

BENZENE AREA 2-12-88

			A	B	C	T	B	T/B	
NAME	MASTER NUMBER	BADGE NUMBER	TIME MINUTE	MG	M.W	B*24450	C*AX.0473	PPM	
AREA	N/A	1K-0254	480	.0025	78.11	61.13	1848.40	0.03	
AREA	N/A	1K-0140	480	.0030	78.11	73.35	1848.40	0.04	
AREA	N/A	1K-0540	480	.0231	78.11	564.80	1848.40	0.31	
AREA	N/A	1M-0529	480	.0033	78.11	80.69	1848.40	0.04	
AREA	N/A	1K-0291	480		78.11			-	-

DO A 115601
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1,3 BUTADIENE2-12-88

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			A	B	C	T	B	T/B	
NAME	MASTER NUMBER	BADGE NUMBER	TIME MINUTE	MG	MW	B*24450	C*AX*.0475	PPM	
AREA	N/A	1K-0254	480	.0022	54.0	53.79	1277.86	0.04	
AREA	N/A	1K-0140	480	.0028	54.0	68.46	1277.86	0.05	
AREA	N/A	1K-0540	480	.0038	54.0	92.91	1277.86	0.07	
AREA	N/A	1M-0529	480	.0008	54.0	19.56	1277.86	0.02	
AREA	N/A	1K-0271	480						

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2/15/88
PERSONNEL

DO A 115603
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2-15-88
7/8

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1,3 BUTADIENE 2-15-88

			A	B	C	T	B	T/B	
NAME	MASTER NUMBER	BADGE NUMBER	Time MINUTE	MG	M.W	B*24450	C*AX.0493	PPM	
JOSEPH JONES	50125	1K-0075	180	.0008	54.0	19.56	179.20	0.04	
RANDY TULLIER	13564	1K-0190	180	.0008	54.0	19.56	179.20	0.04	
SHERMAN DARBONNE	12202	1K-0098	180	.0008	54.0	19.56	179.20	0.04	
SAM GRIFFITH	28-2497	1K-0468	180	.0008	54.0	19.56	179.20	0.04	

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BENZENE/TOLUENE BADGES

2/16/88
PERSONNEL

DO A 115606
CONFIDENTIAL

2-16-88
T/B

DO A 115607
CONFIDENTIAL

2-16-88

DO A 115608
CONFIDENTIAL

3/4/88
AREA

[illegible]

3-A-88

DO A 115610
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DOW CHEMICAL U.S.A.
LOUISIANA DIVISION

ENVIRONMENTAL CONTROL

REPORT OF ANALYSIS

REFERENCE NO. 779

DATE THIS REPORT 2/12/88

CHARGE _____

DEPT LHC 2

DATE SAMPLES COLLECTED 1/29/88

SAMPLES Potential Exposure of Personnel Benzene, Toluene, Xylene, & 1,3 Butadiene

ID	Concentration (Total milligrams)				REMARKS
	BZ	Toluene	Xylene	1,3 Butadiene	
0741	.0032	MDL	ND	.0011	
0534	MDL	MDL	ND	.0009	
0547	.0022	MDL	ND	MDL	
0822	MDL	MDL	ND	.0010	
0646	.0021	.0020	ND	.0012	
0633	MDL	MDL	ND	.0012	
MW	78.11	92.15	106.17	54.0	DETECTION X 2 <u>Ex: MW .00037</u>
BLD	.00057	.00086	.004	.00044	<u>X 2</u> <u>.00174</u>
mg/ NL of AIR	.00174	.00172	.008	.00088	

METHOD CS₂ Extraction
GC-FID

MLS SOLVENT 2

LIMIT OF DETERMINATION BZ .00087 mg/ml

WEIGHT/VOLUME: Toluene .00086 mg/ml
1,3 Butadiene .00044 mg/ml
Xylene .004 mg/ml

*BLD - BELOW LIMIT OF DETERMINATION
ND - NONE detected
VALUES REPORTED HAVE BEEN CORRECTED FOR INTERFERENCES

MDL - Method detection Limit

REMARKS Refer to data book 0101 P.P. 128-130 for calculations
and calibration data.

