.70	14.50	0.00	14.50	21.70	23.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:15 AM	217.00	3.20	23.60	14.00	0.00	14.00	21.30	23.60	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:30 AM	210.00	2.30	23.70	14.40	0.00	14.40	21.20	23.70	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:45 AM	213.00	1.90	24.70	14.50	0.00	14.50	22.40	24.70	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:00 AM	215.00	2.50	25.00	14.80	0.00	14.80	23.70	25.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:15 AM	229.00	2.90	25.70	15.00	0.00	15.00	23.10	25.70	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:30 AM	247.00	2.50	27.80	16.10	0.00	16.10	29.20	27.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:45 AM	287.00	1.90	18.20	26.20	8.00	16.10	26.20	27.80	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 3:00 AM	275.00	2.10	16.30	24.40	8.10	16.60	24.40	28.60	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 3:15 AM	275.00	2.10	16.20	25.50	9.30	16.30	25.50	27.50	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 3:30 AM	264.00	2.80	24.60	17.00	0.00	17.00	26.80	24.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 3:45 AM	276.00	2.50	16.00	28.50	12.50	15.00	28.50	18.90	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 4:00 AM	250.00	2.00	16.00	14.00	0.00	14.00	29.60	16.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 4:15 AM	242.00	1.60	15.90	13.70	0.00	13.70	29.50	15.90	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 4:30 AM	90.00	1.50	30.30	14.70	0.00	13.60	30.30	14.80	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 4:45 AM	245.00	1.10	15.30	15.00	0.00	15.00	30.90	15.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 5:00 AM	244.00	0.50	16.10	15.70	0.00	15.70	31.80	16.10	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 5:15 AM	255.00	0.70	17.40	16.40	0.00	16.40	32.00	17.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 5:30 AM	236.00	0.80	18.50	16.60	0.00	16.60	31.30	18.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 5:45 AM	229.00	1.50	20.00	16.10	0.00	16.10	30.80	20.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 6:00 AM	232.00	1.10	22.00	15.20	0.00	15.20	30.60	22.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 6:15 AM	263.00	0.10	23.20	15.30	0.00	15.30	31.20	23.20	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 6:30 AM	311.00	0.40	16.80	30.60	13.80	16.00	30.60	22.90	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 6:45 AM	245.00	1.60	24.00	15.50	0.00	15.50	29.70	24.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 7:00 AM	271.00	1.60	18.00	30.90	12.90	15.50	30.90	25.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 7:15 AM	248.00	2.10	27.40	16.70	0.00	16.70	29.70	27.40	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 7:30 AM	252.00	1.40	28.50	16.20	0.00	16.20	30.70	28.50	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 7:45 AM	245.00	1.60	26.10	16.10	0.00	16.10	30.10	26.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 8:00 AM	277.00	1.50	19.00	30.10	11.10	15.10	30.10	24.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 8:15 AM	296.00	1.50	17.90	28.80	10.90	15.20	28.80	21.70	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 8:30 AM	305.00	1.70	16.10	29.80	13.70	15.50	29.80	21.90	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 8:45 AM	225.00	0.70	21.60	17.30	0.00	17.30	32.50	21.60	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 9:00 AM	314.00	1.20	17.10	30.80	13.70	16.90	30.80	21.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 9:15 AM	48.00	0.90	15.40	24.10	8.70	15.40	31.10	24.10	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 9:30 AM	17.00	4.10	14.90	22.10	7.20	14.90	27.00	22.10	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 9:45 AM	22.00	2.70	14.90	22.40	7.50	14.90	27.00	22.40	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 10:00 AM	7.00	5.00	13.20	20.60	7.40	13.20	22.70	20.60	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 10:15 AM	19.00	5.60	13.30	19.00	5.70	13.30	21.60	19.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 10:30 AM	31.00	4.30	13.80	17.30	3.50	13.80	19.40	17.30	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 10:45 AM	32.00	5.00	13.20	16.10	2.90	13.20	17.20	16.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 11:00 AM	40.00	4.40	14.50	18.80	4.30	14.50	16.80	18.80	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 11:15 AM	40.00	6.40	14.50	20.70	6.20	14.50	17.40	20.70	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 11:30 AM	39.00	6.00	16.60	21.50	4.90	16.60	17.70	21.50	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 11:45 AM	31.00	6.70	15.00	16.40	1.40	15.00	19.00	16.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:00 PM	38.00	6.50	10.40	11.70	1.30	10.40	14.50	11.70	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:15 PM	33.00	6.10	9.90	11.70	1.80	9.90	10.30	11.70	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:30 PM	37.00	5.30	9.40	9.90	0.50	9.40	9.20	9.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 12:45 PM	35.00	5.70	8.70	8.90	0.20	8.70	8.50	8.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:00 PM	32.00	5.10	9.70	9.10	0.00	9.70	8.90	9.10	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:15 PM	31.00	4.70	10.20	11.00	0.80	10.20	10.80	11.00	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:30 PM	34.00	4.50	9.80	11.10	1.30	9.80	10.10	11.10	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 1:45 PM	28.00	5.00	7.50	9.50	2.00	7.50	8.40	9.50	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:00 PM	37.00	5.40	8.50	9.60	1.10	8.50	8.40	9.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:15 PM	36.00	3.90	9.30	12.00	2.70	9.30	10.10	12.00	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:30 PM	45.00	4.80	9.90	12.40	2.50	9.90	11.20	12.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 2:45 PM	32.00	5.00	10.20	12.90	2.70	10.20	10.80	12.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/7/12 3:00 PM	29.00	4.70																



**US Army Corps
of Engineers**

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
12/7/12 10:30 PM	34.00	5.00	10.40	16.10	5.70	10.40	11.10	16.10	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/12 10:45 PM	41.00	5.50	11.20	14.70	3.50	11.20	11.10	14.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/12 11:00 PM	36.00	5.40	10.40	12.50	2.10	10.40	10.00	12.50	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/12 11:15 PM	27.00	5.70	12.70	10.60	0.00	12.70	10.00	10.60	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/12 11:30 PM	36.00	5.20	13.30	10.40	0.00	13.30	10.30	10.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/12 11:45 PM	32.00	5.60	17.60	11.50	0.00	17.60	11.90	11.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-8-12 to 12-14-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/8/12 12:00 AM	40.00	3.80	19.70	15.80	0.00	19.70	15.30	15.80	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 12:15 AM	30.00	3.80	21.10	15.30	0.00	21.10	18.40	15.30	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 12:30 AM	11.00	2.90	22.20	14.80	0.00	22.20	20.80	14.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 12:45 AM	0.00	2.10	20.80	16.80	0.00	20.80	19.50	16.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:00 AM	25.00	2.70	19.50	15.60	0.00	19.50	21.90	15.60	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:15 AM	39.00	4.80	23.60	16.90	0.00	23.60	22.80	16.90	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:30 AM	355.00	2.80	11.20	23.60	12.40	23.70	23.60	20.50	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:45 AM	358.00	1.70	12.40	22.50	10.10	20.20	22.50	21.00	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:00 AM	344.00	3.10	5.60	10.80	5.20	9.70	10.80	9.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:15 AM	357.00	4.30	4.80	9.80	5.00	8.90	9.80	7.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:30 AM	1.00	4.70	7.70	6.30	0.00	7.70	8.70	6.30	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:45 AM	5.00	6.70	6.60	5.30	0.00	6.60	7.60	5.30	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:00 AM	7.00	7.30	5.60	4.80	0.00	5.60	7.30	4.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:15 AM	3.00	4.70	5.50	4.80	0.00	5.50	6.60	4.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:30 AM	3.00	7.60	5.50	4.60	0.00	5.50	6.00	4.60	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:45 AM	16.00	7.80	4.80	5.40	0.60	4.80	6.80	5.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:00 AM	17.00	6.20	7.50	5.80	0.00	7.50	9.60	5.80	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:15 AM	2.00	6.60	6.90	6.60	0.00	6.90	6.90	6.60	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:30 AM	1.00	5.90	9.10	7.80	0.00	9.10	8.40	7.80	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:45 AM	1.00	4.50	8.80	6.50	0.00	8.80	7.30	6.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 5:00 AM	0.00	4.00	6.10	5.50	0.00	6.10	5.40	5.50	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 5:15 AM	3.00	8.00	6.90	4.70	0.00	6.90	4.20	4.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 5:30 AM	4.00	8.30	8.20	5.50	0.00	8.20	5.00	5.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 5:45 AM	4.00	6.00	8.90	6.30	0.00	8.90	5.00	6.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 6:00 AM	359.00	5.60	7.70	6.20	0.00	10.20	6.20	7.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 6:15 AM	6.00	6.00	10.80	9.30	0.00	10.80	6.90	9.30	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 6:30 AM	2.00	6.40	10.20	9.30	0.00	10.20	7.10	9.30	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 6:45 AM	6.00	8.30	6.10	5.70	0.00	6.10	4.60	5.70	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 7:00 AM	6.00	6.00	5.30	5.60	0.30	5.30	3.30	5.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 7:15 AM	1.00	6.50	6.60	6.80	0.20	6.60	4.40	6.80	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 7:30 AM	6.00	9.00	6.60	7.10	0.50	6.60	4.60	7.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 7:45 AM	6.00	9.20	8.60	5.20	0.00	8.60	3.50	5.20	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 8:00 AM	7.00	8.90	9.30	4.30	0.00	9.30	2.80	4.30	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 8:15 AM	7.00	9.70	8.60	3.80	0.00	8.60	2.80	3.80	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 8:30 AM	4.00	8.40	5.90	3.60	0.00	5.90	2.40	3.60	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 8:45 AM	2.00	7.30	3.90	3.60	0.00	3.90	2.20	3.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 9:00 AM	6.00	8.60	3.00	3.50	0.50	3.00	2.30	3.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 9:15 AM	6.00	8.30	2.50	3.30	0.80	2.50	2.00	3.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 9:30 AM	11.00	7.20	2.80	3.30	0.50	2.80	2.10	3.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 9:45 AM	18.00	7.00	2.80	3.50	0.70	2.80	3.00	3.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 10:00 AM	23.00	7.30	3.00	3.30	0.30	3.00	2.40	3.30	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 10:15 AM	19.00	8.00	2.60	3.20	0.60	2.60	2.30	3.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 10:30 AM	9.00	6.10	2.10	2.90	0.80	2.10	2.80	2.90	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 10:45 AM	9.00	7.20	1.60	2.30	0.70	1.60	1.80	2.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 11:00 AM	6.00	7.40	2.80	2.00	0.00	2.80	2.20	2.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 11:15 AM	14.00	6.10	2.10	2.10	0.00	2.10	1.30	2.10	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 11:30 AM	13.00	7.70	1.60	2.00	0.40	1.60	0.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 11:45 AM	2.00	8.10	1.80	1.90	0.10	1.80	1.90	1.90	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 12:00 PM	20.00	9.40	2.10	2.30	0.20	2.10	1.70	2.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 12:15 PM	14.00	7.90	0.00	2.10	0.00	0.00	1.40	2.10	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 12:30 PM	18.00	6.80	3.60	1.80	0.00	3.60	1.60	1.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 12:45 PM	38.00	6.80	3.40	1.80	0.00	3.40	1.70	1.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:00 PM	26.00	8.40	3.40	2.20	0.00	3.40	1.60	2.20	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:15 PM	39.00	6.90	2.90	3.20	0.30	2.90	1.60	3.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:30 PM	29.00	6.60	0.00	3.60	0.00	0.00	1.70	3.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 1:45 PM	34.00	8.10	4.10	4.30	0.20	4.10	2.30	4.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:00 PM	29.00	6.60	4.70	4.00	0.00	4.70	3.00	4.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:15 PM	46.00	7.20	3.30	3.30	0.00	3.30	2.50	3.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:30 PM	42.00	6.30	3.60	3.70	0.10	3.60	5.30	3.70	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 2:45 PM	33.00	8.60	2.90	3.50	0.60	2.90	0.00	3.50	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:00 PM	47.00	8.00	3.00	3.80	0.80	3.00	4.70	3.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:15 PM	45.00	4.80	3.90	4.30	0.40	3.90	3.90	4.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:30 PM	56.00	6.60	4.50	5.40	0.90	4.50	4.50	5.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 3:45 PM	40.00	7.80	3.10	2.80	0.00	3.10	3.70	2.80	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:00 PM	39.00	6.30	3.90	2.70	0.00	3.90	4.00	2.70	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:15 PM	44.00	6.30	5.20	4.00	0.00	5.20	3.40	4.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:30 PM	48.00	5.50	4.90	4.20	0.00	4.90	4.10	4.20	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/8/12 4:45 PM	38.00	6.40	5.40	3.10	0.00	5.40												



