



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/1/13 12:00 AM	181.00	9.50	6.60	37.40	30.80	37.40	5.90	6.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 12:15 AM	177.00	7.50	7.50	37.40	29.90	37.40	6.00	7.50	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 12:30 AM	195.00	6.80	8.80	37.60	28.80	37.60	7.20	8.80	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 12:45 AM	186.00	8.00	8.90	37.60	28.70	37.60	7.60	8.90	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:00 AM	164.00	8.50	9.70	37.60	27.90	37.60	8.10	9.70	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:15 AM	213.00	5.90	7.50	10.90	3.40	37.80	7.50	10.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:30 AM	200.00	6.00	9.70	37.80	28.10	37.80	8.40	9.70	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:45 AM	194.00	3.90	7.50	12.30	4.80	37.70	7.50	10.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:00 AM	206.00	5.50	10.20	37.60	27.40	37.60	6.80	10.20	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:15 AM	224.00	6.30	6.50	10.30	3.80	37.80	6.50	10.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:30 AM	211.00	5.90	11.10	37.80	26.70	37.80	7.10	11.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:45 AM	205.00	7.70	11.50	38.10	26.60	38.10	8.50	11.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:00 AM	215.00	7.10	8.60	12.10	3.50	38.20	8.60	12.40	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:15 AM	205.00	5.80	12.20	38.20	26.00	38.20	8.90	12.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:30 AM	205.00	7.50	12.40	38.20	25.80	38.20	8.70	12.40	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:45 AM	221.00	3.30	12.10	38.10	26.00	38.10	8.40	12.10	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:00 AM	222.00	4.40	11.30	37.60	26.30	37.60	9.50	11.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:15 AM	215.00	4.80	9.70	37.40	27.70	37.40	6.90	9.70	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:30 AM	215.00	4.00	8.70	37.10	28.40	37.10	5.90	8.70	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:45 AM	210.00	3.60	7.30	36.80	29.50	36.80	5.70	7.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:00 AM	210.00	4.70	7.20	36.70	29.50	36.70	6.20	7.20	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:15 AM	208.00	3.40	7.30	36.70	29.40	36.70	6.60	7.30	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:30 AM	210.00	4.30	6.20	36.70	30.50	36.70	4.50	6.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:45 AM	202.00	4.00	4.50	36.30	31.80	36.30	3.00	4.50	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 6:00 AM	204.00	5.00	4.20	36.40	32.20	36.40	3.10	4.20	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 6:15 AM	214.00	4.60	4.40	36.30	31.90	36.30	2.90	4.40	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 7:00 AM	213.00	5.20	4.40	36.70	32.30	36.70	3.70	4.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 7:15 AM	209.00	6.60	5.20	36.20	31.00	36.20	4.60	5.20	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 7:30 AM	206.00	3.90	4.90	36.30	31.40	36.30	3.70	4.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 7:45 AM	215.00	6.20	4.80	36.30	31.50	36.30	4.50	4.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 8:00 AM	211.00	4.80	4.80	36.40	31.60	36.40	4.40	4.80	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 8:15 AM	196.00	6.10	5.20	36.40	31.20	36.40	4.40	5.20	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 8:30 AM	208.00	6.20	5.40	36.40	31.00	36.40	5.20	5.40	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 8:45 AM	218.00	6.00	5.60	36.40	30.80	36.40	4.60	5.60	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 9:00 AM	214.00	9.50	6.40	36.40	30.00	36.40	5.40	6.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 9:15 AM	219.00	8.90	6.10	36.40	30.30	36.40	5.30	6.10	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 9:30 AM	205.00	8.70	6.70	36.40	29.70	36.40	5.10	6.70	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 9:45 AM	222.00	5.60	6.30	36.40	30.10	36.40	7.50	6.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 10:00 AM	211.00	6.00	6.10	36.40	30.30	36.40	8.90	6.10	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 10:15 AM	207.00	6.70	6.00	36.40	30.40	36.40	10.50	6.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 10:30 AM	229.00	7.80	6.60	36.40	29.80	36.40	10.50	6.60	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 10:45 AM	212.00	6.80	6.10	36.40	30.30	36.40	9.80	6.10	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 11:00 AM	204.00	8.70	6.80	36.80	30.00	36.80	9.90	6.80	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 11:15 AM	216.00	7.50	6.70	36.90	30.20	36.90	10.40	6.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 11:30 AM	228.00	7.70	6.40	36.80	30.40	36.80	9.30	6.40	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 11:45 AM	227.00	9.10	6.00	36.90	30.90	36.90	7.70	6.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 12:00 PM	223.00	5.70	6.00	37.00	31.00	37.00	8.00	6.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 12:15 PM	219.00	5.30	5.60	37.20	31.60	37.20	7.80	5.60	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 12:30 PM	211.00	5.90	5.00	36.90	31.90	36.90	7.80	5.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 12:45 PM	222.00	5.90	5.40	36.90	31.50	36.90	6.70	5.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:00 PM	213.00	6.40	6.00	37.50	31.50	37.50	6.90	6.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:15 PM	212.00	5.50	5.90	37.50	31.60	37.50	6.70	5.90	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:30 PM	219.00	6.30	5.30	37.30	32.00	37.30	10.70	5.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 1:45 PM	209.00	7.10	5.80	37.50	31.70	37.50	6.80	5.80	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:00 PM	219.00	4.80	6.10	37.40	31.30	37.40	6.10	6.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:15 PM	225.00	3.70	6.30	36.70	30.40	36.70	6.60	6.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:30 PM	204.00	7.70	6.00	36.70	30.70	36.70	7.60	6.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 2:45 PM	232.00	4.60	6.40	36.60	30.20	36.60	7.80	6.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:00 PM	220.00	7.10	6.20	36.80	30.60	36.80	6.70	6.20	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:15 PM	233.00	4.70	6.40	36.70	30.30	36.70	7.00	6.40	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:30 PM	232.00	6.60	6.30	36.80	30.50	36.80	6.90	6.30	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 3:45 PM	218.00	5.60	6.40	36.60	30.20	36.60	4.80	6.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:00 PM	204.00	7.60	7.30	36.50	29.20	36.50	4.70	7.30	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:15 PM	209.00	6.20	7.10	36.70	29.60	36.70	4.90	7.10	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:30 PM	225.00	6.90	7.30	36.60	29.30	36.60	5.60	7.30	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 4:45 PM	220.00	3.60	7.50	36.70	29.20	36.70	4.80	7.50	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:00 PM	223.00	5.40	7.30	36.60	29.30	36.60	4.50	7.30	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:15 PM	210.00	4.30	7.20	36.70	29.50	36.70	4.50	7.20	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:30 PM	202.00	4.80	6.60	36.60	30.00	36.60	4.50	6.60	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/13 5:45 PM	206.00	6.10	6.90	36.70	29.80	36.70	4.90	6.90	4.30	0.00	0.00					



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)					
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/2/13 1:30 AM	250.00	4.80	6.90	37.70	30.80	37.70	9.10	6.90	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 1:45 AM	261.00	4.00	8.10	38.10	30.00	38.10	11.10	8.10	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:00 AM	260.00	5.10	7.30	38.10	30.80	38.10	11.00	7.30	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:15 AM	253.00	3.80	7.60	38.00	30.40	38.00	9.10	7.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:30 AM	259.00	4.50	8.00	38.10	30.10	38.10	8.70	8.00	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:45 AM	272.00	5.20	7.50	38.10	30.60	38.10	8.60	7.50	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:00 AM	268.00	3.60	7.10	37.80	30.70	37.80	8.70	7.10	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:15 AM	262.00	4.90	6.90	37.80	30.90	37.80	13.30	6.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:30 AM	270.00	4.80	6.90	38.10	31.20	38.10	21.90	6.90	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:45 AM	265.00	3.50	7.00	38.20	31.20	38.20	23.10	7.00	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:00 AM	263.00	3.30	6.90	38.20	31.30	38.20	15.50	6.90	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:15 AM	270.00	3.40	6.00	37.90	31.90	37.90	11.80	6.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:30 AM	266.00	3.10	5.30	37.80	32.50	37.80	11.10	5.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:45 AM	272.00	3.00	10.20	13.70	3.50	37.80	13.70	5.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:00 AM	261.00	3.30	4.90	37.80	32.90	37.80	8.90	4.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:15 AM	239.00	2.80	5.20	38.00	32.80	38.00	8.30	5.20	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:30 AM	250.00	2.80	9.70	8.80	0.00	37.90	8.80	5.50	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:45 AM	258.00	3.70	5.80	38.10	32.30	38.10	7.50	5.80	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:00 AM	273.00	2.60	5.80	38.20	32.40	38.20	9.40	5.80	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:15 AM	272.00	2.70	12.40	9.30	0.00	38.20	9.30	6.50	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:30 AM	274.00	2.60	6.80	38.20	31.40	38.20	8.60	6.80	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:45 AM	271.00	2.60	13.30	10.10	0.00	38.20	10.10	7.20	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 7:00 AM	293.00	2.60	7.10	38.30	31.20	38.30	9.80	7.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 7:15 AM	299.00	3.80	7.60	38.30	30.70	38.30	9.10	7.60	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 7:30 AM	310.00	3.60	8.10	38.40	30.30	38.40	9.60	8.10	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 7:45 AM	43.00	6.70	7.80	38.40	30.60	38.40	9.70	7.80	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 8:00 AM	30.00	10.30	14.70	9.80	0.00	38.40	9.80	8.60	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 8:15 AM	36.00	8.90	14.00	10.00	0.00	38.50	10.00	8.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 8:30 AM	35.00	9.20	13.70	10.70	0.00	38.50	10.70	8.10	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 8:45 AM	48.00	5.70	12.60	11.00	0.00	38.60	11.00	8.40	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 9:00 AM	46.00	6.70	15.20	10.20	0.00	38.60	10.20	8.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 9:15 AM	43.00	7.00	15.90	10.80	0.00	38.60	10.80	9.50	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 9:30 AM	44.00	6.60	17.10	11.70	0.00	38.70	11.70	9.50	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 9:45 AM	42.00	5.40	38.60	9.70	0.00	38.60	11.80	9.70	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 10:00 AM	61.00	5.20	38.50	8.80	0.00	38.50	9.60	8.80	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 10:15 AM	63.00	5.10	38.60	9.20	0.00	38.60	11.10	9.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 10:30 AM	62.00	6.20	38.60	7.60	0.00	38.60	9.20	7.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 10:45 AM	43.00	5.40	38.00	1.60	0.00	38.00	5.20	1.60	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 11:00 AM	60.00	5.80	38.00	1.50	0.00	38.00	4.90	1.50	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 11:15 AM	59.00	5.40	38.10	0.90	0.00	38.10	1.00	0.90	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 11:30 AM	46.00	6.20	38.10	4.70	0.00	38.10	2.20	4.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 11:45 AM	53.00	4.30	38.50	1.90	0.00	38.50	0.80	1.90	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 12:00 PM	51.00	4.60	38.80	0.80	0.00	38.80	5.60	0.80	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 12:15 PM	42.00	5.70	39.20	0.70	0.00	39.20	6.50	0.70	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 12:30 PM	62.00	5.30	39.50	1.30	0.00	39.50	7.40	1.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 12:45 PM	52.00	6.60	39.80	2.10	0.00	39.80	3.90	2.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 1:00 PM	52.00	5.70	40.30	3.20	0.00	40.30	5.00	3.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 1:15 PM	42.00	7.20	40.70	3.30	0.00	40.70	7.60	3.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 1:30 PM	38.00	6.80	40.80	4.50	0.00	40.80	5.80	4.50	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 1:45 PM	42.00	5.60	40.70	2.50	0.00	40.70	6.20	2.50	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:00 PM	35.00	7.20	40.20	2.00	0.00	40.20	9.10	2.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:15 PM	34.00	5.60	40.10	2.70	0.00	40.10	7.70	2.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:30 PM	59.00	5.60	39.80	2.40	0.00	39.80	4.30	2.40	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 2:45 PM	58.00	5.10	39.80	3.00	0.00	39.80	7.30	3.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:00 PM	36.00	5.10	39.90	3.00	0.00	39.90	6.40	3.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:15 PM	53.00	4.20	40.00	3.10	0.00	40.00	8.30	3.10	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:30 PM	55.00	5.70	41.00	5.00	0.00	41.00	8.30	5.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 3:45 PM	38.00	5.50	41.30	6.60	0.00	41.30	10.50	6.60	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:00 PM	49.00	5.70	41.60	8.30	0.00	41.60	11.20	8.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:15 PM	50.00	5.70	41.90	7.30	0.00	41.90	12.40	7.30	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:30 PM	63.00	5.00	41.30	4.00	0.00	41.30	8.50	4.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 4:45 PM	68.00	5.30	41.10	3.60	0.00	41.10	6.60	3.60	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:00 PM	48.00	3.90	41.20	3.30	0.00	41.20	4.90	3.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:15 PM	38.00	5.20	41.40	1.40	0.00	41.40	6.50	1.40	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:30 PM	39.00	3.90	41.70	13.10	0.00	41.70	15.60	13.10	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 5:45 PM	67.00	3.80	41.60	7.60	0.00	41.60	15.60	7.60	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:00 PM	65.00	3.30	41.60	5.00	0.00	41.60	15.00	5.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:15 PM	58.00	3.30	41.80	4.90	0.00	41.80	8.00	4.90	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:30 PM	49.00	3.30	41.80	5.30	0.00	41.80	15.40	5.30	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/2/13 6:45 PM	56.00	2.30	41.90	3.10	0.00	41.90	12.70	3.10	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6																



