

PLAINTIFF'S EXHIBIT

SH-1146

back sample

SH-1146 <i>Bulk Sample</i>		1 ☐ PERSONAL-TWA 2 ☐ PERSONAL-PEAK 3 ☐ AREA 4 ☐ BLANK 5 ☒ BULK		1 ☐ CHARCOAL TUBE 2 ☐ FILTER (RESP) 3 ☐ FILTER (TOTAL) 4 ☐ IMPINGER 5 ☐ PASSIVE DOSIMETER 6 ☐ SILICA GEL 7 ☐ PACKED TUBE		CODE 900508		NAME <i>datastos</i>		\$ 20.		UNIT 1 ☐ PMV 2 ☐ MG/M ³ 3 ☐ PPBY 4 ☐ FIBER/CC 5 ☒ % VOL.	
EMPLOYEES COMPANY LOCATION (SHELL FACILITY OR OTHER) AREA/UNIT DESCRIPTION OPERATING CONDITION/OPERATION		POSSIBLE INTERFERENCES/INSTRUCTIONS BAROMETER WIND IN. HG M.P.H.		TEMPERATURE HUMIDITY °F % R.H.		SAMPLE NO. DESCRIPTION OF COLLECTOR (Mfg., Lot No., Etc.) <i>Bulk</i>		SAMPLED BY DATE 12/10/08		SHIFT 1 ☐ 2 ☐ 3 ☐		PHONE 7657	
START TIME		INSTRUMENT TYPE		SERIAL NO.		COMMENTS		CLASSIFIED BY REVIEWED BY		DATA CLASSIFICATION		DPMC-04602	

DPMC-04602

LAM 015661

CONDITION OF SAMPLE ☒ SEE BELOW		DATE RECEIVED 46-22	DATE REPORTED 47-13	METHOD CODE ASBOS	NO. OF ANALYSES 1
ANALYZED BY G. V. Stinson		ANALYZED 11-19-86	DATE ANALYZED 11-19-86	LAB RECORD NO. 1817890-10-87	ACCOUNT NO. 881-182712.00
METHOD/REFERENCE EPA 600/14-020-82 WRC 182220					
COMMENT Sample was wet; dried sample in vacuum oven before analyzing					
RESULTS ☐ PPMV ☐ MG/M ³ ☐ PPBV ☐ µG/M ³		USE < LIMIT OF DETECTION (NOT N.D.)			
APPROVALS M8M		APPROVALS M8M			
DPMC-04603					

OPERATIONAL CODES

OPERATING CONDITION CODE (01-15)

(For TWA Samples)

- 01 Normal
- 02 Startup
- 03 Upset/spill/leak
- 05 Shutdown/turnaround
- 06 Maintenance
- 08 Other (specify in written comments section)

OPERATION CODE (16-80)

(For Peak or Task Samples)

- Operations
- Handling/disposal of product/process sample(s)
- Working around spill/leak
- Gauging tank(s)
- Analyzing product/process sample(s)
- Collecting product/process sample(s)
- Other Operating Tasks (specify in comments section)
- Maintenance
- Entry/work in confined space
- Removing insulation
- Applying insulation
- Breaking into process line
- Changing product/process filters

Maintenance (Continued)

- 01 Installing/removing blinds
- 02 Cleaning equipment (draining, purging, decontaminating)
- 03 Tank/equipment inspection (involving entry)
- 05 Degreasing/solvent washing
- 06 Welding/grinding/cutting
- 08 Painting
- 08 Abrasive blasting
- 08 Carpentry
- 08 Other mechanical work (specify in comments section)

Loading/Shipping

- 33 Filling drum(s)
- 34 Emptying drum(s)
- 31 Filling container(s) (sacks, bins, etc.)
- 24 Emptying container(s) (sacks, bins, etc.)
- 17 Loading tank truck(s)
- 36 Unloading tank truck(s)
- 16 Loading tank car(s)
- 21 Unloading tank car(s)
- 54 Loading barge(s)
- 23 Unloading barge(s)
- 26 Loading ship
- 26 Unloading ship

COMMENT CODES

Monitoring Problems

- 02 Pump/dosimeter malfunctioned
- 55 Initial and final flow rates differ by > 10%
- 14 Pump may have not run for entire sampling period

Monitoring Conditions

- 03 Monitoring in conjunction with government agency
- 04 Local ventilation system in work area
- 05 Major engineering changes made
- 08 Random sample
- 09 Worst case situation
- 43 Duplicate sample

Analysis

- 28 Sample lost in shipment
- 20 Sample lost in analysis
- 23 Sample arrived contaminated/damaged
- 35 Incorrect sample collector used
- 21 Interference by other compound suspected
- 61 Sample shipped cold arrived ambient
- 56 Reported result is minimum value due to possible sample loss/breakthrough
- 60 Result corrected for recovery/desorption efficiency of < 75%

PPE (specify types in Comments section)

- 57 Respirator worn
- 58 Gloves worn
- 59 Protective clothing worn

LAM 015663

O-2801 (REV. 3-85)
INDUSTRIAL HYGIENE
SAMPLING FORM

NAME EMPLOYEE SAMPLED		SOCIAL SECURITY NUMBER		EMPLOYEE NUMBER		JEP OR AREA CODE		JOB TITLE		EMPLOYER'S COMPANY		LOCATION (SHELL FACILITY OR OTHER)		AREA/UNIT DESCRIPTION		OPERATING CONDITION/ OPERATION		START TIME	
Blank										Hess Oil		E-000							
1 ☐ PERSONAL-TWA		1 ☐ CHARCOAL TUBE		2 ☐ PERSONAL-PEAK		2 ☐ FILTER (RESP.)		3 ☐ FILTER (TOTAL)		4 ☐ IMPINGER		5 ☐ PASSIVE DOSIMETER		6 ☐ SILICA GEL		7 ☐ PACKED TUBE			
3 ☐ AREA		4 ☐ BLANK		5 ☐ BULK		6 ☐ LAB CONTROL		7 ☐ SOURCE		8 ☐ PERSONAL-TASK		9 ☐ POSSIBLE INTERFERENCES/INSTRUCTIONS							
BAROMETER		30.1		IN HG		58		TEMPERATURE		90		% RH.		SAMPLE NO.		DESCRIPTION OF COLLECTOR (Mfg., Lot No., Etc.)		RETURNED BY	
WIND		NW		MPH		90		HUMIDITY		90		*F		CE-BLK 2		25 mm 0.8 m AE		CO. Kelle ECE-11C	
1 ☐ PMV		5 ☐ MG		2 ☐ MG/M ³		6 ☐ FIBER		3 ☐ PPBV		7 ☐ WT		4 ☐ FIBER/CC		8 ☐ % VOL		9 ☐ G/M ³			
DATE SAMPLED		12/1/00		SHIFT		1		2		3		PHONE		12/1/00		12/1/00			
CLASSIFIED BY		REVIEWED BY		CLASSIFICATION		01													