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-8-12 to 12-14-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/8/12 11:45 PM	90.00	5.40	8.30	13.40	5.10	17.90	8.30	7.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:00 AM	84.00	6.00	15.30	8.60	0.00	15.30	9.30	8.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:15 AM	93.00	4.10	9.00	13.60	4.60	15.30	9.00	8.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:30 AM	95.00	4.80	7.80	8.70	0.90	10.40	7.80	6.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:45 AM	96.00	4.70	9.10	9.20	0.10	11.40	9.10	7.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:00 AM	109.00	3.30	9.40	8.80	0.00	11.10	9.40	8.20	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:15 AM	131.00	4.90	10.40	9.30	0.00	11.80	10.40	10.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:30 AM	131.00	5.70	10.50	10.90	0.40	11.70	10.50	9.90	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:45 AM	90.00	5.00	12.20	9.40	0.00	11.50	12.20	10.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:00 AM	130.00	3.00	11.10	10.90	0.00	14.20	11.10	12.70	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:15 AM	114.00	4.10	14.10	9.50	0.00	11.90	14.10	12.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:30 AM	88.00	4.00	12.10	10.90	0.00	12.10	12.40	10.90	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:45 AM	113.00	4.90	11.60	10.50	0.00	12.70	11.60	10.30	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:00 AM	132.00	4.00	11.90	11.30	0.00	13.00	11.90	12.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:15 AM	126.00	5.60	13.80	14.00	0.20	16.50	13.80	13.90	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:30 AM	136.00	5.20	21.80	18.70	0.00	21.60	21.80	19.60	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:45 AM	140.00	5.00	17.60	22.60	5.00	21.70	17.60	15.80	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 4:00 AM	125.00	4.40	19.40	17.20	0.00	18.90	19.40	16.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 4:15 AM	124.00	5.40	19.30	18.70	0.00	20.40	19.30	18.90	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 4:30 AM	135.00	3.70	20.60	22.90	2.30	22.40	20.60	21.30	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 4:45 AM	132.00	5.30	22.00	23.80	1.80	23.80	22.00	22.20	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 5:00 AM	136.00	4.50	21.10	22.30	1.20	22.80	21.10	20.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 5:15 AM	130.00	5.50	22.10	21.40	0.00	22.00	22.10	20.10	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 5:30 AM	135.00	5.90	22.00	20.50	0.00	22.00	22.00	19.90	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 5:45 AM	140.00	5.40	19.50	18.90	0.00	19.50	19.50	18.10	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 6:00 AM	122.00	5.30	18.70	18.30	0.00	18.70	18.70	18.20	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 6:15 AM	142.00	5.00	17.20	17.80	0.60	18.40	17.20	17.20	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 6:30 AM	145.00	6.50	16.80	19.40	2.60	18.70	16.80	16.60	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 6:45 AM	138.00	4.90	17.30	18.30	1.00	18.60	17.30	16.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 7:00 AM	144.00	3.40	17.20	18.60	1.40	19.50	17.20	17.60	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 7:15 AM	133.00	4.80	17.40	18.40	1.00	18.70	17.40	17.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 7:30 AM	129.00	5.10	17.10	18.90	1.80	18.60	17.10	17.10	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 7:45 AM	124.00	6.00	16.80	18.50	1.70	18.40	16.80	17.90	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 8:00 AM	132.00	4.80	18.10	19.00	0.90	18.70	18.10	18.20	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 8:15 AM	121.00	5.20	25.00	17.90	0.00	17.40	25.00	19.10	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 8:30 AM	125.00	5.10	24.40	18.60	0.00	17.40	24.40	18.80	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 8:45 AM	133.00	4.60	25.60	19.00	0.00	16.00	25.60	19.70	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 9:00 AM	126.00	5.30	24.40	18.60	0.00	14.00	24.40	17.60	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 9:15 AM	122.00	4.80	23.70	17.30	0.00	13.00	23.70	18.60	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 9:30 AM	133.00	5.30	23.50	17.20	0.00	12.50	23.50	19.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 9:45 AM	121.00	4.90	21.80	16.20	0.00	11.00	21.80	18.20	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 10:00 AM	141.00	7.10	20.30	15.20	0.00	10.40	20.30	16.60	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 10:15 AM	132.00	5.50	16.40	14.00	0.00	9.10	16.40	16.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 10:30 AM	139.00	6.40	15.30	13.10	0.00	6.40	15.30	14.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 10:45 AM	130.00	5.50	15.00	12.90	0.00	6.40	15.00	14.10	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 11:00 AM	139.00	3.70	13.10	11.00	0.00	6.00	13.10	14.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 11:15 AM	129.00	5.40	13.70	7.30	0.00	5.30	13.70	13.60	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 11:30 AM	147.00	4.30	14.10	7.60	0.00	5.20	14.10	15.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 11:45 AM	133.00	6.20	10.00	5.30	0.00	5.00	10.00	12.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:00 PM	146.00	6.60	9.80	5.30	0.00	5.60	9.80	12.10	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:15 PM	132.00	5.90	10.10	5.50	0.00	5.70	10.10	12.70	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:30 PM	147.00	3.60	9.50	5.60	0.00	6.40	9.50	12.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 12:45 PM	149.00	3.30	9.50	5.60	0.00	6.20	9.50	11.90	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:00 PM	164.00	4.20	0.00	6.10	0.00	6.50	0.00	12.50	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:15 PM	150.00	3.60	9.50	6.40	0.00	5.70	9.50	13.30	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:30 PM	162.00	3.10	8.40	6.90	0.00	4.10	8.40	12.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 1:45 PM	178.00	2.60	7.60	6.90	0.00	3.40	7.60	11.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:00 PM	148.00	3.50	8.40	4.50	0.00	3.10	8.40	12.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:15 PM	154.00	3.20	7.90	3.60	0.00	3.00	7.90	12.80	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:30 PM	139.00	2.10	8.00	3.30	0.00	2.90	8.00	12.10	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 2:45 PM	209.00	1.00	9.70	4.00	0.00	4.00	10.30	9.70	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:00 PM	186.00	1.30	7.60	3.60	0.00	3.60	7.40	7.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:15 PM	161.00	1.10	8.20	3.40	0.00	3.20	8.20	7.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:30 PM	210.00	0.90	7.80	3.30	0.00	3.30	8.30	7.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 3:45 PM	213.00	1.20	7.90	3.30	0.00	3.30	8.60	7.90	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 4:00 PM	213.00	1.60	7.80	3.90	0.00	3.90	8.60	7.80	4.30	0.00	0.00	0.00						



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-8-12 to 12-14-12

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/9/12 11:30 PM	288.00	4.90	8.20	6.40	0.00	8.90	6.40	6.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/9/12 11:45 PM	284.00	4.40	7.80	7.40	0.00	8.50	7.40	7.50	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:00 AM	290.00	4.80	6.80	5.30	0.00	7.50	5.30	6.40	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:15 AM	271.00	4.90	5.10	3.10	0.00	4.90	3.10	4.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:30 AM	276.00	6.60	5.40	4.10	0.00	7.00	4.10	5.30	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:45 AM	292.00	5.40	5.90	4.40	0.00	5.80	4.40	5.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:00 AM	286.00	5.60	8.10	4.20	0.00	9.00	4.20	5.50	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:15 AM	284.00	4.90	6.40	4.50	0.00	7.90	4.50	6.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:30 AM	281.00	6.30	7.20	4.90	0.00	7.90	4.90	6.80	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:45 AM	274.00	4.90	8.20	5.00	0.00	9.10	5.00	7.40	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:00 AM	277.00	4.70	8.60	6.10	0.00	9.00	6.10	8.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:15 AM	285.00	3.60	7.70	6.00	0.00	9.20	6.00	7.80	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:30 AM	279.00	3.10	7.10	5.50	0.00	8.00	5.50	7.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:45 AM	283.00	4.70	7.70	5.30	0.00	7.20	5.30	6.50	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:00 AM	283.00	3.30	7.70	5.20	0.00	8.60	5.20	6.60	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:15 AM	247.00	5.80	7.00	8.30	1.30	8.30	5.40	7.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:30 AM	258.00	8.00	13.30	14.50	1.20	14.50	9.50	13.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:45 AM	262.00	6.50	16.40	17.80	1.40	17.80	13.00	16.40	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 4:00 AM	249.00	6.50	14.90	23.10	8.20	23.10	15.10	14.90	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 4:15 AM	261.00	8.80	10.80	15.90	5.10	15.90	10.40	10.80	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 4:30 AM	259.00	7.20	9.30	13.10	3.80	13.10	9.20	9.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 4:45 AM	262.00	7.20	9.60	12.70	3.10	12.70	9.50	9.60	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 5:00 AM	273.00	8.00	0.00	12.20	0.00	15.50	12.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 5:15 AM	278.00	5.20	14.20	10.50	0.00	14.90	10.50	11.40	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 5:30 AM	262.00	8.00	12.40	16.50	4.10	16.50	12.40	12.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 5:45 AM	265.00	6.50	12.20	18.20	6.00	18.20	11.90	12.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 6:00 AM	288.00	5.90	20.90	16.90	0.00	21.10	16.90	17.00	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 6:15 AM	291.00	6.40	15.40	13.80	0.00	17.00	13.80	14.20	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 6:30 AM	291.00	4.30	17.90	15.30	0.00	19.20	15.30	15.70	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 6:45 AM	296.00	3.30	13.10	11.90	0.00	13.80	11.90	12.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 7:00 AM	268.00	5.10	13.20	14.90	1.70	14.90	12.20	13.20	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 7:15 AM	275.00	5.10	16.80	13.60	0.00	17.90	13.60	13.60	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 7:30 AM	275.00	6.30	15.70	13.30	0.00	17.30	13.30	13.50	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 7:45 AM	284.00	6.50	12.80	11.50	0.00	13.70	11.50	10.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 8:00 AM	280.00	4.40	12.60	10.00	0.00	14.00	10.00	9.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 8:15 AM	288.00	5.50	13.30	10.80	0.00	15.50	10.80	12.10	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 8:30 AM	269.00	4.60	13.60	16.40	2.80	16.40	12.40	13.60	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 8:45 AM	280.00	4.00	15.10	0.00	0.00	17.80	0.00	13.90	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 9:00 AM	295.00	5.30	17.80	14.20	0.00	20.10	14.20	14.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 9:15 AM	284.00	5.70	17.20	13.90	0.00	19.30	13.90	15.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 9:30 AM	285.00	3.10	16.80	14.30	0.00	19.70	14.30	15.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 9:45 AM	288.00	5.40	16.80	13.70	0.00	18.50	13.70	14.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 10:00 AM	280.00	4.10	16.70	13.10	0.00	18.30	13.10	14.20	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 10:15 AM	275.00	2.10	16.30	14.00	0.00	17.70	14.00	14.20	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 10:30 AM	274.00	4.60	16.80	15.40	0.00	19.50	15.40	16.40	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 10:45 AM	284.00	3.40	17.30	14.90	0.00	19.30	14.90	16.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 11:00 AM	288.00	4.70	18.10	15.60	0.00	18.80	15.60	16.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 11:15 AM	283.00	5.00	17.10	13.90	0.00	18.10	13.90	15.00	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 11:30 AM	285.00	5.50	18.10	16.00	0.00	19.60	16.00	16.40	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 11:45 AM	289.00	4.70	17.10	15.40	0.00	18.80	15.40	15.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:00 PM	287.00	3.20	17.00	14.90	0.00	17.30	14.90	15.80	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:15 PM	272.00	4.80	17.70	14.80	0.00	18.50	14.80	15.80	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:30 PM	298.00	4.20	18.70	15.40	0.00	19.30	15.40	16.70	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 12:45 PM	301.00	3.40	19.10	16.90	0.00	19.60	16.90	17.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:00 PM	290.00	4.20	19.60	15.90	0.00	19.30	15.90	17.10	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:15 PM	308.00	4.50	20.80	15.90	0.00	19.90	15.90	17.20	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:30 PM	316.00	3.60	20.40	16.30	0.00	19.70	16.30	17.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 1:45 PM	303.00	4.00	21.10	16.40	0.00	19.80	16.40	17.50	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:00 PM	311.00	6.00	20.50	16.50	0.00	20.40	16.50	18.40	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:15 PM	309.00	3.20	24.60	16.70	0.00	20.90	16.70	17.50	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:30 PM	298.00	4.40	21.20	17.50	0.00	21.90	17.50	17.70	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 2:45 PM	301.00	3.40	21.20	17.20	0.00	20.80	17.20	17.50	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:00 PM	304.00	2.90	21.70	17.40	0.00	20.30	17.40	17.90	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:15 PM	297.00	3.80	19.00	15.00	0.00	17.90	15.00	16.60	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:30 PM	294.00	3.30	17.80	13.30	0.00	16.90	13.30	14.20	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/10/12 3:45 PM	286.00	3.30	19.5															