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/5/13 3:45 AM	19.00	4.10	52.00	3.60	0.00	52.00	12.10	3.60	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:00 AM	70.00	2.20	0.00	4.90	0.00	0.00	12.80	4.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:15 AM	72.00	1.40	52.00	4.70	0.00	52.00	11.90	4.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:30 AM	22.00	1.70	51.80	8.00	0.00	51.80	16.10	8.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:45 AM	347.00	1.50	8.40	14.30	5.90	52.20	14.30	5.50	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:00 AM	104.00	0.40	25.50	14.70	0.00	51.70	25.50	7.10	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:15 AM	78.00	1.00	52.10	34.60	0.00	52.10	34.20	34.60	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:30 AM	116.00	1.20	45.60	58.80	13.20	53.30	45.60	41.60	58.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:45 AM	133.00	2.70	21.80	13.60	0.00	52.40	21.80	21.90	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:00 AM	136.00	3.00	17.40	13.70	0.00	52.10	17.40	11.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:15 AM	135.00	2.80	42.30	42.90	0.60	52.80	42.30	13.60	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:30 AM	135.00	2.80	59.90	44.20	0.00	52.90	59.90	26.80	44.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:45 AM	139.00	3.70	40.50	38.80	0.00	52.80	40.50	47.40	38.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:00 AM	153.00	2.80	30.30	35.10	4.80	52.60	30.30	33.30	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:15 AM	157.00	3.90	16.50	22.00	5.50	46.00	16.50	12.70	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:30 AM	155.00	4.00	32.00	17.60	0.00	45.80	32.00	13.90	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:45 AM	170.00	4.30	42.30	15.50	0.00	45.80	42.30	14.60	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 8:00 AM	153.00	4.30	20.70	14.20	0.00	45.70	20.70	10.50	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 8:15 AM	167.00	3.30	31.60	13.10	0.00	45.50	31.60	10.50	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 8:30 AM	156.00	6.40	24.60	16.90	0.00	45.50	24.60	6.80	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 8:45 AM	159.00	4.70	17.40	11.20	0.00	45.20	17.40	5.40	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 9:00 AM	172.00	5.00	22.50	22.20	0.00	44.00	22.50	4.30	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 9:15 AM	151.00	4.10	26.90	17.20	0.00	44.00	26.90	5.50	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 9:30 AM	175.00	4.00	18.90	15.40	0.00	44.30	18.90	6.30	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 9:45 AM	169.00	4.50	15.50	8.50	0.00	44.80	15.50	10.90	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 10:00 AM	160.00	5.00	26.80	20.50	0.00	44.80	26.80	13.50	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 10:15 AM	160.00	3.30	22.50	11.50	0.00	45.20	22.50	13.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 10:30 AM	158.00	3.80	32.80	11.50	0.00	45.90	32.80	10.70	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 10:45 AM	161.00	3.30	23.20	12.30	0.00	45.80	23.20	11.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 11:00 AM	184.00	3.40	10.70	45.80	35.10	45.80	21.10	10.70	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 11:15 AM	127.00	3.40	27.60	13.10	0.00	45.80	27.60	12.10	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 11:30 AM	205.00	2.30	26.00	45.90	19.90	45.90	24.90	26.00	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 11:45 AM	150.00	2.00	27.30	13.10	0.00	46.20	27.30	11.90	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 12:00 PM	128.00	2.70	24.30	13.80	0.00	46.10	24.30	23.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 12:15 PM	116.00	2.90	36.10	13.60	0.00	46.00	36.10	13.70	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 12:30 PM	92.00	1.30	17.50	13.60	0.00	46.30	17.50	11.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 12:45 PM	36.00	6.00	449.30	11.90	0.00	449.30	41.30	11.90	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 1:00 PM	30.00	5.40	440.70	24.20	0.00	440.70	66.50	24.20	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 1:15 PM	40.00	6.40	435.50	17.50	0.00	435.50	23.80	17.50	21.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 1:30 PM	28.00	5.40	480.20	17.10	0.00	480.20	24.30	17.10	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 1:45 PM	30.00	6.10	481.30	68.30	0.00	481.30	77.70	68.30	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 2:00 PM	39.00	6.10	493.20	96.30	0.00	493.20	107.70	96.30	70.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 2:15 PM	61.00	6.70	500.50	72.30	0.00	500.50	81.60	72.30	70.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 2:30 PM	57.00	5.50	490.00	47.40	0.00	490.00	95.10	47.40	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 2:45 PM	28.00	6.80	487.00	46.60	0.00	487.00	130.60	46.60	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 3:00 PM	45.00	6.40	479.60	58.70	0.00	479.60	111.50	58.70	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 3:15 PM	39.00	5.90	500.20	51.80	0.00	500.20	69.60	51.80	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 3:30 PM	32.00	6.30	503.40	52.10	0.00	503.40	64.00	52.10	58.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 3:45 PM	24.00	5.30	503.20	50.80	0.00	503.20	92.90	50.80	58.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:00 PM	42.00	6.80	520.40	50.30	0.00	520.40	41.10	50.30	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:15 PM	42.00	7.30	503.30	35.60	0.00	503.30	63.90	35.60	56.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:30 PM	43.00	5.60	492.10	32.80	0.00	492.10	80.60	32.80	39.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 4:45 PM	54.00	5.10	491.20	18.10	0.00	491.20	50.50	18.10	41.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:00 PM	64.00	3.50	501.80	33.20	0.00	501.80	38.30	33.20	43.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:15 PM	96.00	4.80	39.60	30.40	0.00	462.70	39.60	10.40	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:30 PM	73.00	4.50	467.50	15.40	0.00	467.50	48.70	15.40	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 5:45 PM	79.00	3.90	450.00	26.80	0.00	450.00	57.60	26.80	52.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:00 PM	62.00	3.30	440.40	59.40	0.00	440.40	147.70	59.40	63.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:15 PM	99.00	2.60	94.80	74.90	0.00	504.20	94.80	154.40	74.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:30 PM	84.00	3.10	498.50	45.40	0.00	498.50	61.10	45.40	74.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 6:45 PM	63.00	4.40	504.60	58.20	0.00	504.60	54.30	58.20	61.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:00 PM	72.00	5.80	507.40	32.50	0.00	507.40	43.80	32.50	79.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:15 PM	53.00	3.00	460.90	18.50	0.00	460.90	35.70	18.50	130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:30 PM	50.00	4.80	628.70	21.60	0.00	628.70	30.20	21.60	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 7:45 PM	76.00	5.00	651.00	28.10	0.00	651.00	31.30	28.10	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/5/13 8:00 PM	68.00	5.00	686.50	19.20	0													



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)					
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/6/13 4:30 AM	63.00	3.40	27.80	12.50	0.00	27.80	20.60	12.50	58.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 4:45 AM	85.00	3.70	27.10	19.00	0.00	27.10	43.70	19.00	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:00 AM	95.00	3.70	29.40	29.10	0.00	27.40	29.40	30.10	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:15 AM	82.00	2.70	28.00	15.80	0.00	28.00	22.10	15.80	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:30 AM	84.00	3.10	27.20	23.50	0.00	27.20	31.70	23.50	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:45 AM	65.00	2.10	26.90	14.50	0.00	26.90	20.80	14.50	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:00 AM	67.00	4.50	25.60	24.30	0.00	25.60	32.50	24.30	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:15 AM	75.00	4.10	25.50	27.80	2.30	25.50	46.60	27.80	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:30 AM	69.00	4.40	24.90	12.70	0.00	24.90	24.40	12.70	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:45 AM	81.00	4.80	24.90	18.10	0.00	24.90	30.60	18.10	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:00 AM	73.00	3.90	25.60	10.50	0.00	25.60	29.70	10.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:15 AM	84.00	4.20	25.90	39.90	14.00	25.90	52.50	39.90	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:30 AM	72.00	4.90	25.70	35.20	9.50	25.70	42.40	35.20	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:45 AM	76.00	4.90	28.70	37.80	9.10	28.70	53.40	37.80	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:00 AM	76.00	2.90	29.30	30.10	0.80	29.30	53.30	30.10	41.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:15 AM	51.00	5.10	28.10	26.30	0.00	28.10	45.50	26.30	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:30 AM	42.00	3.20	26.70	44.10	17.40	26.70	38.90	44.10	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:45 AM	40.00	4.20	25.90	21.80	0.00	25.90	39.30	21.80	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:00 AM	39.00	4.60	26.30	23.50	0.00	26.30	46.60	23.50	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:15 AM	40.00	5.50	28.30	29.10	0.80	28.30	36.10	29.10	36.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:30 AM	30.00	4.20	30.70	37.40	6.70	30.70	49.80	37.40	43.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:45 AM	32.00	6.30	29.90	38.40	8.50	29.90	44.10	38.40	39.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 10:00 AM	37.00	6.30	29.10	37.80	8.70	29.10	39.50	37.80	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 10:15 AM	28.00	7.00	27.30	31.40	4.10	27.30	29.40	31.40	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 10:30 AM	2.00	5.60	25.50	24.20	0.00	25.50	35.10	24.20	29.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 10:45 AM	11.00	5.40	24.90	28.30	3.40	24.90	37.90	28.30	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 11:00 AM	12.00	5.30	23.50	18.40	0.00	23.50	24.90	18.40	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 11:15 AM	12.00	5.80	23.80	45.00	21.20	23.80	22.00	45.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 11:30 AM	35.00	5.30	24.20	16.80	0.00	24.20	26.10	16.80	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 11:45 AM	26.00	4.10	24.10	14.10	0.00	24.10	17.60	14.10	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 12:00 PM	32.00	5.40	24.20	15.70	0.00	24.20	20.30	15.70	16.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 12:15 PM	37.00	7.20	24.20	13.40	0.00	24.20	18.50	13.40	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 12:30 PM	33.00	7.20	24.00	14.30	0.00	24.00	22.10	14.30	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 12:45 PM	31.00	6.40	23.30	13.30	0.00	23.30	23.30	13.30	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 1:00 PM	27.00	7.50	23.20	12.50	0.00	23.20	21.00	12.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 1:15 PM	29.00	8.10	23.20	14.30	0.00	23.20	20.90	14.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 1:30 PM	35.00	7.60	23.20	14.60	0.00	23.20	20.90	14.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 1:45 PM	23.00	7.50	23.20	15.10	0.00	23.20	39.90	15.10	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 2:00 PM	35.00	8.30	23.20	14.40	0.00	23.20	30.00	14.40	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 2:15 PM	34.00	8.10	23.20	13.80	0.00	23.20	22.20	13.80	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 2:30 PM	32.00	8.60	23.20	24.20	1.00	23.20	16.40	24.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 2:45 PM	28.00	7.00	23.20	19.40	0.00	23.20	16.80	19.40	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 3:00 PM	28.00	6.30	23.20	18.70	0.00	23.20	17.80	18.70	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 3:15 PM	27.00	5.90	23.20	21.30	0.00	23.20	18.20	21.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 3:30 PM	31.00	6.30	23.20	19.70	0.00	23.20	19.10	19.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 3:45 PM	38.00	6.60	23.20	18.00	0.00	23.20	19.90	18.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 4:00 PM	29.00	7.10	23.20	13.90	0.00	23.20	27.50	13.90	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 4:15 PM	37.00	6.70	23.20	12.90	0.00	23.20	18.80	12.90	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 4:30 PM	36.00	7.10	23.20	10.70	0.00	23.20	16.60	10.70	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 4:45 PM	11.00	5.40	23.20	22.00	0.00	23.20	15.10	22.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:00 PM	27.00	6.80	23.20	16.80	0.00	23.20	17.50	16.80	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:15 PM	20.00	8.00	23.20	23.40	0.20	23.20	18.00	23.40	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:30 PM	16.00	7.90	23.20	15.90	0.00	23.20	19.60	15.90	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 5:45 PM	18.00	6.90	23.20	16.60	0.00	23.20	20.80	16.60	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:00 PM	17.00	6.10	23.20	12.30	0.00	23.20	22.30	12.30	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:15 PM	11.00	6.20	23.20	13.00	0.00	23.20	24.00	13.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:30 PM	24.00	7.40	23.20	11.80	0.00	23.20	28.90	11.80	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 6:45 PM	24.00	9.40	23.20	11.00	0.00	23.20	24.70	11.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:00 PM	22.00	8.60	23.20	10.30	0.00	23.20	21.50	10.30	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:15 PM	14.00	9.20	23.20	9.90	0.00	23.20	20.30	9.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:30 PM	21.00	6.80	23.20	8.40	0.00	23.20	20.00	8.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 7:45 PM	26.00	10.30	23.20	8.40	0.00	23.20	17.60	8.40	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:00 PM	23.00	8.40	23.20	8.20	0.00	23.20	11.00	8.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:15 PM	23.00	8.80	23.20	7.80	0.00	23.20	11.40	7.80	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:30 PM	22.00	8.90	23.20	7.30	0.00	23.20	11.50	7.30	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 8:45 PM	25.00	7.50	23.20	7.10	0.00	23.20	10.40	7.10	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:00 PM	26.00	9.20	23.20	7.60	0.00	23.20	12.10	7.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:15 PM	30.00	7.50	23.20	8.20	0.00	23.20	10.30	8.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:30 PM	29.00	8.30	23.20	9.00	0.00	23.20	10.10	9.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/6/13 9:45 PM	35.00	5.70	23.20	6												



