

US EPA ARCHIVE DOCUMENT



Air Sampling Report

Location Name/ID	C03
City, State	St Bernard, Louisiana
Latitude	29.82209
Longitude	-89.60862

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
05/11/2010	.88	.73	.73	2.4
05/10/2010	.58333333	.70333333	.70333333	1.24
05/09/2010	.52	.71	.71	.785
05/08/2010	.243	.23333333	.23333333	.397
05/07/2010	.195	0	.128	.983
05/06/2010	.32766667	0	.124	1.135
05/05/2010	.504	.48	.48	1.05
05/04/2010	.36	.44666667	.44666667	.77666667

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
05/03/2010	.68333333	.93666667	.93666667	.81
05/02/2010	2.8	3.9	3.9	8.3



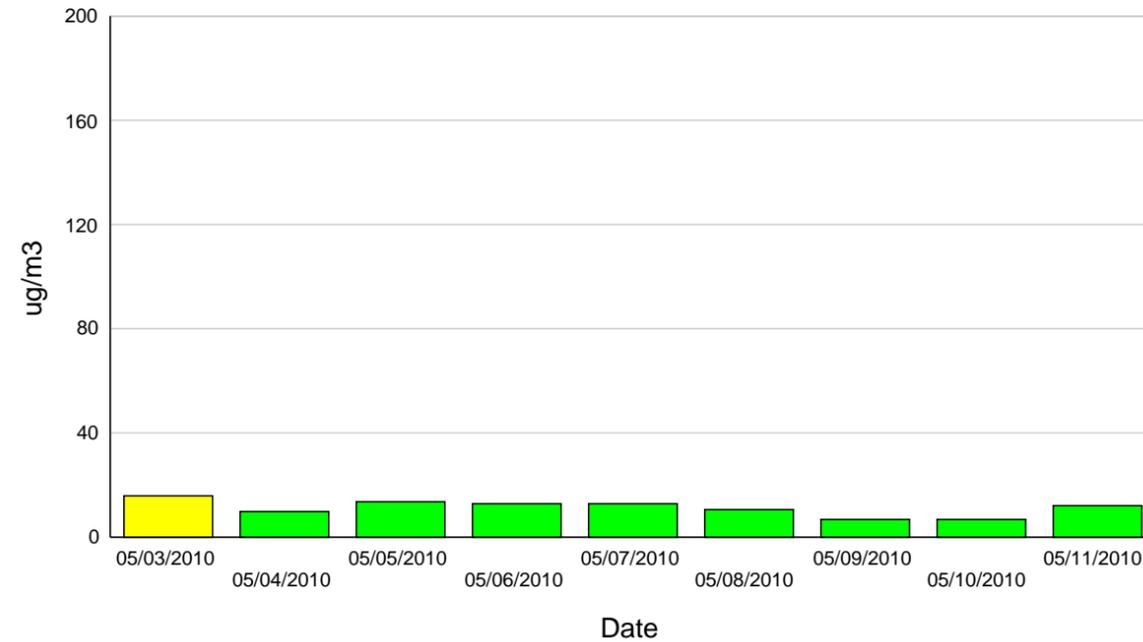
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Localized Monitoring PM2.5 Daily Averages	Index Value	Air Quality Index Levels of Health Concern	Cautionary Statements
0-15.4	0 to 50	Good	None
15.5-35.4	51 to 100	Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
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/m³

DATE RANGE	Particulate Matter 2.5 microns
05/11/2010	12.41
05/10/2010	6.88
05/09/2010	6.77
05/08/2010	10.76
05/07/2010	12.97
05/06/2010	12.77



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DATE RANGE	Particulate Matter 2.5 microns
05/05/2010	13.36
05/04/2010	9.91
05/03/2010	16.08