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State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

August 15, 2012

John Boudreaux, Director
Office of Homeland Security and Emergency Preparedness
P.O. Box 520
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Napoleonville, LA 70390

SUBJECT: Summary of Air Monitoring and Radiation Survey Efforts at the Bayou Corne Sinkhole

On August 9, 2012 at approximately 11:30am Emergency Responder Bryan Riche and Karen Price conducted a radiation area survey and air monitoring of the area designated the Bayou Corne Sinkhole. Radiation readings were taken in Counts-per-Minute (CPM) and in Micro Roentgen per hour (μR/hr). Atmospheric readings were taken for % Lower Explosive Level (% LEL), Hydrogen Sulfide (H_2S) Carbon Monoxide (CO), and % Oxygen (% O_2).

Results of the radiation survey confirmed no radiation levels above background. The individual constituent air monitoring was non-detectable or in the case of CO up to 1 part per million. Oxygen levels were normal. The monitoring logs for this effort are attached.

On August 10, 2012 at approximately 4:45pm Emergency Responder Bryan Riche and St. Charles Parish Emergency Responder Jim Polk conducted a second radiation area survey and air monitoring. Results of the radiation survey and air monitoring again confirmed no radiation levels above background and non-detectable for the individual air constituents monitored. The monitoring log for this effort is attached.

If you have any questions regarding these monitoring events please let me know.

Bryan Riche, Supervisor
Louisiana Department of Environmental Quality
Assessment Division/Emergency Response

INCIDENT LOG NUMBER 140 769

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONITORING REPORT FORM

FACILITY NAME: Bayou Corne
DATE: 8/9/2012
INCIDENT DESCRIPTION: Sinkhole
INCIDENT LOCATION: Assumption Parish

EQUIPMENT USED: 1 Ludlum Mod 13; 2 Multi Rae; 3; 4; 5
SERIAL NUMBER: 1 21997; 2; 3; 4; 5
FIELD MONITORING TEAM: 1 Bryan Richie; 2 Kathren Price; 3; 4; 5

NOTE: RECORD BACKGROUND READINGS IN TABLE BELOW FOR EACH UNIT PARAMETER PRIOR TO INITIATING MONITORING ACTIVITIES, WHEN EQUIPMENT CHANGE OCCURS OR WHEN THERE IS A SIGNIFICANT CHANGE IN BACKGROUND READINGS DUE TO HUMIDITY, BATTERY STRENGTH OR OTHER CONDITIONS.

TIME 24:00	LOCATION DESCRIPTION OF EACH MONITORING POINT (AND GPS IF AVAILABLE)	PARAMETER 1 CPM UNITS	PARAMETER 2 μR/hr. UNITS	PARAMETER 3 LEL (%) UNITS	PARAMETER 4 H_2S ppm UNITS	PARAMETER 5 CO ppm UNITS	OBSERVATIONS DURING MONITORING O_2 (%)	INITIALS
11:42	#1 30° 0' 39" N 91° 8' 40 W	100	0.03	0	0	1	21.4 (W)	BR.
11:47	#2 29°58' 54" N 91° 6' 21" W	50	0.03	0	0	1	21.4 (W)	BR.
11:52	#3 30° 0' 36.5 N 91° 8' 33" W	100	0.03	0	0	0	22.1 (W)	BR
11:56	#4 30° 0' 36" N 91° 8' 35 W	50	0.02	0	0	1	22.3 (W)	BR.
11:59	#5 30° 0' 37 N 91° 8' 35 W	40	0.01	0	0	0	22.3 (S)	

N/A – Not Applicable UNITS: PPM – Parts Per Million PPB – Parts Per Billion

REMARKS/SUMMARY:

Background - CPM - 100 .03 - μR/hr.
- LEL - 0; H_2S - 0; CO - 0; O_2 - 22.1%
(W) = Water
(S) = Soil

08/15/12

INCIDENT LOG NUMBER 140769

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONITORING REPORT FORM

FACILITY NAME: Bayou Corne

DATE: 8/10/2012

INCIDENT DESCRIPTION: Sink hole

INCIDENT LOCATION: Assumption Parish

EQUIPMENT USED:	SERIAL NUMBER:	FIELD MONITORING TEAM:
1 Ludlum 14C	119837	1 Bryan Riche
2 Ludlum 19	70539	2 Jim Polk
3 Multi Rae		3
4		4
5		5

NOTE: RECORD BACKGROUND READINGS IN TABLE BELOW FOR EACH UNIT PARAMETER PRIOR TO INITIATING MONITORING ACTIVITIES, WHEN EQUIPMENT CHANGE OCCURS OR WHEN THERE IS A SIGNIFICANT CHANGE IN BACKGROUND READINGS DUE TO HUMIDITY, BATTERY STRENGTH OR OTHER CONDITIONS.

TIME 24:00	LOCATION DESCRIPTION OF EACH MONITORING POINT (AND GPS IF AVAILABLE)	PARAMETER 1 CPM UNITS	PARAMETER 2 uR/hr. UNITS	PARAMETER 3 LeL(%) UNITS	PARAMETER 4 H_2S (ppm) UNITS	PARAMETER 5 CO ppm) UNITS	OBSERVATIONS DURING MONITORING O_2(%)	INITIALS
4:50	#1 North	60	3	0	0	0	21.4	
4:52	#2 East	45	3	0	0	0	21.4	
4:57	#3 South	45	2	0	0	0	21.4	
5:00	#4 West	60	3	0	0	0	21.3	

N/A – Not Applicable UNITS: PPM – Parts Per Million PPB – Parts Per Billion

REMARKS/SUMMARY:

CPM = 80 } Background 4:00pm
uR/hr = 5 } Dock

Background 4:47pm } 60 = CPM
pipeline } 4 = uR/hr.

08/15/12