



TO K. Komoroski DATE July 19, 1984
FROM M. Carver *MC.* SUBJECT WTU Plant Scrubber Vent

The WTU Plant Scrubber Vent was sampled for chlorinated hydrocarbon emissions as requested. The vent is 0.49 ft in diameter with an average linear flow rate (during sampling) of 17 ft/min. One of the two strippers was operating.

ANALYSIS OF WTU PLANT SCRUBBER VENT
SAMPLED AT 1:50 PM, 6-17-84

Vent Gas Temperature - 87° F
Ambient Temperature - 85° F

<u>Component</u>		<u>% V/V</u>	<u>lb/day</u>
Chloroethene	(VC)	0.3	8.3
Chloroethane	(EC)	8.36	237.3
Methylene Chloride	(MeCl ₂)		
1,1-Dichloroethene	(VDC)	0.18	7.7
1,1-Dichloroethane	(DCE)	0.25	11.0
1,2-Dichloroethene	(cis/trans)	0.66	28.2
Trichloromethane	(CHCl ₃)	0.25	13.2
1,2-Dichloroethane	(EDC)	1.75	76.4
1,1,1-Trichloroethane	(MC)		
Tetrachloromethane	(CCl ₄)	0.57	38.7
Trichloroethene	(Trichlor)	0.36	20.9
1,1,2-Trichloroethane	(TCE)		
Tetrachloroethene	(Perchlor)	<u>0.26</u>	<u>19.0</u>
TOTAL CLHC		13	461
TONS/YEAR CLHC		84	
MC/ce			

SL 044001

cc: J. Wyche, B. Salter/J. Martin, H. Hoenes, W. Cooper, M. Wood

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)

* NA - Data not available

** nd - none detectable

SL 044002

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)

Analysis of HCl Tails Tower Scrubber
 Stack, (Sampled 1-11-84/9:00am.)
 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)	<0.01	
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 ClHC		7.12	73

HCl - 45.0 ppm (V/V)

SL 044005