LAM 015665

[illegible]

OPERATIONAL CODES			COMMENT CODES		
OPERATING CONDITION CODE (01-15) (For TWA Samples)			Monitoring Problems		
01	Normal	Installing/removing blinds	55	Pump/dosimeter malfunctioned	02
02	Startup	Cleaning equipment (draining, purging, decontaminating)	37	Initial and final flow rates differ by > 10%	55
03	Upset/spill/leak	Tank/equipment inspection (involving entry)	28	Pump may have not run for entire sampling period	14
05	Shutdown/turnaround	Degreasing/solvent washing	56		
06	Maintenance	Welding/grinding/cutting	43	Monitoring Conditions	
08	Other (specify in written Comments section)	Painting	44	Monitoring in conjunction with government agency	03
		Abrasive blasting	22	Local ventilation system in work area	04
		Carpentry	57	Major engineering changes made	05
		Other mechanical work (specify in Comment section)	35	Random sample	08
				Worst case situation	09
				Duplicate sample	43
				Analysis	
53	Working around spill/leak	Loading/Shipping	18	Sample lost in shipment	28
34	Gauging tank(s)	Filling drum(s)	49	Sample lost in analysis	20
31	Analyzing product/process sample(s)	Filling container(s) (sacks, bins, etc.)	50	Sample arrived contaminated/damaged	23
24	Collecting product/process sample(s)	Emptying container(s) (sacks, bins, etc.)	51	Incorrect sample collector used	35
17	Other Operating Tasks (specify in Comments section)	Loading tank truck(s)	20	Interference by other compound suspected	
36		Unloading tank truck(s)	46		21
		Loading tank car(s)	19	Sample shipped cold arrived ambient	61
16	Entry/work in confined space	Unloading tank cars(s)	45	Reported result is minimum value due to possible sample loss/breakthrough	
21	Removing insulation	Loading barge(s)	42		56
54	Applying insulation	Unloading barge(s)	48	Result corrected for recovery/desorption efficiency of < 75%	
23	Breaking into process line	Loading ship	41		60
26	Changing process filters	Unloading ship	4		

NAME EMPLOYEE SAMPLED		1 ☐ PERSONAL-TWA		1 ☐ CHARCOAL TUBE		CODE	NAME	≤	RESULT	UNIT
SOCIAL SECURITY NUMBER		2 ☐ PERSONAL-PEAK		2 ☐ FILTER (RESP.)		900508	Calister	<	0.01	50 MG
EMPLOYEE NUMBER		3 ☐ AREA		3 ☐ FILTER (TOTAL)						20 MG/M ³
JEP OR AREA CODE		4 ☐ BLANK		4 ☐ IMPINGER						50 FIBER
JOB TITLE		5 ☐ BULK		5 ☐ PASSIVE DOSIMETER						70 % WT
EMPLOYER'S COMPANY		6 ☐ LAB CONTROL		6 ☐ SILICA GEL						40 FIBER/CC
LOCATION (SHELL FACILITY OR OTHER)		7 ☐ SOURCE		7 ☐ PACKED TUBE						90 % VOL
AREA/UNIT DESCRIPTION		8 ☐ PERSONAL-TASK		8 ☐ _____						
OPERATING CONDITION OR OPERATION		BAROMETER		TEMPERATURE		SAMPLE NO.		SAMPLED BY		PHONE
WIND		30.1 IN HG		58 °F		PE-BLK-1		CD Knauer		4057700
HUMIDITY		90 % RH				DESCRIPTION OF COLLECTOR (Mfg., Lot No., Etc.)		RETURN RESULTS TO		
Null						25mm 0.8u PDE		CD Knauer		4057700
START TIME										
INSTRUMENT TYPE		SERIAL NO.								
BY		REFERENCE/METHOD		DATE						
INITIAL		FINAL		FLOW RATE						
COUNTER READING		VOLUME PER COUNT		FINAL						
NET		INITIAL		FINAL						
SAMPLING TIME		SAMPLING VOLUME		LITERS						
MIN		MAX								
DID ANY SIGNIFICANT SKIN CONTACT OCCUR?		YES		NO						
WAS A RESPIRATOR WORN DURING SAMPLE TO CONTROL EXPOSURE?		YES		NO						
LENGTH OF SHIFT		MIN.								
DOES THIS SAMPLE REPRESENT EXPOSURE OVER THE ENTIRE SHIFT?		YES		NO						
IF NO, COMPLETE THE FOLLOWING:										
INCLUDE RESULTS FROM _____ ADDITIONAL SAMPLES (ATTACHED)										
ASSIGN ZERO EXPOSURE FOR _____ MINUTES OF SHIFT DURING PERIOD NOT SAMPLED.										
TWA CANNOT BE CALCULATED FROM THESE SAMPLES.										
COMMENTS										
CLASSIFIED BY										
REVIEWED BY										
DATA CLASSIFICATION										
01										

DPMC-04608

LAM 015667



O-2801 (REV. 3-85)
INDUSTRIAL HYGIENE
SAMPLING FORM

NAME EMPLOYEE SAMPLED		Blank		1 ☐ PERSONAL-TWA		1 ☐ CHARCOAL TUBE		CODE	NAME	SE	RESULT	UNIT
SOCIAL SECURITY NUMBER				2 ☐ PERSONAL-PEAK		2 ☐ FILTER (RESP.)		90000	Collection		0.01	1 ☐ PPMV 5 ☐ MG
EMPLOYEE NUMBER				3 ☐ AREA		3 ☐ FILTER (TOTAL)						2 ☐ MG/M ³ 6 ☐ FIBER
JEP OR AREA CODE				4 ☐ BLANK		4 ☐ IMPINGER						3 ☐ PPBV 7 ☐ % WT
JOB TITLE				5 ☐ BULK		5 ☐ PASSIVE DOSIMETER						4 ☐ FIBER/CC 8 ☐ % VOL
EMPLOYER COMPANY		Shell Oil		6 ☐ LAB CONTROL		6 ☐ SILICA GEL						9 ☐ G/M ³
LOCATION (SHELL FACILITY OR OTHER)		E-020		7 ☐ SOURCE		7 ☐ PACKED TUBE						
AREA/UNIT DESCRIPTION				8 ☐ PERSONAL-TASK		8 ☐ _____						
OPERATING CONDITION/OPERATION				POSSIBLE INTERFERENCES/INSTRUCTIONS								
START TIME				BAROMETER		TEMPERATURE		SAMPLE NO.		SAMPLED BY		PHONE
				30.0		76		Q.R. BUE-1		CJ. Knevel		476-7710
				WIND		HUMIDITY		DESCRIPTION OF COLLECTOR (MG, LOT NO., ETC.)		RETURN RESULTS TO		
				5-9 MPH		69 % RH		25mm 0.8um HE		CJ. Knevel		
INSTRUMENT TYPE		SERIAL NO		WORK TASK								
				(Blank)								
CALIBRATION DATA		DATE		LENGTH OF SHIFT		MIN.		COMMENTS				
BY REFERENCE/METHOD				- DOES THIS SAMPLE REPRESENT EXPOSURE OVER THE ENTIRE SHIFT		☐ YES ☐ NO						
INITIAL				- IF NO, COMPLETE THE FOLLOWING:								
FINAL				• INCLUDE RESULTS FROM _____ ADDITIONAL SAMPLES (ATTACHED)								
COUNTER READING		VOLUME PER COUNT		• ASSIGN ZERO EXPOSURE FOR _____ MINUTES OF SHIFT DURING PERIOD NOT SAMPLED								
INITIAL		FINAL		• TWA CANNOT BE CALCULATED FROM THESE SAMPLES.								
NET		AVG.		WAS A RESPIRATOR WORN DURING SAMPLE TO CONTROL EXPOSURE?		☐ YES ☐ NO		CLASSIFIED BY		DATA CLASSIFICATION		
SAMPLING TIME		SAMPLING VOLUME		DID ANY SIGNIFICANT SKIN CONTACT OCCUR?		☐ YES ☐ NO		REVIEWED BY		01		
MIN		LITERS						CJ. Knevel				

