

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR= R. KLOCKMANN

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

BLANK - 1

TOTAL NUMBER OF FIELDS COUNTED	26,	
FIELD SIZE	0.083842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0,	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855,	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0,	
AIR FLOW	0.000	LITERS PER MINUTE
SAMPLING TIME	0,	MINUTES
TOTAL VOLUME OF AIR SAMPLED	0.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

DATE= 11-18-1976
COUNTED BY= JOHN RUPRECHT
REQUEST NO, 002378

LAM000070

MAP 04239

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR= R. KLOCKMANN

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

BLANK - 2

TOTAL NUMBER OF FIELDS COUNTED	22	
FIELD SIZE	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	655	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0	
AIR FLOW	0.000	LITERS PER MINUTE
SAMPLING TIME	0	MINUTES
TOTAL VOLUME OF AIR SAMPLED	0.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE= 11-10-1976
COUNTED BY= JOHN RUPRECHT
REQUEST NO. 002370

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R. KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

BLANK - 3

TOTAL NUMBER OF FIELDS COUNTED	28	
FIELD SIZE	0.003042	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0	
AIR FLOW	0.000	LITERS PER MINUTE
SAMPLING TIME	0	MINUTES
TOTAL VOLUME OF AIR SAMPLED	0.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

DATE- 11-10-1976
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 002370

MAP 04241

LAM000072

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER

MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

SAB - 1

8-18-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	26.	65.
TOTAL NUMBER OF FIBERS COUNTED =	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER =	0.	

AIR FLOW =	1.300	LITERS PER MINUTE
SAMPLING TIME =	210.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	273.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978 REQUEST NO. 003453
FIELD SIZE = 0.003842 SQ. MM FILTER SIZE = 835. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JOPASB VERSION 003

MAP 04242

LAM000073

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00950	78
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001 + 002 = TWA

REMARKS:

DATE:

1.0	CHOC BAYOU	SAB	ROUTINE
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02	2.0	001	ASBESTOS	001332214	05	2.00	UG	0.00	21P
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3.0	001	01078	5151 AREA	AUG	1978	F	S
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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

4.0							
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STANDARD TYPES
OS-OSHA
TL-TLV
DM-DMEH
B-Biologic
OT-Other

UNIT CODES
MG-MG/Cu.M.
UG-U/Cu.M.
PP-Parts Per Million
PB-Parts Per Billion
OT-Other
DB-Decibel

SAMPLE TYPES
P-Personal
B-Breathing Zone
G-General Area
S-Source Sample
F-Fixed Point
O-Other

DETERMINATION TYPES
T-TWA
S-Steel
C-Ceiling
O-Other
N-Not Applicable

MEASUREMENT TYPES
F-Full Period Single
C-Full Period Continuous
P-Partial Period
S-Single Grab
G-Series Grab
O-Other

COLLECTION DEVICE CODES
G-Grab Sample
F-Filter
D-Direct Reading Inst.
T-Detector Tube
N-Dosimeter
A-Adsorption Tube
I-Impinger/Bubbler

ANALYSIS CODES
C-Chromatography
S-Spectrophotometry
G-Gravimetric
E-Ion Specific Electrode
X-Ray Diffraction
A-Colorimetric
O-Other

CONTROL CODES
LE-Local Exhaust
PT-Protective Equipment
RE-Respirator
OT-Other
ND-None

MAP 04243

LAM000074

LAM000075

Sample By JC Edwards Sample Collector _____ Weather Temp. _____
Tube No. _____ Mfg. MSA Humid. _____
Pump No. 2 Serial No. _____ Wind Speed _____
Start Time 0810 Calibration 1.3 d/m Wind Direction _____
Stop Time 1140 Calib By _____
Net Minutes 210 Date _____
CTS. Start _____ Refer _____
CTS. Stop _____
Net _____
Volume Pumped 2730
Inst. Cal. At _____
Volume Corr. _____

Analysis CVI Poss. Int. _____

Analysis By _____

HA	0046	00050	78
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REMARKS:

001 t 002 = TWA

DATE:

1.0	CHOC BAYOU	SAB	ROUTINE
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02	002	ASBESTOS	001332214	05	200	UG	202	224
	2.0							
	2.0							
	2.0							
	2.0							
	2.0							
	2.0							
	2.0							

3.0	002	81978	51 S1 AREA	6	7	9	P	S
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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

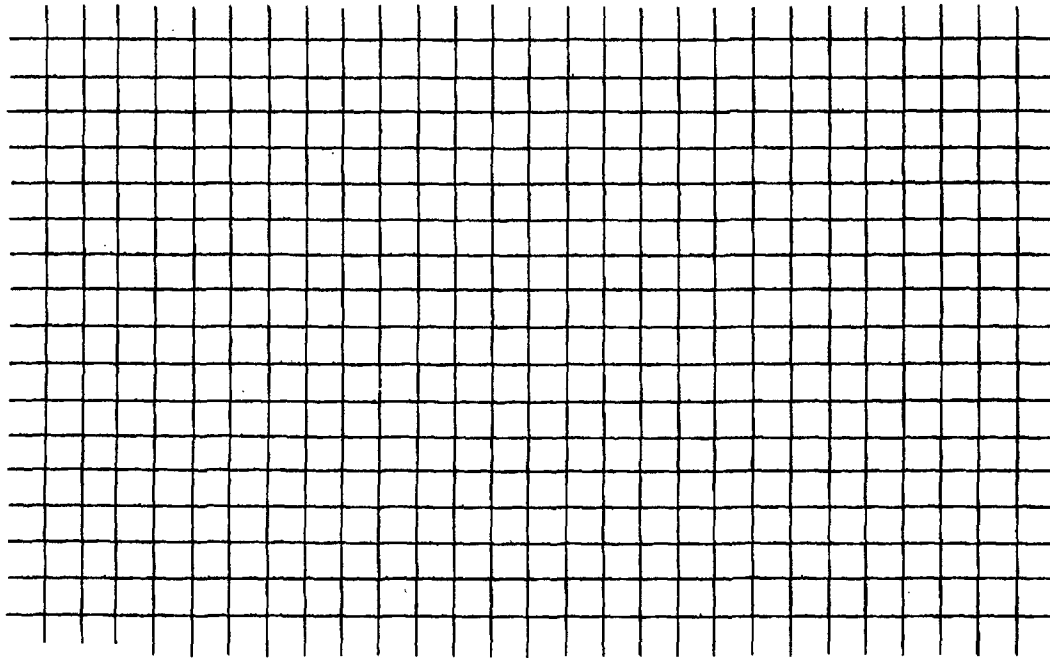
4.0								
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION METHODS	ANALYSIS CODES	CONTROL CODES
DS-OSHA TL-TLV DM-DMEH B-Biologic OT-Other	MG-MG/Cu.M. UG-1/1/Cu.M. PP-Parts Per Million PB-Parts Per Billion OT-Other DS-Dichel	P Personal B Breathing Zone G-General Area S-Source Sample F Fixed Point OT-Other	T TWA S Steel C Ceiling OT-Other N Not Applicable	F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab OT-Other	G Grab Sample F Filter D Diffusion T Detector Tube N Dosimeter A Adsorption Tube I Impinger/Bubbler OT-Other	S Spectroscopy G Gravimetric E Ion Specific X X-ray Diffraction A Colorimetric OT-Other	LE Local Exhaust PT Protective Equipment HE-Respirator OT-Other ND None

MAP 04245

LAM000076

AREA SKETCH AND COMMENTS



Sample By JCE Sample Collector _____ Weather Temp. _____
 Tube No. _____ Mfg. MSA Humid. _____
 Pump No. 2 Serial No. _____ Wind Speed _____
 Start Time 1140 Calibration 1.32/m Wind Direction _____
 Stop Time 1524 Calib By _____
 Net Minutes 224 Date _____
 CTS. Start _____ Refer _____
 CTS. Stop _____
 Net _____
 Volume Pumped 291.2
 Inst. Cal. At _____
 Volume Corr. _____
 Analysis _____ CVT _____ Poss. Int. _____
 Analysis By _____

MONSANTO COMPANY

CORPORATE RESEARCH LABORATORY

PHYSICAL SCIENCES CENTER

MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

SAB - 2
8-10-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED	31.	65.
TOTAL NUMBER OF FIBERS COUNTED	1.	0.
AVERAGE NUMBER OF FIBERS PER FIELD	0.032	0.000
TOTAL NUMBER OF FIBERS ON FILTER	7011.	0.
CORRECTED NUMBER OF FIBERS ON FILTER	7011.	