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/7/13 5:15 AM	39.00	4.60	23.20	6.10	0.00	23.20	9.60	6.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 5:30 AM	38.00	5.10	23.20	6.10	0.00	23.20	11.00	6.10	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 5:45 AM	40.00	5.80	23.20	7.00	0.00	23.20	10.50	7.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 6:00 AM	29.00	5.90	23.20	23.40	0.20	23.20	9.70	23.40	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 6:15 AM	39.00	4.50	23.20	19.00	0.00	23.20	9.30	19.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 6:45 AM	40.00	5.30	23.20	19.00	0.00	23.20	8.60	19.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:00 AM	38.00	5.10	23.20	19.60	0.00	23.20	9.70	19.60	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:15 AM	31.00	4.50	23.20	15.40	0.00	23.20	9.60	15.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:30 AM	37.00	5.30	23.20	12.70	0.00	23.20	8.70	12.70	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:45 AM	39.00	4.20	23.20	15.10	0.00	23.20	9.50	15.10	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:00 AM	42.00	5.50	23.20	24.00	0.80	23.20	13.50	24.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:15 AM	33.00	5.10	23.20	9.90	0.00	23.20	13.40	9.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:30 AM	41.00	6.20	23.20	9.10	0.00	23.20	12.10	9.10	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:45 AM	31.00	6.00	23.20	6.80	0.00	23.20	11.80	6.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:00 AM	19.00	6.80	23.20	6.20	0.00	23.20	11.60	6.20	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:15 AM	38.00	6.50	23.20	15.50	0.00	23.20	10.60	15.50	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:30 AM	27.00	6.30	23.20	24.10	0.90	23.20	10.90	24.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:45 AM	33.00	5.80	23.20	8.00	0.00	23.20	10.10	8.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:00 AM	27.00	6.20	23.20	7.10	0.00	23.20	9.80	7.10	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:15 AM	31.00	6.00	23.20	7.70	0.00	23.20	9.80	7.70	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:30 AM	18.00	6.30	23.20	12.50	0.00	23.20	8.60	12.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:45 AM	33.00	6.40	23.20	12.00	0.00	23.20	12.20	12.00	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 11:00 AM	24.00	6.30	23.20	9.10	0.00	23.20	10.70	9.10	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 11:15 AM	38.00	8.10	23.20	23.40	0.20	23.20	14.00	23.40	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 11:30 AM	32.00	6.20	23.20	20.00	0.00	23.20	11.90	20.00	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 11:45 AM	20.00	6.90	23.20	10.90	0.00	23.20	11.10	10.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 12:00 PM	20.00	6.60	23.20	12.40	0.00	23.20	14.90	12.40	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 12:15 PM	19.00	6.90	23.20	18.60	0.00	23.20	12.50	18.60	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 12:30 PM	23.00	6.60	23.20	11.60	0.00	23.20	14.60	11.60	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 12:45 PM	21.00	7.20	23.20	11.50	0.00	23.20	12.40	11.50	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 1:00 PM	29.00	7.00	23.20	12.80	0.00	23.20	13.70	12.80	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 1:15 PM	43.00	8.00	23.20	11.70	0.00	23.20	13.70	11.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 1:30 PM	22.00	6.70	23.20	13.80	0.00	23.20	14.90	13.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 1:45 PM	37.00	6.70	23.20	12.50	0.00	23.20	15.40	12.50	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 2:00 PM	38.00	5.70	23.20	12.90	0.00	23.20	14.10	12.90	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 2:15 PM	18.00	5.70	23.20	11.50	0.00	23.20	15.40	11.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 2:30 PM	12.00	7.60	23.20	10.40	0.00	23.20	14.20	10.40	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 2:45 PM	16.00	7.40	23.20	9.90	0.00	23.20	14.40	9.90	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 3:00 PM	18.00	7.40	23.20	10.20	0.00	23.20	14.50	10.20	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 3:15 PM	16.00	7.50	23.20	13.30	0.00	23.20	16.30	13.30	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 3:30 PM	20.00	7.60	23.20	11.80	0.00	23.20	18.50	11.80	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 3:45 PM	17.00	8.00	23.20	10.80	0.00	23.20	17.30	10.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 4:00 PM	19.00	8.70	23.20	9.20	0.00	23.20	15.00	9.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 4:15 PM	19.00	6.20	23.20	13.50	0.00	23.20	12.80	13.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 4:30 PM	22.00	9.20	23.20	4.90	0.00	23.20	10.30	4.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 4:45 PM	25.00	6.30	23.20	4.30	0.00	23.20	12.10	4.30	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 5:00 PM	19.00	8.00	23.20	6.10	0.00	23.20	11.70	6.10	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 5:15 PM	23.00	7.50	23.20	5.50	0.00	23.20	10.40	5.50	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 5:30 PM	26.00	7.20	23.20	5.80	0.00	23.20	8.70	5.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 5:45 PM	21.00	8.30	23.20	5.00	0.00	23.20	14.20	5.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 6:00 PM	22.00	6.00	23.20	5.00	0.00	23.20	11.50	5.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 6:15 PM	32.00	6.50	23.20	5.30	0.00	23.20	16.70	5.30	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 6:30 PM	25.00	6.10	23.20	5.70	0.00	23.20	9.90	5.70	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 6:45 PM	6.00	6.30	23.20	4.20	0.00	23.20	9.10	4.20	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:00 PM	8.00	7.40	23.20	2.80	0.00	23.20	9.80	2.80	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:15 PM	14.00	6.30	23.20	2.80	0.00	23.20	7.30	2.80	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:30 PM	5.00	4.50	23.20	3.30	0.00	23.20	9.60	3.30	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 7:45 PM	6.00	4.90	23.20	3.20	0.00	23.20	7.20	3.20	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:00 PM	30.00	4.30	23.20	2.00	0.00	23.20	8.90	2.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:15 PM	28.00	5.10	23.20	2.00	0.00	23.20	10.70	2.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:30 PM	34.00	2.90	23.20	3.20	0.00	23.20	7.60	3.20	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 8:45 PM	44.00	4.30	23.20	2.80	0.00	23.20	8.20	2.80	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:00 PM	42.00	4.00	23.20	1.90	0.00	23.20	7.70	1.90	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:15 PM	67.00	2.20	23.20	1.80	0.00	23.20	7.10	1.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:30 PM	5.00	1.80	23.20	2.90	0.00	23.20	7.50	2.90	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 9:45 PM	353.00	2.60	3.80	7.50	3.70	23.20	7.50	1.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:00 PM	18.00	1.20	23.20	2.50	0.00	23.20	8.40	2.50	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:15 PM	350.00	2.40	3.70	7.20	3.50	23.20	7.20	2.10	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:30 PM	7.00	3.00	23.20	2.10	0.00	23.20	7.80	2.10	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/7/13 10:45 PM	22.00	2.10	23.20	2.60	0.00	23.20	6.60	2.60	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/																



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/9/13 7:15 AM	164.00	3.60	32.80	33.50	0.70	23.20	32.80	31.70	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 7:30 AM	175.00	3.80	30.40	33.50	3.10	23.20	30.40	28.60	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 7:45 AM	178.00	3.50	32.00	34.90	2.90	23.20	32.00	31.80	34.90	0.70	0.00	0.00	0.00	0.00	0.00	0.70	0.00	
6/9/13 8:00 AM	180.00	3.30	31.20	23.20	0.00	23.20	32.30	31.20	34.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 8:15 AM	164.00	4.60	35.10	39.00	3.90	39.50	35.10	39.00	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 8:30 AM	184.00	3.70	38.80	40.50	1.70	40.50	39.30	38.80	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 8:45 AM	181.00	3.30	41.80	41.30	0.00	41.30	40.80	41.80	44.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:00 AM	178.00	4.10	43.50	48.30	4.80	41.60	43.50	44.70	48.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:15 AM	185.00	2.50	47.30	40.80	0.00	40.80	43.00	47.30	48.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:30 AM	181.00	3.50	45.00	41.00	0.00	41.00	42.00	45.00	48.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:45 AM	159.00	3.90	40.70	48.70	8.00	40.60	40.70	44.60	48.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:00 AM	161.00	4.00	39.90	45.20	5.30	32.60	39.90	41.70	45.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:15 AM	185.00	3.60	38.70	30.00	0.00	30.00	38.10	38.70	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:30 AM	176.00	4.50	34.00	39.10	5.10	29.90	34.00	36.20	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:45 AM	182.00	6.60	33.60	30.00	0.00	30.00	36.40	33.60	39.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 11:00 AM	187.00	5.30	32.10	28.60	0.00	28.60	37.10	32.10	34.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 11:15 AM	198.00	4.70	26.00	28.30	2.30	28.30	35.20	26.00	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 11:30 AM	196.00	4.30	20.60	28.60	8.00	28.60	26.20	20.60	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 11:45 AM	191.00	5.80	16.60	28.40	11.80	28.40	25.70	16.60	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 12:00 PM	191.00	4.70	15.20	27.80	12.60	27.80	22.70	15.20	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 12:15 PM	207.00	4.50	16.40	29.60	13.20	29.60	24.40	16.40	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 12:30 PM	190.00	5.00	14.00	28.70	14.70	28.70	24.90	14.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 12:45 PM	209.00	5.10	12.20	28.90	16.70	28.90	20.30	12.20	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 1:00 PM	169.00	8.40	17.90	11.90	0.00	28.30	17.90	10.70	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 1:15 PM	185.00	6.60	10.10	29.10	19.00	29.10	21.90	10.10	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 1:30 PM	165.00	6.60	20.40	12.20	0.00	28.90	20.40	11.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 1:45 PM	177.00	6.70	20.10	12.30	0.00	30.70	20.10	10.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 2:00 PM	169.00	5.40	32.60	14.10	0.00	29.70	32.60	11.70	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 2:15 PM	179.00	6.20	25.30	12.60	0.00	31.40	25.30	12.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 2:30 PM	176.00	6.50	21.70	13.60	0.00	32.70	21.70	9.90	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 2:45 PM	167.00	6.50	20.60	13.10	0.00	30.60	20.60	10.50	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 3:00 PM	178.00	6.60	23.70	12.10	0.00	31.90	23.70	10.20	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 3:15 PM	191.00	5.20	12.40	31.00	18.60	31.00	18.00	12.40	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 3:30 PM	175.00	4.50	18.00	11.60	0.00	32.20	18.00	11.30	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 3:45 PM	177.00	3.60	19.10	14.90	0.00	33.50	19.10	11.70	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 4:00 PM	184.00	5.20	12.60	33.10	20.50	33.10	20.30	12.60	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 4:15 PM	180.00	3.40	12.20	31.00	18.80	31.00	26.80	12.20	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 4:30 PM	158.00	5.60	21.10	12.90	0.00	30.20	21.10	11.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 4:45 PM	177.00	5.40	22.70	12.50	0.00	32.40	22.70	11.20	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 5:00 PM	178.00	5.60	18.90	12.60	0.00	29.30	18.90	11.70	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 5:15 PM	147.00	5.30	19.10	19.20	0.10	29.30	19.10	10.70	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 5:30 PM	176.00	4.90	19.50	15.80	0.00	29.80	19.50	11.60	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 5:45 PM	153.00	3.10	23.10	15.60	0.00	30.60	23.10	12.20	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 6:00 PM	155.00	5.20	24.60	15.40	0.00	29.30	24.60	11.50	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 6:15 PM	161.00	4.90	20.30	16.90	0.00	28.90	20.30	12.70	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 6:30 PM	149.00	4.10	21.60	16.70	0.00	63.70	21.60	13.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 6:45 PM	156.00	3.30	22.10	17.00	0.00	64.10	22.10	13.90	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 7:00 PM	165.00	2.50	22.20	16.50	0.00	63.90	22.20	14.60	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 7:15 PM	154.00	2.60	22.80	18.50	0.00	64.00	22.80	13.20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 7:30 PM	162.00	2.70	28.40	18.40	0.00	63.30	28.40	14.50	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 7:45 PM	157.00	2.60	52.90	18.10	0.00	63.30	52.90	16.30	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 8:00 PM	154.00	2.80	57.30	19.90	0.00	63.10	57.30	17.70	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 8:15 PM	161.00	3.30	33.60	22.60	0.00	62.40	33.60	21.20	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 8:30 PM	160.00	3.20	26.60	19.70	0.00	62.50	26.60	20.20	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 8:45 PM	160.00	2.40	25.50	18.50	0.00	61.80	25.50	17.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:00 PM	167.00	2.10	29.70	18.90	0.00	62.10	29.70	17.70	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:15 PM	164.00	2.20	28.70	22.40	0.00	63.60	28.70	19.10	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:30 PM	171.00	2.20	31.50	26.80	0.00	64.10	31.50	20.60	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 9:45 PM	164.00	2.90	31.50	27.90	0.00	65.10	31.50	20.80	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:00 PM	173.00	2.30	34.10	26.70	0.00	67.20	34.10	21.60	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:15 PM	178.00	1.50	34.20	26.90	0.00	68.40	34.20	21.90	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:30 PM	167.00	2.50	36.30	28.60	0.00	70.30	36.30	23.80	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 10:45 PM	181.00	4.00	28.50	69.40	40.90	69.40	41.30	28.50	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 11:00 PM	189.00	4.20	25.90	69.00	43.10	69.00	40.10	25.90	31.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 11:15 PM	199.00	3.30	24.60	69.40	44.80	69.40	39.70	24.60	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/9/13 11:30 PM	199.00	2.30	23.00															