US Army Corps
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Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-8-12 to 12-14-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/13/12 10:30 PM	221.00	4.30	21.40	24.50	3.10	24.50	21.20	21.40	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/13/12 10:45 PM	217.00	4.00	19.70	17.70	0.00	17.70	18.00	19.70	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/13/12 11:00 PM	217.00	4.20	20.30	19.40	0.00	19.40	21.20	20.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/13/12 11:15 PM	210.00	3.70	20.90	22.40	1.50	22.40	25.20	20.90	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/13/12 11:30 PM	214.00	3.20	20.50	24.40	3.90	24.40	25.40	20.50	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/13/12 11:45 AM	211.00	3.30	16.90	16.50	0.00	16.50	19.30	16.90	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:00 AM	211.00	3.10	16.20	16.80	0.60	16.80	19.20	16.20	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:15 AM	211.00	3.50	21.60	23.00	1.40	23.00	23.10	21.60	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:30 AM	206.00	2.70	24.70	26.50	1.80	26.50	25.60	24.70	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:45 AM	206.00	2.70	19.70	18.10	0.00	18.10	16.80	19.70	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:00 AM	209.00	2.60	16.10	15.50	0.00	15.50	15.40	16.10	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:15 AM	204.00	3.20	14.70	15.30	0.60	15.30	14.70	14.70	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:30 AM	207.00	3.00	14.60	14.50	0.00	14.50	15.10	14.60	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:45 AM	200.00	3.20	16.40	18.40	2.00	18.40	18.00	16.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 2:00 AM	201.00	2.30	15.30	16.00	0.70	16.00	15.70	15.30	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 2:15 AM	199.00	2.20	16.40	16.60	0.20	16.60	16.10	16.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 2:30 AM	204.00	3.10	18.80	18.90	0.10	18.90	17.50	18.80	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 2:45 AM	205.00	2.60	18.80	18.60	0.00	18.60	16.60	18.80	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 3:00 AM	194.00	2.10	18.00	17.50	0.00	17.50	17.00	18.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 3:15 AM	201.00	2.90	16.00	16.20	0.20	16.20	15.30	16.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 3:30 AM	210.00	2.90	15.10	16.20	1.10	16.20	15.60	15.10	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 3:45 AM	206.00	2.60	15.50	16.90	1.40	16.90	20.40	15.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 4:00 AM	210.00	2.40	15.30	16.90	1.60	16.90	18.20	15.30	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 4:15 AM	209.00	2.70	13.70	15.30	1.60	15.30	18.00	13.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 4:30 AM	210.00	2.80	14.90	0.00	0.00	0.00	19.00	14.90	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 4:45 AM	210.00	2.60	18.50	21.70	3.20	21.70	22.50	18.50	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 5:00 AM	206.00	3.10	18.30	23.70	5.40	23.70	22.40	18.30	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 5:15 AM	211.00	2.20	17.90	22.30	4.40	22.30	20.50	17.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 5:30 AM	218.00	2.70	14.10	15.70	1.60	15.70	16.90	14.10	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 5:45 AM	211.00	1.60	16.20	18.90	2.70	18.90	16.70	16.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 6:00 AM	208.00	2.20	14.40	15.90	1.50	15.90	15.90	14.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 6:15 AM	212.00	2.70	12.20	13.80	1.60	13.80	13.50	12.20	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 6:30 AM	213.00	2.10	11.90	13.90	2.00	13.90	13.00	11.90	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 6:45 AM	210.00	2.20	12.70	13.60	0.90	13.60	13.00	12.70	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 7:00 AM	208.00	2.30	13.40	13.90	0.50	13.90	13.00	13.40	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 7:15 AM	209.00	2.40	13.30	13.80	0.50	13.80	13.80	13.30	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 7:30 AM	215.00	2.50	13.30	14.20	0.90	14.20	14.30	13.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 7:45 AM	205.00	2.30	13.40	14.10	0.70	14.10	14.80	13.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 8:00 AM	208.00	2.20	13.20	15.20	2.00	15.20	13.80	13.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 8:15 AM	206.00	2.30	14.70	15.70	1.00	15.70	13.70	14.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 8:30 AM	203.00	2.20	15.30	16.10	0.80	16.10	13.60	15.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 8:45 AM	209.00	2.00	16.60	15.30	0.00	15.30	14.20	16.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 9:00 AM	205.00	2.00	15.60	15.60	0.00	15.60	14.10	15.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 9:15 AM	202.00	1.70	15.30	16.30	1.00	16.30	13.20	15.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 9:30 AM	201.00	2.20	14.60	15.70	1.10	15.70	12.70	14.60	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 9:45 AM	213.00	2.00	14.30	16.70	2.40	16.70	12.80	14.30	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 10:00 AM	209.00	3.40	14.20	17.50	3.30	17.50	13.50	14.20	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 10:15 AM	203.00	2.00	13.60	18.20	4.60	18.20	13.60	13.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 10:30 AM	196.00	3.50	13.90	16.80	2.90	16.80	12.10	13.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 10:45 AM	209.00	3.50	12.20	15.60	3.40	15.60	12.00	12.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 11:00 AM	212.00	2.60	11.90	14.90	3.00	14.90	11.70	11.90	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 11:15 AM	198.00	3.50	11.50	14.60	3.10	14.60	11.30	11.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 11:30 AM	202.00	3.40	11.50	14.20	2.70	14.20	13.70	11.50	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 11:45 AM	195.00	3.10	10.90	14.60	3.70	14.60	9.60	10.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:00 PM	216.00	2.60	10.60	14.10	3.50	14.10	10.50	10.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:15 PM	179.00	3.70	10.30	10.30	0.00	10.30	10.30	11.20	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:30 PM	182.00	3.50	10.30	14.80	4.50	14.80	11.50	10.30	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 12:45 PM	194.00	2.90	10.10	14.60	4.50	14.60	9.60	10.10	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:00 PM	190.00	3.50	10.60	12.50	1.90	12.50	9.50	10.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:15 PM	189.00	4.60	11.20	14.40	4.20	14.40	11.40	11.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:30 PM	183.00	3.70	10.50	14.60	3.10	14.60	11.00	10.50	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 1:45 PM	191.00	3.70	10.80	13.70	2.90	13.70	10.50	10.80	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 2:00 PM	213.00	4.20	9.60	13.50	3.90	13.50	12.20	9.60	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 2:15 PM	173.00	3.20	10.40	9.90	0.00	9.90	10.40	9.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/14/12 2:30 PM	207.00	3.60	10.80	14.70	3.90	14.70	10.90	10.80	9.60	0.00	0.00							



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-8-12 to 12-14-12

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
12/14/12 10:15 PM	181.00	2.90	20.50	11.60	0.00	11.60	21.50	20.50	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/12 10:30 PM	184.00	4.40	19.80	11.70	0.00	11.70	20.30	19.80	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/12 10:45 PM	180.00	3.50	19.70	12.70	0.00	12.70	21.30	19.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/12 11:00 PM	185.00	3.80	20.50	12.50	0.00	12.50	21.80	20.50	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/12 11:15 PM	182.00	2.90	19.90	13.10	0.00	13.10	22.10	19.90	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/12 11:30 PM	179.00	3.30	22.40	22.20	0.00	13.30	22.40	20.40	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/12 11:45 PM	175.00	4.00	20.70	19.80	0.00	12.30	20.70	18.70	19.80	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: 12/14/2012 14:35 PM 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:

- Loss of Power
- Loss of Radio Communication
- Out of Calibration
- UV Alignment
- Blockage in Air Tube
- Air Quality
- Other: Weather-Heavy fog

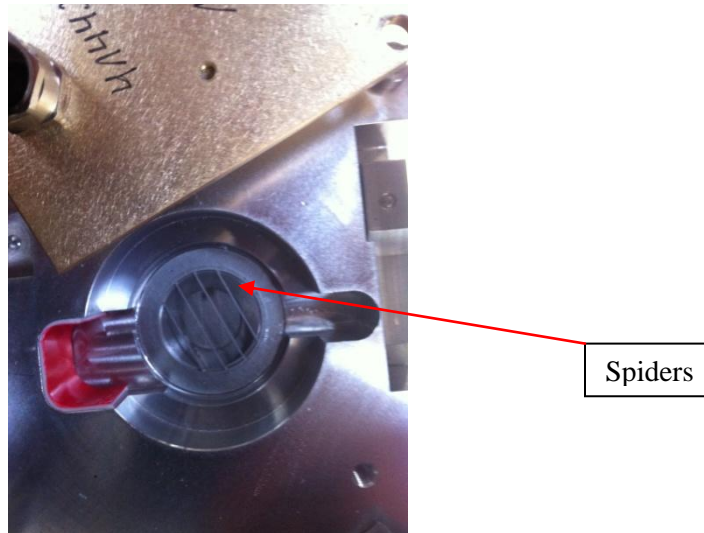
3. Corrective Actions taken? (Yes) or (No)

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

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

Description of Action Taken:

M1 Thermo unit alarm was caused by spiders inside of the neaphelometer and paper filter. The spiders were vacuumed out of the inlet tube and neaphelometer. Unit was recalibrated at 3:30 PM 12/14/12 and inspected at 4:30 PM 12/14/12 to confirm proper functions.





US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-15-12 to 12-21-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/15/12 12:00 AM	180.00	3.50	16.70	10.70	0.00	10.70	18.40	16.70	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 12:15 AM	180.00	3.80	16.10	19.50	3.40	19.50	18.40	16.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 12:30 AM	183.00	4.00	16.50	18.70	2.20	18.70	17.20	16.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 12:45 AM	175.00	3.50	17.60	17.80	0.20	19.20	17.60	16.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:00 AM	187.00	3.60	17.80	19.40	1.60	19.40	18.50	17.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:15 AM	177.00	4.00	18.10	20.10	2.00	20.60	18.10	17.70	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:30 AM	176.00	3.90	19.10	19.30	0.20	21.00	19.10	17.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:45 AM	178.00	4.00	18.50	18.70	0.20	21.50	18.50	18.30	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:00 AM	186.00	3.60	17.30	23.10	5.80	23.10	17.70	17.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:15 AM	195.00	3.30	17.30	23.10	5.80	23.10	17.40	17.30	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:30 AM	181.00	3.10	16.80	19.40	2.60	19.40	16.90	16.80	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:45 AM	171.00	4.10	17.70	17.80	0.10	18.50	17.70	17.40	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:00 AM	182.00	3.90	17.40	19.00	1.60	19.00	17.80	17.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:15 AM	183.00	3.60	17.10	19.60	2.50	19.60	17.60	17.10	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:30 AM	181.00	3.50	16.60	18.50	1.90	18.50	17.20	16.60	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:45 AM	174.00	2.90	16.50	17.60	1.10	17.60	16.50	17.30	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 4:00 AM	177.00	3.70	15.90	16.90	1.00	17.40	15.90	15.90	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 4:15 AM	173.00	5.10	16.40	17.30	0.90	18.20	16.40	16.20	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 4:30 AM	159.00	3.30	16.60	17.40	0.80	19.20	16.60	16.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 4:45 AM	172.00	4.00	16.20	17.40	1.20	23.40	16.20	16.40	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 5:00 AM	179.00	3.80	18.50	19.90	1.40	20.20	18.50	17.50	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 5:15 AM	167.00	3.70	17.70	18.20	0.50	21.70	17.70	18.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 5:30 AM	176.00	3.60	18.40	19.30	0.90	21.30	18.40	17.70	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 5:45 AM	170.00	3.10	20.00	17.70	0.00	20.20	20.00	17.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 6:00 AM	165.00	3.80	17.50	19.10	1.60	20.90	17.50	17.80	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 6:15 AM	160.00	3.10	18.70	20.80	2.10	0.00	18.70	17.60	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 6:30 AM	164.00	3.80	20.80	19.10	0.00	20.00	20.80	17.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 6:45 AM	166.00	5.40	20.00	19.80	0.00	20.60	20.00	18.30	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 7:00 AM	172.00	5.20	18.70	18.80	0.10	21.70	18.70	18.00	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 7:15 AM	166.00	4.00	20.20	19.30	0.00	21.50	20.20	18.00	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 7:30 AM	166.00	5.40	18.90	18.40	0.00	21.40	18.90	18.80	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 7:45 AM	162.00	4.40	21.80	20.50	0.00	21.30	21.80	18.90	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 8:00 AM	160.00	5.10	20.40	21.00	0.60	24.10	20.40	21.20	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 8:15 AM	159.00	5.00	20.80	22.30	1.50	24.40	20.80	22.20	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 8:30 AM	151.00	5.80	21.00	22.10	1.10	23.10	21.00	21.60	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 8:45 AM	163.00	5.70	20.90	22.00	1.10	22.80	20.90	21.50	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 9:00 AM	188.00	4.80	22.30	21.80	0.00	21.80	21.90	22.30	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 9:15 AM	186.00	5.60	22.70	19.60	0.00	19.60	20.60	22.70	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 9:30 AM	151.00	6.40	21.30	22.70	1.40	19.50	21.30	23.20	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 9:45 AM	158.00	6.40	21.70	24.10	2.40	16.90	21.70	23.40	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 10:00 AM	143.00	6.80	20.00	24.10	4.10	16.60	20.00	23.60	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 10:15 AM	200.00	5.30	21.40	11.80	0.00	11.80	19.20	21.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 10:30 AM	179.00	4.10	16.90	13.50	0.00	9.70	16.90	20.00	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 10:45 AM	173.00	5.00	14.80	11.50	0.00	8.40	14.80	18.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 11:00 AM	182.00	8.80	16.10	7.40	0.00	7.40	14.00	16.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 11:15 AM	165.00	8.50	19.60	10.50	0.00	11.20	19.60	22.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 11:30 AM	167.00	7.00	18.40	11.40	0.00	11.20	18.40	23.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 11:45 AM	180.00	6.20	18.00	9.40	0.00	9.40	17.70	18.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 12:00 PM	176.00	6.70	17.30	8.70	0.00	8.50	17.30	14.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 12:15 PM	179.00	6.60	16.90	7.90	0.00	6.40	16.90	11.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 12:30 PM	175.00	8.40	16.70	6.70	0.00	6.80	16.70	9.60	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 12:45 PM	180.00	8.00	8.70	5.80	0.00	5.80	15.70	8.70	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:00 PM	191.00	7.80	8.20	4.90	0.00	4.90	15.20	8.20	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:15 PM	175.00	8.40	14.00	5.90	0.00	5.10	14.00	8.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:30 PM	0.00	0.00	0.00	0.00	0.00	6.20	15.30	9.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 1:45 PM	0.00	0.00	0.00	0.00	0.00	7.20	16.90	11.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:00 PM	0.00	0.00	0.00	0.00	0.00	6.50	17.00	11.90	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:15 PM	0.00	0.00	0.00	0.00	0.00	6.00	17.20	12.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:30 PM	0.00	0.00	0.00	0.00	0.00	5.50	16.50	12.70	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 2:45 PM	0.00	0.00	0.00	0.00	0.00	5.00	15.20	13.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:00 PM	0.00	0.00	0.00	0.00	0.00	5.20	15.10	12.50	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:15 PM	0.00	0.00	0.00	0.00	0.00	5.10	14.50	10.30	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:30 PM	0.00	0.00	0.00	0.00	0.00	5.30	13.80	10.30	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 3:45 PM	0.00	0.00	0.00	0.00	0.00	5.10	13.60	8.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 4:00 PM	192.00	7.50	8.30	5.10	0.00	5.10	13.30	8.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/15/12 4:15 PM	181.00	6.90																