AIR FLOW	1,300	LITERS PER MINUTE
SAMPLING TIME	224.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	291,200	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.024

DATE 8-28-1978

REQUEST NO. 003433

FIELD SIZE = 0.003042 SQ. MM

FILTER SIZE = 835. SQ. MM

COUNTED BY JOHN RUPRECHT

John Ruprecht

COMPUTED BY PROGRAM JOFASB VERSION 005

MAP 04247

LAM000078

REMARKS:

DATE:

SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

MAP 04248

LAM000079

[illegible]

AREA SKETCH AND COMMENTS

Sample By	JCE	Sample Collector		Weather Temp.	
Tube No.		Mfg.	NSA	Humid.	
Pump No.	1	Serial No.		Wind Speed	
Start Time	1022	Calibration	22/may	Wind Direction	
Stop Time	1037	Calib By			
Net Minutes	15	Date			
CTS. Start		Refer			
CTS. Stop					
Net					
Volume Pumped	300				
Inst. Cal. At					
Volume Corr.					
Analysis		CVT		Poss. Int.	
				Analysis By	

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR: J. C. EDWARDS

LOCATION: CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

SAB - 3
8-10-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	26.	65.
TOTAL NUMBER OF FIBERS COUNTED =	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER =	0.	

AIR FLOW =	2.000	LITERS PER MINUTE
SAMPLING TIME =	15.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	30.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978 REQUEST NO. 003833
FIELD SIZE = 0.003842 SQ. MM FILTER SIZE = 835. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04250

LAM000081

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00050	76	REMARKS:
DATE: _____				

1.0	CHOC BAYOU	SAB	ROUTINE
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02	2A	001	APB ESTES	1332314	TC	200	07	00	261
	2A								
	2A								
	2A								
	2A								
	2A								
	2A								
	2A								

3.0	001	111876	GENERAL AREA	SHIFT 1 = Day 2 = Evening 3 = Night 4 = Undetermined
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4.0				
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
DS-OSHA TL-TLV DM-DMEH BI-Biologic OT-Other	MG/MG/CU.M. UG-1/1000 PB-Parts Per Billion PT-Other DB-Direct	P Personal B Breathing Zone G General Area S Source Sample F Fixed Point O Other	T TWA S Steel C Ceiling O Other N Not Applicable	F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	G Grab Sample F Filter D Direct Reading Inst T Detector Tube N Dosimeter A Adsorption Tube I Impinger/Bubbler	C Chromatography S Spectroscopy G Gravimetric E Ion Specific X X-ray Diffraction A Colorimetric O Other	LE Local Exhaust PT Protective Equipment RE Respirator OT Other NO None

MAP 04251

LAM000082

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R. KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

3
S A B

TOTAL NUMBER OF FIELDS COUNTED	23.	
FIELD SIZE	0.003642	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0.	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0.	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	261.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	522.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

DATE- 11-18-1976
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 002370

MAP 04252

LAM000083

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR= J. C. EDWARDS

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

GEN = 2
8-10-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	22.	65.
TOTAL NUMBER OF FIBERS COUNTED =	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER =	0.	

AIR FLOW =	2.000	LITERS PER MINUTE
SAMPLING TIME =	20.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	40.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978

REQUEST NO. 003433

FIELD SIZE = 0.003842 SQ. MM

FILTER SIZE = 635. SQ. MM

COUNTED BY JOHN RUPRECHT

COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04253

LAM000084

MONSANTO COMPANY

CORPORATE RESEARCH LABORATORY

PHYSICAL SCIENCES CENTER

MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR= J. C. EDWARDS

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

GEN = 1
8-10-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	25,	65,
TOTAL NUMBER OF FIBERS COUNTED =	0,	0,
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0,	0,
CORRECTED NUMBER OF FIBERS ON FILTER =	0,	

AIR FLOW =	2.000	LITERS PER MINUTE
SAMPLING TIME =	15,	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	30.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-20-1978

REQUEST NO. 003433

FIELD SIZE = 0.003842 SQ. MM

FILTER SIZE = 835, SQ. MM

COUNTED BY JOHN RUPRECHT *John Ruprecht*

COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04255

LAM000086

Monsanto

MAP 04256

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

REMARKS: ANALYSIS I → UTILITIES → ETH → HC

DATE: _____

CHOC. BAYOU PLT. GEN. ROUTINE

02	2.0	0.01	ASBESTOS	001332214	05	2.00	UG	0.00	15
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								

SHIFT: 1 = Day 2 = Evening 3 = Night 4 = Undetermined

2.0 0.01 2.0 0.01 2.0 0.01 2.0 0.01 2.0 0.01

STANDARD TYPES: OS-OSHA TL-TLV DM-DMH BT-Biologic OT-Other

UNIT CODES: MG-MG/Cu.M. UG-1/Cu.M. PP-Parts Per Million PB-Parts Per Billion OT-Other DB-Decibel

SAMPLE TYPES: P-Personal B-Breathing Apparatus G-General Area S-Source Sampling F-Fixed Point Other N-Not Applicable

MEASUREMENT TYPES: F-Full Period Single C-Full Period Consecutive P-Partial Period S-Single Grab G-Series Grab Other

COLLECTION DEVICE CODES: G-Grab Sample F-Filter D-Direct Reading Inst. T-Duct for Tube N-Dosimeter A-Adsorption Tube

ANALYSIS CODES: C-Chromatography S-Spectroscopy G-Gravimetric E-Ion Spectroscopy X-Ray Diffraction A-Colorimetric

CONTROL CODES: LE-Local Exhaust PT-Protective Equipment RE-Respirator OT-Other N-None

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA

0046

00085

76

REMARKS:
CHOCOLATE BAYOU
MIDD

DATE:

1.0

CHOC BAYOU

RESINS

ROUTINE

02 20 20 20 20 20 20 20 20

001

ASBESTOS

1332214

TL

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90 363

3.0

001

11 1876

GENERAL AREA

GENERAL AREA

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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

4.0

001

11 1876

GENERAL AREA

GENERAL AREA

GENERAL AREA

GENERAL AREA

STANDARD TYPES
OS-OSHA
TL-TLV
DM-DMEH
B-Biologic
OT-Other

UNIT CODES
MG/MG/CU.M.
PP-Parts Per Million
PB-Parts Per Billion
OT-Other

SAMPLE TYPES
P Personal
B Breathing Zone
G General Area
S Source Sample
F Fixed Point
O Other

DETERMINATION TYPES
T TWA
S Steel
C Ceiling
O Other
N Not Applicable

MEASUREMENT TYPES
F Full Period Single
C Full Period Consecutive
P Partial Period
S Single Grab
G Series Grab
O Other

COLLECTION DEVICE CODES
G Grab Sample
F Filter
O Direct Reading Inst.
T Detector Tube
N Dosimeter
A Adsorption Tube
I Inhaler/Bubbler

ANALYSIS CODES
C Chromatography
S Spectroscopy
G Gravimetric
E Ion Spectrometry
X X-ray Diffraction
A Colorimetric
O Other

CONTROL CODES
LE Local Exhaust
PT Protective Equipment
RE Respirator
OT Other
N None

MAP 04257

LAM000088

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R. KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

9
D P O

TOTAL NUMBER OF FIELDS COUNTED :	30,	
FIELD SIZE :	0.003042	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED :	2,	
AVERAGE NUMBER OF FIBERS PER FIELD :	0.067	
AREA OF FILTER :	855,	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER :	14636,	
AIR FLOW :	2,000	LITERS PER MINUTE
SAMPLING TIME :	260,	MINUTES
TOTAL VOLUME OF AIR SAMPLED :	520.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR : 0.029

SOME DIATOMS WERE OBSERVED

DATE- 11-10-1976
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 0023701

MAP 04258

LAM000089

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00005	76	REMARKS:	DATE: 10/27/76
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1.0	CHOC BAYOU	RESINS	ROUTINE
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02	2.0	90.2	AFS BRESTOS	1332314	TL	300	DT	03	260
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								

3.0	90.2	111876	PROP AREA	9	7	F	F	5	SHIFT
									1 = Day
									2 = Evening
									3 = Night
									4 = Undetermined

4.0									
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION OF VICE CODES	ANALYSIS CODES	CONTROL CODES
OS-OSHA TL-TLV O4-OMEH B-Biologic OT-Other	MG/MG/CU.M. UG-1/CU.M. PP Parts Per Million PB Parts Per Billion OT-Other	P Personal B Breathing Zone G General Area S Source Sample F Fixed Point	T TWA S Steel C Ceiling O Other N Not Applicable	F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	G Grab Sample F Filter D Direct Reading Inst T Detector Tube N Dosimeter A Adsorption Tube O Other	C Chromatography S Spectroscopy G Gravimetric E Ion Specific Electrode X X-ray Diffraction A Colorimetric O Other	LE Local Exhaust PT Protective Equipment HE Respirator OT Other ND None

MAP 04259

LAM000090

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR: R. KLOCKMANN

LOCATION: CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

8

RESINS

TOTAL NUMBER OF FIELDS COUNTED	29	
FIELD SIZE	0.003042	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	263	MINUTES
TOTAL VOLUME OF AIR SAMPLED	526.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

DATE: 11-10-1976
COUNTED BY: JOHN RUPRECHT
REQUEST NO. 002378

MAP 04260

901

LAM000091

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR: J. C. EDWARDS

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

SHOP = 6
8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	20.	65.
TOTAL NUMBER OF FIBERS COUNTED =	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER =	0.	