DPMC-04610

LAM 015669



O-2801 (REV. 3-85)

INDUSTRIAL HYGIENE SAMPLING FORM

[illegible]

LAM 015671



**INDUSTRIAL HYGIENE
SAMPLING FORM**

[illegible]



100

INDUSTRIAL HYGIENE SAMPLING FORM

[illegible]

LAM 015675

[illegible]

OPERATIONAL CODES		COMMENT CODES	
OPERATING CONDITION CODE (01-15) (For TWA Samples)		Monitoring Problems	
01	Normal	55	Pump/dosimeter malfunctioned
02	Startup	37	Initial and final flow rates differ by > 10%
03	Upset/spill/leak	28	Pump may have not run for entire sampling period
05	Shutdown/turnaround	56	Monitoring Conditions
06	Maintenance	43	Monitoring in conjunction with government agency
08	Other (specify in written comments section)	44	Local ventilation system in work area
OPERATION CODE (16-60) (For Peak or Task Samples)		22	Major engineering changes made
Operations		57	Random sample
Handling/disposal of product/process sample(s)		35	Worst case situation
53	Working around spill/leak	43	Duplicate sample
34	Gauging tank(s)	Analysis	
31	Analyzing product/process sample(s)	18	Sample lost in shipment
24	Collecting product/process sample(s)	49	Sample lost in analysis
17	Other Operating Tasks (specify in comments section)	50	Sample arrived contaminated/damaged
36		51	Incorrect sample collector used
16	Entry/work in confined space	20	Interference by other compound suspected
21	Removing insulation	46	Sample shipped cold arrived ambient
54	Applying insulation	19	Reported result is minimum value due to possible sample loss/breakthrough
23	Breaking into process line	45	Result corrected for recovery/desorption efficiency of < 75%
26	Changing product/process filters	48	
		41	
		47	
OPERATING CONDITION CODE (01-15) (For TWA Samples)		Maintenance (Continued)	
01	Normal	55	Installing/removing blinds
02	Startup	37	Cleaning equipment (draining, purging, decontaminating)
03	Upset/spill/leak	28	Tank/equipment inspection (involving entry)
05	Shutdown/turnaround	56	Degreasing/solvent washing
06	Maintenance	43	Welding/grinding/cutting
08	Other (specify in written comments section)	44	Painting
OPERATION CODE (16-60) (For Peak or Task Samples)		22	Abrasive blasting
Operations		57	Carpentry
Handling/disposal of product/process sample(s)		35	Other mechanical work (specify in comment section)
53	Working around spill/leak	Loading/Shipping	
34	Gauging tank(s)	18	Filling drum(s)
31	Analyzing product/process sample(s)	49	Emptying drum(s)
24	Collecting product/process sample(s)	50	Filling container(s) (sacks, bins, etc.)
17	Other Operating Tasks (specify in comments section)	51	Emptying container(s) (sacks, bins, etc.)
36		20	Loading tank truck(s)
16	Entry/work in confined space	46	Unloading tank truck(s)
21	Removing insulation	19	Loading tank car(s)
54	Applying insulation	45	Unloading tank cars(s)
23	Breaking into process line	42	Loading barge(s)
26	Changing product/process filters	48	Unloading barge(s)
		41	Loading ship
		47	Unloading ship
OPERATING CONDITION CODE (01-15) (For TWA Samples)		Maintenance	
01	Normal	55	Sample shipped cold arrived ambient
02	Startup	37	Reported result is minimum value due to possible sample loss/breakthrough
03	Upset/spill/leak	28	Result corrected for recovery/desorption efficiency of < 75%
05	Shutdown/turnaround	56	
06	Maintenance	43	
08	Other (specify in written comments section)	44	
OPERATION CODE (16-60) (For Peak or Task Samples)		22	
Operations		57	
Handling/disposal of product/process sample(s)		35	
53	Working around spill/leak	43	
34	Gauging tank(s)	Analysis	
31	Analyzing product/process sample(s)	18	Sample lost in shipment
24	Collecting product/process sample(s)	49	Sample lost in analysis
17	Other Operating Tasks (specify in comments section)	50	Sample arrived contaminated/damaged
36		51	Incorrect sample collector used
16	Entry/work in confined space	20	Interference by other compound suspected
21	Removing insulation	46	Sample shipped cold arrived ambient
54	Applying insulation	19	Reported result is minimum value due to possible sample loss/breakthrough
23	Breaking into process line	45	Result corrected for recovery/desorption efficiency of < 75%
26	Changing product/process filters	48	
		41	
		47	



