

IN-DEPTH INDUSTRIAL HYGIENE SURVEY REPORT
OF
HENREDON FURNITURE INDUSTRIES, INC.
HENREDON ROAD
MORGANTON, NORTH CAROLINA 28655

SURVEY CONDUCTED BY:
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DATE OF SURVEY
June 23-26, 1981

REPORT WRITTEN BY:
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NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS, AND FIELD STUDIES
INDUSTRY WIDE STUDIES BRANCH
Cincinnati, Ohio

SURVEY REPORT
HENREDON FURNITURE INDUSTRIES
HENREDON ROAD
MORGANTON, NORTH CAROLINA 28655

PURPOSE: To conduct an in-depth industrial hygiene survey to determine exposures of finishing area employees to coating components. This survey was conducted as part of the Industry Wide Studies Branch survey of Health Hazards in The Painting Trades.

DATE OF SURVEY: June 23-26, 1981

PLANT CONTACTS: Don Warren, V.P., Manufacturing
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SIC CODE: 2511; Household furniture, wood

ABSTRACT

An in-depth industrial hygiene survey was conducted in the finishing rooms of plants No. 1 and No. 2 at Henredon Furniture Industries, Inc. in Morganton, N.C., on June 23-26, 1981. The survey was one of six in-depth surveys of industrial painting operations performed as part of the Industrywide Studies Branch study of health hazards in the painting trades. The survey was performed to characterize the exposures of finishing room employees to the components of the finishing materials used. Work practices were also evaluated.

Exposures to organic solvents, with a few exceptions, were well within the current OSHA PEL's, NIOSH recommended standards, or ACGIH Threshold Limit Values (TLV's). At booths #1, #7, and #14 in plant #1, additive exposures to solvent mixtures (1.01, 1.21, and 1.25, respectively) were excessive with respect to current TLV's, indicating that improvement in ventilation control, or a change in work practices, is advisable.

Exposures to 2-butoxyethanol were well below the current OSHA PEL and the ACGIH TLV, but ranged up to approximately 30mg/m^3 , one-third of the current TLV (120mg/m^3). The overall geometric mean exposure to butoxyethanol, however, was 6.19mg/m^3 , approximately 5% of the TLV.

Maintenance of the spray booths and general housekeeping could be improved, particularly in plant No. 1. Improved material handling and product flow in plant No. 2 would help prevent buildup of solvent vapors in the general area.

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INTRODUCTION

Background

The Industrywide Studies Branch (IWSB), Division of Surveillance, Hazard Evaluations, and Field Studies (DSHEFS), NIOSH, initiated in 1978 a study of health hazards in the painting trades. The study was prompted by the results of a 1975 NIOSH pilot study (conducted under contract by the Mt. Sinai School of Medicine, NY, NY), and by the results of a number of literature reports, which indicated that central nervous system, pulmonary, and other effects were occurring in "painters" with some regularity, particularly in epoxy painters (1-5).

In late 1977, a contract was awarded to The Johns Hopkins University, School of Hygiene and Public Health, to begin industrial hygiene, and if necessary, epidemiological and/or medical studies of workers engaged in painting activities in industrial or commercial settings. In 1978 through 1980, fifty walk-through surveys were conducted in ten different major industries. In the wood furniture industry, five such surveys were conducted, all of which were located in North Carolina. The purpose of the surveys was to determine if any of the sites visited would be suitable for inclusion in in-depth industrial hygiene, epidemiological, or medical studies. Two of the five furniture manufacturing plants were subsequently selected for industrial hygiene surveys, concentrating on the finishing areas. This report summarizes the results of the in-depth industrial hygiene survey conducted at Henredon Furniture Industries, Inc., located in Morganton, North Carolina, June 23-26, 1981.

Authority

Studies of this nature are authorized under the Occupational Safety and Health Act of 1970, Public Law 91-596, December 29, 1970. NIOSH has been designated responsibility for conducting field research studies in industry, to evaluate findings, and report on these findings. Section 20(a)7 states that NIOSH shall publish industrywide studies of the effects of chronic or low level exposure to industrial materials, processes, and stresses on the potential for illness, disease, or loss of functional capacity.

DESCRIPTION OF PLANT

This plant covers an area of approximately one million square feet and consists of two separate production facilities under the same roof. Plant #1 was built in 1947 and is primarily engaged in the manufacture of dining room furniture. Plant #2, which was built in 1961, produces primarily dining room chairs and occasional tables and some other occasional furniture. These two plants operate almost entirely independently sharing only lumber storage and drying facilities and, to a lesser extent, rough cut production areas.

Henredon Furniture Industries, Inc. is a privately owned company. Although the dollar value of sales has steadily increased over the past few years, production levels and finish use have remained nearly constant. At this time over 1,000 different pieces are manufactured at this site. Nearly all are finished with a lacquer system although approximately 5% of all pieces are painted.

GENERAL PROCESS DESCRIPTION

The furniture production process in both plants is nearly identical and the following description applies generally to plants #1 and #2. The two plants share a common storage yard in which the lumber is sorted, graded, and stacked to age. Mahogany, ash, oak and walnut are primarily used for face veneers while poplar and sycamore are primarily used as interior structural members. After aging the lumber is kiln dried. In the rough mill, which follows kiln drying, the lumber is cut to length and defects removed. Beyond this point two separate production lines are formed, although the processes occurring on each are nearly identical.

On both lines the rough-dimensioned wood is planed close to finish dimensions in a series of molders. In a succession of steps, the pieces of wood are cut to final dimensions, routed and drilled (according to specifications), and sanded. In plant #1, veneer is matched and laminated with either poplar or sycamore structural pieces. A urea resin glue is used in both hot and cold press operations. For other than flat pieces, microwaves are used to cure the glue. The veneered laminates go through the same series of successive steps in which they are cut to final dimensions, routed and drilled, and sanded. All of these pieces are then sent to the pre-assembly area in which sub-assemblies are constructed.

On the final assembly line - called the cabinet area - these subassemblies are joined to form the completed piece. Nails, screws, and heavy staples are used in this process. The pieces are hand sanded, inspected, and sent to the finish room. The finish rooms of both plants will be discussed in detail in the next section. After finishing, the pieces are all stored for approximately 24 hours and then sent to the rubbing room. Here, a tinted wax is applied by hand and buffed. Hardware is then applied to the piece and it is packed and stored for later shipment.

DESCRIPTION OF FINISHING OPERATIONS

Although the same basic finishing system is used in both plants, there are enough differences in the way in which the system components are applied and differences in the layout of the finish rooms to warrant separate descriptions of each plant's finishing process.

The finish room in plant #1 is large (approximately 200' by 200') and is extremely spacious. The pieces are placed on a roller conveyor which moves the pieces through the finishing operations. The time required to finish each piece is approximately ten to twelve hours. The pieces can be rotated in the booth in order to finish all sides without having to spray away from the booth. Approximately 100 to 115 pieces are finished per day. The sprayer can control how long he has to work on a piece. As a result, all of the work is completed within the confines of the spray booths. Because almost five minutes is allotted per piece per booth, there is considerable time during which no spraying occurs.

The first operation in the finishing process is a bleaching process. This is done only to certain types of wood and when certain types of finishes are desired, and is actually done on a separate line. After bleaching and drying the pieces return to the main line. Bleaching is accomplished with hydrogen peroxide and a 10% caustic solution sprayed from a two headed hand-held gun. The piece is not subsequently washed down, but is hand-sanded along with those pieces not bleached.

The next operation involves the hand spraying of a light non-grain raising stain. A conventional compressed air spray gun is used. There are two stain booths in succession which face in opposite directions. One is used for the front of the pieces and the other for the back. The pieces are then hand-sanded and distressed. A booth in which a wash coat or a sealer is applied follows. Two more booths follow in which a filler stain is applied by a conventional hand-held compressed air spray gun. The filler stain is immediately wiped off using hand rags. A wiping stain is then applied by hand using rags outside of the stain booth. It too is then wiped off immediately. In a double spray booth which follows, additional stain is applied as needed to make the shade uniform over the entire piece. A hand-held, compressed air spray gun is used. All of the stains and filler stains are supplied from five gallon pots located at each spray booth.

Following the application of this series of stains, a vinyl base (17%) sealer is applied to the piece in the next booth using a hand-held, compressed air spray gun. The sealer is piped to the booth area from a central supply area. Next, the piece is hand-padded with a darker stain and crayon distressed. In the next two booths, stain is sprayed as needed to give a uniform shading to the piece. Accents are applied with a dry brush and a light speckled effect (small spots of contrasting color stain) is applied by hand-held spray gun (no spray booth).

A series of three spray booths follow in which a first coat of lacquer is applied. A hand-held airless spray gun is used to deliver the

lacquer from a piped-in central supply. After inspection and repair (if needed), a second coat of lacquer is similarly applied. The lacquer is allowed to cure for 24 hours before any further work is done on the piece. This occurs in the rubbing room which has already been described.

The finish room in plant #2 is also very large (approximately 180' by 240') and spacious. Constructed in the early 1960's, it is now used mostly to finish chairs made in plant #2. There is no conveyor system to move the pieces in this finish room, so they are slid on the waxed concrete floor to each of the successive spray booths. Production rates average from 400 to 500 chairs per day.

The spraying operation in each booth is conducted with a hand-held, compressed air spray gun supplied from 10 and 15 gallon pots. A pre-stain is applied in booth #1 to all of the chairs. In booth #2, about 1% or less of the chairs are bleached, but most go directly to booth #3 in which a lacquer based wash coat sealer is applied. The piece is then lightly hand-sanded.

In booth #4, either an oil based sealer or glaze is applied and then immediately wiped off using rags. The chairs are then allowed to air dry for a period. A vinyl sealer is applied in booth #5, and it too is then lightly hand-sanded. Another coat of stain or glaze is applied in booth #6 and then rubbed with alcohol soaked rags.