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-15-12 to 12-21-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/16/12 11:30 PM	301.00	3.10	13.50	11.00	0.00	14.10	11.00	12.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/16/12 11:45 PM	308.00	3.00	13.80	10.80	0.00	15.30	10.80	12.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:00 AM	289.00	2.10	13.60	10.50	0.00	14.90	10.50	12.20	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:15 AM	280.00	2.60	15.80	10.70	0.00	17.30	10.70	12.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:30 AM	283.00	1.90	15.20	11.20	0.00	18.20	11.20	13.10	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:45 AM	321.00	2.20	14.60	11.60	0.00	16.50	11.60	13.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:00 AM	265.00	2.60	13.30	16.80	3.50	16.80	12.10	13.30	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:15 AM	273.00	2.10	15.00	11.80	0.00	17.10	11.80	13.40	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:30 AM	311.00	3.10	16.70	12.00	0.00	17.90	12.00	14.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:45 AM	293.00	2.00	15.60	12.20	0.00	18.00	12.20	14.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:00 AM	304.00	1.60	15.40	12.50	0.00	18.00	12.50	14.90	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:15 AM	269.00	2.10	14.50	15.30	0.80	15.30	12.40	14.50	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:30 AM	275.00	2.00	15.50	12.30	0.00	15.70	12.30	14.40	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:45 AM	280.00	2.90	14.50	11.90	0.00	15.50	11.90	14.20	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 3:00 AM	297.00	2.40	14.30	11.60	0.00	15.30	11.60	13.80	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 3:15 AM	301.00	2.40	14.20	12.20	0.00	15.00	12.20	13.80	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 3:30 AM	314.00	1.70	14.20	12.40	0.00	14.90	12.40	13.90	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 3:45 AM	292.00	1.60	14.00	12.50	0.00	15.00	12.50	13.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 4:00 AM	277.00	1.60	14.00	12.50	0.00	15.50	12.50	13.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 4:15 AM	272.00	2.20	14.30	11.90	0.00	15.80	11.90	14.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 4:30 AM	286.00	1.60	13.20	11.70	0.00	14.90	11.70	13.40	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 4:45 AM	280.00	1.10	13.10	11.80	0.00	15.50	11.80	13.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 5:00 AM	287.00	1.50	13.10	12.50	0.00	15.90	12.50	13.80	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 5:15 AM	276.00	1.20	14.00	12.30	0.00	16.20	12.30	13.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 5:30 AM	274.00	1.30	14.00	12.30	0.00	16.60	12.30	13.70	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 5:45 AM	342.00	0.40	14.40	12.30	0.00	16.90	12.30	14.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 6:00 AM	308.00	0.90	14.40	12.60	0.00	17.00	12.60	14.60	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 6:15 AM	263.00	1.20	14.40	18.00	3.60	18.00	13.20	14.40	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 6:30 AM	353.00	1.20	14.70	13.10	0.00	17.70	13.10	14.70	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 6:45 AM	291.00	1.80	14.80	13.50	0.00	18.00	13.50	14.40	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 7:00 AM	327.00	1.20	13.90	12.70	0.00	17.30	12.70	13.40	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 7:15 AM	289.00	1.40	14.10	12.40	0.00	16.50	12.40	13.60	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 7:30 AM	276.00	1.80	15.10	12.80	0.00	17.40	12.80	13.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 7:45 AM	290.00	1.30	14.30	13.60	0.00	17.70	13.60	14.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 8:00 AM	288.00	1.60	16.90	13.40	0.00	18.10	13.40	14.80	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 8:15 AM	285.00	1.80	18.40	13.90	0.00	0.00	13.90	14.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 8:30 AM	300.00	1.10	19.60	15.20	0.00	23.20	15.20	15.20	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 8:45 AM	238.00	0.90	17.00	26.00	9.00	26.00	15.80	17.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 9:00 AM	226.00	1.00	17.30	26.80	9.50	26.80	17.60	17.30	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 9:15 AM	264.00	0.90	18.80	26.50	7.70	26.50	16.00	18.80	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 9:30 AM	259.00	1.70	20.90	23.70	2.80	23.70	18.00	20.90	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 9:45 AM	261.00	1.40	20.30	0.00	0.00	18.00	20.30	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 10:00 AM	320.00	1.20	20.10	16.90	0.00	20.90	16.90	18.30	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 10:15 AM	321.00	1.20	19.70	16.70	0.00	20.30	16.70	19.40	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 10:30 AM	278.00	0.60	19.90	16.10	0.00	19.60	16.10	17.40	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 10:45 AM	254.00	1.70	18.50	20.50	2.00	20.50	16.00	18.50	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 11:00 AM	254.00	1.40	18.20	20.30	2.10	20.30	16.50	18.20	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 11:15 AM	269.00	1.70	18.50	22.50	4.00	22.50	17.10	18.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 11:30 AM	292.00	1.30	22.00	17.60	0.00	22.80	17.60	18.40	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 11:45 AM	257.00	1.60	19.50	24.00	4.50	24.00	19.00	19.50	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:00 PM	251.00	1.90	20.80	25.30	4.50	25.30	22.80	20.80	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:15 PM	233.00	1.60	21.20	25.40	4.20	25.40	24.40	21.20	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:30 PM	205.00	1.70	21.90	26.10	4.20	26.10	25.90	21.90	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 12:45 PM	237.00	2.60	22.00	26.90	4.90	26.90	25.50	22.00	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:00 PM	246.00	2.10	22.00	26.60	4.60	26.60	25.30	22.00	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:15 PM	259.00	2.50	23.70	27.60	3.90	27.60	25.80	23.70	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:30 PM	234.00	2.10	23.10	27.50	4.40	27.50	25.10	23.10	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 1:45 PM	232.00	1.90	24.00	27.90	3.90	27.90	25.40	24.00	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:00 PM	274.00	1.60	31.70	24.00	0.00	28.50	24.00	23.40	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:15 PM	240.00	1.90	23.50	28.80	5.30	28.80	24.10	23.50	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:30 PM	271.00	1.80	30.00	25.00	0.00	29.40	25.00	24.30	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 2:45 PM	301.00	2.00	30.80	25.10	0.00	30.80	25.10	24.50	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 3:00 PM	288.00	1.10	32.00	25.70	0.00	33.40	25.70	26.60	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 3:15 PM	271.00	1.60	31.60	26.20	0.00	33.90	26.20	27.10	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/17/12 3:30 PM	261.00	1.90	27.30	35.00	7.70	35.00	27.00	27.30	32.90	0.00								



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Indiana Harbor and Canal
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Real-Time Air Monitoring Data
12-15-12 to 12-21-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
12/18/12 11:00 PM	287.00	5.50	22.70	24.90	2.20	21.30	24.90	26.00	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/18/12 11:15 PM	301.00	4.50	21.90	23.90	2.00	0.00	23.90	24.50	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/18/12 11:30 PM	295.00	4.90	22.80	24.40	1.60	21.30	24.40	24.70	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/18/12 11:45 PM	307.00	4.70	24.60	25.20	0.60	23.90	25.20	25.20	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:00 AM	295.00	4.30	25.50	26.40	0.90	25.20	26.40	26.40	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:15 AM	322.00	4.20	26.40	26.40	0.00	0.00	26.40	27.40	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:30 AM	331.00	5.10	26.50	27.80	1.30	0.00	27.80	28.20	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:45 AM	332.00	4.30	24.50	26.10	1.60	25.10	26.10	25.60	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:00 AM	325.00	6.10	26.00	26.70	0.70	27.70	26.70	25.70	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:15 AM	317.00	5.00	25.10	25.00	0.00	25.70	25.00	24.20	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:30 AM	325.00	6.40	25.20	25.50	0.30	0.00	25.50	24.20	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:45 AM	335.00	5.40	23.30	24.60	1.30	25.20	24.60	24.20	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:00 AM	328.00	6.20	20.80	21.40	0.60	19.50	21.40	19.80	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:15 AM	322.00	5.50	19.60	19.00	0.00	21.60	19.00	18.50	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:30 AM	328.00	5.00	14.90	18.30	3.40	17.60	18.30	18.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:45 AM	330.00	3.90	15.30	15.20	0.00	14.30	15.20	14.00	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:00 AM	324.00	4.90	14.30	16.00	1.70	15.80	16.00	14.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:15 AM	322.00	3.30	13.30	13.00	0.00	10.80	13.00	12.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:30 AM	307.00	3.70	13.30	12.80	0.00	11.40	12.80	11.90	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:45 AM	317.00	3.00	12.70	11.50	0.00	11.10	11.50	11.10	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 4:00 AM	322.00	1.70	12.30	11.40	0.00	11.10	11.40	11.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 4:15 AM	304.00	1.60	12.20	11.50	0.00	10.90	11.50	11.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 4:30 AM	301.00	1.40	12.30	11.30	0.00	10.60	11.30	11.30	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 4:45 AM	298.00	2.00	13.10	11.50	0.00	11.00	11.50	11.40	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 5:00 AM	302.00	2.20	14.00	12.50	0.00	13.30	12.50	12.40	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 5:15 AM	319.00	2.90	16.10	13.50	0.00	14.40	13.50	13.80	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 5:30 AM	312.00	3.30	17.60	15.10	0.00	17.60	15.10	14.00	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 5:45 AM	305.00	3.30	18.20	15.50	0.00	0.00	15.50	15.40	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 6:00 AM	304.00	3.00	18.80	16.30	0.00	19.60	16.30	15.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 6:15 AM	290.00	3.30	18.30	16.20	0.00	19.10	16.20	15.80	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 6:30 AM	286.00	3.90	19.80	17.70	0.00	19.80	17.70	18.30	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 6:45 AM	278.00	3.20	23.20	19.70	0.00	22.90	19.70	18.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 7:00 AM	303.00	3.90	25.80	22.90	0.00	26.60	22.90	22.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 7:15 AM	280.00	3.30	27.20	23.70	0.00	28.20	23.70	22.50	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 7:30 AM	315.00	4.20	31.50	23.00	0.00	0.00	23.00	22.90	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 7:45 AM	348.00	2.80	28.90	26.60	0.00	30.40	26.60	25.40	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 8:00 AM	331.00	2.20	32.20	26.70	0.00	29.80	26.70	25.70	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 8:15 AM	336.00	2.30	30.70	27.40	0.00	0.00	27.40	26.70	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 8:30 AM	293.00	2.30	35.40	28.10	0.00	34.90	28.10	27.60	35.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 8:45 AM	323.00	2.70	33.60	29.70	0.00	33.70	29.70	28.80	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 9:00 AM	350.00	1.50	35.20	29.40	0.00	32.40	29.40	29.40	35.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 9:15 AM	330.00	1.80	31.90	28.90	0.00	31.80	28.90	27.40	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 9:30 AM	329.00	1.80	32.70	28.40	0.00	33.20	28.40	28.10	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 9:45 AM	320.00	2.00	35.10	28.90	0.00	33.50	28.90	28.70	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 10:00 AM	307.00	1.90	41.30	28.90	0.00	33.10	28.90	28.80	41.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 10:15 AM	297.00	1.90	35.00	29.30	0.00	33.50	29.30	29.70	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 10:30 AM	314.00	2.00	36.10	32.00	0.00	36.20	32.00	31.20	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 10:45 AM	355.00	1.90	38.60	32.90	0.00	0.00	32.90	33.10	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 11:00 AM	341.00	1.70	39.80	33.10	0.00	37.90	33.10	33.10	39.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 11:15 AM	330.00	1.20	37.60	33.60	0.00	36.20	33.60	32.90	37.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 11:30 AM	10.00	1.70	34.60	30.80	0.00	34.60	32.70	30.80	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 11:45 AM	56.00	1.20	31.60	30.60	0.00	31.60	31.20	30.60	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:00 PM	27.00	1.40	33.50	30.80	0.00	33.50	30.80	30.80	34.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:15 PM	23.00	2.30	35.30	30.60	0.00	35.30	34.60	30.60	35.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:30 PM	36.00	2.70	35.90	35.20	0.00	35.90	34.10	35.20	34.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 12:45 PM	40.00	2.10	31.80	32.40	0.60	31.80	33.70	32.40	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:00 PM	5.00	0.70	29.30	33.40	4.10	29.30	31.50	33.40	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:15 PM	19.00	1.30	31.30	29.20	0.00	31.30	33.30	29.20	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:30 PM	222.00	0.50	31.20	35.00	3.80	35.00	30.90	31.20	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 1:45 PM	82.00	0.70	29.80	31.00	1.20	29.80	30.50	31.00	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:00 PM	57.00	1.60	0.00	31.00	0.00	0.00	34.90	31.00	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:15 PM	79.00	1.70	41.30	31.90	0.00	41.30	40.80	31.90	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:30 PM	100.00	1.40	49.20	27.70	0.00	43.60	49.20	31.10	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 2:45 PM	122.00	1.70	40.90	40.00	0.00	38.20	40.90	40.70	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:00 PM	122.00	2.80	38.90	40.40	1.50	34.90	38.90	39.40	40.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:15 PM	156.00	1.60	42.00	43.20	1.20	42.30	42.00	40.50	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:30 PM	115.00	1.80	37.40	38.00	0.60	36.90	37.40	37.10	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/12 3:45 PM	156.00	1.90	29.90	31.90	2.00	26.20	29.90	30.40	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/																