O-2801 (REV. 3-85)
**INDUSTRIAL HYGIENE
SAMPLING FORM**

NAME OF EMPLOYEE SAMPLED <i>Blank</i>		1 ☐ PERSONAL-TWA		1 ☐ CHARCOAL TUBE		CODE	NAME	RESULT	UNIT
SOCIAL SECURITY NUMBER		2 ☐ PERSONAL-PEAK		2 ☐ FILTER (RESP.)		<i>900558</i>	<i>Calculation</i>	<i>0.01</i>	1 ☐ PPMV 5 ☐ MG
EMPLOYEE NUMBER		3 ☐ AREA		3 ☐ FILTER (TOTAL)					2 ☐ MQ/M ³ 6 ☐ FIBER
JEP OR AREA CODE		4 ☐ BLANK		4 ☐ IMPINGER					3 ☐ PPBY 7 ☐ % WT
JOB TITLE		5 ☐ BULK		5 ☐ PASSIVE DOSIMETER					4 ☐ FIBER/CC 8 ☐ % VOL.
EMPLOYER COMPANY		6 ☐ LAB CONTROL		6 ☐ SILICA GEL					9 ☐ G/M ³
LOCATION (SHELL FACILITY OR OTHER)		7 ☐ SOURCE		7 ☐ PACKED TUBE					DATE SAMPLED <i>11/1/86</i>
AREA/UNIT DESCRIPTION		8 ☐ PERSONAL-TASK		8 ☐ _____					SHIFT 1 ☐ 2 ☐ 3 ☐ 0230-0600
OPERATING CONDITION/OPERATION		BAROMETER <i>30.0</i>		TEMPERATURE <i>57</i>		SAMPLE NO. <i>CH-BLK-A</i>		SAMPLED BY <i>Ch. Brown</i>	PHONE <i>476-7710</i>
START TIME		WIND <i>N-12</i>		HUMIDITY <i>86</i>		DESCRIPTION OF COLLECTOR (Mfg. Lot No., Etc.) <i>Stann 0.8-ACE</i>		RETURN RESULTS TO <i>Ch. Brown ET-5-1116</i>	
INSTRUMENT TYPE		SERIAL NO.		LENGTH OF SHIFT ____ MIN.		COMMENTS		DPMC-04618	
BY		REFERENCE/METHOD		DATE		DOES THIS SAMPLE REPRESENT EXPOSURE OVER THE ENTIRE SHIFT ☐ YES ☐ NO			
INITIAL		FINAL		DATE		IF NO, COMPLETE THE FOLLOWING: ☐ YES ☐ NO			
FINAL		VOLUME PER COUNT		FLOW RATE		INCLUDE RESULTS FROM _____ ADDITIONAL SAMPLES (ATTACHED)			
COUNTER READING		INITIAL		FINAL		ASSIGN ZERO EXPOSURE FOR _____ MINUTES OF SHIFT DURING PERIOD NOT SAMPLED.			
INITIAL		INITIAL		INITIAL		TWA CANNOT BE CALCULATED FROM THESE SAMPLES.			
FINAL		INITIAL		INITIAL		WAS A RESPIRATOR WORN DURING SAMPLE TO CONTROL EXPOSURE? ☐ YES ☐ NO			
AVERAGE		AVERAGE		AVERAGE		DID ANY SIGNIFICANT SKIN CONTACT OCCUR? ☐ YES ☐ NO			
SAMPLING TIME		SAMPLING VOLUME		LITERS		CLASSIFIED BY		DATA CLASSIFICATION	
MIN		MIN		MIN		REVIEWED BY			



0-2801 (REV. 3-85)
INDUSTRIAL HYGIENE
SAMPLING FORM

NAME EMPLOYER SAMPLED <i>Blank</i>		1 ☐ PERSONAL TWA		1 ☐ CHARCOAL TUBE		CODE	NAME	SS	RESULT	UNIT	
SOCIAL SECURITY NUMBER		2 ☐ PERSONAL PEAK		2 ☐ FILTER (RESP)		<i>900508</i>	<i>Labrador</i>		<i>0.01</i>	1 ☐ PMV 5 ☐ MG	
EMPLOYEE NUMBER		3 ☐ AREA		3 ☒ FILTER (TOTAL)						2 ☐ MG/M ³ 6 ☒ FIBER	
JEP OR AREA CODE		4 ☒ BLANK		4 ☐ IMPINGER						3 ☐ PPBV 7 ☐ % WT	
JOB TITLE		5 ☐ BULK		5 ☐ PASSIVE DOSIMETER						4 ☐ FIBER/CC 8 ☐ % VOL	
EMPLOYER'S COMPANY		6 ☐ LAB CONTROL		6 ☐ SILICA GEL						9 ☐ G/M ³	
LOCATION (SHELL FACILITY OR OTHER)		7 ☐ SOURCE		7 ☐ PACKED TUBE						DATE SAMPLED <i>11/10/82</i>	
AREA/UNIT DESCRIPTION		8 ☐ PERSONAL TASK		8 ☐ _____						SHIFT 1 ☐ 2 ☒ 3 ☐	
OPERATING CONDITION/OPERATION		BAROMETER <i>30.0</i> IN. HG		TEMPERATURE <i>74</i> °F		SAMPLE NO. <i>02-1346-1</i>		SAMPLED BY <i>Ed. Fenwick</i>		PHONE <i>424-7710</i>	
START TIME		WIND <i>SE 8</i> MPH		HUMIDITY <i>79</i> % RH		DESCRIPTION OF COLLECTOR (MFG., LOT NO., ETC.) <i>25mm x 0.8m HCE</i>		RETURN RESULTS TO <i>Ed. Fenwick</i>			
INSTRUMENT TYPE		SERIAL NO.		LENGTH OF SHIFT ____ MIN.		COMMENTS					
BY		REFERENCE/METHOD		DATE							
INITIAL											
FINAL											
JUNTER READING		VOLUME PER COUNT		FLOW RATE							
INITIAL											
FINAL											
AVERAGE											
SAMPLING TIME		SAMPLING VOLUME		LITERS							
MIN		MAX									
DID ANY SIGNIFICANT SKIN CONTACT OCCUR?		☐ YES ☐ NO									
CLASSIFIED BY		DATA CLASSIFICATION									
REVIEWED BY											

DPMC-04620

LAM 015679



LAM 015681

ANALYSIS REPORT		DATE RECEIVED		DATE REPORTED		METHOD CODE		NO. OF ANALYSES	
CONDITION OF SAMPLE		45-5		48-2		ASBOM		1	
ANALYZED BY		G. J. Hines		11-25-86		LAB RECORD NO.		881-82712-00	
METHOD/REFERENCE		N105H 7400A, OSHA ID-160							

RESULTS		USE < LIMIT OF DETECTION (NOT N.D.)		APPROVALS	
☐ PPMV ☐ PPBV		☐ MG/M ³ ☐ μ G/M ³			

OPERATIONAL CODES	OPERATING CONDITION CODE (01-15)	Maintenance (Continued)	OPERATIONAL CODES	OPERATING CONDITION CODE (01-15)	Maintenance (Continued)
Normal	01	Installing/removing blinds	Monitoring Problems	02	Pump/dosimeter malfunctioned
Startup	02	Cleaning equipment (draining, purging, decontaminating)	Initial and final flow rates differ by > 10%	55	Respirator worn
Upset/spill/leak	03	Tank/equipment inspection (involving entry)	Pump may have not run for entire sampling period	14	Gloves worn
Shutdown/turnaround	05	Degreasing/solvent washing	Monitoring Conditions		Protective clothing worn
Maintenance	06	Welding/grinding/cutting	Monitoring in conjunction with government agency	03	
Other (specify in written comments section)	08	Painting	Local ventilation system in work area	04	
		Abrasive blasting	Major engineering changes made	05	
		Carpentry	Random sample	08	
		Other mechanical work (specify in comments section)	Worst case situation	09	
			Duplicate sample	43	
			Analysis		
			Sample lost in shipment	28	
			Sample lost in analysis	20	
			Sample arrived contaminated/damaged	23	
			Incorrect sample collector used	35	
			Interference by other compound suspected	21	
			Sample shipped cold arrived ambient	61	
			Reported result is minimum value due to possible sample loss/breakthrough	56	
			Result corrected for recovery/desorption efficiency of < 75%	60	