Vinyl sealer is again applied in booth #7 and the piece is then padded by hand with the same stain used previously (this process varies depending on specifications). In booth #8, more of this stain is applied for shading and accents. A light speckle stain is applied between this operation and booth #9 where the first lacquer coat is applied. The piece is then inspected and shaded or touched-up as required in booth #10. When this is complete, a second lacquer coat is applied in booth #11 and the chair is then stored to allow the lacquer to cure. After the appropriate drying time, the chairs are then rubbed and stored for packing and shipping.

The company uses a total of approximately 150,000 gallons of finishing materials per year. They use two principal suppliers for their finishing chemicals: Reliance Universal (High Point, N.C.), and Guardsman Chemical Coating Inc. (Grand Rapids, Michigan).

DESCRIPTION OF WORKFORCE AND PERSONNEL RECORD SYSTEM

The corporation has a total of 2400 employees with 250 workers in finishing operations at all plants. At the single site investigated, (Morganton) there are about 785 employees, and a total of 110 finishers, which are approximately equally divided between the two finishing areas. The workforce is relatively stable with a turnover of approximately 2 percent or less per month which is a lower figure currently than has existed in the past. The turnover of spray painters is believed to be lower than that of wipers in the same finishing department. Turnover for finishing department employees has averaged 5-10% per month for the past 6 years.

The workforce is approximately twenty percent female and eight percent black. There is no readily available information on the percentage of individuals by age or duration of employment.

The personnel function for this site was established in January, 1967. Personnel records prior to this time are very basic in nature. All records have been kept on cards since the beginning of the company in 1947. Each card includes information on the date of birth, date of first hire, next of kin, social security number, termination dates, and job history. Race is indicated, but not sex.

DESCRIPTION OF MEDICAL, SAFETY, AND INDUSTRIAL HYGIENE PROGRAMS

Pre-employment physicals are not required for employees and only a simple medical history is obtained. A full time nurse supervises the medical department for both plants. The only routine examinations provided are an audiometric examination performed within a few days of first hire, which is followed up at six months, 1 year, or 3 year intervals depending on the location of the person's work and exposure to noise.

The company has a functioning safety program centered on a Safety Committee which meets and inspects the entire plant monthly. Departmental supervisors are responsible for the day to day running of the program, inspecting the department for the obvious problems of machine guarding, personal protective equipment (gloves, safety glasses, face shields, etc.), and handling of flammable materials.

No developed industrial hygiene program is in effect. The North Carolina OSHA has visited the plant several times and provides OSHA 108 consultation on request. The company has also been visited by an industrial hygienist working for their worker's compensation carrier, American Mutual, to investigate a wood dust problem. No industrial hygiene survey has ever been conducted of the finishing operations.

ENGINEERING CONTROL IN FINISHING OPERATIONS

All of the finish spraying operations in both plants are conducted in spray booths. In plant #2 all booths are identical water-wall spray booths measuring 12' x 12' x 8' high. The work is set on a rotating table in the middle of the booth which is entirely enclosed on three sides. Control of overspray appeared subjectively to be very effective.

In plant #1, most of the booths are of the same basic design, differing only in their size and exhaust volumes. Almost all of the booths are three-sided with openings in the side walls for the work to enter on the conveyor system. The bleach and filler stain booths are of the water-wall type, while the rest are exhausted through a rectangular duct opening at the top rear of the booth. In general, control of overspray appeared less effective (subjectively) than in plant #2. Housekeeping was generally poorer as well.

COATING COMPONENTS AND HAZARD ANALYSIS

The principal potential health hazard inherent in the process of furniture finishing is exposure to various solvents. All of the coating materials used in the process are composed mainly of nitrocellulose or alkyd resin (and occasionally pigments) dissolved or suspended in a complex mixture of hydrocarbons. Although many of these components are pure compounds (e.g. toluene, ethyl acetate, xylene, 2-butoxyethanol, etc.), some are themselves complex mixtures of hydrocarbons, such as VM&P naphtha, mineral spirits, and various other petroleum distillates.

Table 1 lists the specific materials for which quantitation was attempted during this survey. Also listed are the respective Threshold Limit Values (TLVs), published by the American Conference of Governmental Industrial Hygienists (ACGIH) Chemical Substances TLV Committee, the eight hour, time weighted, average permissible exposure limits (PELs) promulgated by the Occupational Safety and Health Administration (OSHA), and the NIOSH recommended exposure limits where available.

In general, the most important effect of exposure to most hydrocarbons is the depressant effect on the central nervous system. Exposure to these compounds at low levels can also lead to irritation of the upper respiratory tract, nausea, and irritability(12). Exposure at very high levels can cause pulmonary edema, severe central nervous system depression, unconsciousness, and even death. The depressant effect of most of the hydrocarbons present in the coatings used can be considered additive. This fact has been addressed by the ACGIH in the TLV publication (7), which describes the calculation of TLVs for mixtures of two or more hazardous substances having similar effects on the same organ system.

Recent results of animal testing (8-11) indicate that exposure to several compounds in the glycol ether family (e.g. 2-ethoxyethanol, 2-butoxyethanol, 2-methoxyethanol, and their acetate derivatives) may have the potential to cause reproductive effects in humans. Fetal abnormalities were seen in offspring of exposed female animals (9-11), and testicular atrophy was seen in exposed male animals (8).

Table 1
Coating Solvents and Associated Exposure Limits

COMPOUND	ACGIH TLV* (mg/m ³)	OSHA PEL ⁺ (mg/m ³)	NIOSH RECOMMENDED STANDARD (mg/m ³)**
Acetone	1780	2400	—
Methyl Ethyl Ketone	590	590	590
Ethyl Acetate	1400	1400	—
Toluene	375	750	375
Isobutyl Acetate	700	700	—
N-butyl Acetate	710	710	—
Isobutyl Isobutyrate	—	—	—
VM&P Naphtha	1350	—	350
Methyl Amyl Ketone	235	465	—
Xylene	435	435	435
Lactol Spirits	—	—	—
Isopropyl Acetate	950	950	—
Mineral Spirits	—	—	350
Methyl Isobutyl Ketone	205	410	200
Isopropyl Alcohol	980	980	980
Ethanol	1900	1900	—
2-butoxyethanol	120	240	—
Methanol	260	260	260

* Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environment with Intended Changes for 1983-84. American Conference of Governmental Industrial Hygienists. 1983.

+ Occupational Safety and Health Standards. Subpart Z-Toxic and Hazardous Substances. 40 FR 23072, Section 1910.1000, May 28, 1975.

** NIOSH/OSHA Pocket Guide to Chemical Hazards. National Institute for Occupational Safety and Health; Occupational Safety and Health Administration. 1978.

METHODS

Sampling Strategy

Air sampling for total spray mist and organic vapors was conducted over three day shifts during the period June 23-25, 1981. Representative spray finishing and support operations (padding, wiping, bulk storage etc.) were selected in both plants (#1 and #2) for personal sampling. Area monitors were also placed at each location sampled to determine the composition of airborne vapors to which workers were exposed. Temperature, pressure, and relative humidity were determined twice during each sampled shift to allow correction of personal sampler air volumes, if necessary. It was subsequently determined that no corrections were needed due to the small variations noted (less than 2%).

Personal sampling was conducted by attaching up to three separate sampling devices to each worker sampled. These included two MDA AccuhalerTM Model 808 low volume pumps, each attached to its own sampling head, and for certain operations (spraying operations only), one MSA Company Model GTM pump.

Each of the two MDA pumps were attached to a dual-tube holder designed to sample simultaneously through two organic vapor tubes in parallel. Each of the two dual-tube holders was loaded at the beginning of the shift with either two SKCTM 150 mg. standard charcoal tubes, or one charcoal tube and one SKC 150 mg. silica gel tube. The silica gel tube was reserved for subsequent analysis of methanol or other compounds which might adsorb better on silica gel. Thus, each worker wore four sampling tubes during each shift sampled. This was necessary because of the number and complexity of the organic vapors to which each worker was potentially exposed. The pumps were set to sample at approximately 50cc/min., using the limiting orifices supplied by the SKC Company with the dual-tube holders. A full shift sampling methodology was used because of the low flow rate and the expected low concentrations of solvents to which the employees were exposed.

In representative spraying operations, the spray operator was also fitted with one MSA Company Model G sampling pump attached to a 3-piece 37mm polystyrene cassette loaded with a preweighed 37mm glass fiber filter. These were subsequently reweighed in the laboratory and the net weight of total airborne particulate determined. These samples were obtained to determine the spray operator's exposure to the total dry weight of spray mist (total spray mist). These measurements should allow the determination of relative control effectiveness for spray mist between areas of the same plant, or between plants. These samples were obtained at a flow rate of 2.0 lpm, again using a full shift sampling methodology.

The area monitors (bulk air samples) consisted of MSA Model G pumps, operating at 1 lpm, connected to a single SKC 150 mg. charcoal tube. These were operated for several hours at each operation sampled on one shift only. The charcoal tubes were later analyzed qualitatively (by Gas Chromatography-Mass Spectrophotometry) to determine the

composition of airborne organic vapors at the location sampled, and to aid in decisions regarding analysis of personal samples. Exposures to organic vapors were not quantitated from these samples.

Sample Analysis

Bulk air samples were analyzed qualitatively by Gas Chromatography-Mass Spectrophotometry for all organic vapors present. Information regarding the composition of finishing materials obtained during the survey (from Material Safety Data Sheets supplied by the coating manufacturer), also aided in identifying organic vapors present. Benzene was determined not to be present in detectable concentrations in any of the coating products used during the survey.

Personal charcoal and silica gel tubes were subsequently analyzed by capillary column gas chromatography(6) to allow greater resolution of the complex organic vapors adsorbed on the samples from the workroom air. As many as 10-15 organic compounds were quantitated from the four organic vapor tubes obtained from each worker on each shift. Glass fiber filter samples obtained from spray operators were reweighed in the laboratory to obtain net weights of total particulate (total spray mist).

All sample results, both organic vapors and total spray mist were calculated in terms of milligrams of analyte per cubic meter of air (mg/m^3). This was done for consistency, and because the molecular weights of many of the complex hydrocarbon components (mineral spirits, lactol spirits, VM&P naphtha, etc.) could not be precisely determined. Since most samples were obtained for nearly a full shift (approximately 7 hours), the calculated sample concentrations were assumed to be equivalent to the actual eight hour, time weighted (TWA) concentrations to which workers were exposed.