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-15-12 to 12-21-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/19/12 10:45 PM	134.00	5.30	44.40	34.30	0.00	30.20	44.40	35.80	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/19/12 11:00 PM	120.00	5.20	0.00	29.40	0.00	27.50	0.00	32.00	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/19/12 11:15 PM	126.00	6.80	36.70	28.70	0.00	28.20	36.70	31.30	28.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/19/12 11:30 PM	132.00	5.50	36.70	30.50	0.00	31.50	36.70	31.20	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/19/12 11:45 PM	131.00	5.60	37.20	31.60	0.00	33.30	37.20	31.80	31.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:00 AM	125.00	6.00	38.00	32.00	0.00	32.60	38.00	31.90	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:15 AM	125.00	6.90	38.70	31.90	0.00	28.80	38.70	32.60	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:30 AM	122.00	6.00	38.10	31.50	0.00	27.60	38.10	32.10	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:45 AM	118.00	6.00	41.50	33.40	0.00	30.90	41.50	34.80	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:00 AM	107.00	5.10	51.10	34.70	0.00	30.10	51.10	38.50	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:15 AM	101.00	5.90	63.80	35.10	0.00	26.40	63.80	41.60	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:30 AM	99.00	5.20	56.70	34.50	0.00	24.90	56.70	45.90	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:45 AM	100.00	4.50	55.80	26.60	0.00	22.60	55.80	45.70	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:00 AM	120.00	3.10	58.80	25.00	0.00	22.60	58.80	50.20	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:15 AM	97.00	6.90	52.70	21.10	0.00	20.00	52.70	47.10	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:30 AM	124.00	7.60	53.10	19.40	0.00	18.80	53.10	47.40	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:45 AM	113.00	5.50	41.30	20.40	0.00	20.10	41.30	37.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 3:00 AM	119.00	7.30	38.80	19.50	0.00	18.60	38.80	33.90	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 3:15 AM	133.00	6.60	35.60	20.10	0.00	19.40	35.60	33.60	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 3:30 AM	120.00	7.60	34.00	20.70	0.00	19.40	34.00	31.90	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 3:45 AM	102.00	3.20	34.60	20.70	0.00	18.70	34.60	30.40	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 4:00 AM	144.00	6.00	34.30	19.70	0.00	18.30	34.30	30.20	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 4:15 AM	127.00	7.70	36.90	20.40	0.00	19.30	36.90	31.70	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 4:30 AM	137.00	7.00	32.60	20.10	0.00	19.20	32.60	30.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 4:45 AM	133.00	7.00	32.90	23.80	0.00	17.70	32.90	30.20	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 5:00 AM	132.00	7.00	34.20	25.30	0.00	18.30	34.20	31.60	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 5:15 AM	121.00	7.20	31.70	22.00	0.00	18.40	31.70	28.60	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 5:30 AM	131.00	8.00	32.20	22.00	0.00	16.20	32.20	25.70	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 5:45 AM	140.00	6.80	32.00	20.20	0.00	16.90	32.00	25.70	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 6:00 AM	146.00	8.10	29.50	16.00	0.00	17.50	29.50	17.80	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 6:15 AM	148.00	7.50	28.30	14.30	0.00	14.40	28.30	15.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 6:30 AM	152.00	6.40	27.80	15.40	0.00	15.10	27.80	15.10	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 6:45 AM	146.00	5.20	27.80	15.90	0.00	15.10	27.80	14.90	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 7:00 AM	158.00	6.30	27.80	13.80	0.00	15.30	27.80	14.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 7:15 AM	159.00	4.90	23.80	14.50	0.00	13.80	23.80	12.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 7:30 AM	149.00	8.20	15.60	9.40	0.00	6.40	15.60	9.80	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 7:45 AM	165.00	5.00	14.80	7.20	0.00	9.20	14.80	8.40	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 8:00 AM	174.00	4.30	14.50	6.80	0.00	4.80	14.50	8.90	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 8:15 AM	149.00	6.50	14.70	6.90	0.00	9.40	14.70	8.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 8:30 AM	147.00	10.60	13.80	5.70	0.00	8.00	13.80	7.30	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 8:45 AM	138.00	9.90	13.20	5.10	0.00	7.40	13.20	6.90	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 9:00 AM	153.00	8.40	13.90	5.90	0.00	5.40	13.90	6.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 9:15 AM	158.00	6.80	13.70	6.30	0.00	6.90	13.70	6.60	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 9:30 AM	166.00	4.60	13.30	5.90	0.00	9.00	13.30	6.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 9:45 AM	167.00	6.60	13.20	6.90	0.00	7.50	13.20	7.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 10:00 AM	162.00	3.90	12.80	6.80	0.00	5.00	12.80	7.20	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 10:15 AM	152.00	4.60	12.10	7.00	0.00	4.70	12.10	7.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 10:30 AM	157.00	5.60	11.70	6.80	0.00	5.20	11.70	8.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 10:45 AM	154.00	7.40	11.60	7.10	0.00	4.90	11.60	7.80	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:00 AM	161.00	6.60	11.70	6.70	0.00	5.60	11.70	8.40	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:15 AM	157.00	6.20	11.30	6.20	0.00	5.70	11.30	8.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:30 AM	170.00	5.90	11.60	5.90	0.00	5.50	11.60	9.30	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:45 AM	161.00	7.00	11.40	4.90	0.00	4.90	11.40	9.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:00 PM	155.00	6.80	11.70	4.90	0.00	4.40	11.70	8.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:15 PM	165.00	6.60	0.00	4.90	0.00	4.20	0.00	7.30	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:30 PM	166.00	6.50	10.20	4.30	0.00	3.70	10.20	5.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 12:45 PM	164.00	6.10	9.50	4.10	0.00	3.60	9.50	4.30	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:00 PM	170.00	7.00	9.10	3.40	0.00	3.00	9.10	3.30	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:15 PM	157.00	7.10	9.80	2.80	0.00	2.30	9.80	2.90	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:30 PM	159.00	6.20	9.60	2.40	0.00	3.70	9.60	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 1:45 PM	162.00	4.70	9.90	2.40	0.00	2.10	9.90	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:00 PM	164.00	7.80	9.10	1.70	0.00	3.10	9.10	2.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:15 PM	202.00	5.20	2.70	1.50	0.00	1.50	7.40	2.70	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:30 PM	232.00	8.20	2.20	1.70	0.00	1.70	7.80	2.20	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 2:45 PM	220.00	8.60	2.00	1.40	0.00	1.40	6.80	2.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 3:00 PM	227.00	7.40	2.20	2.30	0.10	2.30												