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/12/13 9:30 AM	190.00	2.30	27.60	26.90	0.00	26.90	32.50	27.60	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 9:45 AM	171.00	2.30	28.60	26.30	0.00	29.50	28.60	25.70	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:00 AM	193.00	1.70	26.40	25.60	0.00	25.60	27.40	26.40	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:15 AM	210.00	1.80	35.50	43.30	7.80	43.30	47.00	35.50	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:30 AM	197.00	2.00	43.00	57.90	14.90	57.90	47.00	43.00	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:45 AM	155.00	2.80	49.20	47.90	0.00	61.20	49.20	45.70	47.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:00 AM	170.00	3.70	38.90	46.00	7.10	58.40	38.90	40.10	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:15 AM	184.00	3.30	40.20	48.50	8.30	48.50	36.90	40.20	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:30 AM	187.00	5.40	38.40	44.50	6.10	44.50	40.40	38.40	42.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:45 AM	178.00	7.70	40.40	42.60	2.20	48.90	40.40	37.20	42.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 12:00 PM	171.00	6.20	31.30	38.30	7.00	37.20	31.30	28.50	38.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 12:15 PM	171.00	5.40	31.20	30.20	0.00	30.10	31.20	26.90	30.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 12:30 PM	206.00	6.10	28.80	34.10	5.30	34.10	33.40	28.80	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 12:45 PM	183.00	5.90	28.60	30.20	1.60	30.20	30.80	28.60	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 1:00 PM	209.00	6.60	21.30	28.30	7.00	28.30	25.20	21.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 1:15 PM	233.00	1.90	17.40	16.20	0.00	16.20	21.30	17.40	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 1:30 PM	252.00	3.00	17.40	14.60	0.00	14.60	19.90	17.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 1:45 PM	268.00	3.40	16.90	16.20	0.00	16.20	19.20	16.90	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 2:00 PM	334.00	3.50	18.40	22.50	4.10	18.60	22.50	17.30	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 2:15 PM	8.00	3.30	15.50	14.80	0.00	15.50	18.50	14.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 2:30 PM	32.00	5.40	12.30	13.10	0.80	12.30	17.50	13.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 2:45 PM	24.00	5.90	15.20	13.70	0.00	15.20	18.70	13.70	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 3:00 PM	30.00	5.80	14.30	13.50	0.00	14.30	20.50	13.50	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 3:15 PM	27.00	5.60	20.30	17.30	0.00	20.30	27.70	17.30	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 3:30 PM	10.00	4.20	19.60	16.30	0.00	19.60	23.90	16.30	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 3:45 PM	27.00	6.20	46.90	38.80	0.00	46.90	38.00	38.80	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 4:00 PM	51.00	6.50	47.10	37.90	0.00	47.10	41.20	37.90	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 4:15 PM	42.00	4.20	42.80	36.50	0.00	42.80	42.20	36.50	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 4:30 PM	29.00	3.90	57.20	30.60	0.00	57.20	48.10	30.60	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 4:45 PM	47.00	2.70	29.90	28.20	0.00	29.90	34.00	28.20	36.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 5:00 PM	46.00	2.80	34.80	24.50	0.00	34.80	29.30	24.50	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 5:15 PM	76.00	3.80	29.90	25.90	0.00	29.90	34.40	25.90	38.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 5:30 PM	83.00	2.40	75.00	34.30	0.00	75.00	34.60	34.30	44.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 5:45 PM	93.00	3.10	39.00	44.20	5.20	77.90	39.00	44.00	44.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 6:00 PM	31.00	4.90	89.40	56.20	0.00	89.40	46.40	56.20	61.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 6:15 PM	25.00	5.50	98.90	62.50	0.00	98.90	60.40	62.50	65.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 6:30 PM	2.00	5.90	90.20	34.30	0.00	90.20	32.50	34.30	64.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 6:45 PM	17.00	6.80	37.00	56.10	19.10	75.50	37.00	33.40	56.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 7:00 PM	265.00	4.30	34.50	72.80	38.30	72.80	31.60	34.50	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 7:15 PM	184.00	0.90	0.00	35.40	0.00	35.40	40.00	0.00	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 7:30 PM	147.00	2.80	32.60	31.50	0.00	37.80	32.60	33.50	31.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 7:45 PM	185.00	5.60	33.00	37.10	4.10	37.10	42.40	33.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 8:00 PM	183.00	6.30	40.60	51.50	10.90	51.50	49.20	40.60	44.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 8:15 PM	166.00	8.30	40.20	33.50	0.00	38.30	40.20	37.00	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 8:30 PM	198.00	4.90	32.00	43.00	11.00	43.00	43.20	32.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 8:45 PM	221.00	3.20	18.20	26.90	8.70	26.90	19.90	18.20	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 9:00 PM	207.00	1.90	12.70	11.00	0.00	11.00	14.40	12.70	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 9:15 PM	10.00	10.10	5.80	9.90	4.10	5.80	12.10	9.90	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 9:30 PM	7.00	9.10	2.00	7.30	5.30	2.00	8.80	7.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 9:45 PM	22.00	11.40	2.00	6.10	4.10	2.00	9.30	6.10	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:00 PM	35.00	8.70	1.80	6.10	4.30	1.80	8.30	6.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:15 PM	42.00	8.00	2.00	6.20	4.20	2.00	8.00	6.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:30 PM	60.00	9.10	24.80	26.00	1.20	24.80	28.90	26.00	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 10:45 PM	86.00	5.50	23.50	21.30	0.00	23.50	26.80	21.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:00 PM	113.00	1.60	10.30	5.40	0.00	0.50	10.30	3.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:15 PM	354.00	6.80	10.10	7.60	0.00	-1.00	7.60	3.50	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:30 PM	36.00	8.60	-0.80	2.40	3.20	-0.80	5.00	2.40	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/12/13 11:45 PM	36.00	10.60	0.60	4.10	3.50	0.60	15.10	4.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:00 AM	101.00	4.30	21.20	22.50	1.30	12.40	21.20	18.80	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:15 AM	62.00	12.90	14.60	4.70	0.00	14.60	10.20	4.70	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:30 AM	215.00	5.50	1.30	0.30	0.00	0.30	4.50	1.30	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:45 AM	219.00	2.30	2.60	0.00	0.00	0.00	7.60	2.60	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:00 AM	250.00	1.20	3.70	0.30	0.00	0.30	6.50	3.70	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:15 AM	10.00	0.70	29.80	6.80	0.00	29.80	15.70	6.80	46.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:30 AM	5.00	1.80	33.20	9.10	0.00	33.20	7.60	9.10	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:45 AM	9.00	3.40	-0.60	1.50	2.10	-0.60	3.80	1.50	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 2:00 AM	3.00	6.60	1.80	2.20	0.40	1.80	4.90	2.20	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 2:15 AM	6.00	6.20	1.20	4.10	2.90	1.20	6.10	4.10	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 2:30 AM	11.00	9.60	1.90	4.10	2.20	1.90	5.70	4.10	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/																



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/13/13 10:15 AM	12.00	10.90	21.20	3.40	0.00	21.20	6.50	3.40	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 10:30 AM	18.00	10.60	20.40	3.70	0.00	20.40	5.80	3.70	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 10:45 AM	9.00	11.30	19.60	2.90	0.00	19.60	5.10	2.90	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:00 AM	12.00	10.70	18.60	2.70	0.00	18.60	5.50	2.70	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:15 AM	9.00	11.80	18.80	2.50	0.00	18.80	5.50	2.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:30 AM	9.00	10.00	18.40	3.40	0.00	18.40	7.80	3.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:45 AM	9.00	10.50	18.90	4.60	0.00	18.90	7.10	4.60	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:00 PM	9.00	9.50	18.30	4.60	0.00	18.30	6.80	4.60	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:15 PM	17.00	11.20	18.00	3.90	0.00	18.00	7.50	3.90	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:30 PM	9.00	10.00	18.30	4.30	0.00	18.30	6.80	4.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 12:45 PM	8.00	10.60	18.10	4.80	0.00	18.10	6.80	4.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:00 PM	7.00	11.20	17.10	5.00	0.00	17.10	6.90	5.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:15 PM	9.00	9.10	16.40	5.50	0.00	16.40	7.20	5.50	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:30 PM	9.00	11.50	16.40	5.50	0.00	16.40	7.40	5.50	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 1:45 PM	5.00	10.80	15.90	5.80	0.00	15.90	8.50	5.80	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 2:00 PM	6.00	10.10	15.30	4.60	0.00	15.30	8.40	4.60	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 2:15 PM	17.00	8.30	14.70	4.30	0.00	14.70	8.70	4.30	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 2:30 PM	348.00	6.20	6.40	8.70	2.30	14.40	8.70	5.20	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 2:45 PM	23.00	7.60	14.60	5.00	0.00	14.60	8.80	5.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 3:00 PM	29.00	8.20	14.00	4.30	0.00	14.00	8.90	4.30	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 3:15 PM	34.00	7.50	13.40	1.70	0.00	13.40	7.50	1.70	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 3:30 PM	19.00	7.10	13.40	1.50	0.00	13.40	8.10	1.50	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 3:45 PM	27.00	6.90	13.80	1.80	0.00	13.80	8.80	1.80	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 4:00 PM	44.00	8.90	14.30	3.00	0.00	14.30	7.00	3.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 4:15 PM	39.00	7.80	13.90	2.50	0.00	13.90	6.40	2.50	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 4:30 PM	25.00	8.60	13.00	4.90	0.00	13.00	6.70	4.90	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 4:45 PM	21.00	6.50	12.40	2.50	0.00	12.40	4.60	2.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 5:00 PM	22.00	5.30	12.50	2.50	0.00	12.50	5.60	2.50	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 5:15 PM	34.00	6.60	12.00	9.00	0.00	12.00	5.50	9.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 5:30 PM	21.00	7.80	12.60	4.20	0.00	12.60	5.30	4.20	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 5:45 PM	37.00	6.50	11.80	3.40	0.00	11.80	6.60	3.40	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 6:00 PM	20.00	7.80	12.40	4.10	0.00	12.40	8.10	4.10	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 6:15 PM	37.00	7.40	11.70	12.40	0.70	11.70	7.70	12.40	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 6:30 PM	39.00	6.50	11.10	9.00	0.00	11.10	7.10	9.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 6:45 PM	18.00	5.70	11.90	9.60	0.00	11.90	8.30	9.60	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 7:00 PM	22.00	5.80	11.50	12.00	0.50	11.50	9.80	12.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 7:15 PM	10.00	6.10	11.50	5.20	0.00	11.50	11.20	5.20	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 7:30 PM	2.00	4.70	12.20	4.50	0.00	12.20	10.30	4.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 7:45 PM	5.00	5.50	13.00	3.60	0.00	13.00	11.00	3.60	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 8:00 PM	14.00	6.50	12.70	2.90	0.00	12.70	11.10	2.90	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 8:15 PM	11.00	5.70	11.90	2.90	0.00	11.90	14.40	2.90	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 8:30 PM	10.00	7.10	11.90	2.50	0.00	11.90	9.10	2.50	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 8:45 PM	8.00	6.50	11.90	2.40	0.00	11.90	9.20	2.40	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 9:00 PM	4.00	5.30	12.00	2.40	0.00	12.00	9.40	2.40	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 9:15 PM	16.00	5.80	12.10	2.70	0.00	12.10	7.70	2.70	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 9:30 PM	6.00	4.10	11.80	2.70	0.00	11.80	8.20	2.70	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 9:45 PM	353.00	3.30	7.00	10.80	3.80	11.40	10.80	2.20	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 10:00 PM	7.00	5.90	11.20	2.20	0.00	11.20	6.30	2.20	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 10:15 PM	7.00	5.80	11.10	1.90	0.00	11.10	6.10	1.90	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 10:30 PM	5.00	6.90	11.00	1.80	0.00	11.00	6.20	1.80	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 10:45 PM	8.00	7.30	10.00	1.70	0.00	10.00	5.30	1.70	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:00 PM	26.00	7.40	9.80	1.80	0.00	9.80	5.30	1.80	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:15 PM	13.00	7.80	9.60	2.20	0.00	9.60	5.80	2.20	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:30 PM	22.00	8.10	9.20	2.50	0.00	9.20	5.50	2.50	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/13 11:45 PM	23.00	7.70	9.00	2.50	0.00	9.00	6.80	2.50	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 12:00 AM	19.00	8.70	8.80	1.90	0.00	8.80	5.70	1.90	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 12:15 AM	22.00	10.00	8.60	2.40	0.00	8.60	5.80	2.40	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 12:30 AM	15.00	10.20	8.40	2.10	0.00	8.40	7.10	2.10	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 12:45 AM	17.00	8.40	8.40	2.10	0.00	8.40	5.80	2.10	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 1:00 AM	20.00	9.50	8.30	2.40	0.00	8.30	8.00	2.40	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 1:15 AM	20.00	8.40	8.30	2.20	0.00	8.30	6.60	2.20	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 1:30 AM	16.00	7.90	8.50	2.50	0.00	8.50	6.00	2.50	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 1:45 AM	24.00	8.80	8.30	2.10	0.00	8.30	7.50	2.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 2:00 AM	19.00	8.00	8.00	1.90	0.00	8.00	6.40	1.90	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 2:15 AM	17.00	9.60	8.00	2.40	0.00	8.00	6.50	2.40	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 2:30 AM	19.00	9.10	7.90	2.10	0.00	7.90	5.90	2.10	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 2:45 AM	19.00	7.50	8.10	3.10	0.00	8.10	6.90	3.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 3:00 AM	25.00	7.60	8.20	2.40	0.00	8.20	6.90	2.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 3:15 AM	32.00	7.60	8.00	3.20	0.00	8.00	6.70	3.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 3:30 AM	25.00	7.80	7.90	2.80	0.00	7.90	7.50	2.80	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/13 3:45 AM	34.00	8.40	7.90	3.10	0.00	7.90	6.50	3								



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/14/13 11:00 AM	34.00	4.20	7.50	8.10	0.60	7.50	8.20	8.10	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 11:15 AM	60.00	4.60	7.90	8.10	0.20	7.90	8.60	8.10	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 11:30 AM	47.00	3.70	7.90	9.20	1.30	7.90	8.50	9.20	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 11:45 AM	46.00	4.30	8.20	9.30	1.10	8.20	9.20	9.30	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 12:00 PM	33.00	3.40	8.30	10.80	2.50	8.30	10.20	10.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 12:15 PM	39.00	3.40	8.40	13.30	4.90	8.40	9.30	13.30	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 12:30 PM	29.00	4.20	8.50	10.80	2.30	8.50	11.10	10.80	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 12:45 PM	35.00	4.20	8.60	12.20	3.60	8.60	11.60	12.20	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 1:00 PM	8.00	3.70	9.30	12.50	3.20	9.30	13.60	12.50	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 1:15 PM	4.00	4.00	9.10	21.90	12.80	9.10	18.40	21.90	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 1:30 PM	14.00	4.20	9.10	11.00	1.90	9.10	16.40	11.00	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 1:45 PM	7.00	3.30	9.70	16.30	6.60	9.70	14.00	16.30	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 2:00 PM	16.00	4.20	9.40	10.90	1.50	9.40	13.10	10.90	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 2:15 PM	35.00	4.30	9.50	9.20	0.00	9.50	9.90	9.20	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 2:30 PM	56.00	5.50	9.80	10.20	0.40	9.80	12.10	10.20	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 2:45 PM	37.00	5.10	10.10	14.40	4.30	10.10	15.90	14.40	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 3:00 PM	42.00	4.90	10.00	12.30	2.30	10.00	13.60	12.30	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 3:15 PM	52.00	5.00	10.60	17.20	6.60	10.60	18.70	17.20	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 3:30 PM	54.00	4.30	11.20	19.40	8.20	11.20	13.00	19.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 3:45 PM	52.00	4.70	11.00	20.00	9.00	11.00	14.00	20.00	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 4:00 PM	46.00	3.40	11.60	18.20	6.60	11.60	16.30	18.20	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 4:15 PM	36.00	3.50	11.70	20.40	8.70	11.70	15.40	20.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 4:30 PM	40.00	3.20	11.90	20.40	8.50	11.90	17.00	20.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 4:45 PM	27.00	4.20	11.70	22.80	11.10	11.70	15.40	22.80	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 5:00 PM	42.00	4.60	11.80	19.20	7.40	11.80	15.40	19.20	16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 5:15 PM	49.00	4.40	11.60	17.20	5.60	11.60	19.30	17.20	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 5:30 PM	30.00	5.20	11.90	16.90	5.00	11.90	17.20	16.90	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 5:45 PM	50.00	4.90	11.90	14.40	2.50	11.90	29.50	14.40	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 6:00 PM	85.00	3.70	12.90	26.90	14.00	12.90	31.40	26.90	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 6:15 PM	84.00	4.20	13.20	23.00	9.80	13.20	29.10	23.00	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 6:30 PM	94.00	3.70	32.50	22.60	0.00	14.80	32.50	27.90	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 6:45 PM	104.00	3.40	22.40	20.70	0.00	13.90	22.40	22.20	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 7:00 PM	90.00	3.00	49.80	14.50	0.00	13.10	49.80	45.20	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 7:15 PM	93.00	3.40	42.10	27.10	0.00	18.70	42.10	64.70	27.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 7:30 PM	87.00	4.00	17.70	63.60	45.90	17.70	50.80	63.60	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 7:45 PM	87.00	3.60	23.50	50.30	26.80	23.50	45.00	50.30	98.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 8:00 PM	82.00	2.10	19.20	27.40	8.20	19.20	25.30	27.40	64.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 8:15 PM	66.00	2.50	17.30	19.00	1.70	17.30	29.20	19.00	57.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 8:30 PM	80.00	2.30	17.60	19.40	1.80	17.60	30.70	19.40	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 8:45 PM	80.00	1.90	19.20	14.50	0.00	19.20	21.60	14.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 9:00 PM	63.00	1.90	18.70	15.30	0.00	18.70	22.80	15.30	29.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 9:15 PM	70.00	1.70	19.60	18.30	0.00	19.60	24.40	18.30	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 9:30 PM	77.00	2.80	19.50	19.20	0.00	19.50	31.80	19.20	62.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 9:45 PM	84.00	2.60	18.20	18.80	0.60	18.20	30.10	18.80	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 10:00 PM	92.00	1.40	32.70	87.40	54.70	20.70	32.70	20.30	87.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 10:15 PM	83.00	1.90	19.90	22.90	3.00	19.90	38.70	22.90	60.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 10:30 PM	82.00	1.40	23.50	24.40	0.90	23.50	38.10	24.40	60.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 10:45 PM	70.00	2.10	23.70	23.00	0.00	23.70	33.30	23.00	51.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 11:00 PM	73.00	2.10	22.60	27.30	4.70	22.60	36.40	27.30	39.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 11:15 PM	103.00	1.40	27.50	27.00	0.00	20.40	27.50	14.90	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 11:30 PM	145.00	1.00	17.40	25.50	8.10	19.70	17.40	10.60	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/14/13 11:45 PM	130.00	1.20	23.20	48.60	25.40	20.20	23.20	13.90	48.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 12:00 AM	81.00	2.30	23.20	26.90	3.70	23.20	34.20	26.90	34.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 12:15 AM	83.00	1.50	24.60	46.70	22.10	24.60	57.60	46.70	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 12:30 AM	103.00	1.30	41.20	60.90	19.70	25.50	41.20	33.60	60.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 12:45 AM	146.00	2.50	17.80	32.20	14.40	23.30	17.80	15.70	32.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 1:00 AM	153.00	1.70	22.20	17.90	0.00	19.90	22.20	27.00	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 1:15 AM	224.00	1.00	13.20	20.30	7.10	20.30	15.40	13.20	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 1:30 AM	183.00	0.80	16.00	21.70	5.70	21.70	16.90	16.00	29.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 1:45 AM	246.00	1.00	11.70	20.30	8.60	20.30	25.80	11.70	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 2:00 AM	151.00	0.50	13.80	28.80	15.00	23.70	13.80	9.60	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 2:15 AM	154.00	1.30	14.40	17.10	2.70	20.60	14.40	9.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 2:30 AM	177.00	1.90	17.70	16.20	0.00	21.50	17.70	11.90	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 2:45 AM	181.00	1.80	14.30	21.90	7.60	21.90	21.80	14.30	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 3:00 AM	137.00	1.60	21.80	17.80	0.00	21.70	21.80	16.40	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6/15/13 3:15 AM	176.00	1.70	22.10	22.00	0.00	21.50	22.10											