Statistical Analysis and Data Reporting

All sample results were grouped by job/operation (generally booth number, or a general category such as glaze wiper). For each of these job categories, and for each compound to which exposure occurred, descriptive statistics, including range, arithmetic and geometric mean, arithmetic and geometric standard errors, and 95% confidence intervals, were determined.

In order to determine workers' cumulative exposures to the complex hydrocarbon mixtures present, the following formula was used (7):

$$\text{TLV} = \text{C}_1/\text{T}_1 + \text{C}_2/\text{T}_2 + \dots \text{C}_n/\text{T}_n$$

where: C_i = observed atmospheric concentration

T_i = corresponding Threshold Limit Value

If the sum of the fraction exceeds unity, then the Threshold Limit Value is exceeded. This formula is generally applied where exposures to two or more hazardous substances, which act on the same organ system, occur simultaneously. For the purposes of this survey, the effect of all the organic vapors to which the finishing area workers

were exposed was assumed to be cumulative, since all have greater or lesser effects on the central nervous system.

RESULTS AND DISCUSSION

Appendix A (tables 1-36) contains the individual raw sample results for all compounds and jobs sampled. Tables A1-A19 include the data for finishing area #1, and tables A20-A36 the data for finishing area #2.

Summary statistics for all substances and jobs are presented in Tables I to XIX (area #1), and in Tables XX to XXXVI (area #2) at the end of this report. Preceding Tables I and XX are job code keys for each area, respectively. These keys indicate the job description or location for each of the numeric job codes used in the summary and raw data tables. Tables 2 and 3 (in the text following) present the results of calculation of additive organic vapor exposures (mixture TLV's). Table 4 contains the calculated geometric mean exposures, and ranges (over all jobs) to all contaminants measured.

In general, exposures to organic compounds were quite low relative to current exposure standards and recommendations (Table 1). Tables 2 and 3 indicate that the mean, additive exposures to organic vapors in plant #1 ranged from 0.04 (i.e. 4% of the calculated mixture TLV) to 1.25, and in plant #2, from 0.06 to 0.17. The highest single shift and average cumulative exposures were to the spray operators at booths #1, #7, and #14, all from plant #1. In these instances, it does not appear that exposure to any of the individual compounds was a major contributor to the cumulative exposure; exposure to all organic compounds present was elevated. This indicates that ventilation control of solvent vapors and/or work practices at these locations could be improved.

There were no exposures to individual organic vapors in excess of the current OSHA PEL, or NIOSH or ACGIH recommendations. However, in the case of 2-butoxyethanol (also known as ethylene glycol monobutyl ether), it is not known whether the current TLV constitutes adequate protection against potential reproductive health effects seen recently in animals (8-11). In plant #1, geometric mean exposures to 2-butoxyethanol (table XVII) ranged from 0.86 mg/m³ to 39.63 mg/m³ (at booth #14). The current TLV is 120 mg/m³, indicating that in plant #1, exposures ranged up to approximately one-third (40/120) of the TLV. The overall geometric mean exposure for all sampled jobs in plant #1, however, was 6.19 mg/m³ (table 4), approximately 5% of the TLV. In plant #2, exposures to 2-butoxyethanol were generally lower than in plant #1; the maximum exposure was less than 5% of the TLV (table XXXIV).

As measured by exposures to total spray mist, control of overspray was generally better in plant #2. The overall geometric mean exposure to total particulate in plant #1 (table XIX) was 2.22 mg/m³, compared with 0.65 mg/m³ in plant #2 (table XXXI). The difference is statistically significant, as indicated by the non-overlapping 95% confidence intervals between the two plants.

Maintenance and repair of the spray booths was visually superior in plant #2, as indicated by non-operating water curtains in some booths in plant #1, and by the greater buildup of sludge and residue in many booths in plant #1. It was also observed that at some of the booths in plant #1, the operator's setup was such that he was required to spray furniture pieces too far from the control area of the spray booth. This was most apparant at booth #1, which also exhibited the highest single location spray mist exposures, ranging from 4.55 mg/m³ to 11.05 mg/m³.

TABLE 2

Threshold Limit Values for Solvent Mixtures*
Finishing Area #1

JOB/AREA	SAMPLING DATES (1981)			MEAN
	6/23	6/24	6/25	
SPRAYER, BOOTH #1	0.46	1.01	0.20	0.56
SPRAYER, BOOTH #3	0.13	0.14	0.08	0.12
SPRAYER, BOOTH #5	0.32	0.13	0.22	0.22
SPRAYER, BOOTH #6	0.20	0.12	0.15	0.16
SPRAYER, BOOTH #7	0.40	1.21	0.31	0.64
SPRAYER, BOOTH #8	0.13	—	—	—
SPRAYER, BOOTH #11	0.09	0.09	—	0.09
SPRAYER, BOOTH #13	0.27	0.74	0.30	0.44
SPRAYER, BOOTH #15	0.06	—	—	—
SPRAYER, BOOTH #14	—	0.90	1.60	1.25
STAIN WIPER, AFTER BOOTH #8	0.19	0.17	0.20	0.19
STAIN WIPER, AFTER BOOTH #10	0.24	—	—	—
BULK STORAGE	0.01	0.08	0.03	0.04
WIPER, AFTER BOOTH # 6	—	0.18	0.22	0.20

* ADDITIVE EXPOSURE TO MIXTURES=SUM OF FOLLOWING FRACTIONS:

$$C1/T1+C2/T2+...Cn/Tn$$

(If the sum of the fractions exceeds unity, the TLV is exceeded)

TABLE 3

Threshold Limit Values for Solvent Mixtures*
Finishing Area #2

JOB/AREA	SAMPLING DATES(1981)			MEAN
	6/23	6/24	6/25	
SPRAYER, BOOTH #3A	0.10	0.21	0.11	0.17
SPRAYER, BOOTH #2	0.03	0.08	0.09	0.07
SPRAYER, BOOTH #3B	—	0.11	—	—
WIPER	0.05	—	—	—
SPRAYER, BOOTH #4	0.11	—	—	—
FILLER WIPER, BOOTH #4	0.06	0.03	0.06	0.05
SPRAYER, BOOTH #5	0.16	0.14	0.18	0.16
SPRAYER, BOOTH #8	0.06	—	—	—
SPRAYER, BOOTH #6	0.06	0.05	—	0.06
SPRAYER, BOOTH #9	0.21	0.12	0.13	0.15
SPRAYER, BOOTH #11	—	0.14	—	—
SPRAYER, BOOTH #10	—	0.10	—	—
SPRAYER, BOOTH #5	0.12	0.13	0.12	0.12
SPRAYER, BOOTH #1	0.15	0.06	0.09	0.10
SPRAYER, BOOTH #7	0.21	—	—	—
WIPER, BOOTH #4	—	0.12	0.12	0.12

* EXPOSURE TO MIXTURE=SUM OF FOLLOWING FRACTIONS:

$$C1/T1+C2/T2+...Cn/Tn$$

(if the sum of the fractions exceeds unity, the TLV is exceeded)

TABLE 4

Exposures of Finishing Room Employees
To Airborne Contaminants (All Jobs)

Compound	Geometric Mean (Min. - Max.) , mg/m^3	
	Area No. 1	Area No. 2
Acetone	1.83 (0.32-51.5)	0.48 (0.37-0.64)
Methyl Ethyl Ketone	0.73 (0.31-26.5)	—
Ethyl Acetate	1.26 (0.32-11.1)	0.78 (0.26-4.22)
Toluene	13.5 (2.16-127.2)	6.81 (1.77-22.3)
Isobutyl Acetate	6.04 (0.54-120.8)	3.07 (0.44-14.4)
N-butyl Acetate	7.15 (0.54-91.6)	5.33 (1.41-20.6)
Isobutyl Isobutyrate	7.33 (0.54-90.6)	4.17 (0.88-13.6)
VM&P Naphtha	23.0 (13.2-42.7)	—
Methyl Amyl Ketone	2.66 (0.27-59.8)	1.02 (0.35-4.93)
Xylene	4.15 (0.54-50.2)	2.34 (0.70-8.01)
Lactol Spirits	13.5 (2.86-317.9)	6.68 (3.15-28.8)
Mineral Spirits	28.7 (13.2-64.0)	22.1 (3.42-82.3)
Isopropyl Acetate	16.7 (6.95-58.8)	2.53 (1.58-3.51)
Methyl Isobutyl Ketone	1.15 (0.48-3.77)	—
Isopropyl Alcohol	4.34 (0.33-123.1)	2.86 (0.40-9.73)
Ethanol	4.39 (0.55-147.6)	6.99 (1.54-61.7)
2-Butoxyethanol	6.19 (0.56-48.03)	3.30 (0.34-6.87)
Methanol	1.17 (0.50-16.5)	1.05 (0.55-10.4)
Total Spray Mist	2.22 (0.53-11.05)	0.65 (0.23-1.26)

CONCLUSIONS

Based on the sampling data presented in this report, and subjective observations of finishing operations in plants #1 and #2, exposures to organic solvents, with a few exceptions, are well within current standards and recommendations (table 1). No exposures to individual organic vapors were in excess of the current NIOSH or ACGIH recommendations. However, at three locations, booths #1, #7, and #14 in plant #1, cumulative exposures were in excess of current TLVs, indicating that improvement in ventilation control, or a change in operational setup (booth #1) or work practices is advisable.

Although exposures to 2-butoxyethanol were well below the current OSHA PEL and the ACGIH TLV, it is not known at present whether current limits are adequate to protect against potential reproductive health effects seen in recent animal exposure studies.

RECOMMENDATIONS

Particularly in plant #2, the company should carefully study material handling and product flow. Since the finishing operation is not conveyorized as is plant #1, many pieces of newly finished furniture tend to remain in open, unventilated storage areas while the finish is still wet, leading to unnecessary buildup of solvent vapors in the general area.