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-15-12 to 12-21-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/20/12 10:30 PM	333.00	7.80	0.90	1.20	0.30	-0.20	1.20	0.80	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 10:45 PM	329.00	8.70	0.90	1.00	0.10	-0.20	1.00	0.80	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:00 PM	327.00	10.30	0.90	1.10	0.20	-0.30	1.10	0.70	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:15 PM	0.00	0.00	0.00	0.00	0.00	-0.20	1.00	0.50	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:30 PM	321.00	6.70	0.90	1.50	0.60	-0.30	1.50	0.60	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/20/12 11:45 PM	322.00	10.00	0.90	2.00	1.10	-0.10	2.00	0.70	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:00 AM	332.00	9.30	0.90	2.30	1.40	0.00	2.30	0.80	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:15 AM	327.00	9.50	1.30	2.30	1.00	0.00	2.30	0.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:30 AM	317.00	9.90	1.30	2.10	0.80	0.00	2.10	0.90	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:45 AM	315.00	7.90	1.30	2.60	1.30	0.00	2.60	1.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:00 AM	317.00	9.50	1.50	2.90	1.40	0.00	2.90	1.10	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:15 AM	316.00	7.70	1.70	2.40	0.70	0.10	2.40	1.10	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:30 AM	0.00	0.00	0.00	0.00	0.00	0.00	2.20	1.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:45 AM	310.00	10.10	1.60	2.20	0.60	0.10	2.20	1.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:00 AM	0.00	0.00	0.00	0.00	0.00	0.20	2.20	1.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:15 AM	0.00	0.00	0.00	0.00	0.00	0.10	2.00	1.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:30 AM	0.00	0.00	0.00	0.00	0.00	0.30	2.10	1.40	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:45 AM	0.00	0.00	0.00	0.00	0.00	0.30	2.20	1.40	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 3:00 AM	318.00	8.40	2.30	2.00	0.00	0.40	2.00	1.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 3:15 AM	323.00	11.00	2.00	1.90	0.00	0.30	1.90	1.40	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 3:30 AM	319.00	12.90	2.40	1.90	0.00	0.40	1.90	1.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 3:45 AM	321.00	9.30	2.40	2.00	0.00	0.00	2.00	1.30	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 4:00 AM	326.00	10.10	2.70	3.00	0.30	0.00	3.00	1.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 4:15 AM	325.00	11.80	2.30	2.50	0.20	0.40	2.50	1.40	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 4:30 AM	326.00	11.20	2.30	1.90	0.00	0.30	1.90	1.30	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 4:45 AM	326.00	9.20	1.90	4.20	2.30	0.00	4.20	1.70	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 5:00 AM	326.00	8.70	2.10	1.80	0.00	0.30	1.80	1.40	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 5:15 AM	327.00	8.60	1.90	1.90	0.00	0.20	1.90	1.30	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 5:30 AM	318.00	9.40	1.90	1.80	0.00	0.30	1.80	1.30	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 5:45 AM	321.00	10.60	1.90	1.90	0.00	0.10	1.90	1.20	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 6:00 AM	316.00	10.30	2.20	2.00	0.00	0.30	2.00	1.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 6:15 AM	323.00	9.20	2.20	2.00	0.00	0.60	2.00	1.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 6:30 AM	330.00	9.60	2.20	2.10	0.00	0.50	2.10	1.70	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 6:45 AM	323.00	11.10	2.80	2.10	0.00	0.40	2.10	1.90	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 7:00 AM	325.00	9.00	2.50	2.10	0.00	0.60	2.10	1.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 7:15 AM	332.00	8.10	2.50	2.40	0.00	0.50	2.40	1.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 7:30 AM	328.00	9.50	2.60	2.60	0.00	0.40	2.60	1.70	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 7:45 AM	326.00	11.20	2.60	2.50	0.00	0.60	2.50	1.80	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 8:00 AM	330.00	9.50	2.70	2.60	0.00	0.70	2.60	2.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 8:15 AM	329.00	8.90	2.90	2.40	0.00	0.80	2.40	2.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 8:30 AM	338.00	7.60	3.00	2.40	0.00	0.70	2.40	2.40	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 8:45 AM	336.00	8.30	2.90	2.70	0.00	0.90	2.70	2.70	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 9:00 AM	335.00	7.80	3.20	2.90	0.00	0.90	2.90	2.50	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 9:15 AM	340.00	9.60	3.90	3.00	0.00	1.10	3.00	2.60	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 9:30 AM	341.00	10.40	3.80	3.10	0.00	0.90	3.10	2.60	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 9:45 AM	335.00	9.60	4.00	3.20	0.00	1.20	3.20	3.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 10:00 AM	338.00	9.20	4.30	3.60	0.00	1.40	3.60	2.90	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 10:15 AM	328.00	7.70	3.60	3.40	0.00	1.20	3.40	2.90	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 10:30 AM	323.00	8.60	3.90	3.50	0.00	1.30	3.50	3.20	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 10:45 AM	338.00	9.20	3.90	3.30	0.00	1.30	3.30	2.80	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 11:00 AM	335.00	8.70	4.20	3.40	0.00	1.50	3.40	3.10	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 11:15 AM	347.00	7.90	3.50	3.30	0.00	1.20	3.30	2.90	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 11:30 AM	335.00	7.70	3.70	3.50	0.00	1.30	3.50	3.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 11:45 AM	355.00	5.80	3.60	3.30	0.00	1.30	3.30	3.20	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:00 PM	351.00	9.80	4.00	3.60	0.00	1.30	3.60	3.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:15 PM	347.00	6.90	3.50	3.40	0.00	1.20	3.40	3.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:30 PM	353.00	7.60	3.50	5.60	2.10	1.50	5.60	2.70	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 12:45 PM	332.00	7.60	3.60	6.30	2.70	1.40	6.30	2.70	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:00 PM	345.00	6.60	3.60	6.30	2.70	1.20	6.30	3.30	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:15 PM	349.00	6.80	3.40	6.70	3.30	1.60	6.70	3.40	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:30 PM	330.00	8.60	3.40	6.20	3.80	1.50	6.20	3.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 1:45 PM	336.00	8.00	4.00	6.40	2.40	1.70	6.40	3.30	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:00 PM	334.00	8.60	4.10	6.70	2.60	1.80	6.70	3.90	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:15 PM	327.00	6.50	4.40	0.00	0.00	1.90	0.00	3.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:30 PM	331.00	8.20	4.40	5.80	1.40	1.90	5.80	3.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 2:45 PM	332.00	7.90	4.40	0.00	0.00	1.90	0.00	6.20	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/21/12 3:00 PM	336.00	6.90	5.20	6.20	1.00	2.20	6.20	4.70	5.20	0.00	0.00	0.00	0.0					



**US Army Corps
of Engineers**

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
12/21/12 10:15 PM	327.00	6.20	10.50	8.60	0.00	6.30	8.60	8.90	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/12 10:30 PM	326.00	4.80	10.50	8.60	0.00	5.90	8.60	8.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/12 10:45 PM	324.00	5.20	11.30	9.60	0.00	6.20	9.60	10.50	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/12 11:00 PM	324.00	4.60	11.60	9.10	0.00	7.30	9.10	15.50	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/12 11:15 PM	325.00	4.70	11.30	8.90	0.00	7.60	8.90	10.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/12 11:30 PM	325.00	4.60	11.40	9.30	0.00	7.60	9.30	10.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/12 11:45 PM	326.00	3.40	11.30	9.40	0.00	7.40	9.40	10.30	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-22-12 to 12-31-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/23/12 11:30 PM	72.00	5.90	1.00	3.10	2.10	1.00	6.20	3.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/23/12 11:45 PM	87.00	4.70	0.00	1.50	1.50	0.00	5.50	1.50	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:00 AM	95.00	3.10	7.60	5.20	0.00	1.70	7.60	3.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:15 AM	86.00	4.00	2.10	3.50	1.40	2.10	7.50	3.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:30 AM	145.00	2.90	9.30	4.20	0.00	2.10	9.30	4.40	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:45 AM	147.00	2.40	12.40	6.20	0.00	0.00	12.40	6.60	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:00 AM	143.00	3.30	9.40	7.10	0.00	5.00	9.40	4.60	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:15 AM	139.00	3.30	10.80	6.30	0.00	4.30	10.80	5.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:30 AM	141.00	3.30	10.90	5.90	0.00	4.20	10.90	6.10	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:45 AM	137.00	3.90	10.90	6.70	0.00	4.40	10.90	5.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:00 AM	129.00	4.30	9.40	6.60	0.00	0.00	9.40	5.30	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:15 AM	143.00	3.80	12.50	6.30	0.00	3.90	12.50	7.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:30 AM	144.00	2.90	11.30	9.60	0.00	0.00	11.30	7.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:45 AM	130.00	3.70	11.60	9.00	0.00	8.20	11.60	7.30	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:00 AM	119.00	3.30	12.50	9.70	0.00	8.80	12.50	8.80	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:15 AM	100.00	3.00	0.00	7.30	0.00	6.50	0.00	10.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:30 AM	128.00	3.10	10.60	6.30	0.00	4.40	10.60	7.40	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:45 AM	134.00	3.00	12.50	8.70	0.00	8.60	12.50	7.90	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 4:00 AM	139.00	3.10	0.00	9.70	0.00	11.90	0.00	15.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 4:15 AM	136.00	3.90	17.20	9.70	0.00	16.30	17.20	12.40	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 4:30 AM	131.00	4.00	16.80	17.20	0.40	0.00	16.80	13.00	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 4:45 AM	129.00	3.70	17.60	17.80	0.20	17.60	17.60	13.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 5:00 AM	89.00	4.00	18.20	18.90	0.70	18.20	0.00	18.90	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 5:15 AM	120.00	3.30	18.10	12.60	0.00	12.10	18.10	15.90	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 5:30 AM	141.00	3.00	17.60	12.50	0.00	12.10	17.60	13.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 5:45 AM	135.00	3.80	17.60	14.20	0.00	12.50	17.60	15.30	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 6:00 AM	132.00	3.40	25.60	17.60	0.00	19.50	25.60	23.60	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 6:15 AM	80.00	3.30	19.50	27.10	7.60	19.50	25.60	27.10	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 6:30 AM	117.00	1.10	30.90	24.50	0.00	23.70	30.90	24.70	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 6:45 AM	82.00	4.60	25.80	28.20	2.40	25.80	29.60	28.20	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 7:00 AM	87.00	3.80	25.20	21.40	0.00	25.20	22.20	21.40	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 7:15 AM	79.00	3.50	24.50	20.90	0.00	24.50	22.10	20.90	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 7:30 AM	85.00	3.50	24.70	21.10	0.00	24.70	23.00	21.10	24.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 7:45 AM	33.00	2.10	21.10	20.10	0.00	21.10	20.90	20.10	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 8:00 AM	39.00	1.80	24.50	21.60	0.00	24.50	23.50	21.60	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 8:15 AM	79.00	2.60	27.00	25.70	0.00	27.00	26.90	25.70	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 8:30 AM	85.00	4.60	30.10	27.30	0.00	30.10	23.80	27.30	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 8:45 AM	66.00	3.30	26.70	23.80	0.00	26.70	23.80	23.80	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 9:00 AM	63.00	3.80	28.60	24.80	0.00	28.60	0.00	24.80	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 9:15 AM	84.00	2.80	30.20	28.20	0.00	30.20	0.00	28.20	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 9:30 AM	96.00	1.50	25.40	25.10	0.00	26.40	25.40	26.70	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 9:45 AM	71.00	4.00	28.50	24.50	0.00	28.50	23.10	24.50	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 10:00 AM	91.00	3.80	21.90	24.20	2.30	29.10	21.90	21.70	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 10:15 AM	84.00	2.50	24.90	20.70	0.00	24.90	21.00	20.70	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 10:30 AM	121.00	2.80	21.60	25.90	4.30	26.30	21.60	21.90	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 10:45 AM	69.00	2.90	0.00	25.10	0.00	0.00	25.20	25.10	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 11:00 AM	61.00	2.60	28.80	36.00	7.20	28.80	29.60	36.00	24.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 11:15 AM	77.00	3.00	28.80	28.60	0.00	28.80	32.40	28.60	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 11:30 AM	58.00	2.80	28.30	25.90	0.00	28.30	32.50	25.90	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 11:45 AM	93.00	2.10	28.20	24.40	0.00	0.00	28.20	26.30	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:00 PM	45.00	3.80	34.00	29.70	0.00	34.00	28.90	29.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:15 PM	62.00	3.60	22.50	23.70	1.20	22.50	32.70	23.70	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:30 PM	50.00	2.80	25.40	23.30	0.00	25.40	31.60	23.30	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 12:45 PM	57.00	2.20	22.10	21.70	0.00	22.10	29.20	21.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:00 PM	358.00	2.20	18.90	36.80	17.90	29.10	36.80	19.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:15 PM	20.00	3.10	0.00	18.00	0.00	0.00	32.70	18.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:30 PM	344.00	2.20	17.90	28.50	10.60	18.60	28.50	19.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 1:45 PM	312.00	2.20	18.20	27.20	9.00	18.70	27.20	18.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:00 PM	323.00	3.00	18.00	24.90	6.90	18.30	24.90	17.10	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:15 PM	359.00	3.50	16.90	25.50	8.60	18.10	25.50	17.20	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:30 PM	8.00	2.50	17.50	16.80	0.00	17.50	24.20	16.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 2:45 PM	4.00	3.60	0.00	17.60	0.00	0.00	0.00	17.60	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:00 PM	9.00	3.40	15.40	15.30	0.00	15.40	21.60	15.30	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:15 PM	356.00	5.00	15.20	19.20	4.00	18.00	19.20	15.00	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:30 PM	6.00	6.90	15.40	14.30	0.00	15.40	0.00	14.30	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/24/12 3:45 PM	9.00	9.00	14.40	13.50	0.00	14.40	1											



