

US EPA ARCHIVE DOCUMENT



# Air Sampling Report

Location Name/ID	GI08
City, State	Grand Isle, Louisiana
Latitude	29.23708
Longitude	-89.98573

SCREENING LEVELS FOR ONE YEAR AVERAGE EXPOSURE TO VOLATILE ORGANIC COMPOUNDS (VOCs) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms/cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Toluene: 5000 µg/m3 and below Ethylbenzene: 3000 µg/m3 and below Xylene: 3000 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Toluene: Above 5000 µg/m3 Ethylbenzene: Above 3000 µg/m3 Xylene: Above 3000 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

## Volatile Organic Compounds Chemical Results in µg/m3

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
09/16/2010	.56	.76	.76	.66
09/10/2010	.53	.72	.72	.62
09/06/2010	.51	.7	.7	.61
09/03/2010	.63	.74	.74	.7
08/31/2010	.55	.75	.75	.65
08/28/2010	.6	.81	.81	.7
08/25/2010	.74	.74	.74	.98
08/22/2010	1.1	1.5	1.5	1.3

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/21/2010	1.1	1.5	1.5	1.3
08/20/2010	.56	.76	.76	.68
08/19/2010	.86	1.2	1.2	1
08/18/2010	.57	.78	.78	.67
08/17/2010	.56	.73	.73	.63
08/16/2010	.71	.97	.97	.84
08/15/2010	.75	1	1	.89
08/14/2010	.46	.62	.62	2
08/13/2010	.54	.74	.74	.64
08/12/2010	.54	.73	.73	.63
08/11/2010	.79	.73	.73	.63
08/10/2010	.54	.73	.73	.73
08/09/2010	.54	.73	.73	.63
08/08/2010	.55	.74	.74	.64
08/07/2010	.64	.87	.87	.76
08/06/2010	.52	.71	.71	.65
08/05/2010	.48	.66	.66	.57
08/04/2010	.56	.76	.76	.66
08/03/2010	.52	.7	.7	.61

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/02/2010	1	.83	.83	1.4
08/01/2010	.69	.72	.72	.82
07/31/2010	.58	.78	.78	.68
07/30/2010	.55	.74	.74	.64
07/29/2010	.55	.74	.74	.64
07/28/2010	.55	.74	.74	.64
07/27/2010	.56	.76	.76	.66
07/24/2010	1	.87	.87	.76
07/23/2010	.51	.7	.7	.61
07/22/2010	.54	.76	.76	.64
07/21/2010	.56	.76	.76	.66
07/20/2010	.57	.78	.78	.67
07/19/2010	.68	.92	.92	.8
07/18/2010	.6	.81	.81	.7
07/17/2010	.52	.71	.71	.65
07/16/2010	.67	.91	.91	.79
07/15/2010	.89	1.2	1.2	1
07/14/2010	.54	.73	.73	.63
07/13/2010	.52	.71	.71	.62

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/12/2010	.6	.81	.81	.7
07/11/2010	.74	.7	.7	1.1
07/10/2010	.57	.78	.78	.67
07/09/2010	.61	.83	.83	.72
07/08/2010	.55	.74	.74	.64
07/07/2010	.56	.76	.76	.66
07/06/2010	.54	.73	.73	.63
07/05/2010	.52	.71	.71	.62
07/04/2010	.8	1.1	1.1	.94
07/03/2010	.57	.78	.78	.67
07/02/2010	.57	.77	.77	.67
07/01/2010	.88	1.2	1.2	1
06/30/2010	2	2.7	2.7	2.3
06/29/2010	.61	.83	.83	.72
06/28/2010	1.1	.87	.87	.76
06/27/2010	.92	1.2	1.2	1.1
06/26/2010	.59333333	.80333333	.80333333	.7
06/25/2010	.52	.71	.71	.62
06/24/2010	.75	1	1	.89





U.S. ENVIRONMENTAL PROTECTION AGENCY

# Air Sampling Report

Location Name/ID	GI08
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Latitude	29.23708
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## Semi Volatile Organic Compounds Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
09/16/2010	.035	.035	.035	.035	.035	.035	.035	.0039
09/10/2010	.035	.035	.035	.035	.035	.035	.035	.0067
09/06/2010	.033	.033	.033	.033	.033	.033	.033	.0051
09/03/2010	.034	.034	.034	.034	.034	.034	.034	.058
08/31/2010	.034	.034	.034	.034	.034	.034	.034	.0049
08/28/2010	.037	.037	.037	.037	.037	.037	.037	.037
08/25/2010	.034	.034	.034	.034	.034	.034	.034	.14
08/22/2010	.033	.033	.033	.033	.033	.033	.033	.053