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BY Louise J. Almo

SIGNED Terry Wilk

BENZENE

1-29-88

			A	B	C	T	B	T/B	
NAME	MASTER NUMBER	BADGE NUMBER	TIME MINUTE	MG	MW	B*24450	C*AX.0493	PPM	
CHUCK ALLEN	434241	1M0646	510	.0021	78.11	51.35	1963.92	.026	
JOE MESSINA	434319	1M0741	460	.0032	78.11	78.24	1771.38	.044	
DAVID BODENAY	433483	1M0534	470	.0017	78.11	42.54	1809.89	.024	
DICKIE BOURGEOIS	433844	1M0822	470	.0017	78.11	42.54	1809.89	.024	
TOM DUFOUR	430829	1M0633	475	.0017	78.11	42.54	1829.14	.023	
KIRK YONGE	433926	1M0547	400	.0022	78.11	53.79	1540.33	.035	

1-29-88

1,3 BUTADIENE

A B C T B T/B

NAME	MASTER NUMBER	BADGE NUMBER	TIME MINUTE	MG	MW	B*24450	C*AX.0473	PPM	
CHUCK ALLEN	434241	1M0646	570	.0011	54.0	26.90	1357.72	.020	
JOE MESSINA	434319	1M0741	460	.0009	54.0	22.00	1224.61	.018	
DAVID BADEAUX	433483	1M0534	470	.00088	54.0	21.52	1251.23	.017	
DICKIE BOURGEOIS	433844	1M0822	470	.0010	54.0	24.45	1251.23	.020	
TOM DUFOUR	430829	1M0633	475	.0012	54.0	29.34	1264.55	.023	
KIRK YONGE	433926	1M0547	400	.0012	54.0	29.34	1064.88	.028	

Toluene

1-24-88

NAME	MASTER NUMBER	BADGE NUMBER	A	B	C	T	B	T _B	
			TIME MINUTE	MG	MW	B*24450	C*AX.0493	PPM	
CHUCK ALLEN	434241	1M0646	510	.002	92.15	48.90	2316.93	.021	
JOE MESSINA	434319	1M0741	460	.0012	92.15	42.05	2089.78	.020	
DAVID BADEPUS	433483	1M0534	470	.0012	92.15	42.05	2135.21	.020	
DICKIE BOURGEOIS	433844	1M0822	470	.0012	92.15	42.05	2135.21	.020	
TOM DUFOUR	430829	1M0633	475	.0012	92.15	42.05	2157.92	.020	
KIRK YONGE	433926	1M0547	400	.0012	92.15	42.05	1817.20	.023	

Xylene

1-24-88

	A	B	C	T	B	T _B			
NAME	MASTER NUMBER	BADGE NUMBER	TIME MINUTE	MG	MW	B*24450	C*AX.0493	PPM	
CHUCK ALLEN	434241	1M 0646	570	.008	106.17	195.60	2669.43	.073	
JOE MESSINA	434319	1M 0741	460	.008	106.17	195.60	2407.72	.081	
DAVID BADEAUX	433483	1M 0534	470	.008	106.17	195.60	2460.07	.080	
DICKIE BOURGEOIS	433844	1M 0822	470	.008	106.17	195.60	2460.07	.080	
TOM DUFOUR	430829	1M 0633	475	.008	106.17	195.60	2486.24	.079	
KIRK YONGE	433926	1M 0547	400	.008	106.17	195.60	2093.67	.093	

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4/8/88

DO A 115617
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BENZENE

4/9/83

A B C T B T_B

NAME	SS NUMBER	BADGE NUMBER	TIME MINUTE	MG	MW	B*24450	C*AX.0475	PPM	
CHARLES WRIGHT	436-60-5742	OB-0652	320	0060	78.11	146.7	1232.3	0.12	
HERMAN GOVERNALL	436-54-3070	OB-2820	320	0032	78.11	322.7	1232.3	0.26	
HERMAN O'BEAR	439-62-6125	OB-0630	320	0074	78.11	180.9	1232.3	0.15	

4/9/88

1,3 BUTADIENE

NAME	MSSR NUMBER	BADGE NUMBER	A B C			T B		PPM	
			TIME MINUTE	MG	MW	B*24450	C*AX.0493		
CHARLES WRIGHT	436-60-5742	OB-0652	320	.007	54.0	171.2	851.9	0.20	
HERMANN GOVERNOR	436-54-3070	OB-2820	320	.004	54.0	97.8	851.9	0.11	
HERMON O'BEAR	439-62-6125	OB-0630	320	.007	54.0	171.2	851.9	0.20	

