



Air Products and Chemicals
INC.

ESCAMBIA PLANT

INTEROFFICE MEMORANDUM

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To: R. R. Spiegelhalter Date: November 5, 1976

From: W. F. Bowers Copies:

Re: Monthly Report
October, 1976

Environmental Laboratory

A total of 498 samples were analyzed for 2585 parameters during the month of October. Routine analysis of the samples from the pond system and samples from streams flowing into the pond system were run for environmental services. Well waters were analyzed for fourteen parameters. Routine analysis were run on the thirteen wells around George Pond.

Routine analysis was run on the cooling tower waters for each plant during the month of October.

Chlorides were run on the Methanol-Ammonia and Nitric Acid cooling tower waters and process waters from various locations in the plant throughout the month. Chlorines were run on the cascade cooling water routinely.

Dehydration column bottoms for the No. 1 and No. 2 plants are analyzed daily with results phoned to the Amines control room. Total nitrogens were run on cooling tower water and various points in the Amines plant to check for ammonia leaks. Samples were analyzed from the Amines Plants to aid in material balance evaluation.

Assistance was given to the Methanol-Ammonia Plant on the analysis of contaminated MeOH product.

Twelve samples were analyzed for ammonia to determine ammonia contamination of air in the nitric acid control room, the compressor building, and the ammonia control room.

Nitrogen oxides were determined for the nitric acid plant at the three locations of the masar unit utilizing the Antek total nitrogen analyzer and the EPA Method 7.

AP00054511

R. R. Spiegelhalter
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<u>Date</u>	<u>Location</u>	<u>Plant</u>	<u>NOx (ppm)</u> <u>EPA # 7</u>	<u>NOx(=)</u> <u>Antek</u>
10/14/76	Inlet Weak Acid	# 2		2362
	Exit Weak Acid	# 2		1211
	Exit Masar	# 2		374
10/15/76	Inlet Weak Acid	# 2		2516
	Exit Weak Acid	# 2		635
	Exit Masar	# 2		319
	Exit Masar	# 1		954
10/18/76	Exit Masar	# 2	207	328
10/19/76	Exit Masar	# 2	239	245
10/20/76	Exit Masar	# 2	462	536
10/26/76	Exit Masar	# 2	202	226
10/28/76	Exit Masar	# 2	231	258

Analysis of fuel residue from the Riley boiler fuel heater was requested by Bob Gilbert. The analysis revealed a 2.4% content of total nitrogen and 344 ppm of sodium. It was apparently residue from tar pumped from Amines and used for boiler fuel.

Amines Air Monitoring

Analytical development is being continued for the Amines Air Pollution Program. Determination of retention times for possible contaminants from each Amines product was made along with a schedule for calibration of the procedure and adsorption efficiency of silica gel tubes.

Faye Bowers
Faye Bowers

FB/wt

AP00054512



ESCAMBIA PLANT

INTEROFFICE MEMORANDUM

To: R. R. Spiegelhalter

Date: October 6, 1976

From: R. W. Wolfe

Copies:

Re: Monthly Report
September, 1976

Amines

Lab assistance on the on-stream chromatographs and routine chromatographs have continued during MEA & MIPA production runs. Two on-stream chromatographs have been put in service - one monitoring MEA product and one monitoring MIPA product.

Lab work is continuing on designing a better VPC procedure for measuring trace quantities of MEA in product DMA. The Calgon procedure was tried but appears inferior to our present VPC method.

Lab work was begun for determining trace quantities of water in various amine products by a VPC procedure. Preliminary work indicates a 20' X 1/8" i.d. Teflon column packed with 5% Igepal - 880 on Chromosorb T may be satisfactory for methyl and ethyl amine products. Work will continue on this project.

St. Gabriel Amines Plant

Lab help was continued at the St. Gabriel plant for MEA start-up. Two technicians and myself were present during the start-up. The plant start-up presented no analytical problems and product MEA was within the specifications.

Methanol Plant

Samples of methanol have continued to be analyzed for alkalinity. Methanol inlet and exit the ion exchange unit at Mobile storage have been monitored periodically for alkalinity and VPC scans have been made to determine the DMA content.

R. W. Wolfe

RWW/wt

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