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/21/2010	.034	.034	.034	.034	.034	.034	.034	.032
08/20/2010	.032	.032	.032	.032	.032	.032	.032	.031
08/19/2010	.033	.033	.033	.033	.033	.033	.033	.016
08/18/2010	.034	.034	.034	.034	.034	.034	.034	.0053
08/17/2010	.033	.033	.033	.033	.033	.033	.033	.064
08/16/2010	.034	.034	.034	.034	.034	.034	.034	.11
08/15/2010	.035	.035	.035	.035	.035	.035	.035	.036
08/13/2010	.034	.034	.034	.034	.034	.034	.034	.075
08/12/2010	.033	.033	.033	.033	.033	.033	.033	.11
08/11/2010	.033	.033	.033	.033	.033	.033	.033	.084
08/10/2010	.033	.033	.033	.033	.033	.033	.033	.19
08/09/2010	.035	.035	.035	.035	.035	.035	.035	.08
08/08/2010	.035	.035	.035	.035	.035	.035	.035	.084
08/07/2010	.035	.035	.035	.035	.035	.035	.035	.089
08/04/2010	.035	.035	.035	.035	.035	.035	.035	.069
08/03/2010	.034	.034	.034	.034	.034	.034	.034	.078
08/02/2010	.036	.036	.036	.036	.036	.036	.036	.11
07/31/2010	.035	.035	.035	.035	.035	.035	.035	.15
07/30/2010	.035	.035	.035	.035	.035	.035	.035	.098

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/29/2010	.035	.035	.035	.035	.035	.035	.035	.057
07/28/2010	.034	.034	.034	.034	.034	.034	.034	.023
07/27/2010	.034	.034	.034	.034	.034	.034	.034	.012
07/24/2010	.037	.037	.037	.037	.037	.037	.037	.16
07/23/2010	.033	.033	.033	.033	.033	.033	.033	.0052
07/22/2010	.037	.037	.037	.037	.037	.037	.037	.0061
07/21/2010	.037	.037	.037	.037	.037	.037	.037	.0055
07/20/2010	.036	.036	.036	.036	.036	.036	.036	.0044
07/19/2010	.034	.034	.034	.034	.034	.034	.034	.0045
07/18/2010	.033	.033	.033	.033	.033	.033	.033	.0025
07/17/2010	.036	.036	.036	.036	.036	.036	.036	.012
07/16/2010	.035	.035	.035	.035	.035	.035	.035	.053
07/15/2010	.034	.034	.034	.034	.034	.034	.034	.044
07/14/2010	.036	.036	.036	.036	.036	.036	.036	.037
07/13/2010	.035	.035	.035	.035	.035	.035	.035	.013
07/12/2010	.035	.035	.035	.035	.035	.035	.035	.023





# Air Sampling Report

Location Name/ID	GI08
City, State	Grand Isle, Louisiana
Latitude	29.23708
Longitude	-89.98573

SCREENING LEVELS FOR ONE-YEAR AVERAGE EXPOSURE TO POLYCYCLIC AROMATIC COMPOUNDS (PAHS) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms /cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Benzo(a)pyrene: .64 µg/m3 and below ** Benzo(a)anthracene: 6.4 µg/m3 and below Benzo(b) fluoranthene: 6.4 µg/m3 and below Benzo(k) fluoranthene: 6.4 µg/m3 and below Chrysene: 64 µg/m3 and below Dibenz(a,h) anthracene: .58 µg/m3 and below Indeno(1,2,3-c,d) pyrene: 6.4 µg/m3 and below Naphthalene: 30 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Benzo(a)pyrene: Above .64 µg/m3 ** Benzo(a)anthracene: Above 6.4 µg/m3 Benzo(b) fluoranthene: Above 6.4 µg/m3 Benzo(k) fluoranthene: Above 6.4 µg/m3 Chrysene: Above 64 µg/m3 Dibenz(a,h) anthracene: Above .58 µg/m3 Indeno(1,2,3-c,d) pyrene: Above 6.4 µg/m3 Naphthalene: Above 30 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.