DPMC-04623

OPERATIONAL CODES

OPERATING CONDITION CODE (01-15)

- Normal
- Startup
- Upset/spill/leak
- Shutdown/turnaround
- Maintenance
- Other (specify in written comments section)
- OPERATION CODE (16-60)
- (For Peak or Task Samples)
- Operations
- Handling/disposal of product/process sample(s)
- Working around spill/leak
- Gauging tank(s)
- Analyzing product/process sample(s)
- Collecting product/process sample(s)
- Other Operating Tasks (specify in comments section)
- Maintenance
- Entry/work in confined space
- Removing insulation
- Applying insulation
- Breaking into process line
- Changing product/process filters

Maintenance (Continued)

- Installing/removing blinds
- Cleaning equipment (draining, purging, decontaminating)
- Tank/equipment inspection (involving entry)
- Degreasing/solvent washing
- Welding/grinding/cutting
- Painting
- Abrasive blasting
- Carpentry
- Other mechanical work (specify in comments section)
- Loading/Shipping
- Filling drum(s)
- Emptying tank(s)
- Filling container(s) (sacks, bins, etc.)
- Emptying container(s) (sacks, bins, etc.)
- Loading tank truck(s)
- Unloading tank truck(s)
- Loading tank car(s)
- Unloading tank car(s)
- Loading tank cars(s)
- Unloading barge(s)
- Unloading barge(s)
- Loading ship
- Unloading ship

COMMENT CODES

- Monitoring Problems
- Pump/dosimeter malfunctioned
- Initial and final flow rates differ by > 10%
- Pump may have not run for entire sampling period
- Monitoring Conditions
- Monitoring in conjunction with government agency
- Local ventilation system in work area
- Major engineering changes made
- Random sample
- Worst case situation
- Duplicate sample
- Analysis
- Sample lost in shipment
- Sample lost in analysis
- Sample arrived contaminated/damaged
- Incorrect sample collector used
- Interference by other compound suspected
- Sample shipped cold arrived ambient
- Reported result is minimum value due to possible sample loss/breakthrough
- Result corrected for recovery/desorption efficiency of < 75%

PPE (specify types in comments section)
 Respirator worn
 Gloves worn
 Protective clothing worn



**INDUSTRIAL HYGIENE
SAMPLING FORM**

LAM 015683



0406972

NAME EMPLOYEE SAMPLED		SOCIAL SECURITY NUMBER		EMPLOYEE NUMBER		JEP OR AREA CODE		JOB TITLE		EMPLOYER COMPANY		LOCATION (SHELL FACILITY OR OTHER)		AREA/UNIT DESCRIPTION		OPERATING CONDITION/ OPERATION		START TIME	
Blank										Hill oil		E. 050							
1 ☐ PERSONAL - TWA		1 ☐ CHARCOAL TUBE		CODE		NAME		RESULT		UNIT		DATE SAMPLED		SHIFT		PHONE			
2 ☐ PERSONAL - PEAK		2 ☐ FILTER (RESP.)		900508		Labator		104		5 ☐ MG		10/29/82		1		02204/1600			
3 ☐ AREA		3 ☐ FILTER (TOTAL)								6 ☐ FIBER				2					
4 ☐ BLANK		4 ☐ IMPINGER								7 ☐ WT				3					
5 ☐ BULK		5 ☐ PASSIVE DOSIMETER								8 ☐ VOL.				4					
6 ☐ LAB CONTROL		6 ☐ SILICA GEL								9 ☐ G/m³				5					
7 ☐ SOURCE		7 ☐ PACKED TUBE												6					
8 ☐ PERSONAL - TASK		8 ☐ POSSIBLE INTERFERENCES/INSTRUCTIONS												7					
BAROMETER		TEMPERATURE		SAMPLE NO.		SAMPLER BY		RETURN RESULTS TO						8					
WIND		HUMIDITY		CDE BLC 2		C. D. K. 11/10		C. D. K. 11/10						9					
11.6 M.P.H.		43 % RH		25 m 12 m 15 m		C. D. K. 11/10		C. D. K. 11/10						10					
														11					
														12					
														13					
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LAM 015685

[illegible][illegible]



INDUSTRIAL HYGIENE
SAMPLING FORM
O-2861 (REV. 3-85)

LAM 015687

DPMC-04628

CONDITION OF SAMPLE ☐ OK ☐ SEE BELOW	DATE RECEIVED 45-1	DATE REPORTED	METHOD CODE ASBOM	NO. OF ANALYSES 1
ANALYZED BY [Signature]		DATE ANALYZED 11-14-86	LAB RECORD NO. 17820 3828 sm	ACCOUNT NO. 881-8271200
METHOD/REFERENCE NIOSH 7400A, OSHA ID-160				
COMMENT				

RESULTS	USE < LIMIT OF DETECTION (NOT N.D.)	APPROVALS
☐ PPMV ☐ MG/M ³ ☐ MG ☐ PPMV ☐ PPMV ☐ PPMV ☐ PPMV ☐ PPMV ☐ PPMV ☐ PPMV ☐ PPMV		msm
DPMC-04629	Blank = 0.03 fibers field.	

OPERATIONAL CODES		COMMENT CODES		PPE (specify types in Comments section)	
OPERATING CONDITION CODE (01-15) (For TWA Samples)		Maintenance (Continued)		PPE (specify types in Comments section)	
01 Normal	Installing/removing blinds	55	Monitoring Problems	02	Respirator worn
02 Startup	Cleaning equipment (draining, purging, decontaminating)	37	Pump/dosimeter malfunctioned	55	Gloves worn
03 Upset/spill/leak	Tank/equipment inspection (involving entry)	28	Pump may have not run for entire sampling period	14	Protective clothing worn
05 Shutdown/turnaround	Degreasing/solvent washing	58	Monitoring Conditions		
06 Maintenance	Welding/grinding/cutting	43	Monitoring in conjunction with government agency	03	
08 Other (specify in written Comments section)	Painting	44	Local ventilation system in work area	04	
	Abrasive blasting	22	Major engineering changes made	05	
	Carpentry	57	Random sample	08	
	Other mechanical work (specify in Comment section)	35	Worst case situation	09	
			Duplicate sample	43	
			Analysis		
			Sample lost in shipment	28	
			Sample lost in analysis	20	
			Sample arrived contaminated/damaged	23	
			Incorrect sample collector used	35	
			Interference by other compound		
			• suspected	21	
			Sample shipped cold arrived ambient	61	
			Reported result is minimum value due to possible sample loss/breakthrough	56	
			Result corrected for recovery/desorption efficiency of < 75%	60	



2.