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/15/13 11:45 AM	226.00	4.30	14.90	20.80	5.90	20.80	18.00	14.90	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 12:00 PM	229.00	6.30	13.90	20.20	6.30	20.20	17.50	13.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 12:15 PM	217.00	3.80	14.00	19.90	5.90	19.90	20.90	14.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 12:30 PM	211.00	4.80	13.20	19.50	6.30	19.50	20.80	13.20	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 12:45 PM	184.00	4.10	12.60	18.80	6.20	18.80	18.80	12.60	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 1:00 PM	187.00	4.30	11.30	18.70	7.40	18.70	16.70	11.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 1:15 PM	189.00	3.30	9.30	17.40	8.10	17.40	15.20	9.30	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 1:30 PM	168.00	3.90	14.10	9.70	0.00	17.90	14.10	9.10	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 1:45 PM	179.00	3.20	15.30	9.30	0.00	17.80	15.30	9.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 2:00 PM	186.00	3.30	10.60	18.30	7.70	18.30	14.80	10.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 2:15 PM	186.00	4.70	9.60	17.60	8.00	17.60	14.40	9.60	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 2:30 PM	195.00	3.20	9.00	17.40	8.40	17.40	13.90	9.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 2:45 PM	175.00	3.60	12.20	9.50	0.00	16.40	12.20	9.10	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 3:00 PM	189.00	2.30	9.20	16.20	7.00	16.20	11.90	9.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 3:15 PM	162.00	4.10	11.10	9.60	0.00	16.30	11.10	8.20	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 3:30 PM	197.00	3.40	8.30	15.50	7.20	15.50	12.60	8.30	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 3:45 PM	200.00	2.40	8.00	15.30	7.30	15.30	11.40	8.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 4:00 PM	207.00	2.30	8.20	14.60	6.40	14.60	12.00	8.20	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 4:15 PM	177.00	3.50	12.30	10.60	0.00	14.80	12.30	8.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 4:30 PM	161.00	3.30	12.40	9.90	0.00	23.40	12.40	8.50	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 4:45 PM	183.00	2.80	8.60	26.10	17.50	26.10	12.10	8.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 5:00 PM	205.00	3.50	9.30	26.90	17.60	26.90	12.50	9.30	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 5:15 PM	215.00	4.00	9.00	28.00	19.00	28.00	13.00	9.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 5:30 PM	184.00	4.20	10.60	24.30	13.70	24.30	14.00	10.60	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 5:45 PM	179.00	4.50	13.80	9.80	0.00	24.30	13.80	9.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 6:00 PM	184.00	5.20	10.20	23.80	13.60	23.80	15.00	10.20	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 6:15 PM	170.00	4.60	14.40	9.80	0.00	23.00	14.40	10.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 6:30 PM	177.00	5.20	15.10	10.80	0.00	23.60	15.10	11.60	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 6:45 PM	179.00	4.50	15.20	11.00	0.00	21.80	15.20	11.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 7:00 PM	0.00	0.00	0.00	0.00	0.00	23.10	15.80	10.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 7:15 PM	206.00	3.30	12.30	8.30	0.00	8.30	15.60	12.30	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 7:30 PM	211.00	2.10	12.90	8.30	0.00	8.30	15.20	12.90	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 7:45 PM	192.00	4.20	14.00	6.40	0.00	6.40	16.70	14.00	14.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 8:00 PM	186.00	3.00	15.00	6.40	0.00	6.40	16.80	15.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 8:15 PM	166.00	3.20	15.90	14.80	0.00	6.90	15.90	13.90	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 8:30 PM	179.00	3.30	17.00	14.30	0.00	6.70	17.00	14.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 8:45 PM	179.00	3.40	16.80	13.70	0.00	6.40	16.80	14.70	13.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 9:00 PM	179.00	4.70	18.40	14.90	0.00	7.30	18.40	15.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 9:15 PM	202.00	4.60	17.40	6.80	0.00	6.80	18.20	17.40	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 9:30 PM	195.00	4.30	19.00	8.60	0.00	8.60	22.10	19.00	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 9:45 PM	204.00	3.00	19.10	9.00	0.00	9.00	20.60	19.10	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 10:00 PM	212.00	3.70	20.70	8.70	0.00	8.70	20.60	20.70	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 10:15 PM	209.00	4.20	19.90	9.10	0.00	9.10	20.00	19.90	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 10:30 PM	208.00	4.10	20.90	9.20	0.00	9.20	18.70	20.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 10:45 PM	218.00	3.80	19.30	9.20	0.00	9.20	18.80	19.30	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 11:00 PM	222.00	3.80	16.20	9.30	0.00	9.30	14.90	16.20	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 11:15 PM	234.00	5.30	15.10	9.50	0.00	9.50	14.40	15.10	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 11:30 PM	257.00	5.70	14.10	10.30	0.00	10.30	14.60	14.10	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/13 11:45 PM	255.00	7.00	14.00	9.20	0.00	9.20	13.40	14.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 12:00 AM	243.00	6.50	12.80	9.80	0.00	9.80	12.70	12.80	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 12:15 AM	234.00	6.50	13.40	9.50	0.00	9.50	12.20	13.40	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 12:30 AM	256.00	10.20	12.10	9.60	0.00	9.60	14.00	12.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 12:45 AM	265.00	7.70	9.90	10.30	0.40	10.30	10.40	9.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 1:00 AM	257.00	7.60	6.60	9.20	2.60	9.20	9.00	6.60	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 1:15 AM	254.00	7.40	14.10	11.20	0.00	11.20	15.90	14.10	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 1:30 AM	260.00	6.80	11.60	11.00	0.00	11.00	14.50	11.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 1:45 AM	267.00	6.30	8.40	11.10	2.70	11.10	12.70	8.40	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 2:00 AM	262.00	5.10	5.70	0.00	0.00	0.00	10.40	5.70	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 2:15 AM	267.00	4.50	5.90	-0.20	0.00	-0.20	9.20	5.90	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 2:30 AM	274.00	4.80	7.40	8.90	1.50	-0.20	8.90	5.60	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 2:45 AM	274.00	3.50	7.20	8.30	1.10	-0.10	8.30	5.60	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 3:00 AM	285.00	2.90	7.20	7.70	0.50	-0.10	7.70	5.50	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 3:15 AM	276.00	2.40	6.60	7.50	0.90	0.00	7.50	5.50	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 3:30 AM	303.00	2.10	7.10	7.60	0.50	-0.10	7.60	5.90	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 3:45 AM	243.00	1.20	5.30	0.00	0.00	0.00	7.30	5.30	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 4:00 AM	219.00	1.30	5.60	-0.10	0.00	-0.10	8.70	5.60	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 4:15 AM	215.00	2.00	5.50	-0.10	0.00	-0.10	6.90	5.50	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 4:30 AM	218.00	2.30	5.30	-0.20	0.00	-0.20	7.20	5.30	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 4:45 AM	212.00	3.30	4.70	0.00	0.00	0.00	6.40	4.70	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/13 5:00 AM	214.00	2.50	5.20	-0												



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/20/13 3:30 PM	110.00	3.30	34.20	36.30	2.10	36.00	34.20	23.80	36.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 3:45 PM	128.00	5.50	51.80	33.80	0.00	58.40	51.80	28.20	33.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 4:00 PM	130.00	4.20	51.80	33.30	0.00	34.00	51.80	118.40	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 4:15 PM	96.00	3.10	43.10	33.90	0.00	35.60	43.10	25.20	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 4:30 PM	85.00	4.70	37.60	30.40	0.00	37.60	43.60	30.40	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 4:45 PM	91.00	4.30	62.10	39.50	0.00	34.20	62.10	26.20	39.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 5:00 PM	94.00	4.50	62.10	27.90	0.00	26.70	62.10	28.40	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 5:15 PM	90.00	5.30	86.60	29.90	0.00	18.70	86.60	17.90	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 5:30 PM	101.00	3.90	63.00	23.90	0.00	17.50	63.00	54.00	23.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 5:45 PM	89.00	3.90	22.70	33.90	11.20	22.70	88.80	33.90	29.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 6:00 PM	94.00	2.70	46.90	62.90	16.00	51.00	46.90	14.10	62.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 6:15 PM	94.00	2.90	43.10	45.50	2.40	45.20	43.10	17.10	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 6:30 PM	108.00	3.10	54.70	69.50	14.80	51.00	54.70	14.50	69.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 6:45 PM	83.00	4.30	31.40	33.40	2.00	31.40	73.60	33.40	35.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 7:00 PM	83.00	4.80	33.90	31.80	0.00	33.90	66.90	31.80	33.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 7:15 PM	84.00	3.60	22.70	61.90	39.20	22.70	83.00	61.90	34.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 7:30 PM	118.00	3.30	51.50	25.40	0.00	20.60	51.50	38.70	25.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 7:45 PM	101.00	1.60	103.80	26.70	0.00	14.60	103.80	47.80	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 8:00 PM	126.00	2.70	75.50	25.90	0.00	15.20	75.50	83.20	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 8:15 PM	137.00	2.30	75.50	26.00	0.00	13.30	75.50	79.10	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 8:30 PM	144.00	2.30	45.50	19.80	0.00	14.30	45.50	45.90	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 8:45 PM	148.00	1.80	54.00	26.10	0.00	17.90	54.00	0.00	26.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 9:00 PM	150.00	1.30	55.60	33.50	0.00	27.20	55.60	36.10	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 9:15 PM	146.00	1.70	51.50	42.40	0.00	39.40	51.50	33.50	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 9:30 PM	154.00	2.00	152.80	47.80	0.00	49.70	152.80	29.60	47.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 9:45 PM	143.00	2.50	35.40	59.90	24.50	58.90	35.40	31.70	59.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 10:00 PM	160.00	3.60	34.70	40.10	5.40	43.50	34.70	32.20	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 10:15 PM	155.00	3.70	36.80	37.10	0.30	46.30	36.80	33.80	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 10:30 PM	169.00	2.90	50.90	37.10	0.00	48.90	50.90	35.00	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 10:45 PM	169.00	3.00	38.10	37.90	0.00	43.40	38.10	36.70	37.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 11:00 PM	160.00	2.50	40.70	67.00	26.30	65.60	40.70	31.00	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 11:15 PM	166.00	2.50	37.10	33.50	0.00	37.90	37.10	31.30	33.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 11:30 PM	161.00	2.90	36.00	40.00	4.00	41.70	36.00	32.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/20/13 11:45 PM	177.00	2.60	35.70	41.90	6.20	43.60	35.70	33.70	41.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 12:00 AM	183.00	3.00	41.20	46.90	5.70	46.90	35.40	41.20	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 12:15 AM	189.00	2.80	40.40	46.30	5.90	46.30	36.80	40.40	36.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 12:30 AM	190.00	2.90	37.10	43.90	6.80	43.90	39.60	37.10	40.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 12:45 AM	186.00	3.90	36.40	54.30	17.90	54.30	40.40	36.40	43.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 1:00 AM	193.00	4.00	34.80	54.30	19.50	54.30	38.00	34.80	40.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 1:15 AM	191.00	3.40	32.00	41.50	9.50	41.50	35.70	32.00	39.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 1:30 AM	191.00	3.80	31.20	39.30	8.10	39.30	32.70	31.20	36.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 1:45 AM	191.00	3.00	30.50	37.10	6.60	37.10	32.00	30.50	37.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 2:00 AM	196.00	3.40	29.90	40.70	10.80	40.70	32.00	29.90	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 2:15 AM	189.00	3.50	28.70	41.10	12.40	41.10	33.50	28.70	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 2:30 AM	194.00	3.00	29.50	39.30	9.80	39.30	32.40	29.50	33.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 2:45 AM	188.00	3.20	0.00	40.20	0.00	40.20	33.50	0.00	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 3:00 AM	188.00	2.80	29.40	39.10	9.70	39.10	34.10	29.40	34.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 3:15 AM	192.00	3.00	29.00	36.50	7.50	36.50	33.50	29.00	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 3:30 AM	192.00	3.70	28.50	33.60	5.10	33.60	31.80	28.50	33.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 3:45 AM	194.00	3.70	28.70	34.00	5.30	34.00	32.10	28.70	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 4:00 AM	198.00	3.00	0.00	32.60	0.00	32.60	31.50	0.00	35.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 4:15 AM	191.00	3.40	28.50	34.00	5.50	34.00	31.20	28.50	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 4:30 AM	196.00	3.90	26.20	31.90	5.70	31.90	30.00	26.20	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 4:45 AM	195.00	3.30	23.50	27.00	3.50	27.00	25.30	23.50	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:00 AM	201.00	3.20	22.90	24.80	1.90	24.80	25.40	22.90	24.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:15 AM	206.00	2.80	19.40	25.80	6.40	25.80	25.80	19.40	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:30 AM	207.00	2.60	19.70	23.80	4.10	23.80	23.20	19.70	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:45 AM	205.00	3.30	19.70	25.40	5.70	25.40	24.50	19.70	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:00 AM	202.00	4.20	18.70	22.80	4.10	22.80	22.60	18.70	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:15 AM	199.00	3.50	18.10	22.40	4.30	22.40	22.60	18.10	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:30 AM	208.00	5.10	18.90	22.60	3.70	22.60	24.40	18.90	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:45 AM	198.00	4.30	18.40	21.30	2.90	21.30	23.40	18.40	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:00 AM	190.00	5.00	18.00	20.30	2.30	20.30	22.40	18.00	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:15 AM	193.00	5.90	17.90	19.80	1.90	19.80	22.30	17.90	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:30 AM	193.00	5.30	0.00	19.10	0.00	19.10	21.10	0.00	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:45 AM	205.00	5.90	17.00	18.50	1.50	18.50	22.00	17.00	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 8:00 AM	200.00	5.90	16.80	18.30	1.50	18.30	21.50	16.80	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 8:15 AM	211.00	6.60	17.90	19.10	1.20	19.10	20.90	17.90	19.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 8:30 AM	201.00	3.60	16.10	17.60	1.5													