If air pollution reaches levels requiring immediate action, you will be notified via local news media.

## Polycyclic Aromatic Hydrocarbons Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
09/16/2010	.035	.035	.035	.035	.035	.035	.035	.0039
09/10/2010	.035	.035	.035	.035	.035	.035	.035	.0067
09/06/2010	.033	.033	.033	.033	.033	.033	.033	.0051
09/03/2010	.034	.034	.034	.034	.034	.034	.034	.058
08/31/2010	.034	.034	.034	.034	.034	.034	.034	.0049
08/28/2010	.037	.037	.037	.037	.037	.037	.037	.037

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
08/25/2010	.034	.034	.034	.034	.034	.034	.034	.14
08/22/2010	.033	.033	.033	.033	.033	.033	.033	.053
08/21/2010	.034	.034	.034	.034	.034	.034	.034	.032
08/20/2010	.032	.032	.032	.032	.032	.032	.032	.031
08/19/2010	.033	.033	.033	.033	.033	.033	.033	.016
08/18/2010	.034	.034	.034	.034	.034	.034	.034	.0053
08/17/2010	.033	.033	.033	.033	.033	.033	.033	.064
08/16/2010	.034	.034	.034	.034	.034	.034	.034	.11
08/15/2010	.035	.035	.035	.035	.035	.035	.035	.036
08/13/2010	.034	.034	.034	.034	.034	.034	.034	.075
08/12/2010	.033	.033	.033	.033	.033	.033	.033	.11
08/11/2010	.033	.033	.033	.033	.033	.033	.033	.084
08/10/2010	.033	.033	.033	.033	.033	.033	.033	.19
08/09/2010	.035	.035	.035	.035	.035	.035	.035	.08
08/08/2010	.035	.035	.035	.035	.035	.035	.035	.084
08/07/2010	.035	.035	.035	.035	.035	.035	.035	.089
08/04/2010	.035	.035	.035	.035	.035	.035	.035	.069
08/03/2010	.034	.034	.034	.034	.034	.034	.034	.078
08/02/2010	.036	.036	.036	.036	.036	.036	.036	.11

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/31/2010	.035	.035	.035	.035	.035	.035	.035	.15
07/30/2010	.035	.035	.035	.035	.035	.035	.035	.098
07/29/2010	.035	.035	.035	.035	.035	.035	.035	.057
07/28/2010	.034	.034	.034	.034	.034	.034	.034	.023
07/27/2010	.034	.034	.034	.034	.034	.034	.034	.012
07/24/2010	.037	.037	.037	.037	.037	.037	.037	.16
07/23/2010	.033	.033	.033	.033	.033	.033	.033	.0052
07/22/2010	.037	.037	.037	.037	.037	.037	.037	.0061
07/21/2010	.037	.037	.037	.037	.037	.037	.037	.0055
07/20/2010	.036	.036	.036	.036	.036	.036	.036	.0044
07/19/2010	.034	.034	.034	.034	.034	.034	.034	.0045
07/18/2010	.033	.033	.033	.033	.033	.033	.033	.0025
07/17/2010	.036	.036	.036	.036	.036	.036	.036	.012
07/16/2010	.035	.035	.035	.035	.035	.035	.035	.053
07/15/2010	.034	.034	.034	.034	.034	.034	.034	.044
07/14/2010	.036	.036	.036	.036	.036	.036	.036	.037
07/13/2010	.035	.035	.035	.035	.035	.035	.035	.013
07/12/2010	.035	.035	.035	.035	.035	.035	.035	.023