AIR FLOW =	2.000	LITERS PER MINUTE
SAMPLING TIME =	15.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	30.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE: 8-28-1978 REQUEST NO. 003433
FIELD SIZE = 0.003842 SQ. MM FILTER SIZE = 855. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04261

LAM000092

MAP 04262

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	0099.9	78	REMARKS:
DATE: _____				

1.0	CHOC BAYOU	MAINT - SH. 6	ROUTINE
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02	2.0	002	ASBESTOS	001332214	05	200	UG	000	15
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								

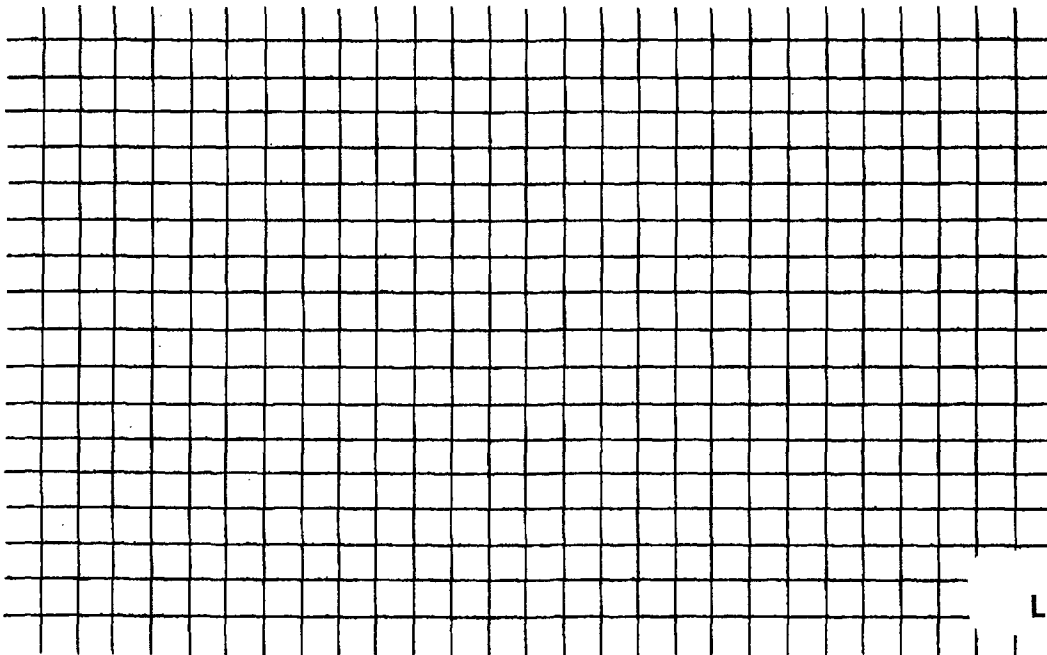
3.0	002	81178	SHOP 6, BELOW GASKET RACK	VERIFIED	SHIFT 1 = Day 2 = Evening 3 = Night 4 = Undetermined
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4.0					
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION CODES	ANALYSIS CODES	CONTROL CODES
OS-OSHA TL-TLV DM-DMH BI-Biologic OT-Other	MG-MG/Cu.M. UG-1/Cu.M. PP-Parts Per Million PB-Parts Per Billion OT-Other DB-Dechlor	P Personal B Breathing Zone G General Area S Source Sample F Fixed Point O Other	T TWA S Steel C Ceiling O Other N Not Applicable	F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	G Gravimetric F Filter D Direct Reading Inst. T Detector Tube N Dosimeter A Adsorption Tube F Fluorescence/Indicator	C Chromatography S Spectroscopy G Gravimetric E Ion Specific Electrode X X-ray Diffraction A Colorimetric	LE Local Exhaust PT Protective Equipment RE Respirator OT Other NO None

LAM000093

AREA SKETCH AND COMMENTS



LAM000094

MAP 04263

Sample By <u>JCE</u>	Sample Collector	Weather Temp. _____
Tube No. _____	Mfg. <u>USA</u>	Humid. _____
Pump No. <u>1</u>	Serial No. _____	Wind Speed _____
Start Time <u>0930</u>	Calibration <u>22 June</u>	Wind Direction _____
Stop Time <u>0945</u>	Calib By _____	_____
Net Minutes <u>15</u>	Date _____	_____
CTS. Start _____	Refer _____	_____
CTS. Stop _____	_____	_____
Net _____	_____	_____
Volume Pumped <u>30</u>	_____	_____
Inst. Cal. At _____	_____	_____
Volume Corr. _____	_____	_____
Analysis _____	CVT _____	Poss. Int. _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	Analysis By _____
_____	_____	_____
_____	_____	_____
_____	_____	_____

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

SHOP - 4
8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED	22.	65.
TOTAL NUMBER OF FIBERS COUNTED	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER	0.	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	15.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	30.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-26-1978 REQUEST NO. 003433
FIELD SIZE = 0.003642 SQ. MM FILTER SIZE = 835. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04264

LAM000095

AREA SKETCH AND COMMENTS

A full-page view of a blank sheet of white graph paper. The grid consists of thin black horizontal and vertical lines forming small squares. There are approximately 20 columns and 20 rows of squares across the page.

Sample By	JCE	Sample Collector		Weather Temp.	
Tube No.		Mfg.	MSA	Humid.	
Pump No.	1	Serial No.		Wind Speed	
Start Time	0930	Calibration	22/min	Wind Direction	
Stop Time	0945	Calib By			
Net Minutes	15	Date			
CTS. Start		Refer			

Analysis

CVT

Poss. Int.

Analysis By:

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R. KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

5
PHENOL

TOTAL NUMBER OF FIELDS COUNTED	28	
FIELD SIZE	0.003642	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	655	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	250	MINUTES
TOTAL VOLUME OF AIR SAMPLED	516.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

DATE- 11-10-1976
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 002370

MAP 04267

801

LAM000098

DATA TRANSMITTAL FORM

REMARKS:	DATE:
0046 000060 76	HA 0046 000060 76

[illegible]

02	20	001	ASBESDS	1332214	7L	200	001	00	2552
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[illegible][illegible]

SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
OS-OSH	UG-11/Cu.M.	P-Personal	T TWA	F Full Period Single	G Grab Sample	S Chromatography	LE Local Exhaust
TL-TLV	MG-/Cu.M.	B Breathing Zone	S Steel	C Full Period Consecutive	F Filter	S Spm Isotropy	P T Protective Equipment
PE-Parts Per Million	PE-Parts Per Million	G General Area	C Ceiling	P Partial Period	D Direct Reading Inst.	G Gravimetric	HE Respirator
PB-Parts Per Billion	PB-Parts Per Billion	S-Source Sample	Ø Other	S Simple Grab	T Detector Tube	E Ion Specific Elec Probe	Ø T Other
Ø T-Other	Ø T-Other	F Fixed Point	N Not Applicable	G Series Grab	N Dosimeter	X X-ray Detection	NØ None
ØB-Decibel	ØB-Decibel	Ø Other		Ø Other	A Adsorption Tube	A Colorimetric	
					I Impinger/Bubbler	Ø Other	

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

PHENOL - 6
8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED	21.	65.
TOTAL NUMBER OF FIBERS COUNTED	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER	0.	

AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	10.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	30.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978 REQUEST NO. 003433
FIELD SIZE = 0.003842 SQ. MM FILTER SIZE = 835. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JOFASB VERSION 005

MAP 04269

LAM000100

**CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM**

REMARKS:

DATE: _____

0046 00060 78

HA

1.0 0404 80904

PHENOC

5/D

02	20	006	ASBESTOS	001332214	006	200	UG	000	15
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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

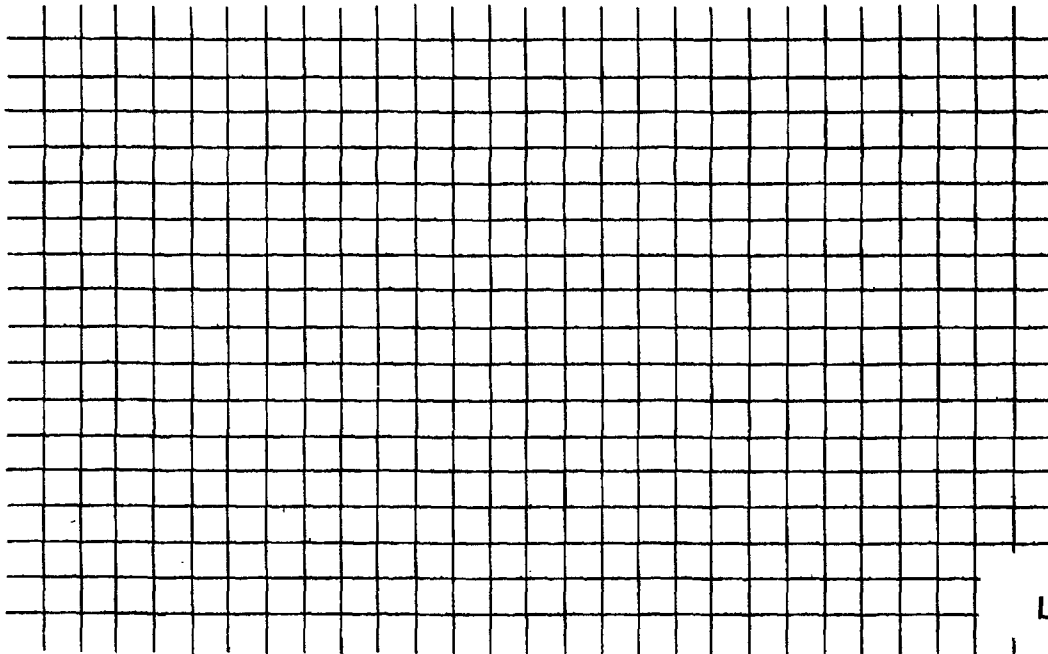
40 506

ITD HIG 7076

40 1

STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
OS-OSHA	MG-MG/Cu.M.	P Personal	T TWA	F Full Period Single	G Grab Sample	C Chronotography	LE Local Exhaust
TL-TLV	UG-1/Cu.M.	B Breathing Zone	S Steel	C Full Period Consecutive	F Filter	S Spectroscopy	PT Protective Equipment
DM-DMEH	PP-Parts Per Million	G-General Area	O Oathing	S Single period	T Direct Reading Inst.	G Gravimetric	RE Respirator
BI-Bilogic	PB Parts Per Billion	S Source Sample	C Catching	S Single Grab	T Detector Tube	E Unit Specific	QT Other
OT-Other	OT-Other	F Fixed Point	N Nephelometric	G Series Grab	N Dosimeter	X X-ray Diffraction	NØ None
		Ø Other		Ø Other	A Adsorption Tube	A Colorimetric	
					I Impinger/Bubbler	Ø Other	

AREA SKETCH AND COMMENTS



LAM000102

Sample By <u>JCI</u>	Sample Collector	Weather Temp. _____
Tube No. _____	Mfg. <u>MSA</u>	Humid. _____
Pump No. <u>1</u>	Serial No. _____	Wind Speed _____
Start Time <u>0855</u>	Calibration <u>32/um</u>	Wind Direction _____
Stop Time <u>0910</u>	Calib By _____	_____
Net Minutes <u>15</u>	Date _____	_____
CTS. Start _____	Refer _____	_____
CTS. Stop _____	_____	_____
Net _____	_____	_____
Volume Pumped <u>30l</u>	_____	_____
Inst. Cal. At _____	_____	_____
Volume Corr. _____	_____	_____
Analysis _____	CVT _____	Poss. Int. _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	Analysis By _____
_____	_____	_____
_____	_____	_____
_____	_____	_____

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

PHENOL - 5
8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	22.	65.
TOTAL NUMBER OF FIBERS COUNTED =	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER =	0.	

AIR FLOW =	2.000	LITERS PER MINUTE
SAMPLING TIME =	15.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	30.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978 REQUEST NO. 003433
FIELD SIZE = 0.003642 SQ. MM FILTER SIZE = 635, SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04272

LAM000103

**CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM**

REMARKS:

DATE: _____

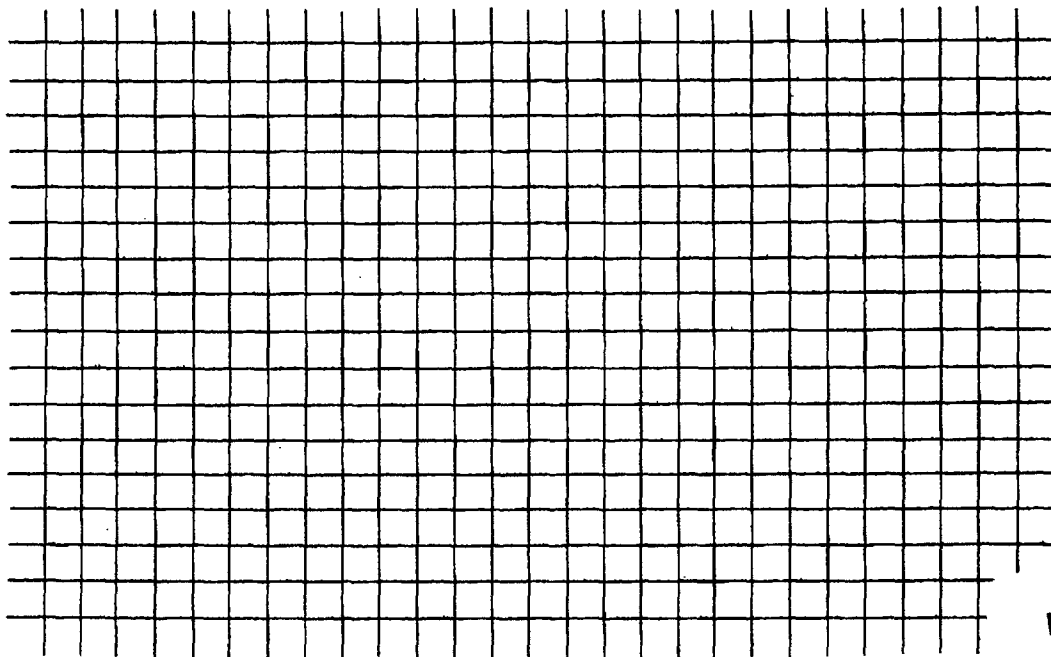
HA 0946 00060 7.8

1.0	CHOC BAYOU	PHEMOU	ROUTINE
02	ASBESTOS		001332214
2.0			05
2.0			2.00
2.0			UG
2.0			0.00
2.0			15

[illegible]

STANDARD TYPES		UNIT CODES		SAMPLE TYPES		CONTAMINANT TYPES		MEASUREMENT TYPES		COLLECTION DEVICE CODES		ANALYSIS CODES		CONTROL CODES	
OS-OSHA		MG-MG/Cu.M.		P Personal		P Personal		F Full Period		G Grab Sample		S Spectroscopy		LE Local Exhaust	
TL-TLV		UG-1/Cu.M.		B Breathing Zone		B Breathing Zone		C Full Period		F Filter		G Gravimetric		PT Protective Equipment	
DM-DMEH		PP-Parts Per Million		G General Area		G General Area		P Partial Period		D Direct Reading Inst.		E Ion Specific		RE Respirator	
BI-Biologic		PB Parts Per Billion		S Source Sample		S Source Sample		S Single Grab		T Detector Tube		X X-ray Diffraction		QT Other	
QT-Other		F Fixed Point		F Fixed Point		F Fixed Point		G Series Grab		N Dosimeter		A Colorimetric		NØ None	
OB-Decibel		Ø Other		Ø Other		Ø Other		Ø Other		I Impinger/Bubbler		Ø Other			

AREA SKETCH AND COMMENTS



Sample By JCE Sample Collector _____ Weather Temp. _____
Tube No. _____ Mfg. MSA Humid. _____
Pump No. 1 Serial No. _____ Wind Speed _____
Start Time 0810 Calibration 28/July Wind Direction _____
Stop Time 0825 Calib By _____
Net Minutes 15 Date _____
CTS. Start _____ Refer _____
CTS. Stop _____
Net _____
Volume Pumped 30
Inst. Cal. At _____
Volume Corr. _____

Analysis

CVT

Poss. Int. _____

Analysis By _____

LAM000105

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

PHENOL - 4
8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED	29.	65.
TOTAL NUMBER OF FIBERS COUNTED	1.	0.
AVERAGE NUMBER OF FIBERS PER FIELD	0.034	0.000
TOTAL NUMBER OF FIBERS ON FILTER	7494.	0.
CORRECTED NUMBER OF FIBERS ON FILTER	7494.	