In plant #2, a bin of stripping solvent (used to wash or strip furniture with rags), was frequently left open during the survey, also leading to unnecessary buildup of solvent vapors in the area. More careful supervision of the workers in this area would help to alleviate this situation.

Maintenance of spray booths and general housekeeping could be improved, particularly in the plant #1 finishing area. In the case of booth #1 in plant #1, the spray operation setup needs to be carefully studied so that the ventilation provided by the booth can be more effectively utilized. The operator, at the time of survey, was required to spray too far from the control area of the booth.

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JOB CODE DICTIONARY, FINISHING AREA #1
HENREDON FURNITURE INDUSTRIES, INC.

<u>JOB CODE</u>	<u>JOB TITLE</u>
001	DRAWER COAT SPRAYER, BOOTH #1
002	PRESTAIN SPRAYER, BOOTH #3
003	SEALER SPRAYER, BOOTH #5
004	OIL SEALER SPRAYER, BOOTH #6
005	CLEAR SEALER SPRAYER, BOOTH #7
006	PADDING STAIN SPRAYER, BOOTH #8
007	SHADE STAIN SPRAYER, BOOTH #11
008	FIRST LACQUER SPRAYER, BOOTH #13
009	SPRAYER, REPAIR BOOTH #15
010	FINAL LACQUER SPRAYER, BOOTH #14
011	STAIN WIPER, AFTER BOOTH #8
012	STAIN WIPER, AFTER BOOTH #10
013	BULK STORAGE AREA ATTENDANT
014	SEALER WIPER, AFTER BOOTH #6

TABLE I
HENREDON FURNITURE INDUSTRIES, INC.
ACETONE SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D. LOG(GSD)	95% LCL+	95% UCL+
ALL	31	51.50	0.32	4.96	1.78	1.83	3.74	1.32	2.97
001	3	51.50	4.52	23.69	14.23	15.19	3.38	1.22	312.19
002	1	1.99							
003	2	2.61	0.72	1.66	0.95	1.37	2.49	0.91	5.0+E3
004*	3	1.82	0.47	1.20	0.39	1.04	2.03	0.71	6.04
005	3	7.57	3.70	5.94	1.16	5.68	1.46	0.38	14.57
006	1	0.93							
007	3	0.77	0.40	0.64	0.12	0.62	1.46	0.38	1.57
008	3	2.99	0.71	1.85	0.66	1.58	2.08	0.73	9.74
009	1	3.32							
010	2	21.49	13.63	17.56	3.93	17.12	1.38	0.32	307.91
011*	3	0.79	0.32	0.51	0.14	0.48	1.58	0.46	1.49
012	1	2.66							
013	3	1.86	0.45	1.37	0.46	1.14	2.26	0.81	8.60
014*	2	0.42	0.36	0.39	0.03	0.39	1.10	0.10	0.95

+Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE II
 HENREDON FURNITURE INDUSTRIES, INC.
 METHYL ETHYL KETONE SAMPLING SUMMARY, FINISHING AREA #1
 JUNE 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D	LOG(GSD)	95% LCL+	95% UCL+
ALL*	31	0.31	26.50	2.16	0.91	0.73	3.30	1.19	0.47	1.13
001	3	1.13	9.27	5.29	2.35	3.86	2.99	1.10	0.25	58.63
002	1	<0.66								
003*	2	0.36	0.65	0.51	0.15	0.48	1.53	0.42	0.01	21.84
004*	3	0.33	1.82	0.87	0.47	0.65	2.47	0.90	0.07	6.17
005	3	3.70	26.50	12.98	6.92	9.50	2.68	0.99	0.82	110.35
006	1	<0.93								
007*	3	0.38	0.40	0.39	0.01	0.39	1.02	0.02	0.37	0.41
008*	3	0.36	0.46	0.40	0.03	0.40	1.15	0.14	0.28	0.56
009	1	<0.99								
010*	2	0.38	0.47	0.42	0.04	0.42	1.16	0.15	0.11	1.59
011*	3	0.32	0.43	0.38	0.03	0.38	1.16	0.15	0.26	0.54
012	1	<0.89								
013*	3	0.31	1.19	0.65	0.27	0.55	2.01	0.70	0.10	3.10
014*	2	0.36	0.42	0.39	0.03	0.39	1.10	0.10	0.16	0.95

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
 STATISTICS MAY NOT BE ACCURATE

TABLE III
HENREDON FURNITURE INDUSTRIES, INC.
ETHYL ACETATE SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	LOG(GSD)	95% LCL+	95% UCL+
ALL	31	0.32	11.09	2.37	0.56	1.26	3.01	1.10	0.84	1.89
001	3	1.69	10.82	5.54	2.73	4.22	2.53	0.93	0.42	42.26
002	1	0.66								
003	2	6.45	11.09	8.77	2.32	8.46	1.47	0.38	0.27	265.71
004*	3	0.33	1.82	0.87	0.47	0.65	2.47	0.90	0.07	6.17
005	3	0.37	2.27	1.12	0.58	0.85	2.50	0.92	0.09	8.29
006	1	0.93								
007	3	0.76	1.60	1.04	0.28	0.98	1.53	0.42	0.34	2.80
008*	3	0.37	2.13	0.99	0.57	0.72	2.58	0.95	0.07	7.58
009	1	<0.66								
010	2	1.87	3.79	2.83	0.96	2.66	1.65	0.50	0.03	236.75
011	3	0.32	1.71	1.20	0.44	0.95	2.57	0.94	0.09	9.91
012	1	10.63								
013	3	0.45	2.38	1.56	0.58	1.26	2.47	0.90	0.13	11.88
014*	2	0.36	0.42	0.39	0.03	0.39	1.10	0.10	0.16	0.95

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE IV
HENREDON FURNITURE INDUSTRIES, INC.
TOLUENE SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	LOG(GSD)	95% LCL+	95% UCL+
ALL	34	2.16	127.15	25.24	5.73	13.46	2.96	1.08	9.23	19.64
001	3	22.43	127.15	68.48	30.88	54.21	2.38	0.87	6.28	468.20
002	3	6.85	14.55	9.68	2.44	9.14	1.50	0.41	3.33	25.08
003	3	7.90	23.66	16.68	4.64	15.12	1.78	0.58	3.62	63.19
004	3	7.92	18.28	11.94	3.21	11.17	1.55	0.44	3.76	33.13
005	3	25.28	95.78	50.91	22.51	42.49	2.04	0.71	7.23	249.71
006	1	3.88								
007	3	4.47	10.99	6.72	2.14	6.14	1.66	0.51	1.75	21.55
008	3	20.86	69.20	37.29	15.96	31.58	1.97	0.68	5.83	170.93
009	1	6.30								
010	2	64.02	125.39	94.71	30.69	89.60	1.61	0.48	1.25	6413.84
011	3	3.77	7.18	5.01	1.09	4.80	1.42	0.35	2.01	11.46
012	1	8.81								
013	3	2.16	8.22	4.70	1.82	4.04	1.96	0.67	0.76	21.48
014	2	7.61	7.83	7.72	0.11	7.72	1.02	0.02	6.48	9.20

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE V
HENREDON FURNITURE INDUSTRIES, INC.
ISOBUTYL ACETATE SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D. LOG(GSD)	95% LCL+	95% UCL+
ALL	34	0.54	120.80	14.11	3.91	6.04	3.74	1.32	3.81 9.56
001	3	19.63	120.80	63.36	30.00	49.01	2.48	0.91	5.13 468.43
002	3	4.80	8.95	6.95	1.20	6.73	1.37	0.32	3.07 14.73
003	3	9.02	15.99	12.77	2.03	12.42	1.34	0.29	6.02 25.65
004	3	2.61	2.88	2.71	0.09	2.71	1.06	0.05	2.37 3.10
005	3	12.26	40.87	23.09	8.96	20.07	1.88	0.63	4.19 96.23
006	1	1.94							
007	3	1.49	10.99	4.95	3.03	3.38	2.85	1.05	0.25 45.58
008	3	8.69	34.19	17.93	8.16	14.80	2.08	0.73	2.39 91.67
009	1	2.29							
010	2	22.60	40.51	31.55	8.96	30.26	1.51	0.41	0.74 1235.06
011	3	0.90	1.64	1.35	0.23	1.30	1.39	0.33	0.58 2.93
012	1	4.80							
013	3	0.54	2.74	1.51	0.65	1.22	2.25	0.81	0.16 9.21
014	2	1.52	2.13	1.83	0.31	1.80	1.27	0.24	0.21 15.42

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION

STATISTICS MAY NOT BE ACCURATE

TABLE VI
HENREDON FURNITURE INDUSTRIES, INC.
N-BUTYL ACETATE SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	LOG(GSD)	95% LCL+	95% UCL+
ALL	34	0.54	91.63	14.69	3.76	7.15	3.27	1.18	4.74	10.80
001	3	2.80	6.36	4.09	1.14	3.81	1.56	0.45	1.26	11.55
002	3	1.37	2.24	1.75	0.26	1.71	1.28	0.25	0.92	3.17
003	3	8.66	21.75	15.02	3.78	14.03	1.59	0.46	4.46	44.19
004	3	5.28	9.61	7.14	1.29	6.92	1.35	0.30	3.26	14.71
005	3	23.75	89.40	48.27	20.69	40.67	2.01	0.70	7.20	229.84
006	1	3.88								
007	3	2.98	10.99	5.97	2.53	5.05	1.99	0.69	0.91	27.91
008	3	13.25	35.82	21.57	7.16	19.51	1.70	0.53	5.19	73.30
009	1	4.01								
010	2	46.45	91.63	69.04	22.59	65.24	1.62	0.48	0.87	4890.21
011	3	4.53	5.38	4.94	0.25	4.93	1.09	0.09	3.97	6.11
012	1	8.01								
013	3	0.54	3.43	1.73	0.87	1.32	2.52	0.93	0.13	13.14
014	2	6.09	7.83	6.96	0.87	6.90	1.19	0.18	1.40	33.98