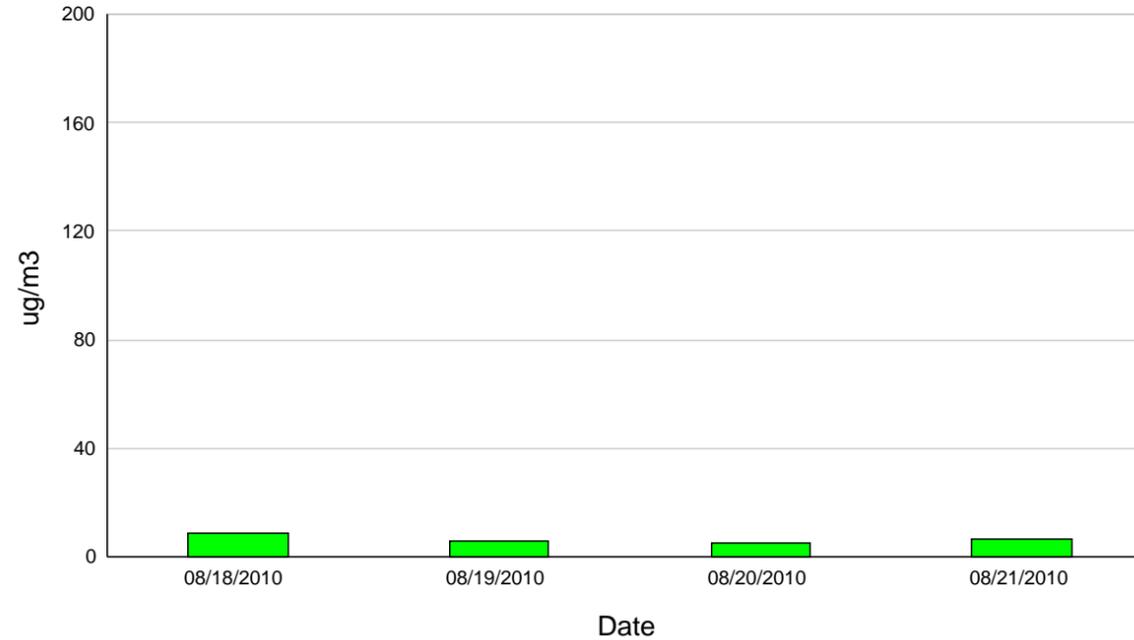
# Air Sampling Report

Location Name/ID	GI08
City, State	Grand Isle, Louisiana
Latitude	29.23708
Longitude	-89.98573

Localized Monitoring PM2.5 Daily Averages	Index Value	Air Quality Index Levels of Health Concern	Cautionary Statements
0-15.4	0 to 50	Good	None
15.5-35.4	51 to 100	Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
35.5-65.4	101 to 150	Unhealthy for Sensitive Groups	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion.
65.5-150.4	151 to 200	Unhealthy	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion.
150.5-250.4	201 to 300	Very Unhealthy	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
250.5-500.4	301 to 500	Hazardous	People with heart or lung disease, older adults, and children should remain indoors and keep activity levels low. Everyone else should avoid all physical activity outdoors.

## Particulates Chemical Results in µg/m<sup>3</sup>

DATE RANGE	Particulate Matter 2.5 microns
08/21/2010	6.34783
08/20/2010	5.28989
08/19/2010	5.77
08/18/2010	8.46
08/17/2010	9.82106
08/16/2010	7.61744



DATE RANGE	Particulate Matter 2.5 microns
08/15/2010	11.7573
08/14/2010	12.8763
08/13/2010	12.3765
08/12/2010	6.39097744
08/11/2010	14.6935
08/10/2010	9.57137
08/09/2010	10.0642
08/08/2010	11.6105
08/07/2010	9.21776
08/06/2010	11.1527
08/05/2010	13.24697033
08/04/2010	14
08/03/2010	23.3458
08/02/2010	24.0343
08/01/2010	19.6837
07/31/2010	18.3375
07/30/2010	17.437
07/29/2010	11.99660873
07/28/2010	11.4024

DATE RANGE	Particulate Matter 2.5 microns
07/27/2010	5.08831
07/24/2010	28.175
07/23/2010	31.3072
07/22/2010	45.93341761
07/21/2010	19.5661
07/20/2010	15
07/19/2010	16.04
07/18/2010	11.47
07/17/2010	8.61
07/16/2010	16.48
07/15/2010	12.99
07/14/2010	24.6748
07/13/2010	28.6132
07/12/2010	19.64
07/11/2010	8.19
07/10/2010	9.29
07/09/2010	13.78
07/08/2010	15.87
07/07/2010	13.28

DATE RANGE	Particulate Matter 2.5 microns
07/06/2010	10.4778
07/05/2010	9.46746
07/04/2010	9.96276
07/03/2010	12.4844
07/02/2010	11.5219
07/01/2010	5.95
06/30/2010	27.64
06/29/2010	21.45
06/28/2010	14.4426
06/27/2010	12.802
06/26/2010	10.9629
06/25/2010	13.1953
06/24/2010	6.86