AIR FLOW	1.100	LITERS PER MINUTE
SAMPLING TIME	100.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	198.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.038

DATE 8-28-1978 REQUEST NO. 003453
FIELD SIZE = 0.003842 SQ. MM FILTER SIZE = 635, SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JOFASB VERSION 005

MAP 04275

LAM000106

**CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM**

REMARKS:

$$1003 + 1004 = 2007$$

DATE:

HA	0946	00060	78	-
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10 CROC BAYON

PAEW0411

S/D

S/A

[illegible][illegible][illegible][illegible]

004

180									
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03

004

8	11	7.8
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76 AR

2,7-ACID-7H

27623



5
4
3
2
1



SHIFT
1 = Day
2 = Even
3 = Night
4 = Und

SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined



—



APPENDIX

STANDARD TYPES
OS-OSHA
TL-TLV
DM-DMEH
BI-Biologic
OT-Other

UNIT CODES
MG-MG/Cu.M.
UG-1/Cu.M.
PP-Parts Per Million
PB-Parts Per Billion
OT-Other
DB-Decimal

SAMPLE TYPES
P Personal
B Breathing Zone
G General Area
S Source Sample
F Fixed Point
O Other

DETERMINATION	
T-TWA	
S-Steel	
C-Ceiling	
Ø-Other	
N-Not Applicable	

DETERMINATION TYPES

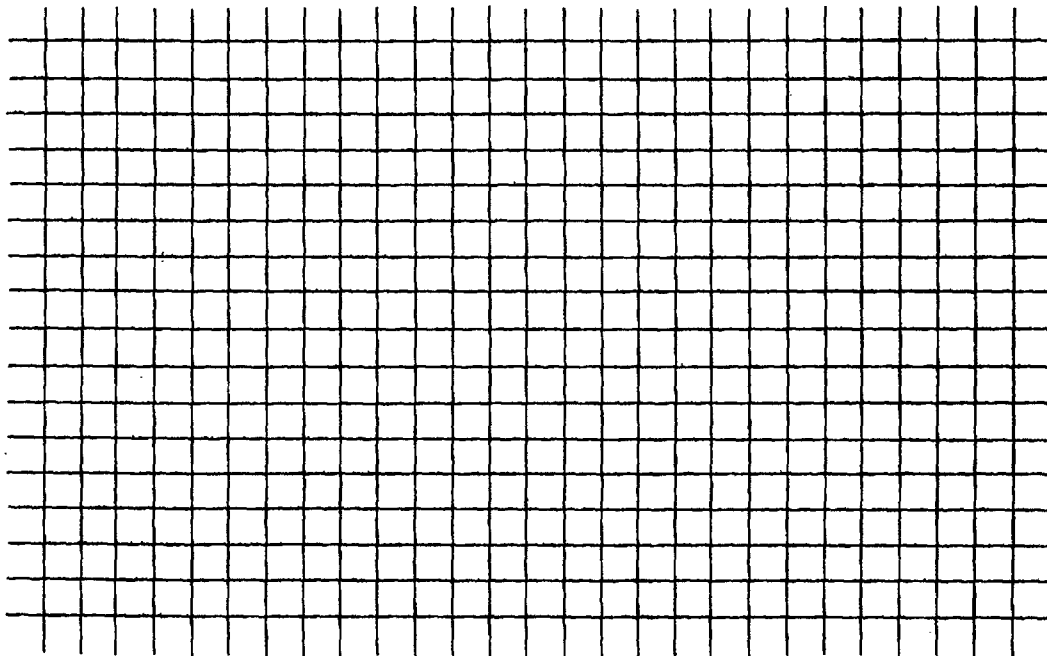
MEASUREMENT TYPES

COLLECTION DE
GG Grab Sample
F Filter
D Direct Reading
T Detector Tube
N Dosimeter
A Adsorption
Impinger/Bubble
C Other

ANALYSIS CODES
Chromatography
S Spectroscopy
G Gravimetric
Specific Electrode
Ray Diffraction
Interferometric
BAKER

CONTROL CODES
LE-Local Exhaust
PT-Protective Equip
HE-Respirator
OT-Other
NØ-None

AREA SKETCH AND COMMENTS



Sample By SCF Sample Collector MSA Weather Temp. _____
 Tube No. _____ Humid. _____
 Pump No. 3 Serial No. _____ Wind Speed _____
 Start Time 1245 Calibration 1.12 / min Wind Direction _____
 Stop Time 1545 Calib By _____
 Net Minutes 180 Date _____
 CTS. Start _____ Refer _____
 CTS. Stop _____

Net _____
 Volume Pumped 1980
 Inst. Cal. At _____
 Volume Corr. _____

Analysis _____

CVI _____

Poss. Int. _____

Analysis By _____

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR= J. C. EDWARDS

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

PHENOL = 3

8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	23.	65.
TOTAL NUMBER OF FIBERS COUNTED =	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER =	0.	

AIR FLOW =	1.100	LITERS PER MINUTE
SAMPLING TIME =	240.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	264.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978 REQUEST NO. 003433
FIELD SIZE = 0.003642 SQ. MM FILTER SIZE = 835. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04278

LAM000109

**CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM**

REMARKS:

$$M_{TL} = T_{wH}$$

DATE:

HA	0946	00060	78	-
----	------	-------	----	---

10. CHOC. Bayou

PHENH

S/D

S/D

02	20	ASBESTOS	001332244	05	200	US	000	240
----	----	----------	-----------	----	-----	----	-----	-----

SHIFT	
	1 = Day 2 = Evening 3 = Night 4 = Undetermined
30	
903	
81178	
76AR9-ACUB-PH04042	
C	
T	
C	
F	
S	

100

SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

WEDNESDAY

STANDARD TYPES

OSHA
TL-TLV
DM-OMEH
BA-Biologic
DT-Other

UNIT CODES

UNIT CODES
MG-MG/Cu.M.
UG-11/Cu.M.
PP-Parts Per Million
PB-Parts Per Billion
OT-Other
DB-Decibel

SAMPLE TYPES

SAMPLE TYPES
P Personal
B Breathing Zone
G General Area
S Source Sample
F Fixed Point
O Other

[illegible]

TERMINATION TYPES

[illegible]

MEASUREMENT TYPES

COLLECTION DE VICES

5 Grab Sample
6 Filter
7 Direct Reading Inst.
8 Detector Tube
9 Dosimeter
10 Adsorption Tube

WILKES-BOURNE

CHOCOLATE BAR

CONTROL. CODES

LE-Local Exhaust
PT-Protective Equipment
RE-Respirator
OT-Other
NW-None

AREA SKETCH AND COMMENTS

A full-page view of a blank sheet of white graph paper. The grid consists of thin, black horizontal and vertical lines intersecting at right angles to form small squares. There are approximately 20 columns and 20 rows of squares visible on the page.

Sample By JCE

Tube No. _____

Pump No. 3

Start Time 0845

Stop Time 1245

Net Minutes 240

CTS. Start

CTS. Step _____

Net _____

Volume Pumped 2697

Inst. Cal. At _____

Volume Cont. _____

Analysis

CVT

Proc. Int.