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

TABLE VII

HENREDON FURNITURE INDUSTRIES, INC.
ISOBUTYL ISOBUTYRATE SAMPLING SUMMARY, FINISHING AREA #1
June 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	LOG(GSD)	95% LCL+	95% UCL+
ALL	34	0.54	90.67	12.92	2.99	7.33	3.07	1.12	4.96	10.83
001	3	2.80	10.81	5.57	2.62	4.55	2.12	0.75	0.70	29.41
002	3	1.37	2.24	1.93	0.28	1.89	1.32	0.28	0.95	3.75
003	3	6.35	12.15	8.80	1.73	8.48	1.39	0.33	3.73	19.25
004	3	7.92	12.49	10.29	1.32	10.11	1.26	0.23	5.72	17.88
005	3	9.19	25.54	15.72	5.00	14.29	1.69	0.53	3.88	52.66
006	1	7.75								
007	3	4.47	10.99	6.72	2.14	6.14	1.66	0.51	1.75	21.55
008	3	16.36	35.82	24.35	5.88	23.04	1.49	0.40	8.50	62.40
009	1	7.44								
010	2	55.23	90.67	72.95	17.72	70.77	1.42	0.35	3.04	1649.64
011	3	8.30	9.00	8.76	0.23	8.75	1.05	0.05	7.81	9.80
012	1	8.01								
013	3	0.54	1.37	0.84	0.26	0.77	1.65	0.50	0.22	2.69
014	2	9.14	12.10	10.62	1.48	10.51	1.22	0.20	1.77	62.53

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

TABLE VIII

HENREDON FURNITURE INDUSTRIES, INC.
 VM&P NAPHTHA SAMPLING SUMMARY, FINISHING AREA #1
 June 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	5	42.69	13.21	25.22	5.31	23.02	1.62	0.48	12.66	41.86
004	3	28.83	13.21	22.72	4.82	21.50	1.53	0.43	7.48	61.84
014	2	42.69	15.23	28.96	13.73	25.50	2.07	0.73	0.04	17825.08

+ Units are in mg/m³

G.M.= GEOMETRIC MEAN; S.E.= STANDARD ERROR
 G.S.D.= GEOMETRIC STANDARD DEVIATION

TABLE IX

HENREDON FURNITURE INDUSTRIES, INC.
METHYL AMYL KETONE SAMPLING SUMMARY, FINISHING AREA #1
June 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	34	0.27	59.80	6.05	1.86	2.66	3.58	1.27	1.71	4.15
001*	3	0.64	1.40	0.94	0.24	0.88	1.51	0.41	0.32	2.46
002*	3	0.27	0.56	0.39	0.09	0.37	1.44	0.37	0.15	0.93
003	3	1.16	5.12	2.84	1.18	2.37	2.11	0.75	0.37	15.11
004	3	2.64	4.81	3.79	0.63	3.68	1.36	0.30	1.73	7.83
005	3	3.06	10.86	6.71	2.26	5.91	1.88	0.63	1.22	28.55
006	1	4.84								
007	3	2.23	10.99	5.19	2.90	3.87	2.47	0.91	0.41	36.66
008	3	7.79	16.28	10.63	2.83	9.97	1.53	0.42	3.48	28.63
009	1	3.43								
010	2	26.36	59.80	43.08	16.72	39.71	1.78	0.58	0.22	7227.42
011	3	2.69	6.04	4.27	0.97	4.05	1.50	0.40	1.48	11.05
012	1	2.40								
013*	3	0.34	0.62	0.50	0.08	0.49	1.36	0.31	0.22	1.05
014	2	1.42	1.52	1.47	0.05	1.47	1.05	0.05	0.96	2.26

+ Units are in mg/m3

G.M.= GEOMETRIC MEAN; S.E.= STANDARD ERROR

G.S.D.= GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION

STATISTICS MAY NOT BE ACCURATE

TABLE X
HENREDON FURNITURE INDUSTRIES, INC.
XYLENE SAMPLING SUMMARY, FINISHING AREA #1
June 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	34	0.54	50.16	8.22	1.88	4.15	3.32	1.20	2.73	6.30
001	3	2.80	19.71	9.06	5.35	6.36	2.75	1.01	0.52	78.54
002	3	0.56	1.64	0.96	0.34	0.86	1.77	0.57	0.21	3.54
003	3	6.35	10.87	8.37	1.33	8.17	1.31	0.27	4.17	15.99
004	3	2.64	5.77	3.89	0.96	3.68	1.50	0.40	1.35	10.03
005	3	9.96	35.12	20.41	7.57	17.81	1.89	0.64	3.67	86.42
006	1	1.94								
007	3	1.49	10.99	4.68	3.16	2.95	3.13	1.14	0.17	50.04
008	3	7.01	18.72	12.24	3.44	11.30	1.64	0.49	3.33	38.34
009	1	2.86								
010	2	27.62	50.16	38.89	11.27	37.22	1.52	0.42	0.84	1649.09
011	3	1.51	2.45	1.92	0.28	1.88	1.28	0.25	1.02	3.47
012	1	4.00								
013*	3	0.54	1.37	0.84	0.26	0.77	1.65	0.50	0.22	2.69
014	2	3.05	4.98	4.01	0.97	3.89	1.42	0.35	0.17	88.69

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XI
HENREDON FURNITURE INDUSTRIES, INC.
LACTOL SPIRITS SAMPLING SUMMARY, FINISHING AREA #1
June 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	33	2.86	317.88	30.51	10.06	13.53	3.25	1.18	8.92	20.52
001	3	56.08	317.88	166.03	78.43	130.31	2.38	0.87	15.07	1127.20
002	3	6.85	22.38	13.39	4.65	11.88	1.82	0.60	2.70	52.23
003	3	11.28	28.88	19.78	5.09	18.42	1.60	0.47	5.71	59.41
004	3	3.30	19.59	10.83	4.74	8.53	2.45	0.90	0.92	79.09
005	3	22.98	63.85	37.23	13.32	33.16	1.77	0.57	8.07	136.24
006	1	<9.69								
007*	2	3.72	3.92	3.82	0.10	3.82	1.04	0.04	2.73	5.35
008	3	8.69	56.99	27.09	15.08	19.76	2.62	0.96	1.81	215.93
009	1	<5.72								
010	2	37.66	67.52	52.59	14.93	50.43	1.51	0.41	1.24	2058.44
011*	3	3.77	4.49	4.12	0.21	4.11	1.09	0.09	3.31	5.09
012	1	<8.01								
013*	3	5.40	20.55	10.71	4.92	8.82	2.09	0.74	1.42	54.86
014*	2	7.12	7.61	7.36	0.25	7.36	1.05	0.05	4.79	11.31

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XII
HENREDON FURNITURE INDUSTRIES, INC.
ISOPROPYL ACETATE SAMPLING SUMMARY, FINISHING AREA #1
June 23-25, 1981

JOB	N	MIN+	MAX+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	6	6.95	58.84	23.22	8.28	16.73	2.44	0.89	6.55	42.74
003	1	7.68								
008	3	6.95	30.94	15.49	7.74	12.26	2.24	0.81	1.65	91.33
010	2	26.36	58.84	42.60	16.24	39.38	1.76	0.57	0.24	6465.29

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR
G.S.D.=GEOMETRIC STANDARD DEVIATION

TABLE XIII
HENREDON FURNITURE INDUSTRIES, INC.
MINERAL SPIRITS SAMPLING SUMMARY, FINISHING AREA #1
June 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	5	64.04	13.21	32.53	8.44	28.68	1.75	0.56	14.29	57.55
004	3	28.83	13.21	22.72	4.82	21.50	1.53	0.43	7.48	61.84
014	2	64.04	30.46	47.25	16.79	44.16	1.69	0.53	0.39	4964.28

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR
G.S.D.=GEOMETRIC STANDARD DEVIATION

TABLE XIV
 HENREDON FURNITURE INDUSTRIES, INC.
 MIBK SAMPLING SUMMARY, FINISHING AREA #1
 JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	6	3.77	0.48	1.52	0.53	1.15	2.21	0.79	0.50	2.65
006	1	<0.97								
007	2	0.78	0.74	0.76	0.02	0.76	1.04	0.04	0.55	1.07
011	3	3.77	0.90	2.37	0.83	2.02	2.09	0.74	0.32	12.64

Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR
 G.S.D.=GEOMETRIC STANDARD DEVIATION

TABLE XV
HENREDON FURNITURE INDUSTRIES, INC.
ISOPROPYL ALCOHOL SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	123.05	0.33	14.13	4.55	4.34	4.85	1.58	2.45	7.66
001	3	27.41	9.40	18.44	5.20	16.83	1.72	0.54	4.38	64.64
002	3	3.81	2.37	2.96	0.44	2.90	1.28	0.25	1.58	5.33
003	2	7.90	7.58	7.74	0.16	7.74	1.03	0.03	5.97	10.02
004	3	1.36	0.33	0.93	0.31	0.79	2.15	0.76	0.12	5.24
005	3	123.05	21.89	55.76	33.65	39.18	2.69	0.99	3.34	459.63
006	1	<1.32								
007	2	1.34	0.62	0.98	0.36	0.91	1.71	0.54	0.01	115.84
008	3	34.25	10.12	18.94	7.68	16.29	1.92	0.65	3.22	82.30
010	2	81.41	36.34	58.87	22.53	54.39	1.77	0.57	0.32	9141.11
011	3	1.60	0.92	1.27	0.20	1.24	1.32	0.28	0.62	2.48
012	2	2.95	2.21	2.58	0.37	2.55	1.23	0.21	0.40	16.22
013*	3	9.47	0.56	4.94	2.57	2.94	4.37	1.48	0.08	114.88
014*	2	0.85	0.64	0.74	0.10	0.73	1.22	0.20	0.12	4.38

Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XVI
HENREDON FURNITURE INDUSTRIES, INC.
ETHANOL SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	147.58	0.55	21.18	7.60	4.39	5.54	1.71	2.37	8.13
001	3	3.12	1.17	1.90	0.61	1.73	1.68	0.52	0.48	6.26
002	3	6.08	2.96	4.42	0.91	4.24	1.43	0.36	1.73	10.37
003	2	2.33	2.26	2.29	0.04	2.29	1.02	0.02	1.86	2.84
004	3	1.36	0.55	0.85	0.25	0.79	1.62	0.48	0.24	2.60
005	3	18.13	8.93	12.79	2.76	12.23	1.43	0.36	4.99	29.96
006	1	34.38								
007	2	19.98	10.70	15.34	4.64	14.62	1.55	0.44	0.28	770.95
008	3	3.79	1.66	2.60	0.63	2.45	1.51	0.41	0.87	6.87
010*	2	2.44	0.61	1.52	0.92	1.22	2.68	0.99	0.00	8555.20
011	3	136.25	9.24	91.59	41.22	54.59	4.66	1.54	1.19	2497.09
012	2	147.58	110.31	128.94	18.64	127.59	1.23	0.21	20.07	811.11
013*	3	1.26	0.56	0.81	0.23	0.75	1.57	0.45	0.24	2.31
014*	2	1.69	0.64	1.16	0.53	1.04	1.99	0.69	0.00	506.60

+Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XVII
HENREDON FURNITURE INDUSTRIES, INC.
2-BUTOXYETHANOL SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	48.03	0.56	10.41	2.04	6.19	3.07	1.12	4.14	9.27
001	3	11.84	4.70	7.89	2.10	7.34	1.59	0.46	2.33	23.19
002	3	2.96	0.85	1.72	0.64	1.50	1.88	0.63	0.31	7.23
003	2	13.54	12.25	12.89	0.64	12.87	1.07	0.07	6.81	24.33
004	3	6.78	4.60	5.62	0.63	5.54	1.21	0.19	3.42	8.99
005	3	45.33	11.30	23.05	11.15	18.57	2.17	0.77	2.71	127.21
006	1	5.29								
007	2	4.01	3.12	3.57	0.45	3.54	1.19	0.18	0.72	17.48
008	3	21.79	8.85	14.37	3.86	13.40	1.58	0.45	4.33	41.47
010	2	48.03	32.70	40.37	7.66	39.63	1.31	0.27	3.45	455.48
011	3	12.01	5.17	7.86	2.10	7.36	1.55	0.44	2.48	21.83
012	2	5.90	5.88	5.89	0.01	5.89	1.00	0.00	5.77	6.02
013*	3	1.89	0.56	1.02	0.44	0.86	1.99	0.69	0.16	4.72
014	2	10.21	7.61	8.91	1.30	8.81	1.23	0.21	1.36	57.09

+Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XVIII
HENREDON FURNITURE INDUSTRIES, INC.
METHANOL SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL*	35	16.54	0.50	2.09	0.55	1.17	2.49	0.91	0.85	1.60
001	3	5.38	0.63	2.52	1.46	1.73	2.95	1.08	0.12	25.39
002	3	16.54	5.46	10.61	3.22	9.61	1.74	0.55	2.42	38.09
003*	3	0.98	0.50	0.70	0.15	0.67	1.42	0.35	0.28	1.59
004*	3	1.02	0.58	0.76	0.13	0.74	1.33	0.28	0.37	1.51
005*	3	0.95	0.73	0.82	0.07	0.82	1.14	0.13	0.58	1.14
006	1	5.29								
007	3	1.72	0.70	1.27	0.30	1.18	1.60	0.47	0.37	3.82
008*	3	1.02	0.67	0.82	0.11	0.81	1.24	0.22	0.47	1.38
009	1	<1.36								
010*	2	0.82	0.69	0.76	0.07	0.75	1.13	0.12	0.25	2.31
011*	3	0.82	0.65	0.72	0.05	0.72	1.13	0.13	0.52	0.98
012*	2	6.24	0.77	3.50	2.73	2.19	4.39	1.48	0.00	1.3+E6
013*	3	1.39	0.55	0.85	0.27	0.78	1.66	0.50	0.22	2.74
014*	2	0.74	0.64	0.69	0.05	0.69	1.11	0.10	0.27	1.74

+Units are in mg/m³

G.M.= GEOMETRIC MEAN; S.E.= STANDARD ERROR

G.S.D.= GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XIX
HENREDON FURNITURE INDUSTRIES, INC.
TOTAL SPRAY MIST SAMPLING SUMMARY, FINISHING AREA #1
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	11	11.05	0.53	3.44	1.00	2.22	2.75	1.01	1.13	4.34
001	3	11.05	4.55	6.93	2.07	6.39	1.61	0.48	1.94	21.01
002	3	0.84	0.53	0.71	0.09	0.70	1.27	0.24	0.39	1.27
003	2	1.69	0.98	1.34	0.35	1.29	1.47	0.38	0.04	40.68
008	2	3.36	1.80	2.58	0.78	2.46	1.55	0.44	0.05	127.86
010	1	7.08								

+Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR
G.S.D.=GEOMETRIC STANDARD DEVIATION

JOB CODE DICTIONARY, FINISHING AREA #2
HENREDON FURNITURE INDUSTRIES, INC.

<u>JOB CODE</u>	<u>JOB TITLE</u>
001	DRAWER COAT SPRAYER, BOOTH #3A
002	BLEACH SPRAYER, BOOTH #2
003	DRAWER COAT SPRAYER, BOOTH #3B
004	PADDER WIPER (ALCOHOL)
005	FILLER GLAZE SPRAYER, BOOTH #4
006	FILLER WIPER, BOOTH #4
007	SEALER SPRAYER, BOOTH #5
008	STAIN SPRAYER, BOOTH #8
009	STAIN SPRAYER, BOOTH #6
010	LACQUER SPRAYER, BOOTH #9
011	LACQUER SPRAYER, BOOTH #11
012	SHADE STAIN SPRAYER, BOOTH #10
013	SEALER SPRAYER, BOOTH #5
014	SPRAYER (PAINT), BOOTH #1
015	SEALER SPRAYER, BOOTH #7
016	FILLER WIPER, BOOTH #4

TABLE XX
HENREDON FURNITURE INDUSTRIES, INC.
ACETONE SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	34	19.92	0.23	2.23	0.60	1.15	3.09	1.13	0.78	1.71
001	3	3.25	0.33	1.79	0.84	1.25	3.25	1.18	0.07	23.35
002	3	1.54	1.09	1.37	0.14	1.35	1.21	0.19	0.85	2.15
003*	2	0.75	0.46	0.60	0.15	0.58	1.42	0.35	0.03	13.64
004	1	1.43								
005	2	4.32	0.39	2.35	1.97	1.29	5.52	1.71	2.8+E-7	6.01+E6
006*	3	0.64	0.37	0.49	0.08	0.48	1.32	0.28	0.24	0.96
007*	3	4.15	0.33	1.63	1.26	0.82	4.09	1.41	0.02	27.08
009	3	4.49	0.35	2.49	1.20	1.61	3.82	1.34	0.06	45.02
010*	2	4.31	2.20	3.26	1.05	3.08	1.61	0.47	0.04	218.92
011*	2	4.65	0.31	2.48	2.17	1.21	6.72	1.90	4.5+E-5	3.3+E7
012	1	<0.59								
013	3	2.78	0.23	1.54	0.74	1.00	3.74	1.32	0.04	26.57
014	3	19.92	0.32	7.69	6.16	2.62	7.89	2.07	0.02	443.58
015	1	4.29								
016*	2	0.84	0.47	0.65	0.19	0.63	1.52	0.42	0.01	26.42

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXI
 HENREDON FURNITURE INDUSTRIES, INC.
 MEK SAMPLING SUMMARY, FINISHING AREA #2
 JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	33	1.49	<0.45	No statistics were calculated since nearly all reported analytical values were below the limit of detection (<0.01 mg)						
001	3									
002	3									
003	2									
004	1									
005	2									
006	3									
007	3									
009	3									
010	1									
011	2									
012	1									
013	3									
014	3									
015	1									
016	2									

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

TABLE XXII
HENREDON FURNITURE INDUSTRIES, INC.
ETHYL ACETATE SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	35	4.22	0.26	1.10	0.19	0.78	2.18	0.78	0.60	1.02
001	3	0.81	0.60	0.69	0.06	0.69	1.17	0.16	0.46	1.02
002*	3	0.55	0.26	0.39	0.08	0.37	1.46	0.38	0.15	0.95
003*	3	4.22	0.46	2.06	1.12	1.42	3.04	1.11	0.09	22.60
004	1	0.71								
005*	2	0.39	0.36	0.37	0.01	0.37	1.05	0.05	0.24	0.57
006*	3	0.47	0.32	0.39	0.04	0.38	1.21	0.19	0.24	0.61
007	3	4.01	3.46	3.81	0.18	3.80	1.09	0.08	3.10	4.65
009	3	1.32	0.71	0.92	0.20	0.89	1.41	0.34	0.38	2.08
010*	2	2.20	0.62	1.41	0.79	1.16	2.46	0.90	0.00	3834.65
011*	2	1.16	0.31	0.74	0.42	0.61	2.52	0.92	0.00	2453.94
012	1	1.19								
013	3	1.36	0.80	1.09	0.16	1.07	1.30	0.26	0.55	2.06
014	3	1.00	0.28	0.64	0.21	0.56	1.90	0.64	0.12	2.77
015	1	0.61								
016*	2	0.47	0.42	0.44	0.02	0.44	1.08	0.07	0.23	0.86

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXIII
HENREDON FURNITURE INDUSTRIES, INC.
TOLUENE SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	22.33	1.77	8.14	0.90	6.81	1.86	0.62	5.45	8.51
001	3	12.30	6.40	10.11	1.86	9.71	1.44	0.36	3.95	23.86
002	3	7.73	2.11	5.45	1.71	4.74	2.02	0.70	0.82	27.28
003	1	8.03								
004	1	3.42								
005	1	4.32								
006	3	4.72	3.01	3.60	0.56	3.52	1.29	0.26	1.86	6.64
007	3	11.94	10.07	10.77	0.59	10.74	1.10	0.09	8.53	13.52
008	1	1.77								
009	2	5.83	4.12	4.98	0.86	4.90	1.28	0.25	0.54	44.45
010	3	19.09	10.21	13.85	2.68	13.37	1.38	0.32	6.01	29.73
011	1	8.81								
012	1	6.62								
013	3	8.70	7.24	7.95	0.42	7.93	1.10	0.09	6.31	9.96
014	3	20.45	4.93	10.51	4.98	8.53	2.15	0.77	1.27	57.10
015	1	22.33								
016	2	4.93	3.66	4.29	0.63	4.24	1.23	0.21	0.64	28.18