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-22-12 to 12-31-12

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/24/12 11:15 PM	359.00	5.40	9.50	10.80	1.30	8.30	10.80	8.90	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/24/12 11:30 PM	357.00	7.70	9.30	10.00	0.70	7.90	10.00	8.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/24/12 11:45 PM	357.00	4.40	9.70	10.10	0.40	7.90	10.10	9.30	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:00 AM	354.00	3.30	9.50	10.00	0.50	0.00	10.00	10.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:15 AM	332.00	2.30	12.00	0.00	0.00	11.40	0.00	11.60	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:30 AM	359.00	4.10	11.40	12.00	0.60	0.00	12.00	11.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:45 AM	337.00	4.40	11.00	10.60	0.00	10.20	10.60	12.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:00 AM	354.00	3.50	10.40	9.70	0.00	9.80	9.70	9.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:15 AM	355.00	3.80	11.10	10.30	0.00	0.00	10.30	9.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:30 AM	349.00	3.70	11.00	10.20	0.00	10.00	10.20	10.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:45 AM	354.00	4.60	10.70	9.50	0.00	0.00	9.50	9.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:00 AM	353.00	4.40	10.20	9.30	0.00	8.70	9.30	10.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:15 AM	356.00	4.80	12.60	10.80	0.00	9.90	10.80	10.60	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:30 AM	355.00	3.60	10.40	10.30	0.00	9.10	10.30	10.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:45 AM	359.00	4.60	9.00	8.10	0.00	7.80	8.10	9.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:00 AM	359.00	4.60	7.60	7.50	0.00	6.90	7.50	8.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:15 AM	359.00	4.20	6.90	6.70	0.00	5.10	6.70	6.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:30 AM	356.00	3.60	6.50	6.40	0.00	4.80	6.40	6.80	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:45 AM	356.00	5.00	7.30	7.30	0.00	5.60	7.30	6.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 4:00 AM	336.00	4.70	8.20	8.50	0.30	6.20	8.50	13.90	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 4:15 AM	345.00	3.10	8.00	7.30	0.00	8.90	7.30	7.30	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 4:30 AM	340.00	4.40	8.20	7.20	0.00	7.50	7.20	7.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 4:45 AM	353.00	2.70	7.60	6.80	0.00	7.40	6.80	6.70	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 5:00 AM	353.00	2.90	8.40	7.60	0.00	7.40	7.60	6.90	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 5:15 AM	7.00	3.90	6.10	7.60	1.50	6.10	7.00	7.60	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 5:30 AM	14.00	7.90	5.40	6.70	1.30	5.40	6.10	6.70	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 5:45 AM	9.00	8.70	4.70	5.70	1.00	4.70	5.90	5.70	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 6:00 AM	4.00	7.50	5.00	5.80	0.80	5.00	6.30	5.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 6:15 AM	359.00	6.80	5.90	6.10	0.20	5.40	6.10	5.80	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 6:30 AM	6.00	6.60	5.40	6.10	0.70	5.40	6.30	6.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 6:45 AM	359.00	5.60	6.00	6.00	0.00	5.40	6.00	5.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 7:00 AM	3.00	6.80	4.70	5.80	1.10	4.70	6.00	5.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 7:15 AM	4.00	6.00	5.10	5.90	0.80	5.10	6.20	5.90	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 7:30 AM	357.00	6.20	6.30	6.50	0.20	5.10	6.50	6.50	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 7:45 AM	357.00	4.80	6.50	6.50	0.00	5.50	6.50	6.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 8:00 AM	2.00	4.10	5.50	7.20	1.70	5.50	6.70	7.20	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 8:15 AM	359.00	4.40	7.00	7.10	0.10	6.30	7.10	8.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 8:30 AM	345.00	4.80	7.20	7.00	0.00	6.70	7.00	7.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 8:45 AM	355.00	4.40	7.70	7.10	0.00	0.00	7.10	8.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 9:00 AM	356.00	5.70	7.20	7.00	0.00	6.30	7.00	7.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 9:15 AM	4.00	6.00	5.90	7.00	1.10	5.90	6.80	7.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 9:30 AM	10.00	5.30	4.90	6.20	1.30	4.90	7.30	6.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 9:45 AM	86.00	2.20	5.40	7.60	2.20	5.40	10.70	7.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 10:00 AM	167.00	0.60	13.20	11.80	0.00	15.80	13.20	8.90	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 10:15 AM	222.00	2.40	7.90	13.40	5.50	13.40	15.90	7.90	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 10:30 AM	181.00	2.10	12.80	15.30	2.50	15.30	14.00	12.80	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 10:45 AM	279.00	1.20	12.80	21.40	8.60	12.60	21.40	12.60	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 11:00 AM	255.00	2.10	14.20	13.50	0.00	13.50	18.00	14.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 11:15 AM	228.00	0.90	10.20	11.00	0.80	11.00	13.20	10.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 11:30 AM	88.00	2.30	9.70	10.20	0.50	9.70	13.20	10.20	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 11:45 AM	72.00	3.80	7.10	2.60	0.00	7.10	0.00	2.60	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:00 PM	65.00	2.80	1.00	2.50	1.50	1.00	3.60	2.50	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:15 PM	123.00	1.70	3.40	2.30	0.00	0.00	3.40	2.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:30 PM	99.00	2.00	3.40	2.50	0.00	1.80	3.40	7.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 12:45 PM	89.00	3.30	1.90	2.30	0.40	1.90	3.80	2.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:00 PM	90.00	2.30	4.00	2.70	0.00	2.40	4.00	3.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:15 PM	51.00	2.00	2.80	3.00	0.20	2.80	4.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:30 PM	70.00	2.30	3.40	3.00	0.00	3.40	3.70	3.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 1:45 PM	90.00	3.90	3.60	4.00	0.40	3.80	3.60	3.60	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:00 PM	87.00	4.00	2.20	2.60	0.40	2.20	2.80	2.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:15 PM	67.00	4.80	1.80	2.80	1.00	1.80	3.10	2.80	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:30 PM	58.00	5.80	2.40	3.50	1.10	2.40	2.80	3.50	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 2:45 PM	64.00	3.40	5.00	3.60	0.00	5.00	3.00	3.60	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:00 PM	59.00	6.10	5.00	5.10	0.10	5.00	2.90	5.10	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:15 PM	66.00	7.10	2.10	5.20	3.10	2.10	5.00	5.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:30 PM	37.00	8.30	0.00	2.10	0.00	0.00	5.00	2.10	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 3:45 PM	52.00	6.70	2.40	2.90	0.50	2.40	4.00	2.90	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 4:00 PM	51.00	8.40	4.30	6.00	1.70	4.30	6.50	6.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 4:15 PM	61.00	6.20	3.50	4.50	1.00	3.50	5.90	4.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12/25/12 4:30 PM	56.00	8.00	5.70	3.30	0.00	5.70	4.80	3.30	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1																		



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-22-12 to 12-31-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/25/12 11:00 PM	75.00	7.10	14.20	4.50	0.00	14.20	8.20	4.50	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/25/12 11:15 PM	87.00	8.60	23.90	4.90	0.00	23.90	8.10	4.90	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/25/12 11:30 PM	78.00	9.70	47.40	9.50	0.00	47.40	8.90	9.50	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/25/12 11:45 PM	84.00	6.90	22.50	5.60	0.00	22.50	7.80	5.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:00 AM	72.00	9.80	5.20	5.10	0.00	5.20	8.40	5.10	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:15 AM	84.00	8.60	8.60	6.20	0.00	8.60	6.90	6.20	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:30 AM	76.00	8.90	0.00	6.90	0.00	0.00	7.00	6.90	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:45 AM	78.00	8.30	7.00	3.70	0.00	7.00	6.20	3.70	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:00 AM	73.00	8.00	0.00	6.80	0.00	0.00	5.90	6.80	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:15 AM	79.00	5.60	0.00	3.40	0.00	0.00	6.60	3.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:30 AM	71.00	7.60	32.00	7.10	0.00	32.00	5.10	7.10	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:45 AM	67.00	8.90	20.40	12.70	0.00	20.40	12.20	12.70	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:00 AM	53.00	10.90	14.20	23.20	0.00	14.20	10.90	23.20	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:15 AM	64.00	7.10	26.90	18.20	9.00	26.90	0.00	18.20	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:30 AM	74.00	6.70	21.50	5.30	0.00	21.50	9.10	5.30	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:45 AM	47.00	9.50	0.00	19.10	0.00	0.00	7.10	19.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 3:00 AM	44.00	10.20	3.80	6.30	2.50	3.80	10.90	6.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 3:15 AM	51.00	10.30	4.40	11.50	7.10	4.40	0.00	11.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 3:30 AM	49.00	8.40	2.90	5.40	2.50	2.90	10.80	5.40	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 3:45 AM	58.00	9.30	3.50	5.10	1.60	3.50	6.60	5.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 4:00 AM	49.00	11.00	4.60	6.10	1.50	4.60	8.70	6.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 4:15 AM	52.00	7.80	3.30	6.20	2.90	3.30	8.90	6.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 4:30 AM	51.00	9.10	0.00	14.10	0.00	0.00	19.30	14.10	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 4:45 AM	49.00	9.70	14.90	5.60	0.00	14.90	0.00	5.60	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 5:00 AM	50.00	8.00	3.10	7.00	3.90	3.10	11.10	7.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 5:15 AM	50.00	9.50	3.90	5.60	1.70	3.90	10.00	5.60	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 5:30 AM	53.00	13.60	5.50	5.90	4.40	5.50	10.40	5.90	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 5:45 AM	65.00	8.20	16.60	15.60	0.00	16.60	18.30	15.60	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 6:00 AM	76.00	7.90	16.10	12.50	0.00	16.10	13.60	12.50	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 6:15 AM	49.00	11.90	0.00	18.20	0.00	0.00	0.00	18.20	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 6:30 AM	47.00	13.50	0.00	11.60	0.00	0.00	35.50	11.60	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 6:45 AM	53.00	12.80	8.30	9.60	1.30	8.30	20.30	9.60	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 7:00 AM	60.00	12.90	12.30	10.70	0.00	12.30	21.40	10.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 7:15 AM	53.00	14.00	14.90	20.00	5.10	14.90	42.70	20.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 7:30 AM	57.00	14.50	19.60	18.30	0.00	19.60	25.50	18.30	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 7:45 AM	60.00	13.80	16.90	21.10	4.20	16.90	46.40	21.10	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 8:00 AM	62.00	14.10	20.40	21.70	1.30	20.40	46.40	21.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 8:15 AM	51.00	13.00	14.30	34.60	20.30	14.30	37.50	34.60	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 8:30 AM	47.00	14.00	13.70	10.20	0.00	13.70	19.50	10.20	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 8:45 AM	51.00	12.70	12.10	14.40	2.30	12.10	0.00	14.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 9:00 AM	49.00	8.10	14.10	10.40	0.00	14.10	18.50	10.40	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 9:15 AM	54.00	8.10	10.40	12.90	2.50	10.40	14.90	12.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 9:30 AM	47.00	10.50	14.00	11.30	0.00	14.00	18.90	11.30	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 9:45 AM	41.00	12.40	14.00	13.50	0.00	14.00	17.20	13.50	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 10:00 AM	36.00	13.30	4.70	8.20	3.50	4.70	14.70	8.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 10:15 AM	45.00	13.00	4.90	6.40	1.50	4.90	13.80	6.40	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 10:30 AM	50.00	13.00	6.90	6.90	0.00	6.90	16.30	6.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 10:45 AM	39.00	9.90	7.20	9.10	1.90	7.20	0.00	9.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 11:00 AM	35.00	13.70	6.00	8.60	2.60	6.00	19.40	8.60	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 11:15 AM	39.00	12.90	0.00	11.70	0.00	0.00	20.00	11.70	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 11:30 AM	30.00	14.00	0.00	11.80	0.00	0.00	22.70	11.80	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 11:45 AM	40.00	12.00	6.50	11.20	4.70	6.50	28.90	11.20	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:00 PM	34.00	12.40	8.40	10.20	1.80	8.40	28.90	10.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:15 PM	44.00	12.60	0.00	14.00	0.00	0.00	15.60	14.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:30 PM	36.00	12.10	7.50	12.20	4.70	7.50	12.90	12.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 12:45 PM	36.00	11.70	8.30	11.10	2.80	8.30	22.00	11.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:00 PM	32.00	12.30	8.70	11.70	3.00	8.70	14.30	11.70	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:15 PM	26.00	14.00	9.50	13.20	3.70	9.50	13.90	13.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:30 PM	31.00	10.80	8.20	13.80	5.60	8.20	12.30	13.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 1:45 PM	28.00	13.30	10.30	13.60	3.30	10.30	15.00	13.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:00 PM	30.00	13.00	0.00	11.70	0.00	0.00	12.10	11.70	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:15 PM	28.00	12.40	7.30	30.50	23.20	7.30	12.80	30.50	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:30 PM	34.00	13.70	9.50	11.30	1.80	9.50	12.10	11.30	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 2:45 PM	32.00	13.80	9.20	12.50	3.30	9.20	13.20	12.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 3:00 PM	38.00	12.00	6.20	13.20	7.00	6.20	11.20	13.20	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/26/12 3:15 PM	37.00	12.60	7.20	12.70	5.50	7.20	12.90	12.70	9.70	0.00	0.00	0.0						