INDUSTRIAL HYGIENE SAMPLING FORM

[illegible]

LAM 015689



O-2801 (REV. 3-85)

INDUSTRIAL HYGIENE SAMPLING FORM

[illegible]

DPMC-04632

LAM 015691



0 2801 (REV) 3-85)

INDUSTRIAL HYGIENE SAMPLING FORM

[illegible]

LAM 015693

OPERATIONAL CODES		COMMENT CODES	
OPERATING CONDITION CODE (01-15) (For TWA Samples)		Maintenance (Continued)	
01	Normal	55	Installing/removing blinds
02	Startup	37	Cleaning equipment (draining, purging, decontaminating)
03	Upset/spill/leak		Tank/equipment inspection
05	Shutdown/turnaround	28	(Involving entry)
06	Maintenance	56	Degreasing/solvent washing
08	Other (specify in written Comments section)	43	Welding/grinding/cutting
OPERATION CODE (16-60) (For Peak or Task Samples)		44	Painting
Operations		22	Abrasive blasting
Handling/disposal of product/process sample(s)		57	Carpentry
53	Working around spill/leak	35	Other mechanical work (specify in Comment section)
34	Gauging tank(s)		Loading/Shipping
31	Analyzing product/process sample(s)	18	Filling drum(s)
24	Collecting product/process sample(s)	49	Emptying drum(s)
17	Other Operating Tasks (specify in Comments section)	50	Filling container(s) (sacks, bins, etc.)
36	Maintenance	51	Emptying container(s) (sacks, bins, etc.)
16	Entry/work in confined space	20	Loading tank truck(s)
21	Removing insulation	46	Unloading tank truck(s)
54	Applying insulation	19	Loading tank car(s)
23	Breaking into process line	45	Unloading tank cars(s)
26	Changing product/process filters	42	Loading barge(s)
		48	Unloading barge(s)
		41	Loading ship
		47	Unloading ship
			Monitoring Problems
		02	Pump/dosimeter malfunctioned
		55	Initial and final flow rates differ by > 10%
		14	Pump may have not run for entire sampling period
			Monitoring Conditions
		03	Monitoring in conjunction with government agency
		04	Local ventilation system in work area
		05	Major engineering changes made
		08	Random sample
		09	Worst case situation
		43	Duplicate sample
			Analysis
		28	Sample lost in shipment
		20	Sample lost in analysis
		23	Sample arrived contaminated/damaged
		35	Incorrect sample collector used
		21	Interference by other compound suspected
		61	Sample shipped cold arrived ambient
		56	Reported result is minimum value due to possible sample loss/breakthrough
		60	Result corrected for recovery/desorption efficiency of < 75%
			PPE (specify types in Comments section)
			Respirator worn
			Gloves worn
			Protective clothing worn



INDUSTRIAL HYGIENE
O-2801 (REV. 3-85)
SAFETY INC. FORM

LAM 015695



0-28001 (REV. 3-85)

INDUSTRIAL HYGIENE SAMPLING FORM

NAME EMPLOYEE SAMPLED		1 ☐ PERSONAL-TWA		1 ☐ CHARCOAL TUBE		CODE	NAME	\$	RESULT	UNIT
SOCIAL SECURITY NUMBER	2 ☐ PERSONAL-PEAK	2 ☐ FILTER (RESP)		900508	Labestation					1 ☐ PPMV 5 ☐ MG
EMPLOYEE NUMBER	3 ☐ AREA	3 ☐ FILTER (TOTAL)								2 ☐ MG/M ³ 6 ☐ FIBER
JEP OR AREA CODE	4 ☐ BLANK	4 ☐ IMPINGER								3 ☐ PPBV 7 ☐ % WT
JOB TITLE	5 ☐ BULK	5 ☐ PASSIVE DOSIMETER								4 ☐ FIBER/CC 8 ☐ % VOL.
EMPLOYEE'S COMPANY	6 ☐ LAB CONTROL	6 ☐ SILICA GEL								9 ☐ μ G/M ³
LOCATION (SHELL FACILITY OR OTHER)	7 ☐ SOURCE	7 ☐ PACKED TUBE								DATE SAMPLED
AREAL UNIT DESCRIPTION	8 ☐ PERSONAL-TASK	8 ☐ _____								SHIFT
OPERATING CONDITION/OPERATION	POSSIBLE INTERFERENCES/INSTRUCTIONS									1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32 ☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40 ☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48 ☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56 ☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61 ☐ 62 ☐ 63 ☐ 64 ☐ 65 ☐ 66 ☐ 67 ☐ 68 ☐ 69 ☐ 70 ☐ 71 ☐ 72 ☐ 73 ☐ 74 ☐ 75 ☐ 76 ☐ 77 ☐ 78 ☐ 79 ☐ 80 ☐ 81 ☐ 82 ☐ 83 ☐ 84 ☐ 85 ☐ 86 ☐ 87 ☐ 88 ☐ 89 ☐ 90 ☐ 91 ☐ 92 ☐ 93 ☐ 94 ☐ 95 ☐ 96 ☐ 97 ☐ 98 ☐ 99 ☐ 100 ☐ 101 ☐ 102 ☐ 103 ☐ 104 ☐ 105 ☐ 106 ☐ 107 ☐ 108 ☐ 109 ☐ 110 ☐ 111 ☐ 112 ☐ 113 ☐ 114 ☐ 115 ☐ 116 ☐ 117 ☐ 118 ☐ 119 ☐ 120 ☐ 121 ☐ 122 ☐ 123 ☐ 124 ☐ 125 ☐ 126 ☐ 127 ☐ 128 ☐ 129 ☐ 130 ☐ 131 ☐ 132 ☐ 133 ☐ 134 ☐ 135 ☐ 136 ☐ 137 ☐ 138 ☐ 139 ☐ 140 ☐ 141 ☐ 142 ☐ 143 ☐ 144 ☐ 145 ☐ 146 ☐ 147 ☐ 148 ☐ 149 ☐ 150 ☐ 151 ☐ 152 ☐ 153 ☐ 154 ☐ 155 ☐ 156 ☐ 157 ☐ 158 ☐ 159 ☐ 160 ☐ 161 ☐ 162 ☐ 163 ☐ 164 ☐ 165 ☐ 166 ☐ 167 ☐ 168 ☐ 169 ☐ 170 ☐ 171 ☐ 172 ☐ 173 ☐ 174 ☐ 175 ☐ 176 ☐ 177 ☐ 178 ☐ 179 ☐ 180 ☐ 181 ☐ 182 ☐ 183 ☐ 184 ☐ 185 ☐ 186 ☐ 187 ☐ 188 ☐ 189 ☐ 190 ☐ 191 ☐ 192 ☐ 193 ☐ 194 ☐ 195 ☐ 196 ☐ 197 ☐ 198 ☐ 199 ☐ 200 ☐ 201 ☐ 202 ☐ 203 ☐ 204 ☐ 205 ☐ 206 ☐ 207 ☐ 208 ☐ 209 ☐ 210 ☐ 211 ☐ 212 ☐ 213 ☐ 214 ☐ 215 ☐ 216 ☐ 217 ☐ 218 ☐ 219 ☐ 220 ☐ 221 ☐ 222 ☐ 223 ☐ 224 ☐ 225 ☐ 226 ☐ 227 ☐ 228 ☐ 229 ☐ 230 ☐ 231 ☐ 232 ☐ 233 ☐ 234 ☐ 235 ☐ 236 ☐ 237 ☐ 238 ☐ 239 ☐ 240 ☐ 241 ☐ 242 ☐ 243 ☐ 244 ☐ 245 ☐ 246 ☐ 247 ☐ 248 ☐ 249 ☐ 250 ☐ 251 ☐ 252 ☐ 253 ☐ 254 ☐ 255 ☐ 256 ☐ 257 ☐ 258 ☐ 259 ☐ 260 ☐ 261 ☐ 262 ☐ 263 ☐ 264 ☐ 265 ☐ 266 ☐ 267 ☐ 268 ☐ 269 ☐ 270 ☐ 271 ☐ 272 ☐ 273 ☐ 274 ☐ 275 ☐ 276 ☐ 277 ☐ 278 ☐ 279 ☐ 280 ☐ 281 ☐ 282 ☐ 283 ☐ 284 ☐ 285 ☐ 286 ☐ 287 ☐ 288 ☐ 289 ☐ 290 ☐ 291 ☐ 292 ☐ 293 ☐ 294 ☐ 295 ☐ 296 ☐ 297 ☐ 298 ☐ 299 ☐ 300 ☐ 301 ☐ 302 ☐ 303 ☐ 304 ☐ 305 ☐ 306 ☐ 307 ☐ 308 ☐ 309 ☐ 310 ☐ 311 ☐ 312 ☐ 313 ☐ 314 ☐ 315 ☐ 316 ☐ 317 ☐ 318 ☐ 319 ☐ 320 ☐ 321 ☐ 322 ☐ 323 ☐ 324 ☐ 325 ☐ 326 ☐ 327 ☐ 328 ☐ 329 ☐ 330 ☐ 331 ☐ 332 ☐ 333 ☐ 334 ☐ 335 ☐ 336 ☐ 337 ☐ 338 ☐ 339 ☐ 340 ☐

