

EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY J. L. MOREAU, JR.

QUARTER 2 YEAR 1983

PLANT MARINE DOCK #1 BLOCK STRESS METHANOL LIMIT AND UNIT

MINIMAL DETECTABLE LIMIT AND UNIT

[illegible]

DO 082552
CONFIDENTIAL

* PROTECTIVE EQUIPMENT: (1) Mouthbit (2) Full Face (3) Half or Dust Face (4) Air Supply (5) Hearing Protection

DOW CHEMICAL U.S.A
LOUISIANA DIVISION

ENVIRONMENTAL CONTROL

REPORT OF ANALYSIS

REFERENCE NO. 290
DATE THIS REPORT 7-8-83
CHARGE 93
DEPT. Marine Dock #

[illegible]

METHOD H₂O Extraction
GC: 7ID

MLS SOLVENT 10
LIMIT OF DETERMINATION MeOH = 200 μ g
(WEIGHT/VOLUME)

*BLD - BELOW LIMIT OF DETERMINATION

VALUES REPORTED HAVE BEEN CORRECTED FOR INTERFERENCES

REMARKS _____

BY Louise T. Almo

SIGNED.

Terry Wilk

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Potential Personnel Exposure to Methanol at Maine Dept #
Sample ID.

04195	$\frac{.084 \times 24.4 \times 1000}{32.04 \times .91 \times 67.05}$	=	1.05 ppm	A. WILSON P. DOIRON OT
04196	$\frac{.082 \times 24.4 \times 1000}{32.04 \times .91 \times 66.67}$	=	1.03 ppm	B. FERGUSON K. BARTHEL OT
04197	$\frac{<.002 \times 24.4 \times 1000}{32.04 \times .91 \times 45.51}$	=	0.04 ppm	DICK BEARD = OS
04198	$\frac{<.002 \times 24.4 \times 1000}{32.04 \times .91 \times 55.66}$	=	0.03 ppm	MIKE MILLER-SS F. BARLOW - OS
04199	$\frac{.150 \times 24.4 \times 1000}{32.04 \times .91 \times 61.97}$	=	2.03 ppm	C. WOODS C. YOUNG SOT

Block MARINE DOCK #1

Monitoring for METHANOL

BARGE DC-342

Other Chemicals Present:

HCL

Time Started 1030

Time Stopped 2145

Beginning Flow Rate 60.1 SECS Respirator used ☐ Yes ☒ No

Ending Flow Rate 60.7 SECS

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer

☐ Other

NOTE: Job description must be concise and complete.



LOUISIANA DIVISION INDUSTRIAL HYGIENE

PUMP # 1

Person or Area Monitored ALFRED WILSON

Type Sample: ☒ Personnel ☐ Area PHIL DOIRON-1800

☐ Excursion ☐ Other

Job Classification OT/OT Description of task performed during monitoring period including any unusual activities UNLOADING BARGE, INCLUDING DISCONNECT

Type?

Wind, Temp. and Humidity

SE 7 MPH — 78°

Form filled in by J. L. Mariani, Jr.

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Block MARINE DOCK #1

Monitoring for METHANOL

BARGE DC-342

Other Chemicals Present:

HCL

Time Started 1030

Time Stopped 2145

Beginning Flow Rate 58.7 SECS Respirator used ☐ Yes ☒ No

Ending Flow Rate 62.8 SECS

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer

☐ Other

NOTE: Job description must be concise and complete.



LOUISIANA DIVISION INDUSTRIAL HYGIENE

PUMP # 4

Person or Area Monitored BRET FERGUSON

Type Sample: ☒ Personnel ☐ Area KEN BARTHEL-1800

☐ Excursion ☐ Other

Job Classification OT/OT Description of task performed during monitoring period including any unusual activities UNLOADING BARGE, INCLUDING DISCONNECT

Type?

Wind, Temp. and Humidity

SE 7 MPH — 78°

Form filled in by J. L. Mariani, Jr.

Block MARINE DOCK #1

Person or Area Monitored

PUMP # 6

DICK BEARDSample No 04197Monitoring for METHANOLType Sample: ☒ Personnel ☐ AreaBARGE DC-342☐ Excursion ☐ OtherDate 5-12-83

Other Chemicals Present:

Job Classification OS

Description of task performed during monitoring period

HCLincluding any unusual activities UNLOADING BARGE, INCLUDING DISCONNECTTime Started 1030Time Stopped 1815Beginning Flow Rate 100 CC
59.5 SECS Respirator used ☐ Yes ☒ NoType? Ending Flow Rate 100 CC
63.1 SECS

Wind, Temp. and Humidity

Calibration Check Prior to Monitoring? ☒ Yes ☐ NoSE 7 MPH — 78°Calibration: ☒ Bubblemeter ☐ Rotometer☐ Other

NOTE: Job description must be concise and complete.

Form filled in by J. L. Morant, Jr.

LOUISIANA DIVISION INDUSTRIAL HYGIENE

DO 082556
CONFIDENTIALBlock MARINE DOCK #1

Person or Area Monitored

PUMP # 7

MIKE MILLERSample No 04198Monitoring for METHANOLType Sample: ☒ Personnel ☐ AreaBARGE DC-342☐ Excursion ☐ OtherDate 5-12-83

Other Chemicals Present:

Job Classification SS/OS

Description of task performed during monitoring period

HCLincluding any unusual activities UNLOADING BARGE, INCLUDING DISCONNECTTime Started 1030Time Stopped 2130Beginning Flow Rate 100 CC
60.4 SECS Respirator used ☐ Yes ☒ NoType? Ending Flow Rate 100 CC
82.9 SECS

Wind, Temp. and Humidity

Calibration Check Prior to Monitoring? ☒ Yes ☐ NoSE 7 MPH — 78°Calibration: ☒ Bubblemeter ☐ Rotometer☐ Other

NOTE: Job description must be concise and complete.

Form filled in by J. L. Morant, Jr.

LOUISIANA DIVISION INDUSTRIAL HYGIENE

PUMP # 8

Block MARINE DOCK #1 Person or Area Monitored CARL WOODS Sample No 04199

Monitoring for METHANOL Type Sample: ☒ Personnel ☐ Area CALVIN YOUNG-1800

BARGE DC-342 ☐ Excursion ☐ Other _____ Date 5-12-83

Other Chemicals Present: HCL Job Classification SOT / SOT Description of task performed during monitoring period including any unusual activities UNLOADING BARGE, INCLUDING DISCONNECT

Time Started 1030

Time Stopped 2145

Beginning Flow Rate 100 CC 60.6 SECS Respirator used ☐ Yes ☒ No Type? _____

Ending Flow Rate 100 CC 70.1 SECS

Calibration Check Prior to Monitoring? ☒ Yes ☐ No

Calibration: ☒ Bubblemeter ☐ Rotometer

☐ Other _____

NOTE: Job description must be concise and complete.

Form filled in by J. L. Marcano, Jr.

DOW

LOUISIANA DIVISION INDUSTRIAL HYGIENE

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SAMPLE I.D.	AREA	RF	MG/ML	MILLIGRAMS
H ₂ O interference	20971			
4195	39153 2223			
4195	39153			
4195 AVG	39153 18182	2167355	.00839	.084
minus H ₂ O	18182			
4196	38488			
	38984			
AVG	38736			
minus H ₂ O	17765		.00820	.082
4197	18175		ND	
	18514			
AVG	18345			
4198	18082			
	17967			
AVG	18024		ND	
4199	51655			
	55397			
AVG	53526			
minus H ₂ O	32555	2167355	.0150	.150

sb
1/83

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