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXIV
HENREDON FURNITURE INDUSTRIES, INC.
ISOBUTYL ACETATE SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	14.41	0.44	3.88	0.51	3.07	2.04	0.71	2.37	3.96
001	3	6.48	5.08	5.99	0.45	5.95	1.15	0.14	4.24	8.36
002	3	4.34	2.11	3.01	0.68	2.87	1.45	0.37	1.14	7.24
003	1	8.03								
004	1	1.37								
005	1	2.88								
006	3	2.01	1.02	1.64	0.31	1.57	1.46	0.38	0.62	4.00
007	3	4.41	3.15	3.93	0.39	3.88	1.20	0.18	2.46	6.13
008	1	<0.88								
009	2	2.19	1.65	1.92	0.27	1.90	1.22	0.20	0.32	11.43
010	3	4.93	1.75	2.91	1.01	2.60	1.75	0.56	0.65	10.41
011	1	2.52								
012	1	2.21								
013	3	6.32	2.72	4.13	1.11	3.86	1.55	0.44	1.29	11.51
014	3	9.30	4.23	6.79	1.46	6.45	1.49	0.40	2.40	17.33
015	1	14.41								
016	2	1.83	1.64	1.73	0.09	1.73	1.08	0.08	0.88	3.43

+ Units are in mg/m³

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXV
HENREDON FURNITURE INDUSTRIES, INC.
ISOBUTYL ISOBUTYRATE SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	13.55	0.88	4.78	0.45	4.17	1.73	0.55	3.42	5.08
001	3	6.48	2.91	4.34	1.09	4.09	1.51	0.41	1.46	11.42
002	3	3.86	1.41	2.96	0.78	2.70	1.76	0.56	0.66	10.99
003	1	5.11								
004	1	2.05								
005	1	5.76								
006	3	3.05	2.83	2.97	0.07	2.97	1.04	0.04	2.69	3.27
007	3	7.03	5.15	5.95	0.56	5.90	1.17	0.16	3.97	8.76
008	1	0.88								
009	2	3.30	2.92	3.11	0.19	3.10	1.09	0.09	1.42	6.78
010	3	13.55	6.13	9.05	2.28	8.53	1.51	0.41	3.06	23.78
011	1	10.70								
012	1	6.62								
013	3	4.69	3.95	4.24	0.23	4.22	1.10	0.09	3.37	5.30
014	3	4.96	2.11	3.50	0.82	3.30	1.53	0.43	1.14	9.54
015	1	4.32								
016	2	6.40	5.75	6.07	0.33	6.06	1.08	0.08	3.06	12.00

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXVI
HENREDON FURNITURE INDUSTRIES, INC.
METHYL AMYL KETONE SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	4.93	0.35	1.41	0.21	1.02	2.27	0.82	0.76	1.37
001	3	2.59	0.58	1.30	0.65	1.03	2.24	0.81	0.14	7.63
002*	3	0.64	0.35	0.45	0.10	0.43	1.41	0.34	0.19	1.01
003	1	1.46								
004	1	0.68								
005	1	<0.72								
006*	3	0.51	0.47	0.49	0.01	0.49	1.04	0.04	0.45	0.55
007	3	3.51	1.26	2.57	0.68	2.35	1.73	0.55	0.60	9.20
008	1	<.88								
009	2	0.82	0.73	0.78	0.05	0.78	1.09	0.09	0.35	1.69
010	3	4.93	2.04	3.20	0.88	2.98	1.57	0.45	0.97	9.19
011	1	3.15								
012	1	2.21								
013	3	2.68	1.58	2.17	0.32	2.12	1.31	0.27	1.09	4.15
014	3	1.37	0.35	0.78	0.30	0.67	1.98	0.68	0.12	3.64
015	1	1.44								
016*	2	0.46	0.41	0.43	0.02	0.43	1.08	0.08	0.22	0.86

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXVII
HENREDON FURNITURE INDUSTRIES, INC.
XYLENES SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	8.01	0.70	2.79	0.30	2.34	1.84	0.61	1.88	2.92
001	3	5.18	1.45	2.79	1.20	2.36	1.99	0.69	0.43	13.02
002	3	2.89	0.70	2.06	0.68	1.74	2.19	0.78	0.25	12.21
003	1	2.92								
004	1	2.05								
005	1	1.44								
006	3	1.89	1.00	1.30	0.29	1.25	1.44	0.36	0.51	3.06
007	3	5.62	4.40	5.06	0.35	5.03	1.13	0.12	3.70	6.84
008	1	<1.77								
009	2	1.65	1.46	1.55	0.10	1.55	1.09	0.09	0.71	3.39
010	3	8.01	2.63	4.91	1.61	4.41	1.75	0.56	1.09	17.79
011	1	5.03								
012	1	2.94								
013	3	3.17	2.01	2.52	0.34	2.47	1.26	0.23	1.39	4.38
014	3	3.10	1.41	2.42	0.51	2.29	1.53	0.42	0.80	6.56
015	1	4.32								
016	2	2.46	0.91	1.69	0.77	1.50	2.02	0.70	0.00	814.47

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXVIII
 HENREDON FURNITURE INDUSTRIES, INC.
 LACTOL SPIRITS SAMPLING SUMMARY, FINISHING AREA #2
 JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL*	32	28.82	3.15	7.98	1.00	6.68	1.77	0.57	5.44	8.20
001	3	17.45	12.95	14.97	1.32	14.86	1.16	0.15	10.23	21.60
002*	3	7.24	3.52	5.73	1.13	5.47	1.47	0.39	2.09	14.31
003	1	14.60								
004	1	6.83								
005*	1	<7.20								
006*	3	5.09	4.72	4.94	0.11	4.94	1.04	0.04	4.48	5.45
007	3	7.36	6.29	6.89	0.31	6.88	1.08	0.08	5.63	8.40
008	1	<8.85								
009*	2	4.12	3.65	3.88	0.24	3.88	1.09	0.09	1.77	8.47
010*	3	12.32	3.40	6.70	2.82	5.68	1.98	0.68	1.05	30.90
011*	1	<6.29								
012*	1	<7.36								
013	3	9.05	6.70	7.88	0.68	7.82	1.16	0.15	5.38	11.38
014	3	18.59	6.85	10.83	3.88	9.64	1.77	0.57	2.35	39.61
015	1	28.82								
016*	2	4.57	4.10	4.34	0.23	4.33	1.08	0.08	2.19	8.57

+ Units are in mg/m³

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR
 G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
 STATISTICS MAY NOT BE ACCURATE

TABLE XXIX
HENREDON FURNITURE INDUSTRIES, INC.
MINERAL SPIRITS SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	8	82.26	3.42	32.69	9.73	22.10	2.83	1.04	9.26	52.77
004*	1	<6.83								
005	1	50.39								
006	3	20.34	9.45	16.63	3.59	15.69	1.55	0.44	5.27	46.71
013	1	18.11								
016	2	82.26	57.46	69.86	12.40	68.75	1.29	0.25	7.04	671.67

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXX
 HENREDON FURNITURE INDUSTRIES, INC.
 ISOPROPYL ACETATE SAMPLING SUMMARY, FINISHING AREA #2
 JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	5	3.51	1.58	2.63	0.36	2.53	1.39	0.33	1.69	3.79
007	3	3.51	2.21	2.75	0.39	2.69	1.27	0.24	1.48	4.88
013	2	3.35	1.58	2.46	0.88	2.30	1.70	0.53	0.02	271.51

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR
 G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
 STATISTICS MAY NOT BE ACCURATE

TABLE XXXI
HENREDON FURNITURE INDUSTRIES, INC.
TOTAL SPRAY MIST SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	13	1.26	0.23	0.74	0.10	0.65	1.79	0.58	0.46	0.93
001	1	1.26								
002	2	1.09	0.38	0.74	0.36	0.64	2.12	0.75	0.00	544.58
003	2	0.47	0.24	0.35	0.12	0.33	1.62	0.48	0.00	25.38
005	2	1.16	0.88	1.02	0.14	1.01	1.21	0.19	0.18	5.75
007	1	0.71								
013	2	0.56	0.23	0.39	0.16	0.36	1.88	0.63	0.00	101.44
014	3	0.99	0.75	0.90	0.07	0.89	1.16	0.15	0.61	1.30

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR
G.S.D.=GEOMETRIC STANDARD DEVIATION
* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXXII
HENREDON FURNITURE INDUSTRIES, INC.
ISOPROPYL ALCOHOL SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	9.73	0.40	3.76	0.46	2.86	2.26	0.82	2.13	3.84
001	3	9.03	2.65	5.79	1.84	5.15	1.86	0.62	1.10	23.99
002	3	5.49	0.77	3.14	1.36	2.37	2.75	1.01	0.19	29.19
003	2	9.73	2.55	6.14	3.59	4.98	2.57	0.95	1.0+E-3	2.4+E4
004	1	1.37								
005	1	<2.13								
006	2	1.86	0.52	1.19	0.67	0.98	2.47	0.90	2.9+E-4	3.2+E3
007	3	5.49	4.31	5.09	0.39	5.05	1.15	0.14	3.58	7.13
008	1	1.54								
009	2	2.65	0.40	1.53	1.12	1.03	3.79	1.33	6.6+E-6	1.6+E5
010	3	7.96	5.56	6.57	0.72	6.50	1.20	0.18	4.12	10.26
011	1	4.61								
012	1	2.47								
013	3	3.25	2.68	2.94	0.17	2.93	1.10	0.10	2.30	3.73
014	3	3.86	1.78	2.80	0.60	2.66	1.47	0.39	1.02	6.97
015	1	9.36								
016	2	2.24	0.95	1.59	0.65	1.46	1.84	0.61	0.01	341.11

