

CHEMICALS



24
INTEROFFICE / LAKE CHARLES

TO P. S. Trew

DATE July 1, 1983

FROM M. G. Carver
MC.

SUBJECT Vent Sampling

The VDC Plant Scrubber Vent was sampled for chlorinated hydrocarbon emissions at 10:30 A.M. on 6-30-83.

Operations were normal, (i.e.) the vents that are normally incinerated were being incinerated.

The production rate was 31 tons per day for VDCM.

Attached is a summary of the analysis.

cc: C. Spivey
M. W. Wood/W. H. Cooper
H. J. Hoenes

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SL 043978



STACK #26 PER/TRI EMERGENCY/STARTUP SCRUBBER

STARTUP IS 30 MINUTES LONG (BASED ON 2/28/84 MEMO BY E. LIGGIO)

1) 10 MINUTES:

EDC	64.24 LB	47.9%
CHCl ₃	<u>69.93 LB</u>	52.1%
	134.17	

2) 20 MINUTES:

	WT% OF CHC INVENT	LB/STARTUP	<u>STARTUP TOTAL</u>	
			<u>LBs</u>	<u>WT%</u>
VC	4%	4.1	4.1	1.7
VDC	32%	32.7	32.7	13.8
TRANS	29%	29.7	29.7	12.6
CIS	16%	16.4	16.4	6.9
TRI	19%	19.4	19.4	8.2
			EDC 64.2	27.2
			CHCl ₃ <u>69.9</u>	29.6
			236.4	

SHUTDOWN

	<u>WT% CHC</u>	<u>LBs / SHUTDOWN</u>
VC	4%	7.5
VDC	32%	59.8
TRANS	29%	54.2
CIS	16%	29.9
TRI	19%	<u>35.5</u>
		186.9 LB/SHUTDOWN

SL 043980

Analysis of HCl Tails Tower Scrubber
Stack, (Sampled 9-23-83/9:20am)
Flow Rate - NA *

Component		% V/V	lb/Day
Chloroethene	(VC)	0.03	
Chloroethane	(EC)	nd **	
Methylene Chloride	(MeCl ₂)	nd	
1,1-Dichloroethene	(VDC)	nd	
1,1-Dichloroethane	(DCE)	<0.01	
1,2-Dichloroethene	(Cis/Trans)	nd	
Trichloromethane	(CHCl ₃)	nd	
1,2-Dichloroethane	(EDC)	<0.01	
1,1,1-Trichloroethane	(MC)	nd	
Tetrachloromethane	(CCl ₄)	nd	
Trichloroethene	(Trichlor)	nd	
1,1,2-Trichloroethane	(TCE)	nd	
Tetrachloroethene	(Perchlor)	nd	
Acetylene	(CHCH)	3.74	
Monochloroacetylene	(MCA)	<0.01	
Total HC		3.77	

HCl - 55 ppm (v/v)

SL 043981

*NA - Data not available

**nd - none detectable

Analysis of HCl Tails Tower Scrubber
 Stack (Sampled 1-6-84/11:00am)
 Flow Rate - 26.7 ft³/min

Component		% v/v	lb/Day
Chloroethene	(VC)	0.86	52.7
Chloroethane	(EC)	n.d.	
Methylene Chloride	(MeCl ₂)	n.d.	
1,1-Dichloroethene	(VDC)	n.d.	
1,1-Dichloroethane	(DCE)	0.19	18.4
1,2-Dichloroethene	(Cis/Trans)	n.d.	
Trichloromethane	(CHCl ₃)	n.d.	
1,2-Dichloroethane	(EDC)	n.d.	
1,1,1-Trichloroethane	(MC)	n.d.	
Tetrachloromethane	(CCl ₄)	n.d.	
Trichloroethene	(Trichlor)	n.d.	
1,1,2-Trichloroethane	(TCE)	n.d.	
Tetrachloroethene	(Perchlor)	n.d.	
Acetylene	(CHCH)	3.71	94.7
Monochloroacetylene	(MCA)	<0.01	
Total HC		4.76	166

HCl - 44.0 ppm (v/v)

Analysis of HCl Tails Tower Scrubber
Stack, (Sampled 1-10-84/10:00am)
Flow Rate - 6.7 ft³/min

Component		% v/v	lb/Day
Chloroethene	(VC)	0.02	0.3
Chloroethane	(EC)	nd	
Methylene Chloride	(MeCl ₂)	nd	
1,1-Dichloroethene	(VDC)	nd	
1,1-Dichloroethane	(DCE)	0.05	1.2
1,2-Dichloroethene	(Cis/Trans)	nd	
Trichloromethane	(CHCl ₃)	nd	
1,2-Dichloroethane	(EDC)	nd	
1,1,1-Trichloroethane	(MC)	nd	
Tetrachloromethane	(CCl ₄)	nd	
Trichloroethene	(Trichlor)	nd	
1,1,2-Trichloroethane	(TCE)	nd	
Tetrachloroethene	(Perchlor)	nd	
Acetylene	(CHCH)	3.89	25.3
Monochloroacetylene	(MCA)	2.79	42.2
Total HC		6.75	69

HCl - 45.5 ppm (v/v)

SL 043983

Analysis of HCl Tails Tower Scrubber
Stack, (Sampled 1-11-84/9:00am)
Flow Rate - 6.75 ft³/min

Component		% V/V	lb/Day
Chloroethene	(VC)	0.02	0.3
Chloroethane	(EC)	nd	
Methylene Chloride	(MeCl ₂)	nd	
1,1-Dichloroethene	(VDC)	nd	
1,1-Dichloroethane	(DCE)	<0.01	
1,2-Dichloroethene	(Cis/Trans)	nd	
Trichloromethane	(CHCl ₃)	nd	
1,2-Dichloroethane	(EDC)	nd	
1,1,1-Trichloroethane	(MC)	nd	
Tetrachloromethane	(CCl ₄)	nd	
Trichloroethene	(Trichlor)	nd	
1,1,2-Trichloroethane	(TCE)	nd	
Tetrachloroethene	(Perchlor)	nd	
Acetylene	(CHCH)	4.00	26.0
Monochloroacetylene	(MCA)	3.10	47.0
Total CHC		7.12	73

HCl - 45.0 ppm (V/V)

SL 043984