LAM000111

MAP 04280

Analysis By

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FDR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

PHENOL - 2
8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED *	33,	65,
TOTAL NUMBER OF FIBERS COUNTED *	0,	0,
AVERAGE NUMBER OF FIBERS PER FIELD *	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER *	0,	0,
CORRECTED NUMBER OF FIBERS ON FILTER *	0,	

AIR FLOW *	1.300	LITERS PER MINUTE
SAMPLING TIME *	100,	MINUTES
TOTAL VOLUME OF AIR SAMPLED *	234.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR * 0.000

DATE 8-28-1978

REQUEST NO. 003433

FIELD SIZE * 0.003642 SQ. MM

FILTER SIZE * 835, SQ. MM

COUNTED BY JOHN RUPRECHT

John Ruprecht

COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04281

LAM000112

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

REMARKS:

001 + 002 = TWA

DATE:

HA

0044

00060

7.8

1.0

CHOC BAYOU

PHENOL

PHENOL

2.0

002

ASBESTOS

001332214

0.5

2.00

UG

0.00

1.80

3.0

002

8.1178

67.512 AREA - PHENOL

67.512 AREA - PHENOL

9

11

5

SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

MAP 04282

LAM000113

STANDARD TYPES
OS-OSHA
TL-TLV
OM-OMEH
B-Biologic
OT-Other

UNIT CODES
MG-MG/CU.M.
UG-1/CU.M.
PP-Parts Per Million
PB-Parts Per Billion
OT-Other
OB-Decimal

SAMPLE TYPES
P Personal
B Breathing Zone
G General Area
S Source Sample
F Fixed Point
O Other

DETERMINATION TYPES
T TWA
S Std
C Ceiling
O Other
N Not Applicable

MEASUREMENT TYPES
F Full Period Single
C Full Period Continuous
P Partial Period
S Single Grab
G Series Grab
O Other

COLLECTION DEVICE CODES
G Grab Sample
F Filter
D Direct Reading Instr.
T Detector Tube
N Dosimeter
A Adsorption Tube
I Impinger/Bubbler
A Other

ANALYSIS CODES
PHENOL
CHOCOLATE BAYOU
X X-ray Diffraction
A Colorimetry
O Other

CONTROL CODES
LE Local Exhaust
PT Protective Equipment
HE Respirator
OT Other
NO None

AUG 31 1978

AREA SKETCH AND COMMENTS

A full-page view of a blank sheet of white graph paper. The paper features a consistent grid of thin black horizontal and vertical lines, creating a series of small squares across its entire surface. There are no margins, text, or other markings present.

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR: J. C. EDWARDS

LOCATION: CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

PHENOL - 1
8-11-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED	29.	65.
TOTAL NUMBER OF FIBERS COUNTED	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER	0.	

AIR FLOW	1,300	LITERS PER MINUTE
SAMPLING TIME	237.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	308,100	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978 REQUEST NO. 803433
FIELD SIZE = 0.003642 SQ. MM FILTER SIZE = 835. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04284

LAM000115

Monsanto

MAP 04285

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

REMARKS:

001 t002 = TWA

DATE:

HA	0046	00060	70	CHOC BAYOU	PHENOL	ROUTINE			
02	2.0	001	ASBESTOS	001332214	05	300	UG	000	237
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	2.0								
	3.0	001	67.5/2 area Phenol						
	4.0								

SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

STANDARD TYPES OS-OSHA TL-TLV DM-DMEH BI-Biologic OT-Other	UNIT CODES MG-MG/Cu.M. UG-1/Cu.M. PP-Parts Per Million PB-Parts Per Billion OT-Other DB-Decimal	SAMPLE TYPES P Personal B Breathing Zone G General Area S Source Sample F Fixed Point O Other	DETERMINATION TYPES T TWA S Steel C Ceiling O Other N Not Applicable	MEASUREMENT TYPES F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	COLLECTION DEVICES CODES G Grab Sample F Filter D Direct Reading Instrument T Detector Tube N Dosimeter A Adsorption Tube I Impinger/Bubbler	ANALYSIS CODES NONSANTO CHOCOLATE BAYOU X X-ray Diffraction A Colorimetric O Other	CONTROL CODES LE Local Exhaust PT Protective Equipment HE Respirator OT Other NO None
AUG 31 1978							

[illegible]

Sample By JCE
Tube No. _____
Pump No. 2
Start Time 0845
Stop Time 1242
Net Minutes 237
CTS. Start _____
CTS. Stop _____
Net _____
Volume Pumped 3080
Inst. Cal. At _____
Volume Corr. _____

CVT

Analysis By:

LAM000117

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R. KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

12
S W SIDE OF TANK 602

TOTAL NUMBER OF FIELDS COUNTED	29.	
FIELD SIZE	0.003642	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0.	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0.	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	166.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	332.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

DATE- 11-10-1976
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 002370

MAP 04287

907

LAM000118

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR: R. KLOCKMANN

LOCATION: CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

11

S SIDE OF TANK 602

TOTAL NUMBER OF FIELDS COUNTED	32	
FIELD SIZE	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	1	
AVERAGE NUMBER OF FIBERS PER FIELD	0.031	
AREA OF FILTER	855	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	6954	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	169	MINUTES
TOTAL VOLUME OF AIR SAMPLED	338.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.021

DATE: 11-18-1976
COUNTED BY: JOHN RUPRECHT
REQUEST NO. 002370

002

MAP 04288

LAM000119

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R. KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

10
S E SIDE OF TANK 602

TOTAL NUMBER OF FIELDS COUNTED	26,	
FIELD SIZE	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	2,	
AVERAGE NUMBER OF FIBERS PER FIELD	0.077	
AREA OF FILTER	655,	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	17118,	
AIR FLOW	2,000	LITERS PER MINUTE
SAMPLING TIME	172,	MINUTES
TOTAL VOLUME OF AIR SAMPLED	344,00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.050

DATE- 11-18-1976
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 002370

MAP 04289

00'

LAM000120

M O N S A N T O C O M P A N Y
C O R P O R A T E R E S E A R C H D E P A R T M E N T
P H Y S I C A L S C I E N C E S C E N T E R
M I C R O S C O P Y G R O U P
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A S B E S T O S F I B E R C O U N T

F O R - R. K L O C K M A N N

L O C A T I O N - C H O C O L A T E B A Y O U

S A M P L E I D E N T I F I C A T I O N

15
D I S T R I B U T I O N

TOTAL NUMBER OF FIELDS COUNTED	33.	
FIELD SIZE	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0.	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0.	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	300.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	600.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

DATE - 11-18-1976
COUNTED BY - JOHN RUPRECHT
REQUEST NO. 002370

MAP 04290

LAM000121

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00921	76	REMARKS: 11 1979 C. MISO
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DATE:

1.0	CHOC BAYOU	DIST	ASBESTOS REMOVAL
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02	001	1332214	200	91	05	172
2.0	ASBESTOS					
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4.0			
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STANDARD TYPES OS-OSHA TL-TLV DM-DMEH B-Biologic OT-Other	UNIT CODES MG/MG/Cu.M. UG-1/Cu.M. PP-Parts Per Million PB-Parts Per Billion OT-Other DB-Decimal	SAMPLE TYPES P Personal B Breathing Zone G General Area S Source Sample F Fixed Point O Other	DETERMINATION TYPES T TWA S Stel C Ceiling O Other N Not Applicable	MEASUREMENT TYPES F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	COLLECTION DE VICE CODES G Grab Sample F Filter D Direct Reading Inst. T Detector for Tube N Dosimeter A Adsorption Tube I Inhalometer/Balometer	ANALYSIS CODES C Chromatography S Spectroscopy G Gravimetric E Ion Specific Elec. trade X X-ray Diffraction A Colorimetric O Other	CONTROL CODES LE Local Exhaust PT Protective Equipment HE Respirator OT Other NØ None
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MAP 04291

LAM000122

Monsanto

REMARKS:	DATE:
      	      

10	CITAC BAYOK	DIST	ASBESTOS REMOVAL
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1 = Day
2 = Evening
3 = Night
4 = Undetermined

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1 = Day
2 = Evening
3 = Night
4 = Undetermined

STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
OS-OSHA	MG-MG/Cu.M.	P Personal	T TWA	F Full Period Single	G Gas Sample	C Chromatography	LE Local Exhaust
TL-TLV	UG-1/Cu.M.	B Breathing Zone	S Steel	C Full Period Consecutive	F Filter	S Spectroscopy	PT Protective Equipment
DM-DMEH	PP Parts Per Million	G General Area	C Ceiling	P Partial Period	D Direct Reading Inst.	G Gravimetric	HE Respirator
BK-BK	PB Parts Per Billion	S Source Sample	Ø Other	S Single Grab	T Detector Tube	E Ion Specific Electrode	ØT Other
ØT-Other	ØT-Other	F Fixed Point	N Not Applicable	G Series Grab	N Dosimeter	X X-Ray Diffraction	NØ None
		Ø Other		Ø Other	A Adsorption Tube	A Calorimetry	
					I Impinger/Bubbler	Ø Other	

**CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM**

1.0	CHOC BOYOH	DIST	ABESTER, RICHARD
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MAP

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1 = Day	
2 = Evening	
3 = Night	
4 = Undetermined	