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/21/13 4:00 PM	163.00	7.10	19.40	12.20	0.00	13.40	19.40	11.20	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 4:15 PM	158.00	6.40	16.20	13.30	0.00	13.50	16.20	11.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 4:30 PM	177.00	10.30	17.00	17.00	0.00	15.00	17.00	14.60	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 4:45 PM	174.00	8.20	17.50	15.70	0.00	14.20	17.50	12.70	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:00 PM	177.00	7.50	14.40	18.40	4.00	18.40	17.00	14.40	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:15 PM	190.00	5.70	16.90	17.80	0.90	17.80	20.50	16.90	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:30 PM	194.00	5.50	17.00	18.40	1.40	18.40	19.50	17.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 5:45 PM	202.00	2.60	18.60	18.80	0.20	18.60	18.80	16.00	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:00 PM	299.00	1.60	16.50	14.70	0.00	16.50	17.10	14.70	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:15 PM	9.00	3.00	15.40	15.70	0.30	15.40	16.50	15.70	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:30 PM	19.00	1.90	16.30	17.10	0.80	17.20	16.30	14.10	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 6:45 PM	129.00	0.90	16.30	18.00	1.70	17.00	16.30	14.80	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:00 PM	147.00	2.10	17.80	18.20	0.40	19.40	17.80	16.10	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:15 PM	179.00	4.10	17.00	21.10	4.10	21.10	19.00	17.00	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:30 PM	191.00	3.60	21.20	21.80	0.60	21.80	20.90	21.20	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 7:45 PM	200.00	5.10	23.40	24.00	0.60	24.00	21.80	23.40	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 8:00 PM	218.00	4.50	22.40	20.50	0.00	20.50	19.20	22.40	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 8:15 PM	198.00	3.40	15.00	17.70	2.70	17.70	17.10	15.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 8:30 PM	193.00	3.80	15.50	17.40	1.90	17.40	16.20	15.50	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 8:45 PM	204.00	3.90	15.90	17.80	1.90	17.80	15.70	15.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 9:00 PM	191.00	3.40	15.90	18.10	2.20	18.10	16.40	15.90	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 9:15 PM	201.00	2.50	17.10	18.80	1.70	18.80	16.40	17.10	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 9:30 PM	200.00	3.10	16.20	19.50	3.30	19.50	16.60	16.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 9:45 PM	204.00	2.90	16.00	18.30	2.30	18.30	16.00	16.00	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 10:00 PM	212.00	3.40	15.70	18.50	2.80	18.50	16.40	15.70	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 10:15 PM	213.00	4.30	19.80	18.80	0.00	18.80	16.20	19.80	17.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 10:30 PM	215.00	3.70	18.00	19.60	1.60	19.60	17.20	18.00	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 10:45 PM	220.00	4.40	19.90	21.00	1.10	21.00	17.60	19.90	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 11:00 PM	213.00	4.20	18.30	19.70	1.40	19.70	17.30	18.30	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 11:15 PM	214.00	6.30	17.00	19.60	2.60	19.60	17.30	17.00	19.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 11:30 PM	204.00	4.60	17.20	19.30	2.10	19.30	17.00	17.20	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/21/13 11:45 PM	220.00	4.10	17.60	18.60	1.00	18.60	16.50	17.60	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 12:00 AM	209.00	6.20	16.40	18.00	1.60	18.00	15.80	16.40	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 12:15 AM	205.00	6.20	17.90	17.50	0.00	17.50	15.80	17.90	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 12:30 AM	197.00	6.30	15.90	17.30	1.40	17.30	16.30	15.90	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 12:45 AM	206.00	4.50	15.80	17.50	1.70	17.50	16.10	15.80	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 1:00 AM	202.00	5.40	16.10	18.20	2.10	18.20	15.90	16.10	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 1:15 AM	209.00	5.60	17.30	17.90	0.60	17.90	15.90	17.30	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 1:30 AM	198.00	4.60	16.60	18.00	1.40	18.00	16.30	16.60	18.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 1:45 AM	194.00	4.80	16.80	18.60	1.80	18.60	16.50	16.80	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 2:00 AM	197.00	5.30	17.40	18.40	1.00	18.40	17.20	17.40	18.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 2:15 AM	212.00	3.80	17.60	19.30	1.70	19.30	17.60	17.60	19.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 2:30 AM	197.00	5.20	17.50	19.50	2.00	19.50	17.80	17.50	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 2:45 AM	212.00	7.10	17.80	19.40	1.60	19.40	17.20	17.80	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 3:00 AM	206.00	5.50	17.60	19.20	1.60	19.20	17.20	17.60	20.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 3:15 AM	215.00	4.90	18.30	19.70	1.40	19.70	24.90	18.30	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 3:30 AM	220.00	4.10	18.30	20.50	2.20	20.50	25.40	18.30	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 3:45 AM	222.00	4.10	20.80	25.50	4.70	20.80	25.50	18.20	20.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 4:00 AM	295.00	2.80	18.90	20.80	1.90	20.80	25.10	18.90	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 4:15 AM	215.00	2.50	20.70	25.50	4.80	21.10	25.50	19.70	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 4:30 AM	326.00	2.50	22.60	29.00	6.40	29.00	25.60	22.60	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 4:45 AM	220.00	1.90	21.00	24.00	3.00	24.00	25.80	21.00	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 5:00 AM	183.00	2.50	22.00	24.30	2.30	24.30	25.70	22.00	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 5:15 AM	185.00	3.00	27.80	23.20	0.00	24.50	27.80	23.50	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 5:30 AM	178.00	3.50	24.50	26.60	2.10	26.60	27.80	24.50	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 5:45 AM	188.00	4.20	24.40	27.40	3.00	27.40	25.70	24.40	25.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 6:00 AM	208.00	3.90	25.20	25.30	0.10	25.30	26.40	25.20	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 6:15 AM	224.00	3.50	25.20	26.70	1.50	26.70	27.40	25.20	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 6:30 AM	229.00	3.90	25.50	27.20	1.70	27.20	27.10	25.50	27.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 6:45 AM	207.00	3.90	26.10	26.60	0.50	26.60	25.10	26.10	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 7:00 AM	227.00	3.20	28.30	26.30	0.00	28.50	26.30	25.70	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 7:15 AM	299.00	1.70	26.40	24.20	0.00	28.40	24.20	25.20	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 7:30 AM	314.00	3.30	25.20	23.10	0.00	27.10	23.10	24.90	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 7:45 AM	282.00	2.80	25.20	23.30	0.00	26.70	23.30	24.40	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 8:00 AM	295.00	3.20	25.30	24.50	0.00	29.30	24.50	24.90	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 8:15 AM	300.00	2.00	29.30	25.80	0.00	31.10	25.80	29.90	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 8:30 AM	314.00	1.70	28.90	28.10	0.00	28.10	25.80	28.90	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 8:45 AM	265.00	0.70	25.30	27.60	2.30	27.60	23.50	25.30	28.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/22/13 9:00 AM	186.00	2.80	24.40	27.70	3.30													



US Army Corps
of Engineers

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/22/13 4:45 PM	224.00	4.60	33.70	26.30	0.00	26.30	34.50	33.70	29.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 5:00 PM	228.00	4.70	27.50	28.70	1.20	28.70	43.30	27.50	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 5:15 PM	225.00	4.50	25.70	31.80	6.10	31.80	40.40	25.70	27.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 5:30 PM	205.00	5.80	25.80	27.90	2.10	27.90	33.40	25.80	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 5:45 PM	203.00	5.50	22.70	26.90	4.20	26.90	28.10	22.70	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 6:00 PM	199.00	4.90	17.30	21.40	4.10	21.40	24.20	17.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 6:15 PM	208.00	4.80	12.80	15.30	2.50	15.30	18.10	12.80	15.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 6:30 PM	212.00	5.20	12.20	14.00	1.80	14.00	17.70	12.20	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 6:45 PM	216.00	3.70	9.60	12.00	2.40	12.00	14.70	9.60	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 7:00 PM	221.00	4.90	9.10	11.80	2.70	11.80	14.20	9.10	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 7:15 PM	208.00	4.10	9.10	11.40	2.30	11.40	13.00	9.10	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 7:30 PM	220.00	3.70	8.90	0.00	0.00	0.00	12.60	8.90	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 7:45 PM	239.00	3.10	6.80	9.10	2.30	9.10	11.60	6.80	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 8:00 PM	221.00	3.90	5.60	8.80	3.20	8.80	9.80	5.60	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 8:15 PM	200.00	5.10	5.70	8.80	3.10	8.80	9.20	5.70	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 8:30 PM	193.00	4.40	9.60	9.90	0.30	8.70	9.60	6.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 8:45 PM	177.00	3.50	6.20	9.10	2.90	9.10	10.10	6.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 9:00 PM	219.00	5.60	6.40	8.80	2.40	8.80	9.80	6.40	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 9:15 PM	223.00	2.70	5.90	8.70	2.80	8.70	9.50	5.90	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 9:30 PM	225.00	3.60	6.50	8.80	2.30	8.80	9.50	6.50	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 9:45 PM	214.00	3.40	5.90	8.30	2.40	8.30	8.90	5.90	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 10:00 PM	232.00	3.80	5.80	8.20	2.40	8.20	9.20	5.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 10:15 PM	221.00	4.30	6.00	8.50	2.50	8.50	8.60	6.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 10:30 PM	211.00	3.70	5.70	8.50	2.80	8.50	10.80	5.70	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 10:45 PM	209.00	3.30	5.70	8.10	2.40	8.10	11.50	5.70	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 11:00 PM	220.00	2.50	5.90	8.10	2.20	8.10	11.20	5.90	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 11:15 PM	212.00	2.00	6.10	8.40	2.30	8.40	10.70	6.10	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 11:30 PM	199.00	2.30	5.60	8.10	2.50	8.10	10.50	5.60	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/13 11:45 PM	195.00	2.50	6.30	8.70	2.40	8.70	10.80	6.30	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 12:00 AM	219.00	2.10	6.00	8.80	2.80	8.80	10.80	6.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 12:15 AM	211.00	2.10	6.60	8.60	2.00	8.60	10.40	6.60	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 12:30 AM	215.00	2.70	8.40	10.10	1.70	10.10	10.40	8.40	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 12:45 AM	218.00	3.00	0.00	0.00	0.00	11.20	11.00	8.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 1:00 AM	0.00	0.00	8.50	9.80	1.30	9.80	10.10	8.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 1:15 AM	202.00	1.40	9.40	10.30	0.90	10.30	9.90	9.40	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 1:30 AM	183.00	1.80	9.00	10.50	1.50	10.50	10.10	9.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 1:45 AM	183.00	2.40	8.00	10.20	2.10	10.90	10.00	8.80	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 2:00 AM	202.00	1.40	8.70	10.00	1.30	10.00	9.20	8.70	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 2:15 AM	193.00	1.70	9.30	10.60	1.30	10.60	9.30	9.30	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 2:30 AM	191.00	3.20	10.80	12.60	1.80	12.60	10.40	10.80	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 2:45 AM	194.00	5.10	13.70	12.40	0.00	12.40	9.60	13.70	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 3:00 AM	211.00	4.40	11.50	12.30	0.80	12.30	10.20	11.50	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 3:15 AM	198.00	5.30	12.80	10.30	0.00	10.30	9.20	12.80	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 3:30 AM	201.00	5.40	14.10	10.80	0.00	10.80	9.40	14.10	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 3:45 AM	206.00	3.00	9.00	9.70	0.70	9.70	9.20	9.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 4:00 AM	229.00	1.80	9.40	9.70	0.30	9.70	8.30	9.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 4:15 AM	197.00	3.40	7.90	10.00	2.10	9.10	7.90	8.80	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 4:30 AM	179.00	4.20	10.40	8.20	0.00	9.50	8.20	9.50	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 4:45 AM	291.00	1.50	9.50	10.20	0.70	10.20	9.20	9.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 5:00 AM	206.00	1.20	10.00	10.40	0.40	10.40	8.60	10.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 5:15 AM	187.00	0.50	12.80	13.80	1.00	13.80	10.60	12.80	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 5:30 AM	220.00	0.40	12.90	14.10	1.20	14.10	11.20	12.90	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 5:45 AM	182.00	3.10	12.80	14.00	1.20	14.00	10.60	12.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 6:00 AM	213.00	2.50	12.80	13.20	0.40	13.20	10.10	12.80	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 6:15 AM	226.00	2.20	12.80	13.00	0.20	13.00	9.80	12.80	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 6:30 AM	215.00	0.60	12.60	12.10	0.00	12.10	9.90	12.60	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 6:45 AM	201.00	1.80	11.80	11.00	0.00	11.00	9.20	11.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 7:00 AM	208.00	1.20	11.80	12.30	0.50	12.30	9.80	11.80	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 7:15 AM	220.00	1.70	11.30	11.60	0.30	11.60	9.50	11.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 7:30 AM	209.00	2.30	11.60	11.90	0.30	11.90	12.10	11.60	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 7:45 AM	206.00	4.60	11.40	11.70	0.30	11.70	12.40	11.40	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 8:00 AM	204.00	3.60	11.80	11.30	0.00	11.30	12.90	11.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 8:15 AM	197.00	4.40	11.00	10.90	0.00	10.90	12.50	11.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 8:30 AM	192.00	7.60	10.50	11.10	0.60	11.10	11.30	10.50	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 8:45 AM	200.00	6.30	9.60	9.70	0.10	9.70	10.20	9.60	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 9:00 AM	208.00	6.80	8.90	8.50	0.00	8.50	9.30	8.90	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 9:15 AM	213.00	6.50	9.10	8.40	0.00	8.40	8.60	9.10	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 9:30 AM	196.00	6.50	8.70	11.40	2.70	11.40	8.50	8.70	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 9:45 AM	206.00	6.00	8.80	7.50	0.00	7.50	7.90	8.80	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/23/13 10:00 AM	216.00	5.70	8.60	8.10	0.00	8.10	8.0									