LAM 015697



O-2801 (REV. 3-85)

[illegible]

LAM 015699

NAME: <u>Blank</u>		1 ☐ PERSONAL - TWA		1 ☐ CHARCOAL TUBE		CODE	NAME	\$	RESULT	UNIT	
SAMPLED		2 ☐ PERSONAL - PEAK		2 ☐ FILTER (RESP.)		900508	Asbestos			1 ☐ PMV 5 ☐ MG	
SOCIAL SECURITY NUMBER		3 ☐ AREA		3 ☐ FILTER (TOTAL)						2 ☐ MG/M ³ 6 ☐ FIBER	
EMPLOYEE NUMBER		4 ☐ BLANK		4 ☐ IMPINGER						3 ☐ PPBV 7 ☐ % WT	
JEP OR AREA CODE		5 ☐ BULK		5 ☐ PASSIVE DOSIMETER						4 ☐ FIBER/CC 8 ☐ % VOL	
JOB TITLE		6 ☐ LAB CONTROL		6 ☐ SILICA GEL						9 ☐ G/m ³	
EMPLOYER COMPANY	<u>Shell Oil</u>	7 ☐ SOURCE		7 ☐ PACKED TUBE							
LOCATION (SHELL FACILITY OR OTHER)	<u>E-050</u>	8 ☐ PERSONAL - TASK		8 ☐ _____							
AREAL UNIT DESCRIPTION		POSSIBLE INTERFERENCES/INSTRUCTIONS									
OPERATING CONDITION/OPERATION		BAROMETER	30.0	IN HG	TEMPERATURE	86	°F				
		WIND	55	MPH	HUMIDITY	70	% RH				
START TIME		SAMPLE NO.	<u>01-BLK-A</u>		SAMPLED BY	<u>CD. Knepper</u>		PHONE	<u>476-7720</u>		
		DESCRIPTION OF COLLECTOR (Mfg., Lot No., Etc.)		<u>25mm 0.8 µm HCE</u>		RETURN RESULTS TO		<u>CD. Knepper ECH 116</u>			
INSTRUMENT TYPE		SERIAL NO.			COMMENTS						
CALIBRATION DATA		BY		REFERENCE/METHOD	DATE						
INITIAL		INITIAL		INITIAL							
COUNTER READING		VOLUME PER COUNT		FLOW RATE							
FINAL		FINAL		FINAL							
NET		INITIAL		INITIAL							
SAMPLING TIME		AVG.		AVG.							
MIN		SAMPLING VOLUME		LITERS							
DID ANY SIGNIFICANT SKIN CONTACT OCCUR?		☐ YES ☐ NO		DID A RESPIRATOR WORN DURING SAMPLE TO CONTROL EXPOSURE?		☐ YES ☐ NO					
LENGTH OF SHIFT		_____ MIN.		DOES THIS SAMPLE REPRESENT EXPOSURE OVER THE ENTIRE SHIFT?		☐ YES ☐ NO					
IF NO, COMPLETE THE FOLLOWING:				INCLUDE RESULTS FROM _____ ADDITIONAL SAMPLES (ATTACHED)							
ASSIGN ZERO EXPOSURE FOR _____ MINUTES OF SHIFT DURING PERIOD NOT SAMPLED.				TWA CANNOT BE CALCULATED FROM THESE SAMPLES.							
CLASSIFIED BY				DATA CLASSIFICATION							
REVIEWED BY											

DPMC-04644



O-2801 (REV. 3-85)
INDUSTRIAL HYGIENE
SAMPLING FORM

[illegible]

LAM 015703

[illegible][illegible]





2001 (BFI) 2001

INDUSTRIAL HYGIENE
SAMPLING FORM
O-2601 (REV. 3-85)

[illegible]

LAM 015707

ANALYTICAL REPORT				DATE RECEIVED		DATE REPORTED		METHOD CODE		NO. OF ANALYSES	
CONDITION OF SAMPLE		29-3		9/9/86		ASB0070m		1		1HL	
ANALYZED BY		SN 22512 IH		9/6/86		LAB RECORD NO.		ACCOUNT NO.		881-82712-00	
METHOD REFERENCE											
NIOSH 7400 (modified)											
COMMENT											
OHL 07293											
RESULTS											
USE < LIMIT OF DETECTION (NOT N.D.)											
APPROVALS											
OHL											
DPMC-04651											