DO A 115619
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INDUSTRIAL HYGIENE SAMPLE CONCENTRATION DATA ENTRY

NAME OF INVESTIGATOR: ROCK GUSTIN
 CHEMICAL NAME BENZENE DR# 0002-5058
 PLANT LHC II PLANT NO. 48

SAMPLE DATE (MMDDYY) 4-8-88
 SAMPLE NUMBER 0652
 SAMPLING TIME IN MIN. 320
 SAMPLE VOLUME IN LITERS 11,360
 SAMPLE TYPE (A, S OR P)

A=AREA
 S=SHORT TERM
 P=PERSONAL

IF AREA, DESCRIBE
 RESPIRATOR TYPE (1 TO 7): 3
 8 OR 12 HOUR SHIFT 8
 SHIFT 1, 2, OR 3 1
 EMPLOYEE I.D. NO. 436-60-5742
 IH JOB ASSIGNMENT # 11

SAMPLE CONCENTRATION RESULT 0.12 PPM

COMMENTS: SAMPLE BADGE TYPE (3500 ORGANIC VAPOR MONITOR)

RESPIRATOR TYPE: 1 = NOT USED 2 = MOUTH-BIT 3 = HALF FACE
 4 = FULL FACE 5 = AIR LINE 6 = DUST MASK 7 = SCBA

RAW DATA:

START TIME: 940
 STOP TIME: 300
 BEGINNING FLOW RATE: _____
 ENDING FLOW RATE: _____

DO A 115620
 CONFIDENTIAL

INDUSTRIAL HYGIENE SAMPLE CONCENTRATION DATA ENTRY

NAME OF INVESTIGATOR: Rock Gustin
 CHEMICAL NAME BENZENE DR# 0002-5058
 PLANT LHC II PLANT NO. 48

SAMPLE DATE (MMDDYY) 4-8-88
 SAMPLE NUMBER 2820
 SAMPLING TIME IN MIN. 320
 SAMPLE VOLUME IN LITERS 11360
 SAMPLE TYPE (A, S OR P)

A=AREA

S=SHORT TERM

P=PERSONAL

IF AREA, DESCRIBE

RESPIRATOR TYPE (1 TO 7):

8 OR 12 HOUR SHIFT

SHIFT 1, 2, OR 3

EMPLOYEE I.D. NO.

IH JOB ASSIGNMENT #

P
3
8
1
136-54-3070
11

SAMPLE CONCENTRATION RESULT 0.26 PPM

COMMENTS: SAMPLE BADGE TYPE (3500 ORGANIC VAPOR MONITOR)

RESPIRATOR TYPE: 1 = NOT USED 2 = MOUTH-BIT 3 = HALF FACE
 4 = FULL FACE 5 = AIR LINE 6 = DUST MASK 7 = SCBA

RAW DATA:

START TIME: 9⁰⁰
 STOP TIME: 3⁰⁰
 BEGINNING FLOW RATE: _____
 ENDING FLOW RATE: _____

INDUSTRIAL HYGIENE SAMPLE CONCENTRATION DATA ENTRY

NAME OF INVESTIGATOR: Rock Gustin
 CHEMICAL NAME BENZENE DR# 0002-5058
 PLANT LHC II PLANT NO. 48

SAMPLE DATE (MMDDYY) 4-8-88
 SAMPLE NUMBER 0630
 SAMPLING TIME IN MIN. 320
 SAMPLE VOLUME IN LITERS 11360
 SAMPLE TYPE (A, S OR P)

A=AREA

S=SHORT TERM

P=PERSONAL

IF AREA, DESCRIBE

RESPIRATOR TYPE (1 TO 7):

8 OR 12 HOUR SHIFT

SHIFT 1, 2, OR 3

EMPLOYEE I.D. NO.

IH JOB ASSIGNMENT #

P
3
8
1
439-62-6125
11

SAMPLE CONCENTRATION RESULT 0.15 PPM

COMMENTS: SAMPLE BADGE TYPE (3500 ORGANIC VAPOR MONITOR)

RESPIRATOR TYPE: 1 = NOT USED 2 = MOUTH-BIT 3 = HALF FACE
 4 = FULL FACE 5 = AIR LINE 6 = DUST MASK 7 = SCBA

RAW DATA:

START TIME: 9¹⁰
 STOP TIME: 3⁰⁰
 BEGINNING FLOW RATE: _____
 ENDING FLOW RATE: _____

DO A 115612
 CONFIDENTIAL

INDUSTRIAL HYGIENE SAMPLE CONCENTRATION DATA ENTRY

NAME OF INVESTIGATOR: ROCK GUSTIN
 CHEMICAL NAME 1,3 BUTADIENE DR# 0002-0600
 PLANT LHC II PLANT NO. 48

SAMPLE DATE (MMDDYY) 4-8-88
 SAMPLE NUMBER 0652
 SAMPLING TIME IN MIN. 320
 SAMPLE VOLUME IN LITERS 13696
 SAMPLE TYPE (A, S OR P)

A=AREA
 S=SHORT TERM
 P=PERSONAL

IF AREA, DESCRIBE
 RESPIRATOR TYPE (1 TO 7): 3
 8 OR 12 HOUR SHIFT 8
 SHIFT 1, 2, OR 3 1
 EMPLOYEE I.D. NO. 436-60-5742
 IH JOB ASSIGNMENT # 11

SAMPLE CONCENTRATION RESULT 0.20 PPM

COMMENTS: SAMPLE BADGE TYPE (3500 ORGANIC VAPOR MONITOR)

RESPIRATOR TYPE: 1 = NOT USED 2 = MOUTH-BIT 3 = HALF FACE
 4 = FULL FACE 5 = AIR LINE 6 = DUST MASK 7 = SCBA

RAW DATA:

START TIME: 940
 STOP TIME: 310
 BEGINNING FLOW RATE: _____
 ENDING FLOW RATE: _____

DO A 115023
 CONFIDENTIAL

INDUSTRIAL HYGIENE SAMPLE CONCENTRATION DATA ENTRY

NAME OF INVESTIGATOR: Rock Gustin
 CHEMICAL NAME 1,3 BUTADIENE DR# 0002-0600
 PLANT LHC II PLANT NO. 48

SAMPLE DATE (MMDDYY) 4-8-88
 SAMPLE NUMBER 2820
 SAMPLING TIME IN MIN. 320
 SAMPLE VOLUME IN LITERS 13696
 SAMPLE TYPE (A, S OR P)
 A=AREA
 S=SHORT TERM
 P=PERSONAL P
 IF AREA, DESCRIBE
 RESPIRATOR TYPE (1 TO 7): 3
 8 OR 12 HOUR SHIFT 8
 SHIFT 1, 2, OR 3 1
 EMPLOYEE I.D. NO. 43654-3070
 IH JOB ASSIGNMENT # 11

SAMPLE CONCENTRATION RESULT 0.11 PPM

COMMENTS: SAMPLE BADGE TYPE (3500 ORGANIC VAPOR MONITOR)

RESPIRATOR TYPE: 1 = NOT USED 2 = MOUTH-BIT 3 = HALF FACE
 4 = FULL FACE 5 = AIR LINE 6 = DUST MASK 7 = SCBA

RAW DATA:

START TIME: 940
 STOP TIME: 300
 BEGINNING FLOW RATE: _____
 ENDING FLOW RATE: _____

INDUSTRIAL HYGIENE SAMPLE CONCENTRATION DATA ENTRY

NAME OF INVESTIGATOR: ROCK GUSTIN
 CHEMICAL NAME 1,3 BUTADIENE DR# 0002-0600
 PLANT LHC II PLANT NO. 48

SAMPLE DATE (MMDDYY) 4-8-88
 SAMPLE NUMBER 0630
 SAMPLING TIME IN MIN. 320
 SAMPLE VOLUME IN LITERS 13696
 SAMPLE TYPE (A, S OR P)

A=AREA

S=SHORT TERM

P=PERSONAL

IF AREA, DESCRIBE

RESPIRATOR TYPE (1 TO 7):

8 OR 12 HOUR SHIFT

SHIFT 1, 2, OR 3

EMPLOYEE I.D. NO.

IH JOB ASSIGNMENT #

P
3
8
1
439-62-6125
11

SAMPLE CONCENTRATION RESULT 0.20 PPM

COMMENTS: SAMPLE BADGE TYPE (3500 ORGANIC VAPOR MONITOR)

RESPIRATOR TYPE: 1 = NOT USED 2 = MOUTH-BIT 3 = HALF FACE
 4 = FULL FACE 5 = AIR LINE 6 = DUST MASK 7 = SCBA

RAW DATA:

START TIME: 940
 STOP TIME: 320
 BEGINNING FLOW RATE: _____
 ENDING FLOW RATE: _____

DO A 115625
 CONFIDENTIAL