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/23/13 5:30 PM	190.00	4.80	16.50	13.80	0.00	13.80	15.90	16.50	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 5:45 PM	208.00	5.40	16.70	14.70	0.00	14.70	15.00	16.70	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 6:00 PM	219.00	4.30	14.80	12.90	0.00	12.90	14.00	14.80	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 6:15 PM	193.00	3.50	14.30	13.40	0.00	13.40	13.90	14.30	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 6:30 PM	218.00	4.30	14.50	13.00	0.00	13.00	13.80	14.50	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 6:45 PM	218.00	3.20	15.10	13.40	0.00	13.40	13.90	15.10	12.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 7:00 PM	202.00	4.40	17.70	15.00	0.00	15.00	14.80	17.70	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 7:15 PM	204.00	4.80	20.10	17.00	0.00	17.00	15.30	20.10	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 7:30 PM	202.00	5.30	20.60	17.00	0.00	17.00	15.50	20.60	14.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 7:45 PM	187.00	4.60	20.10	15.90	0.00	15.90	15.10	20.10	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 8:00 PM	206.00	2.60	19.20	15.30	0.00	15.30	15.00	19.20	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 8:15 PM	201.00	4.50	18.80	14.30	0.00	14.30	14.50	18.80	13.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 8:30 PM	202.00	4.50	16.00	12.20	0.00	12.20	12.50	16.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 8:45 PM	201.00	4.70	14.50	10.50	0.00	10.50	10.20	14.50	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 9:00 PM	201.00	6.80	12.20	9.70	0.00	9.70	10.10	12.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 9:15 PM	195.00	6.00	11.00	9.80	0.00	9.80	9.30	11.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 9:30 PM	205.00	4.40	11.40	10.40	0.00	10.40	10.30	11.40	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 9:45 PM	221.00	3.60	12.90	10.20	0.00	10.20	10.00	12.90	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 10:00 PM	216.00	4.70	12.30	10.50	0.00	10.50	10.00	12.30	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 10:15 PM	212.00	3.80	12.50	10.50	0.00	10.50	10.00	12.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 10:30 PM	210.00	3.30	12.30	10.80	0.00	10.80	9.80	12.30	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 10:45 PM	203.00	4.40	11.90	10.70	0.00	10.70	9.70	11.90	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 11:00 PM	216.00	4.80	12.20	11.50	0.00	11.50	9.60	12.20	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 11:15 PM	207.00	4.00	12.90	11.60	0.00	11.60	9.70	12.90	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 11:30 PM	233.00	2.70	13.10	11.50	0.00	11.50	9.80	13.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/23/13 11:45 PM	205.00	3.80	14.30	12.30	0.00	12.30	9.60	14.30	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 12:00 AM	219.00	3.60	15.50	12.20	0.00	12.20	9.90	15.50	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 12:15 AM	215.00	4.00	15.90	12.80	0.00	12.80	10.40	15.90	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 12:30 AM	212.00	2.70	16.20	12.70	0.00	12.70	10.60	16.20	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 12:45 AM	199.00	4.20	16.20	13.20	0.00	13.20	10.40	16.20	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 1:00 AM	207.00	2.60	17.20	14.40	0.00	14.40	11.00	17.20	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 1:15 AM	192.00	3.80	17.30	13.90	0.00	13.90	11.00	17.30	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 1:30 AM	194.00	4.70	17.60	14.30	0.00	14.30	11.40	17.60	13.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 1:45 AM	205.00	4.70	17.50	14.70	0.00	14.70	13.50	17.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 2:00 AM	187.00	3.80	17.90	15.30	0.00	15.30	15.40	17.90	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 2:15 AM	196.00	4.00	18.70	16.50	0.00	16.50	17.50	18.70	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 2:30 AM	209.00	3.30	19.60	17.60	0.00	17.60	17.40	19.60	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 2:45 AM	218.00	4.10	20.70	18.20	0.00	18.20	17.90	20.70	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 3:00 AM	198.00	3.60	21.60	19.70	0.00	19.70	18.40	21.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 3:15 AM	189.00	3.80	21.90	20.20	0.00	20.20	18.90	21.90	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 3:30 AM	210.00	4.90	22.30	20.60	0.00	20.60	18.30	22.30	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 3:45 AM	207.00	3.90	22.80	21.00	0.00	21.00	18.40	22.80	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 4:00 AM	193.00	4.80	23.10	21.30	0.00	21.30	18.80	23.10	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 4:15 AM	211.00	4.20	23.80	22.10	0.00	22.10	18.50	23.80	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 4:30 AM	215.00	3.50	24.10	22.20	0.00	22.20	18.60	24.10	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 4:45 AM	238.00	4.70	24.00	22.40	0.00	22.40	19.00	24.00	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 5:00 AM	201.00	3.60	24.90	22.80	0.00	22.80	19.20	24.90	23.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 5:15 AM	229.00	3.50	25.10	23.20	0.00	23.20	18.90	25.10	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 5:30 AM	238.00	4.90	24.20	22.60	0.00	22.60	18.00	24.20	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 5:45 AM	238.00	4.50	24.70	22.60	0.00	22.60	17.80	24.70	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 6:00 AM	229.00	3.20	24.40	24.20	0.00	24.20	17.20	24.40	25.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 6:15 AM	235.00	3.80	28.40	29.50	1.10	29.50	21.20	28.40	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 6:30 AM	238.00	3.30	25.30	28.60	3.30	28.60	21.30	25.30	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 6:45 AM	235.00	3.10	21.30	20.20	0.00	20.20	16.10	21.30	19.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 7:00 AM	220.00	2.40	18.60	18.80	0.20	18.80	14.20	18.60	17.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 7:15 AM	223.00	3.80	16.60	16.00	0.00	16.00	13.10	16.60	14.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 7:30 AM	227.00	3.10	14.90	13.90	0.00	13.90	13.80	14.90	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 7:45 AM	216.00	4.00	14.20	13.10	0.00	13.10	11.30	14.20	13.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 8:00 AM	247.00	3.80	13.40	12.40	0.00	12.40	11.30	13.40	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 8:15 AM	235.00	4.30	12.40	11.40	0.00	11.40	10.20	12.40	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 8:30 AM	255.00	6.20	12.40	11.40	0.00	11.40	10.20	12.40	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 8:45 AM	258.00	4.00	11.80	10.50	0.00	10.50	9.80	11.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 9:00 AM	236.00	3.00	11.80	11.40	0.00	11.40	10.00	11.80	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 9:15 AM	247.00	1.40	12.40	10.50	0.00	10.50	10.50	12.40	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 9:30 AM	247.00	2.30	12.90	11.00	0.00	12.00	11.00	12.90	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 9:45 AM	276.00	1.90	12.70	11.50	0.00	11.50	11.00	12.70	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 10:00 AM	215.00	3.70	12.50	11.50	0.00	11.50	10.60	12.50	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 10:15 AM	249.00	3.50	13.40	13.10	0.00	13.10	10.70	13.40	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/24/13 10:30 AM	215.00	3.00	14.60	13.40	0.00	13.40												



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)					
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/24/13 6:15 PM	284.00	15.30	15.30	16.60	1.30	16.60	24.10	15.30	15.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 6:30 PM	254.00	5.40	15.80	18.30	2.50	18.30	25.10	15.80	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 6:45 PM	240.00	4.40	16.60	19.10	2.50	19.10	25.00	16.60	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 7:00 PM	220.00	4.10	17.40	18.10	0.70	18.10	26.00	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 7:15 PM	219.00	4.00	17.40	46.80	29.40	46.80	106.60	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 7:30 PM	194.00	5.20	17.40	8.50	0.00	8.50	9.00	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 7:45 PM	200.00	3.40	17.40	10.20	0.00	10.20	8.40	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 8:00 PM	211.00	2.80	17.40	10.40	0.00	10.40	8.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 8:15 PM	236.00	3.60	17.40	9.70	0.00	9.70	7.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 8:30 PM	225.00	3.20	17.40	10.60	0.00	10.60	8.30	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 8:45 PM	221.00	3.20	17.40	10.60	0.00	10.60	8.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 9:00 PM	210.00	3.50	17.40	11.00	0.00	11.00	8.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 9:15 PM	208.00	3.00	17.40	10.80	0.00	10.80	8.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 9:30 PM	208.00	4.60	17.40	10.70	0.00	10.70	8.30	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 9:45 PM	230.00	2.90	17.40	9.90	0.00	9.90	8.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 10:00 PM	239.00	3.10	17.40	9.50	0.00	9.50	8.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 10:15 PM	263.00	2.90	17.40	9.60	0.00	9.60	8.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 10:30 PM	232.00	2.40	17.40	9.70	0.00	9.70	8.90	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 10:45 PM	228.00	2.40	17.40	13.20	0.00	13.20	9.30	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 11:00 PM	216.00	2.00	17.40	12.70	0.00	12.70	13.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 11:15 PM	207.00	1.80	17.40	10.00	0.00	10.00	12.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 11:30 PM	224.00	2.90	17.40	9.80	0.00	9.80	10.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/24/13 11:45 PM	209.00	3.70	17.40	9.60	0.00	9.60	9.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 12:00 AM	216.00	3.10	17.40	10.10	0.00	10.10	10.10	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 12:15 AM	220.00	2.50	17.40	9.90	0.00	9.90	10.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 12:30 AM	220.00	2.40	17.40	10.10	0.00	10.10	10.10	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 12:45 AM	209.00	2.50	17.40	9.90	0.00	9.90	9.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 1:00 AM	188.00	1.40	17.40	10.10	0.00	10.10	9.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 1:15 AM	207.00	2.30	17.40	10.40	0.00	10.40	9.90	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 1:30 AM	190.00	2.60	17.40	10.50	0.00	10.50	10.10	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 1:45 AM	195.00	2.70	17.40	10.90	0.00	10.90	10.10	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 2:00 AM	182.00	4.10	17.40	11.90	0.00	11.90	10.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 2:15 AM	184.00	3.80	17.40	9.60	0.00	9.60	10.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 2:30 AM	195.00	4.60	17.40	9.40	0.00	9.40	10.90	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 2:45 AM	197.00	4.80	17.40	9.00	0.00	9.00	10.00	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 3:00 AM	202.00	3.70	17.40	9.00	0.00	9.00	10.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 3:15 AM	211.00	4.40	17.40	17.60	0.20	17.60	15.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 3:30 AM	216.00	4.20	17.40	21.90	4.50	21.90	19.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 3:45 AM	210.00	4.80	17.40	23.50	6.10	23.50	19.90	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 4:00 AM	209.00	4.30	17.40	24.40	7.00	24.40	20.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 4:15 AM	208.00	5.10	25.80	17.40	0.00	25.80	21.10	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 4:30 AM	8.00	7.60	26.10	17.40	0.00	26.10	22.10	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 4:45 AM	16.00	8.50	26.30	17.40	0.00	26.30	21.90	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 5:00 AM	1.00	1.20	21.80	16.70	0.00	26.50	21.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 5:15 AM	109.00	1.90	17.00	16.70	0.00	27.80	17.00	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 5:30 AM	146.00	1.80	17.00	16.70	0.00	27.80	17.00	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 5:45 AM	166.00	2.30	12.80	16.70	3.90	19.20	12.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 6:00 AM	163.00	1.90	14.30	16.70	2.40	19.20	14.30	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 6:15 AM	135.00	1.60	15.30	16.70	1.40	13.30	15.30	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 6:30 AM	121.00	2.70	26.80	16.70	0.00	38.70	26.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 6:45 AM	123.00	2.90	27.50	17.40	0.00	27.50	20.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 7:00 AM	80.00	1.80	24.10	17.40	0.00	24.10	26.00	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 7:15 AM	39.00	2.30	29.80	17.40	0.00	29.80	30.10	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 7:30 AM	67.00	1.00	22.20	17.40	0.00	22.20	29.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 7:45 AM	76.00	3.60	26.20	17.40	0.00	26.20	30.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 8:00 AM	82.00	3.20	25.50	16.70	0.00	27.40	25.50	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 8:15 AM	92.00	3.70	34.70	16.70	0.00	29.90	34.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 8:30 AM	128.00	3.40	43.70	16.70	0.00	23.80	43.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 8:45 AM	130.00	3.60	26.20	16.70	0.00	21.40	26.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 9:00 AM	130.00	3.30	26.60	16.70	0.00	14.30	26.60	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 9:15 AM	105.00	1.80	16.70	16.70	0.00	11.40	16.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 9:30 AM	132.00	1.70	17.40	12.90	0.00	12.90	19.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 9:45 AM	188.00	1.80	17.40	21.80	4.40	21.80	23.30	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 10:00 AM	242.00	2.40	17.40	21.70	4.30	21.70	24.00	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 10:15 AM	208.00	2.90	17.40	22.30	4.90	22.30	30.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 10:30 AM	223.00	2.10	17.40	34.80	17.40	34.80	30.80	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 10:45 AM	256.00	1.80	16.70	31.70	15.00	34.20	31.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 11:00 AM	291.00	1.30	16.70	31.70	15.00	37.80	31.70	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/13 11:15 AM	354.00	2.10	38.00	17.40	0.00	38.00	32.40	17.40	16.70							