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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
00S-03HA	MG-MG/Cu.M.	P Personal	T TWA	F Full Period Single	G Grab Sample	C Chromatography	LE Local Exhaust
TL-TLV	UG-1/Cu.M.	B Breathing Zone	S Std	C Full Period Consecutive	F Filter	S Spectroscopy	PT Protective Equipment
DM-DMEH	PP Parts Per Million	G General Area	C Ceiling	P Partial Period	T Direct Reading Inst.	G Gravimetric	RE Respirator
DM-Biologic	PB Parts Per Billion	S Source Sample	Ø Other	S Single Grab	T Detector Tube	F Ion Specific Electrode	QT Other
ØT-Other	ØT-Other	F Fixed Point	N Not Applicable	G Series Grab	N Dosimeter	X X-ray Spectrofluorescence	NØ None
DB Decibel	DB Decibel	Ø Other		Ø Other	A Adsorption Tube	A Calorimetric	
					I Impinger/Bubbler	Ø Other	

LAM000124

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR: R. KLOCKMANN

LOCATION: CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

6
A N

TOTAL NUMBER OF FIELDS COUNTED	27	
FIELD SIZE	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	244	MINUTES
TOTAL VOLUME OF AIR SAMPLED	488.00	LITERS
FIBERS PER CUBIC CENTIMETER OF AIR	0.000	

DATE: 11-18-1976
COUNTED BY: JOHN RUPRECHT
REQUEST NO. 002370

MAP 04294

LAM000125

Monsanto

MAP 04295

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	00.46	000.30	76	REMARKS:	DATE: _____
CHOCOLATE BAYOU					

1.0	CHOC BAYOU	AN	REPTIME
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02	2A	001	AP BERTS	1332214	TL	200	QT	244
	2A							
	2A							
	2A							
	2A							
	2A							
	2A							
	2A							

3A	001	111876	GENERAL AREA	67	F	F	S
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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

4A							
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
CG-OSHA TL-TLV DM-DMEH BI-Biologic QT-Other	MG/MG/CU.M. UG-1/CU.M. PP-Parts Per Million PB-Parts Per Billion QT-Other DB-Decimal	P-Personal B-Breathing Zone G-General Area S-Source Sample F-Fixed Point Q-Other	T-TWA S-Stel C-Coiling Q-Other N-Not Applicable	F-Full Period Single C-Full Period Consecutive P-Partial Period S-Single Grab G-Series Grab Q-Other	G-Grab Sample F-Filter D-Direct Reading Inst T-Detector Tube N-Dosimeter A-Adsorption Tube I-Innert/Bubbler	G-Chromatography S-Spin Isotopy G-Gravimetric E-Ion Spectric X-Ray Diffraction A-Coulometric Q-Other	LE-Local Exhaust PT-Protective Equipment HE-Respirator QT-Other N-None

STANDARD TYPES		UNIT CODES		SAMPLE TYPES		DETERMINATION TYPES		MEASUREMENT TYPES		COLLECTION DEVICE CODES		ANALYSIS CODES		CONTROL CODES	
OS-OSHA	TL-TLV	MG/MG/CU.M.	UG 1/CU.M.	P Personal	B Breathing Zone	T TWA	S Steel	F Full Period Single	C Full Period Consecutive	G Grab Sample	D Direct Reading Instr.	X Chromatography	LE Local Exhaust	PT Protective Equipment	
DM-DMEH	BT-Butyl	PP Parts Per Million	PP Parts Per Billion	G General Area	S Source Sample	C Ceiling	Other	P Partial Period	S Single Grab	T Detector Tube	N Dosimeter	E Ion Spectroscopy	HE Respirator	OT Other	
OT-Other	DB-Decibel	OT-Other	DB-Decibel	F Fixed Point	Other	N Not Applicable		G Series Grab	Other	A Adsorption Tube	I Impinger/Bubbler	X X-ray Diffraction	Colorimetric	Other	
HA	0046	00030	77												
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02	2.0	00.1		ASBESTOS											
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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00030	77	REMARKS:	DATE: 1978
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1.0	CHOC BAYOU	AN	ASBESTOS REMOVAL
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02	2.0	002	ASBESTOS	1332314	TL	200	OT	17	321
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3.0	002	412277	30 D3	SHIFT 1 = Day 2 = Evening 3 = Night 4 = Undetermined
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
OS-GSHA TL-TLV DM-DMEH B-Biologic OT-Other	MGM/G/Cu.M. UG-1/Cu.M. PP-Parts Per Million PB-Parts Per Billion OT-Other DB-Decibel	P-Personal B-Breathing Zone G-General Area S-Source Sample F-Fixed Point O-Other	T-TWA S-Stel C-Ceiling O-Other N-Not Applicable	F-Full Period Single C-Full Period Continuous P-Partial Period S-Single Grab G-Series Grab O-Other	G-Grab Sample F-Filter D-Direct Reading Inst. T-Detector Tube N-Dosimeter A-Adsorption Tube I-Inhalometer/Analyzer	C-Chromatography S-Spectroscopy G-Gravimetric E-Environmental Electrode X-Ray Diffraction A-Calibration O-Other	LE-Local Exhaust PT-Protective Equipment HE-Respirator OT-Other NO-None

MAP 04297

LAM000128

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R. KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

2
FROM COLUMN 30D3
IN ACRYLONITRILE DEPT.

TOTAL NUMBER OF FIELDS COUNTED	27.	
FIELD SIZE	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	10.	
AVERAGE NUMBER OF FIBERS PER FIELD	0.370	
AREA OF FILTER	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	82422.	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	317.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	634.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.130

DATE- 5-19-1977
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 082602
COMPUTED BY PROGRAM JOFASB VERSION 003

MAP 04298

LAM000129

Sample # 77
Date 4-27-77

EXPOSURE MEASUREMENT RECORD

Department Rad Area 30D3

Type of Sample: Area Breathing Zone ✓ Urine GRAB

Employee Name S.S. #

Substance Sampled For: Asbestos

Department Operating Conditions: Normal ✓ Abnormal

Temp. 67°F Bar Pres. 767.1 Rel. Hum. 80%

Sampling/analytical method

Precision of Method

Calibration Data Location by Date

Time on 1017 Time off 1535

Elapsed Time(min) Flow Rate(LPM) Volume(liters)

Remarks(possible interferences, etc.) OMC - Removing Asbestos from 30D3

Results:

Exposure(8hr TWA or 15 min)

Sampled by RRK Date

REF: Notebook # Page #

Data in computer: YES NO

Pump #2
Filter #2

MAP 04299

001

LAM000130

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R, KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

1
FROM COLUMN 3003
IN ACRYLONITRILE DEPT,

TOTAL NUMBER OF FIELDS COUNTED	=	29.	
FIELD SIZE	=	0.003042	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	=	14.	
AVERAGE NUMBER OF FIBERS PER FIELD	=	0.483	
AREA OF FILTER	=	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	=	107433.	
AIR FLOW	=	2.000	LITERS PER MINUTE
SAMPLING TIME	=	321.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	=	642.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.167

DATE- 5-19-1977
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 002602
COMPUTED BY PROGRAM JDFASB VERSION 003

MAP 04300

LAM000131

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR- R, KLOCKMANN

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

0
BLANK

TOTAL NUMBER OF FIELDS COUNTED	23.	
FIELD SIZE	0.003042	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0.	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0.	
AIR FLOW	0.000	LITERS PER MINUTE
SAMPLING TIME	0.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	0.00	LITERS
FIBERS PER CUBIC CENTIMETER OF AIR	0.000	

DATE- 5-19-1977
COUNTED BY- JOHN RUPRECHT
REQUEST NO. 002602
COMPUTED BY PROGRAM JDFASB VERSION 003

MAP 04301

LAM000132

Sample # 76
Date 4-27-77

EXPOSURE MEASUREMENT RECORD

Department AN Area 30D3

Type of Sample: Area Breathing Zone ✓ Urine GRAB

Employee Name [REDACTED] S.S. #

Substance Sampled For: Asbestos

Department Operating Conditions: Normal Abnormal

Temp. 67 Bar Pres. 767.1 Rel. Hum. 80%

Sampling/analytical method

Precision of Method

Calibration Data Location by Date

Time on 1015 Time off 1535

Elapsed Time(min) Flow Rate(LPM) Volume(liters)

Remarks(possible interferences, etc.) OMC - Remaining asbestos
insulation from 30D3

Results:

Exposure(8hr TWA or 15 min)

Sampled by AKK Date

REF: Notebook # Page #

Data in computer: YES NO

By #1
Filbert #1

MAP 04302

002

LAM000133

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR= J. C. EDWARDS

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

AN = 3
8-10-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED	23.	65.
TOTAL NUMBER OF FIBERS COUNTED	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER	0.	

AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	15.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	30.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-20-1978 REQUEST NO. 003433
FIELD SIZE = 0.003042 SQ. MM FILTER SIZE = 833. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JOFASB VERSION 005

MAP 04303

LAM000134

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00030	78
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REMARKS:

DATE:

1.0	CHOC. BAYOU	AN	ROUTINE
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	2.0								
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	2.0								
	2.0								
	2.0								
	2.0								

3.0	01078	UNIT WALK THRU	P	S	S	F	S
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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

4.0	003	001332214	QS	200	US	000	15
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
OS-OSHA TL-TLV DM-DMEH B-Biologic OT-Other	MG-MG/Cu.M. PP-Parts Per Million PB-Parts Per Billion OT-Other DB-Decibel	P-Personal B-Breathing Zone G-General Area S-Source Sampling F-Fixed Point OT-Other	T-TWA S-SHORT C-Continuous P-Partial Period S-Single Grab G-Series Grab OT-Other	F-Full Period Single C-Full Period Consecutive P-Partial Period S-Single Grab G-Series Grab OT-Other	G-Grab Sample F-Filter D-Direct Reading Inst. T-Detector Tube N-Dosimeter A-Adsorption Tube I-Impinger/Bubbler	C-Chromatography S-Spectroscopy G-Gravimetric E-Isotopic X-Ray Diffraction A-Coulometric OT-Other	LE-Local Exhaust PT-Protective Equipment HE-Respirator OT-Other ND-None

MAP 04304

LAM000135

MONSANTO COMPANY
CORPORATE RESEARCH LABORATORY
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR- J. C. EDWARDS

LOCATION- CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

AN - 2
8-10-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED	32.	65.
TOTAL NUMBER OF FIBERS COUNTED	0.	0.
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER	0.	0.
CORRECTED NUMBER OF FIBERS ON FILTER	0.	

AIR FLOW	1.100	LITERS PER MINUTE
SAMPLING TIME	213.	MINUTES
TOTAL VOLUME OF AIR SAMPLED	234.300	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978 REQUEST NO. 003433
FIELD SIZE = 0.003842 SQ. MM FILTER SIZE = 835. SQ. MM
COUNTED BY JOHN RUPRECHT *John Ruprecht*
COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04305

LAM000136

MONSANTO COMPANY

CORPORATE RESEARCH LABORATORY

PHYSICAL SCIENCES CENTER

MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR= J. C. EDWARDS

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

AN = 1
8-10-78

	SAMPLE	BLANK
TOTAL NUMBER OF FIELDS COUNTED =	31,	65,
TOTAL NUMBER OF FIBERS COUNTED =	0,	0,
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	0.000
TOTAL NUMBER OF FIBERS ON FILTER =	0,	0,
CORRECTED NUMBER OF FIBERS ON FILTER =	0,	

AIR FLOW =	1.100	LITERS PER MINUTE
SAMPLING TIME =	210,	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	231.000	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE 8-28-1978

REQUEST NO. 003433

FIELD SIZE = 0.003642 SQ. MM

FILTER SIZE = 835. SQ. MM

COUNTED BY JOHN RUPRECHT *John Ruprecht*

COMPUTED BY PROGRAM JDFASB VERSION 005

MAP 04307

LAM000138

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00030	78
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REMARKS:

001 + 002 = TEWA

DATE:

ROUTINE	AN	CHOC BAYOU	ASBESTOS	001	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	002
001332214	45	200	UG	000	210								

3.0	001	01078	30, E 10-2 AREA	SHIFT	1 = Day	2 = Evening	3 = Night	4 = Undetermined
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4.0	001	01078	30, E 10-2 AREA
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
OS-OSHA TL-TLV DM-DMEN BI-Biologic QT-Other	MG/MG/CU.M. UG-1/CU.M. PP-Parts Per Million PB-Parts Per Billion QT-Other DB-Decimal	P Personal B Breathing Zone G-General Area S Source Sample F Fixed Point O Other	T-TWA S-Stel C Ceiling N Not Applicable	F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	G Grab Sample F Filter D Direct Reading T Detector Tube N Dosimeter A Adsorption Tube I Impinger/Bubbler	C Chromatography S Spectroscopy G Gravimetric Ion Spectro X-ray Diffraction A Colorimetric O Other	LE-Local Exhaust PT-Protective Equipment RE-Respirator QT-Other NO-None

MAP 04308

LAM000139

MONSANTO COMPANY
CORPORATE RESEARCH DEPARTMENT
PHYSICAL SCIENCES CENTER
MICROSCOPY GROUP
ST. LOUIS

ASBESTOS FIBER COUNT

FOR= R. KLOCKMANN

LOCATION= CHOCOLATE BAYOU

SAMPLE IDENTIFICATION

14
ENVIRONMENTAL CONTROL

TOTAL NUMBER OF FIELDS COUNTED	31	
FIELD SIZE	8.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED	0	
AVERAGE NUMBER OF FIBERS PER FIELD	0.000	
AREA OF FILTER	855	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER	0	
AIR FLOW	2.000	LITERS PER MINUTE
SAMPLING TIME	307	MINUTES
TOTAL VOLUME OF AIR SAMPLED	614.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR 0.000

MANY PARTICULATES OBSERVED

MAP 04309

DATE= 11-18-1976
COUNTED BY= JOHN RUPRECHT
REQUEST NO. 002370

LAM000140

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

HA	0046	00923	76	REMARKS:
1.0	0046	00923	76	DATE: 11/18/76

1.0	CHOC. BAYOU	ENV. CONT.	ROUTINE
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001	ASBESTOS	1332314	72	200	20	307
2.0						
2.0						
2.0						
2.0						
2.0						
2.0						
2.0						

3.0	002	11/18/76	GENERALLY AREA	8	7	A	5	SHIRT 1 = Day 2 = Evening 3 = Night 4 = Undetermined
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4.0							
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STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
OS-OSHA TL-TLV DM-DMH BT-Biologic QT-Other NA-Not Applicable	MG/MG/Cu.M. UG-1/Cu.M. PP-Parts Per Million PB-Parts Per Billion QT-Other NA-Not Applicable	P Personal B Breathing Zone G General Area S Source Sample F Fixed Point O Other	T TWA S Steel C Ceiling N Not Applicable	F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	G Grab Sample F Filter D Direct Reading Inst. T Detector for Tube N Dosimeter A Adsorption Tube L Laminar/Blower	C Chromatography S Spectroscopy G Gravimetric E Ion Specific Electrode X X-ray Diffraction A Colorimetric O Other	LE Local Exhaust PT Protective Equipment HE Respirator QT Other NO None

Monsanto

CHOCOLATE BAYOU
INDUSTRIAL HYGIENE
DATA TRANSMITTAL FORM

REMARKS:	DATE: 10/27/77
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1.0	CHOC BAYOU	NTA	REPORT ME
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02	001	AKB ESTRS	1332214	TL	200	QT	02	266
2.0	2.0							
2.0	2.0							
2.0	2.0							
2.0	2.0							
2.0	2.0							
2.0	2.0							
2.0	2.0							

3.0	001	GENERAL AREA						
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4.0								
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SHIFT
1 = Day
2 = Evening
3 = Night
4 = Undetermined

STANDARD TYPES	UNIT CODES	SAMPLE TYPES	DETERMINATION TYPES	MEASUREMENT TYPES	COLLECTION DEVICE CODES	ANALYSIS CODES	CONTROL CODES
DS-OSHA TL-TLV DM-DMEH 88-Biologic QT-Other	MG/MG/CU.M. UG-1/CU.M. PP-Parts Per Million PB-Parts Per Billion QT-Other N Not Applicable	P Personal B Breathing Zone G General Area S Source Sample F Fixed Point N Other	T TWA S Steel C Ceiling O Other N Not Applicable	F Full Period Single C Full Period Consecutive P Partial Period S Single Grab G Series Grab O Other	G Grab Sample F Filter D Direct Reading Inst T Detector Tube N Dosimeter A Adsorption Tube	C Chromatography S Spectroscopy G Gravimetric F Ion Specific Electrode X X-Ray Diffraction A Colorimetric	LE Local Exhaust PT Protective Equipment RE Respirator QT Other N/Q None

MAP 04311

LAM000142