OPERATIONAL CODES		COMMENT CODES		PPE (specify types in Comments section)	
OPERATING CONDITION CODE (01-15)		Monitoring Problems		02	
(For TWA Samples)		Pump/dosimeter malfunctioned		55	
Normal		Initial and final flow rates differ by > 10%		14	
Startup		Pump may have not run for entire sampling period		03	
Upset/spill/leak		Monitoring Conditions		04	
Shutdown/turnaround		Monitoring in conjunction with government agency		05	
Maintenance		Local ventilation system in work area		06	
Other (specify in written Comments section)		Major engineering changes made		08	
OPERATION CODE (16-60)		Random sample		09	
(For Peak or Task Samples)		Worst case situation		43	
Operations		Duplicate sample		28	
Handling/disposal of product/process sample(s)		Analysis		20	
Working around spill/leak		Sample lost in shipment		23	
Gauging tank(s)		Sample lost in analysis		35	
Analyzing product/process sample(s)		Sample arrived contaminated/damaged		21	
Collecting product/process sample(s)		Incorrect sample collector used		61	
Other Operating Tasks (specify in Comments section)		Interference by other compound suspected		56	
Maintenance		Sample shipped cold arrived ambient		60	
Entry/work in confined space		Reported result is minimum value due to possible sample loss/breakthrough			
Removing insulation		Result corrected for recovery/desorption efficiency of < 75%			
Applying insulation					
Breaking into process line					
Changing product/process filters					



O-2801 (REV. 3-85)

INDUSTRIAL HYGIENE SAMPLING FORM

DPMC-04652

LAM 015709



100

INDUSTRIAL HYGIENE SAMPLING FORM

NAME OF EMPLOYEE SAMPLED		1 ☐ PERSONAL-TWA		1 ☐ CHARCOAL TUBE		CODE	NAME	5	RESULT	UNIT
SOCIAL SECURITY NUMBER	2 ☐ PERSONAL-PEAK	2 ☐ FILTER (RESP)	2 ☐ FILTER (TOTAL)	2 ☐ IMPINGER	3 ☐ PASSIVE DOSIMETER	70068	Labrador	<	0.01	8 ☐ MG
EMPLOYEE NUMBER	3 ☐ AREA	4 ☐ PASSIVE DOSIMETER	4 ☐ IMPINGER	5 ☐ SILICA GEL	7 ☐ PACKED TUBE					9 ☐ FIBER
JEP OR AREA CODE	5 ☐ BULK	6 ☐ LAB CONTROL	7 ☐ SOURCE	8 ☐ PERSONAL-TASK	9 ☐ PERSONAL-TASK					10 ☐ WT
JOB TITLE	6 ☐ LAB CONTROL	7 ☐ SOURCE	8 ☐ PERSONAL-TASK	9 ☐ PERSONAL-TASK	10 ☐ PERSONAL-TASK					11 ☐ VOL
EMPLOYER'S COMPANY	POSSIBLE INTERFERENCE/INSTRUCTIONS									
LOCATION (SHELL FACILITY OR OTHER)	BAROMETER									
AREA/UNIT DESCRIPTION	30.15 IN. HG		TEMPERATURE 68 °F		SAMPLE NO.		CE-BUEA-5-2		SAMPLED BY	
OPERATING CONDITION/OPERATION	WIND 11.9 MPH		HUMIDITY 84 % RH		DESCRIPTION OF COLLECTOR (MFG, LOT NO., ETC.)		0.8 MCE		RETURN RESULTS TO	
START TIME	DPMc-04654									

LAM 015711

CONDITION OF SAMPLE		DATE RECEIVED	DATE REPORTED	METHOD CODE	NO. OF ANALYSES
☒ OK	☐ SEE BELOW	19-3	24-4	ASBOM	1
ANALYZED BY		DATE ANALYZED		LAB RECORD NO.	ACCOUNT NO.
G. H. denonville		6-12-86		LE/1980-pg. #49	881-82712-00
METHOD/REFERENCE					
N1054 PACANA39					

RESULTS		USE < LIMIT OF DETECTION (NOT N.D.)		APPROVALS	1986M
☐ PPMV	☐ MG/M ³	☐ MG	☐ MG		
☐ PPBV	☐ μG/M ³	☐ μG	☐ μG		
Blank = 2001 + field					
DPMC-04655					

OPERATIONAL CODES

OPERATING CONDITION CODE (01-15)

(For TWA Samples)

- 01 Normal
- 02 Startup
- 03 Upset/spill/leak
- 05 Shutdown/turnaround
- 06 Maintenance
- 08 Other (specify in written comments section)

OPERATION CODE (16-60)

(For Peak or Task Samples)

- Operations
- Handling/disposal of product/process sample(s)
- Working around spill/leak
- Gauging tank(s)
- Analyzing product/process sample(s)
- Collecting product/process sample(s)
- Other Operating Tasks (specify in comments section)
- Maintenance
- Entry/work in confined space
- Removing insulation
- Applying insulation
- Breaking into process line
- Changing product/process filters

Maintenance (Continued)

- 01 Installing/removing blinds
- 02 Cleaning equipment (draining, purging, decontaminating)
- 03 Tank/equipment inspection (involving entry)
- 05 Degreasing/solvent washing
- 06 Welding/grinding/cutting
- 08 Painting
- Abrasive blasting
- Carpentry
- Other mechanical work (specify in comments section)

Loading/Shipping

- 53 Filling drum(s)
- 34 Emptying drum(s)
- 31 Filling container(s) (sacks, bins, etc.)
- 24 Emptying container(s) (sacks, bins, etc.)
- 17 Loading tank truck(s)
- 36 Unloading tank truck(s)
- 16 Loading tank car(s)
- 21 Unloading tank car(s)
- 54 Loading barge(s)
- 23 Unloading barge(s)
- 26 Loading ship
- Unloading ship

COMMENT CODES

Monitoring Problems

- 55 Pump/dosimeter malfunctioned
- 37 Initial and final flow rates differ by > 10%
- 28 Pump may have not run for entire sampling period

Monitoring Conditions

- 56 Monitoring in conjunction with government agency
- 43 Local ventilation system in work area
- 44 Major engineering changes made
- 22 Random sample
- 57 Worst case situation
- 35 Duplicate sample

Analysis

- 18 Sample lost in shipment
- 49 Sample lost in analysis
- 50 Sample arrived contaminated/damaged
- 51 Incorrect sample collector used
- 20 Interference by other compound suspected
- 46 Sample shipped cold arrived ambient
- 19 Reported result is minimum value due to possible sample loss/breakthrough
- 45 Result corrected for recovery/desorption efficiency of < 75%

PPE (specify types in comments section)

- 02 Respirator worn
- 55 Gloves worn
- 14 Protective clothing worn

IT Monterey County Coastall
Analysa Blauk 130300 061
CY/10/05/55 1786 224.3

LAM 015660