**US Army Corps
of Engineers**

Indiana Harbor and Canal
Confined Disposal Facility
Real-Time Air Monitoring Data
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)								Naphthalene (µg/m ³)							
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4		
6/28/13 9:30 PM	318.00	1.80	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 9:45 PM	271.00	2.00	25.20	16.70	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 10:00 PM	178.00	0.70	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 10:15 PM	254.00	1.40	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 10:30 PM	347.00	2.60	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 10:45 PM	291.00	2.50	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 11:00 PM	298.00	2.00	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 11:15 PM	208.00	0.90	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 11:30 PM	270.00	2.10	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/28/13 11:45 PM	310.00	1.90	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:00 AM	333.00	1.70	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:15 AM	341.00	2.40	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:30 AM	8.00	4.10	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:45 AM	350.00	2.10	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:00 AM	9.00	7.10	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:15 AM	14.00	7.10	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:30 AM	7.00	5.90	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:45 AM	7.00	5.50	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 2:00 AM	7.00	5.40	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 2:15 AM	10.00	6.20	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 2:30 AM	8.00	4.00	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 2:45 AM	2.00	6.10	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 3:00 AM	11.00	4.10	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 3:15 AM	2.00	5.00	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 3:30 AM	343.00	3.40	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 3:45 AM	357.00	3.80	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 4:00 AM	350.00	3.60	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 4:15 AM	356.00	5.50	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 4:30 AM	0.00	4.80	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 4:45 AM	350.00	3.20	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 5:00 AM	15.00	5.20	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 5:15 AM	2.00	5.20	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 5:30 AM	10.00	5.90	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 5:45 AM	10.00	5.40	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 6:00 AM	9.00	5.90	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 6:15 AM	12.00	6.90	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 6:30 AM	0.00	6.30	16.70	25.20	8.50	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 6:45 AM	359.00	5.30	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 7:00 AM	7.00	6.20	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 7:15 AM	23.00	7.00	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 7:30 AM	15.00	6.30	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 7:45 AM	10.00	8.00	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 8:00 AM	6.00	6.50	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 8:15 AM	13.00	7.60	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 8:30 AM	7.00	5.70	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 8:45 AM	9.00	6.10	17.40	17.40	0.00	17.40	25.20	17.40	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 9:00 AM	5.00	8.10	0.00	14.00	0.00	0.00	3.80	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 9:15 AM	16.00	6.50	11.70	13.50	1.80	11.70	3.40	13.50	20.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 9:30 AM	3.00	7.40	12.80	13.60	0.80	12.80	3.80	13.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 9:45 AM	18.00	5.80	12.00	13.80	1.80	12.00	3.50	13.80	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 10:00 AM	8.00	5.50	12.90	12.30	0.00	12.90	3.60	12.30	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 10:15 AM	21.00	5.90	12.30	11.90	0.00	12.30	3.40	11.90	19.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 10:30 AM	4.00	7.80	13.10	12.80	0.00	13.10	5.50	12.80	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 10:45 AM	20.00	5.40	14.70	13.20	0.00	14.70	3.50	13.20	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 11:00 AM	42.00	5.30	13.30	11.70	0.00	13.30	3.60	11.70	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 11:15 AM	36.00	4.90	13.70	11.70	0.00	13.70	3.50	11.70	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 11:30 AM	32.00	4.90	13.50	12.80	0.00	13.50	4.70	12.80	18.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 11:45 AM	50.00	6.40	12.20	10.70	0.00	12.20	4.00	10.70	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:00 PM	24.00	6.30	14.40	19.20	4.80	14.40	6.20	19.20	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:15 PM	19.00	4.40	17.10	15.30	0.00	17.10	6.90	15.30	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:30 PM	40.00	6.50	16.10	17.70	1.60	16.10	7.70	17.70	23.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 12:45 PM	36.00	4.50	17.60	18.60	1.00	17.60	7.50	18.60	20.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:00 PM	35.00	5.70	15.40	20.00	4.60	15.40	7.30	20.00	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:15 PM	27.00	6.80	12.60	15.30	2.70	12.60	6.60	15.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:30 PM	38.00	5.30	14.90	16.20	1.30	14.90	7.00	16.20	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 1:45 PM	32.00	5.70	13.30	16.80	3.50	13.30	6.70	16.80	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 2:00 PM	23.00	6.20	14.40	14.50	0.10	14.40	6.90	14.50	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 2:15 PM	20.00	7.20	13.30	14.00	0.70	13.30	5.00	14.00	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6/29/13 2:30 PM	4.00	8.60	11.50	10.20	0.00	11.50	4.50	10.20	11.60	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
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degrees Clockwise from North	Wind Speed mph	Particulates (µg/m ³)							Naphthalene (µg/m ³)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/29/13 10:15 PM	24.00	6.70	8.00	4.90	0.00	8.00	7.90	4.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/13 10:30 PM	19.00	3.90	9.10	5.40	0.00	9.10	8.40	5.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/13 10:45 PM	6.00	5.20	10.80	5.80	0.00	10.80	12.00	5.80	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/13 11:00 PM	11.00	6.80	13.90	6.30	0.00	13.90	11.80	6.30	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/13 11:15 PM	7.00	5.10	13.00	6.50	0.00	13.00	11.80	6.50	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/13 11:30 PM	19.00	7.80	12.60	6.80	0.00	12.60	11.70	6.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/13 11:45 PM	8.00	6.90	10.60	6.20	0.00	10.60	10.80	6.20	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:00 AM	10.00	5.70	10.70	6.40	0.00	10.70	10.70	6.40	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:15 AM	2.00	5.10	10.30	6.40	0.00	10.30	9.10	6.40	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:30 AM	15.00	5.40	9.70	6.10	0.00	9.70	9.70	6.10	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:45 AM	31.00	6.20	11.00	6.10	0.00	11.00	12.80	6.10	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:00 AM	34.00	8.10	11.50	6.10	0.00	11.50	11.70	6.10	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:15 AM	30.00	7.30	13.80	6.90	0.00	13.80	11.70	6.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:30 AM	35.00	5.30	13.90	6.70	0.00	13.90	11.60	6.70	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:45 AM	39.00	6.10	17.00	7.60	0.00	17.00	13.60	7.60	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:00 AM	37.00	6.50	13.00	9.10	0.00	13.00	11.50	9.10	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:15 AM	54.00	7.80	13.70	12.90	0.00	13.70	11.70	12.90	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:30 AM	38.00	7.10	14.30	12.30	0.00	14.30	14.50	12.30	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:45 AM	36.00	7.60	14.40	12.20	0.00	14.40	12.90	12.20	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 3:00 AM	35.00	6.00	15.20	12.10	0.00	15.20	13.50	12.10	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 3:15 AM	47.00	8.60	14.70	12.30	0.00	14.70	13.90	12.30	17.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 3:30 AM	29.00	7.10	15.00	12.60	0.00	15.00	15.00	12.60	18.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 3:45 AM	34.00	6.10	14.60	12.80	0.00	14.60	14.60	12.80	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 4:00 AM	37.00	7.90	15.60	13.90	0.00	15.60	17.00	13.90	24.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 4:15 AM	40.00	8.50	15.00	13.30	0.00	15.00	16.70	13.30	30.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 4:30 AM	37.00	7.60	15.10	13.60	0.00	15.10	16.30	13.60	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 4:45 AM	33.00	7.70	15.20	13.40	0.00	15.20	16.60	13.40	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 5:00 AM	37.00	7.60	13.30	11.70	0.00	13.30	14.10	11.70	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 5:15 AM	31.00	7.40	11.90	10.30	0.00	11.90	19.10	10.30	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 5:30 AM	50.00	7.40	15.50	12.80	0.00	15.50	19.40	12.80	24.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 5:45 AM	21.00	6.00	11.70	9.50	0.00	11.70	22.10	9.50	21.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 6:00 AM	48.00	5.80	11.80	10.90	0.00	11.80	17.20	10.90	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 6:15 AM	32.00	6.80	12.60	11.60	0.00	12.60	20.70	11.60	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 6:30 AM	48.00	7.70	12.40	10.90	0.00	12.40	14.90	10.90	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 6:45 AM	40.00	7.20	12.20	10.70	0.00	12.20	18.20	10.70	23.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 7:00 AM	25.00	7.10	12.30	10.30	0.00	12.30	18.20	10.30	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 7:15 AM	49.00	5.90	12.90	11.50	0.00	12.90	19.00	11.50	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 7:30 AM	44.00	8.50	12.50	11.20	0.00	12.50	19.40	11.20	19.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 7:45 AM	21.00	8.20	12.50	10.90	0.00	12.50	19.80	10.90	18.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 8:00 AM	31.00	7.90	11.60	10.40	0.00	11.60	17.80	10.40	17.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 8:15 AM	24.00	9.30	11.60	13.10	1.50	11.60	16.40	13.10	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 8:30 AM	22.00	8.30	11.30	12.10	0.80	11.30	15.40	12.10	15.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 8:45 AM	32.00	9.30	12.30	12.20	0.00	12.30	14.30	12.20	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 9:00 AM	32.00	9.40	14.40	10.30	0.00	14.40	15.70	10.30	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 9:15 AM	31.00	8.10	16.50	11.80	0.00	16.50	16.20	11.80	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 9:30 AM	33.00	9.50	17.40	11.80	0.00	17.40	19.80	11.80	17.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 9:45 AM	40.00	9.30	17.90	14.30	0.00	17.90	28.10	14.30	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 10:00 AM	21.00	7.20	18.60	17.30	0.00	18.60	28.50	17.30	24.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 10:15 AM	19.00	9.50	20.70	21.90	1.20	20.70	30.00	21.90	26.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 10:30 AM	24.00	9.80	18.90	17.00	0.00	18.90	35.70	17.00	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 10:45 AM	13.00	8.70	18.20	17.50	0.00	18.20	41.90	17.50	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 11:00 AM	15.00	10.10	18.40	18.70	0.30	18.40	48.80	18.70	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 11:15 AM	13.00	8.90	19.40	19.30	0.00	19.40	41.00	19.30	27.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 11:30 AM	13.00	9.10	19.40	19.60	0.20	19.40	41.00	19.60	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 11:45 AM	13.00	8.40	20.60	20.70	0.10	20.60	41.50	20.70	28.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:00 PM	15.00	7.30	19.50	23.00	3.50	19.50	37.50	23.00	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:15 PM	18.00	8.30	20.20	24.60	4.40	20.20	36.50	24.60	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:30 PM	19.00	7.50	20.30	25.00	4.70	20.30	34.70	25.00	25.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 12:45 PM	17.00	7.70	20.50	26.00	5.50	20.50	34.80	26.00	26.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:00 PM	15.00	9.80	19.60	25.80	6.20	19.60	33.00	25.80	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:15 PM	21.00	10.00	18.90	25.40	6.50	18.90	32.00	25.40	23.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:30 PM	9.00	10.20	18.20	23.30	5.10	18.20	28.40	23.30	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 1:45 PM	17.00	9.30	18.60	22.60	4.00	18.60	26.80	22.60	21.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:00 PM	15.00	8.10	18.00	21.90	3.90	18.00	25.90	21.90	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:15 PM	22.00	8.60	18.20	21.60	3.40	18.20	25.70	21.60	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:30 PM	22.00	7.60	17.80	21.50	3.70	17.80	24.80	21.50	21.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 2:45 PM	29.00	10.10	18.20	22.00	3.80	18.20	24.30	22.00	21.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 3:00 PM	38.00	9.80	21.20	21.90	0.70	21.20	28.20	21.90	20.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 3:15 PM	27.00	8.00	19.00	20.70	1.70	19.00	24.90	20.70	20.40	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
6-1-13 to 6-30-13

Reading Time (EST)	Wind Direction Degree Clockwise from North	Wind Speed mph	Particulates ($\mu\text{g}/\text{m}^3$)							Naphthalene ($\mu\text{g}/\text{m}^3$)						
			Upwind	Downwind	CDF Contribution	M1	M2	M3	M4	Upwind	Downwind	CDF Contribution	M1	M2	M3	M4
6/30/13 11:00 PM	0.00	6.20	7.40	7.10	0.00	7.40	14.90	7.10	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 11:15 PM	14.00	5.80	8.10	7.40	0.00	8.10	16.00	7.40	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 11:30 PM	9.00	5.50	8.60	8.00	0.00	8.60	17.00	8.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/13 11:45 PM	10.00	5.30	8.70	16.70	8.00	8.00	16.70	7.70	8.70	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: 6/20/2013 3:15 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:

- | | |
|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Loss of Power |
| <input type="checkbox"/> | Loss of Radio Communication |
| <input type="checkbox"/> | Out of Calibration |
| <input type="checkbox"/> | UV Alignment |
| <input type="checkbox"/> | Blockage in Air Tube |
| <input type="checkbox"/> | Air Quality |
| <input checked="" type="checkbox"/> | Other: Site Conditions |

3. Corrective Actions taken? (Yes or No)

4. Dredging suspended? (Yes or No)

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

Description of Action Taken:

A) After check the air monitor unit there were no problems found. A site contractor was working around the air monitoring units using pay loaders to move debris. It is believed that the exhausts from the pay loader were setting off the air alarm. The contractor was notified of the problem who worked with the loader operators to keep the equipment exhaust pointing away from in front of the air monitoring unit.