US Army Corps of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
12-22-12 to 12-31-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/27/12 10:30 PM	186.00	2.90	21.00	21.80	0.80	21.80	20.10	21.00	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/27/12 10:45 PM	198.00	3.00	21.30	22.00	0.70	22.00	20.10	21.30	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/27/12 11:00 PM	199.00	2.90	22.20	0.00	0.00	0.00	20.10	22.20	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/27/12 11:15 PM	209.00	3.60	24.00	26.30	2.30	26.30	25.20	24.00	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/27/12 11:30 PM	215.00	2.80	25.50	27.20	1.70	27.20	25.90	25.50	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/27/12 11:45 PM	217.00	2.80	26.20	28.70	2.50	28.70	27.20	26.20	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:00 AM	211.00	2.90	25.70	30.10	4.40	30.10	27.70	25.70	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:15 AM	214.00	2.10	25.30	30.10	4.80	30.10	27.70	25.30	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:30 AM	205.00	2.60	26.90	0.00	0.00	0.00	28.30	26.90	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:45 AM	188.00	4.70	27.00	34.00	7.00	34.00	30.30	27.00	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:00 AM	210.00	3.50	36.80	40.10	3.30	40.10	36.00	36.80	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:15 AM	200.00	3.40	37.80	43.30	5.50	43.30	38.30	37.80	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:30 AM	207.00	3.50	39.00	43.70	4.70	43.70	41.20	39.00	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:45 AM	203.00	3.70	37.50	40.90	3.40	40.90	38.30	37.50	39.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 2:00 AM	205.00	2.70	34.70	37.10	2.40	37.10	34.90	34.70	35.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 2:15 AM	195.00	3.10	30.80	37.10	6.30	37.10	0.00	30.80	33.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 2:30 AM	216.00	3.70	30.60	32.80	2.20	32.80	0.00	30.60	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 2:45 AM	212.00	4.20	28.70	30.70	2.00	30.70	29.40	28.70	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 3:00 AM	210.00	3.00	28.00	30.70	2.70	30.70	29.40	28.00	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 3:15 AM	214.00	3.10	26.30	27.20	0.90	27.20	27.00	26.30	26.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 3:30 AM	210.00	2.40	25.40	26.40	1.00	26.40	26.20	25.40	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 3:45 AM	213.00	1.90	23.70	25.40	1.70	25.40	25.50	23.70	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 4:00 AM	203.00	1.80	23.90	25.20	1.30	25.20	25.20	23.90	24.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 4:15 AM	180.00	1.50	23.40	23.60	0.20	23.60	23.60	23.40	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 4:30 AM	203.00	1.90	22.90	23.60	0.70	23.60	23.80	22.90	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 4:45 AM	199.00	1.50	22.00	22.00	0.00	22.00	22.30	22.00	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 5:00 AM	198.00	2.10	21.10	21.50	0.40	21.50	22.00	21.10	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 5:15 AM	206.00	2.80	20.20	20.20	0.00	20.20	19.40	20.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 5:30 AM	189.00	2.60	18.60	18.50	0.00	18.50	18.20	18.60	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 5:45 AM	219.00	2.10	17.80	0.00	0.00	0.00	17.30	17.80	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 6:00 AM	179.00	1.40	15.10	17.20	2.10	15.10	15.10	16.20	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 6:15 AM	199.00	2.40	13.90	14.20	0.30	14.60	15.00	13.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 6:30 AM	180.00	1.80	14.50	15.00	0.50	15.00	15.30	14.50	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 6:45 AM	171.00	1.80	14.50	16.90	2.40	14.20	14.50	15.70	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 7:00 AM	170.00	2.60	14.60	16.00	1.40	12.90	14.60	15.80	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 7:15 AM	159.00	2.10	17.50	15.90	0.00	17.10	17.50	14.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 7:30 AM	200.00	2.70	18.70	17.60	0.00	17.60	21.20	18.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 7:45 AM	182.00	2.80	19.10	20.30	1.20	20.30	20.60	19.10	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 8:00 AM	179.00	2.50	21.20	20.00	0.00	20.00	21.20	20.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 8:15 AM	177.00	3.30	22.00	20.30	0.00	20.90	22.00	19.90	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 8:30 AM	184.00	3.00	21.10	22.30	1.20	22.30	22.90	21.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 8:45 AM	169.00	2.60	21.50	25.50	4.00	21.80	21.50	22.10	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 9:00 AM	164.00	2.10	19.90	23.10	3.20	19.30	19.90	19.80	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 9:15 AM	154.00	2.20	22.00	23.50	1.50	27.80	22.00	22.30	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 9:30 AM	159.00	2.70	23.00	26.80	3.80	33.90	23.00	24.10	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 9:45 AM	151.00	3.70	0.00	30.70	0.00	37.90	0.00	26.80	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 10:00 AM	159.00	2.40	31.60	31.90	0.30	38.10	31.60	31.40	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 10:15 AM	146.00	3.10	29.40	27.50	0.00	34.50	29.40	28.50	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 10:30 AM	152.00	3.80	29.40	29.70	0.30	38.20	29.40	28.10	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 10:45 AM	170.00	3.10	27.00	25.80	0.00	26.10	27.00	23.70	25.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:00 AM	153.00	3.90	28.50	24.40	0.00	0.00	28.50	23.60	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:15 AM	157.00	5.20	31.80	28.00	0.00	35.70	31.80	24.30	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:30 AM	145.00	3.60	34.30	27.70	0.00	35.70	34.30	25.90	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:45 AM	150.00	4.90	35.50	27.80	0.00	0.00	35.50	28.00	27.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:00 PM	172.00	3.70	34.20	28.50	0.00	29.60	34.20	27.70	28.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:15 PM	186.00	4.20	21.30	23.90	2.60	23.90	25.20	21.30	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:30 PM	185.00	3.60	20.40	20.60	0.20	20.60	25.20	20.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 12:45 PM	183.00	2.90	18.80	20.90	2.10	20.90	0.00	18.80	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:00 PM	176.00	3.50	23.00	20.10	0.00	22.00	23.00	18.80	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:15 PM	175.00	3.00	23.30	20.30	0.00	20.10	23.30	18.10	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:30 PM	152.00	3.50	23.00	21.30	0.00	19.70	23.00	18.60	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 1:45 PM	165.00	4.90	21.40	19.20	0.00	21.00	21.40	19.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 2:00 PM	171.00	4.50	21.40	19.20	0.00	21.00	21.40	19.10	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 2:15 PM	169.00	3.30	21.00	19.20	0.00	21.20	21.00	18.70	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 2:30 PM	189.00	3.80	19.90	21.60	1.70	21.60	22.40	19.90	19.70	0.00	0.00	0.						



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Indiana Harbor and Canal
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12-22-12 to 12-31-12

Reading Date	Wind Direction Degrees Clockwise From North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
12/28/12 10:15 PM	167.00	2.00	20.00	18.80	0.00	17.70	20.00	16.30	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 10:30 PM	191.00	1.70	16.00	19.80	3.80	19.80	20.10	16.00	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 10:45 PM	200.00	1.90	17.30	19.30	2.00	19.30	21.00	17.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:00 PM	184.00	2.00	16.90	18.20	1.30	18.20	21.00	16.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:15 PM	176.00	2.10	21.00	19.80	0.00	26.10	21.00	19.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:30 PM	208.00	1.10	19.00	26.10	7.10	26.10	21.00	19.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/28/12 11:45 PM	177.00	1.10	20.80	19.20	0.00	25.90	20.80	18.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:00 AM	199.00	2.10	19.30	24.30	5.00	24.30	20.30	19.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:15 AM	209.00	1.20	18.30	28.10	9.80	28.10	20.30	18.30	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:30 AM	240.00	1.50	18.80	0.00	0.00	0.00	19.30	18.80	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:45 AM	251.00	1.50	19.90	26.20	6.30	26.20	19.80	19.90	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:00 AM	215.00	1.60	19.50	26.60	7.10	26.60	20.70	19.50	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:15 AM	232.00	1.30	21.30	27.60	6.30	27.60	20.90	21.30	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:30 AM	231.00	1.40	24.60	29.90	5.30	29.90	24.00	24.60	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:45 AM	214.00	0.90	25.50	33.90	8.40	33.90	24.80	25.50	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 2:00 AM	199.00	1.50	26.10	36.10	10.00	36.10	26.00	26.10	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 2:15 AM	215.00	1.10	25.60	36.00	10.40	36.00	25.90	25.60	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 2:30 AM	254.00	2.00	25.10	32.80	7.70	32.80	0.00	25.10	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 2:45 AM	261.00	2.50	24.50	28.50	4.00	28.50	25.00	24.50	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 3:00 AM	261.00	2.60	23.50	29.50	6.00	29.50	24.20	23.50	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 3:15 AM	260.00	2.00	26.50	31.00	4.50	31.00	0.00	26.50	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 3:30 AM	259.00	2.40	30.50	36.20	5.70	36.20	0.00	30.50	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 3:45 AM	258.00	2.10	32.70	38.70	6.00	38.70	32.60	32.70	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 4:00 AM	252.00	2.40	36.30	40.10	3.80	40.10	34.80	36.30	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 4:15 AM	251.00	1.90	42.20	45.80	3.60	45.80	40.30	42.20	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 4:30 AM	251.00	1.90	47.30	49.00	1.70	49.00	47.80	47.30	44.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 4:45 AM	274.00	2.50	50.70	49.70	0.00	57.20	49.70	50.30	50.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 5:00 AM	285.00	2.40	54.80	51.10	0.00	59.80	51.10	50.80	54.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 5:15 AM	283.00	2.70	52.60	52.40	0.00	59.90	52.40	50.90	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 5:30 AM	285.00	2.20	52.60	0.00	0.00	60.20	0.00	52.10	52.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 5:45 AM	297.00	2.90	51.80	54.50	2.70	54.30	54.50	51.60	51.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 6:00 AM	290.00	3.70	50.00	51.50	1.50	54.30	51.50	50.90	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 6:15 AM	303.00	2.90	47.40	49.10	1.70	47.20	49.10	49.00	47.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 6:30 AM	300.00	2.60	37.30	47.30	10.00	39.40	47.30	47.20	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 6:45 AM	312.00	2.40	34.80	41.70	6.90	37.00	41.70	38.50	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 7:00 AM	329.00	2.80	30.50	38.10	7.60	32.70	38.10	29.80	30.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 7:15 AM	339.00	3.20	29.70	32.10	2.40	27.70	32.10	29.50	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 7:30 AM	343.00	3.10	19.80	25.70	5.90	18.50	25.70	21.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 7:45 AM	332.00	3.90	22.00	27.80	5.80	22.60	27.80	21.20	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 8:00 AM	337.00	4.20	23.40	29.20	5.80	23.80	29.20	22.60	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 8:15 AM	329.00	4.40	20.90	26.80	5.90	21.60	26.80	20.00	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 8:30 AM	340.00	3.80	17.70	23.40	5.70	18.50	23.40	18.10	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 8:45 AM	339.00	2.90	17.70	22.10	4.40	18.50	22.10	17.40	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 9:00 AM	344.00	3.10	19.10	0.00	0.00	20.20	0.00	18.40	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 9:15 AM	328.00	3.40	19.30	0.00	0.00	19.40	0.00	19.50	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 9:30 AM	335.00	3.90	20.70	25.00	4.30	20.90	25.00	21.20	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 9:45 AM	330.00	5.80	21.80	25.40	3.60	20.90	25.40	21.50	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 10:00 AM	334.00	5.00	22.30	26.30	4.00	21.90	26.30	22.40	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 10:15 AM	332.00	3.40	22.30	27.20	4.90	21.90	27.20	23.20	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 10:30 AM	306.00	3.30	28.40	31.00	2.60	27.30	31.00	27.40	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 10:45 AM	313.00	4.30	26.70	33.70	7.00	30.50	33.70	27.60	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 11:00 AM	301.00	6.00	18.30	25.90	7.60	20.70	25.90	22.40	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 11:15 AM	283.00	5.60	18.30	22.20	3.90	19.10	22.20	20.70	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 11:30 AM	314.00	4.40	17.40	20.40	3.00	18.00	20.40	18.30	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 11:45 AM	301.00	7.30	19.90	26.10	6.20	22.10	26.10	23.30	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:00 PM	304.00	6.80	17.80	26.10	8.30	17.90	26.10	17.90	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:15 PM	281.00	6.00	15.20	28.90	3.70	16.50	28.90	16.20	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:30 PM	296.00	6.40	15.10	16.40	1.30	13.60	16.40	13.40	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 12:45 PM	293.00	5.10	13.80	17.60	3.80	15.20	17.60	14.80	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:00 PM	305.00	5.30	13.80	17.40	3.60	14.70	17.40	15.20	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:15 PM	308.00	4.80	13.40	16.60	3.20	13.60	16.60	13.70	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:30 PM	303.00	4.70	12.70	16.20	3.50	12.70	16.20	13.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 1:45 PM	292.00	4.30	12.70	16.10	3.40	12.70	16.10	12.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 2:00 PM	296.00	7.00	11.10	13.90	2.80	11.40	13.90	11.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12/29/12 2:15 PM	308.00	4.90	10.20	13.70	3.50	10.30	13.70	11.00	10.20	0.								



**US Army Corps
of Engineers**

Reading Date	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
12/31/12 9:45 PM	295.00	3.20	32.10	30.70	0.00	32.50	30.70	30.80	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 10:00 PM	7.00	7.80	33.40	32.00	0.00	33.40	39.10	32.00	43.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 10:15 PM	7.00	6.30	46.30	44.10	0.00	46.30	45.10	44.10	46.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 10:30 PM	5.00	7.20	47.90	45.30	0.00	47.90	45.70	45.30	47.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 10:45 PM	7.00	9.80	47.90	42.10	0.00	47.90	41.00	42.10	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 11:00 PM	7.00	9.10	37.70	37.40	0.00	37.70	0.00	37.40	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 11:15 PM	1.00	5.80	27.80	28.80	1.00	27.80	29.80	28.80	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 11:30 PM	3.00	6.80	0.00	25.60	0.00	0.00	26.80	25.60	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/12 11:45 PM	8.00	7.30	23.60	25.20	1.60	23.60	0.00	25.20	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00