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXXIII
HENREDON FURNITURE INDUSTRIES, INC.
ETHANOL SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	61.66	1.54	10.14	2.06	6.99	2.31	0.84	5.17	9.45
001	3	8.38	5.30	6.46	0.97	6.33	1.28	0.25	3.43	11.67
002	3	10.98	1.54	6.27	2.72	4.74	2.75	1.01	0.39	58.37
003	2	5.56	4.47	5.01	0.54	4.98	1.17	0.15	1.25	19.92
004	1	34.90								
005	1	2.13								
006	2	6.50	2.07	4.28	2.21	3.67	2.25	0.81	0.03	5.3+E3
007	3	10.99	7.79	8.89	1.05	8.78	1.22	0.19	5.41	14.24
008	1	61.66								
009	2	16.56	6.45	11.50	5.06	10.33	1.95	0.67	0.03	4.1+E3
010	3	10.84	6.63	8.14	1.35	7.94	1.31	0.27	4.05	15.55
011	1	12.50								
012	1	25.95								
013	3	10.71	8.66	9.98	0.66	9.93	1.13	0.12	7.39	13.35
014	3	4.13	1.78	2.83	0.69	2.66	1.52	0.42	0.94	7.58
015	1	9.36								
016	2	6.72	1.90	4.31	2.41	3.57	2.44	0.89	1.2+E-3	1.1+E4

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXXIV
HENREDON FURNITURE INDUSTRIES, INC.
2-BUTOXYETHANOL SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	6.87	0.34	3.78	0.30	3.30	1.84	0.61	2.65	4.11
001	3	6.45	2.14	3.74	1.36	3.32	1.80	0.59	0.78	14.19
002	3	4.12	1.54	2.79	0.74	2.58	1.64	0.49	0.76	8.75
003	2	3.19	2.08	2.64	0.55	2.58	1.35	0.30	0.17	38.69
004	1	<0.68								
005	1	4.26								
006	2	2.78	2.07	2.43	0.36	2.40	1.23	0.21	0.36	15.90
007	3	6.87	5.46	6.02	0.43	5.99	1.13	0.12	4.44	8.09
008	1	1.54								
009	2	1.99	1.61	1.80	0.19	1.79	1.16	0.15	0.47	6.76
010	3	5.97	5.42	5.65	0.16	5.65	1.05	0.05	4.99	6.39
011	1	5.92								
012	1	3.71								
013	3	4.87	4.02	4.50	0.25	4.49	1.10	0.10	3.50	5.75
014	3	3.44	2.97	3.21	0.14	3.20	1.08	0.07	2.67	3.84
015	1	6.24								
016	2	3.80	3.73	3.76	0.03	3.76	1.01	0.01	3.38	4.19

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXXV
HENREDON FURNITURE INDUSTRIES, INC.
METHANOL SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL*	35	10.43	0.55	1.47	0.31	1.05	2.01	0.70	0.83	1.33
001	3	10.43	3.70	6.15	2.15	5.51	1.75	0.56	1.38	22.04
002*	3	1.16	0.56	0.76	0.20	0.72	1.52	0.42	0.25	2.04
003*	2	1.99	0.63	1.31	0.68	1.12	2.25	0.81	7.6+E-4	1.7+E3
004	1	<1.52								
005*	2	1.91	0.90	1.41	0.51	1.31	1.70	0.53	0.01	158.14
006*	3	0.98	0.80	0.86	0.06	0.86	1.12	0.12	0.64	1.15
007*	3	0.75	0.66	0.69	0.03	0.69	1.07	0.06	0.59	0.81
008	1	<1.62								
009*	3	1.39	0.68	0.94	0.23	0.89	1.48	0.39	0.34	2.34
010*	2	4.03	0.69	2.36	1.67	1.67	3.48	1.25	2.3+E-5	1.2+E5
011*	2	2.14	0.69	1.42	0.72	1.22	2.22	0.80	9.2+E-4	1.6+E3
012	1	<1.24								
013*	3	1.39	0.55	0.88	0.26	0.81	1.62	0.48	0.24	2.67
014*	3	0.68	0.59	0.62	0.03	0.62	1.07	0.07	0.52	0.74
015	1	<3.29								
016*	2	1.04	0.78	0.91	0.13	0.90	1.22	0.20	0.15	5.43

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

TABLE XXXVI
HENREDON FURNITURE INDUSTRIES, INC.
N-BUTYL ACETATE SAMPLING SUMMARY, FINISHING AREA #2
JUNE 23-25, 1981

JOB CODE	N	MAX+	MIN+	MEAN+	S.E.+	G.M.+	G.S.D.	SD(LOG)	95% LCL+	95% UCL+
ALL	32	20.60	1.41	6.76	0.87	5.33	2.01	0.70	4.15	6.85
001	3	14.89	2.91	7.39	3.78	5.74	2.34	0.85	0.69	47.47
002	3	6.44	1.41	4.30	1.50	3.58	2.26	0.82	0.47	27.28
003	1	5.84								
004	1	3.42								
005	1	3.60								
006	3	4.72	3.01	3.60	0.56	3.52	1.29	0.26	1.86	6.64
007	3	20.60	13.84	17.10	1.95	16.88	1.22	0.20	10.30	27.66
008	1	1.77								
009	2	3.30	2.92	3.11	0.19	3.10	1.09	0.09	1.42	6.78
010	3	14.16	6.13	9.03	2.57	8.39	1.58	0.46	2.70	26.07
011	1	6.92								
012	1	5.15								
013	3	11.85	8.60	10.39	0.95	10.30	1.18	0.16	6.85	15.47
014	3	3.42	2.11	2.88	0.39	2.82	1.29	0.25	1.50	5.31
015	1	11.53								
016	2	4.93	2.74	3.83	1.09	3.68	1.51	0.41	0.09	151.79

+ Units are in mg/m3

G.M.=GEOMETRIC MEAN; S.E.=STANDARD ERROR

G.S.D.=GEOMETRIC STANDARD DEVIATION

* 50% OR MORE OF VALUES BELOW LIMIT OF DETECTION
STATISTICS MAY NOT BE ACCURATE

APPENDIX A

NOTE: THE NEGATIVE VALUES IN THE ANALYTICAL WEIGHT AND CONCENTRATION COLUMNS ARE "FLAGS" WHICH ARE USED TO INDICATE VALUES BELOW THE LIMIT OF DETECTION. FOR EXAMPLE, A VALUE OF -0.01 MG/M^3 INDICATES A CONCENTRATION OF LESS THAN 0.01 MG/M^3 .

TABLE A1

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: ACETONE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT077	001	7 55	15 13	12125	17401	2.77	0.22	438	14.61	15.05
6/24	CT255	001	7 27	15 0	20235	26707	3.00	1.00	453	19.42	51.50
6/25	CT323	001	7 25	14 0	18066	24724	2.66	0.08	395	17.71	4.52
6/23	CT104	003	8 10	15 19	42100	48354	2.45	0.04	429	15.32	2.61
6/25	CT313	003	7 49	14 8	20895	26064	2.70	0.01	379	13.96	0.72
6/23	CT058	004	8 17	15 18	89942	96515	2.32	0.02	421	15.25	1.31
6/24	CT261	004	7 57	15 9	26655	28059	1.96	-0.01	432	2.75	-3.63
6/25	CT248	004	8 4	14 12	92322	98515	1.73	-0.01	368	10.71	-0.93
6/23	CT022	005	8 26	15 22	82998	90665	1.79	0.09	416	13.72	6.56
6/24	CT235	005	8 21	15 2	18349	24091	2.30	0.10	401	13.21	7.57
6/25	CT310	005	7 38	14 5	19797	24936	2.63	0.05	387	13.52	3.70
6/23	CT009	006	10 45	15 11	41098	44964	2.79	0.01	266	10.79	0.93
6/23	CT095	007	8 42	15 18	43052	48945	2.20	0.01	396	12.96	0.77
6/24	CT286	007	8 33	15 4	17401	21927	2.77	-0.01	391	12.54	-0.80
6/25	CT311	007	8 10	14 7	22524	27336	2.73	0.01	357	13.14	0.76
6/23	CT080	008	8 51	15 18	14079	18415	2.48	0.02	387	10.75	1.86
6/24	CT277	008	8 59	15 3	15939	20895	2.70	0.04	364	13.38	2.99
6/25	CT307	008	8 29	14 11	28190	33645	2.58	0.01	342	14.07	0.71
6/23	CT069	009	8 58	15 12	13730	23771	1.50	0.05	374	15.06	3.32
6/24	CT182	010	9 10	14 56	17688	22524	2.73	0.18	346	13.20	13.63
6/25	CT226	010	8 37	14 15	27059	31614	2.35	0.23	338	10.70	21.49
6/23	CT082	011	9 6	15 12	38825	45290	1.96	0.01	366	12.67	0.79
6/24	CT298	011	8 45	15 6	22158	28190	2.58	-0.01	381	15.56	-0.64
6/25	CT305	011	8 5	14 10	24091	29186	2.30	-0.01	365	11.72	-0.85
6/23	CT142	012	9 14	15 18	16386	21189	2.35	0.03	364	11.29	2.66
6/23	CT064	013	10 40	15 15	13612	17544	2.85	-0.01	275	11.21	-0.89
6/24	CT232	013	8 6	15 20	57201	63728	2.57	0.03	434	16.77	1.79
6/25	CT308	013	7 40	14 15	17666	22969	3.04	0.03	395	16.12	1.86
6/24	CT274	014	7 58	15 8	21189	27059	2.35	-0.01	430	13.79	-0.72
6/25	CT423	014	8 2	14 11	97783	104475	1.79	-0.01	369	11.98	-0.83
6/25	CT314	002	7 30	14 4	15457	20584	2.94	0.03	394	15.07	1.99

TABLE A2

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: METHYLETHYL KETONE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT077	001	7 55	15 13	12125	17401	2.77	0.08	438	14.61	5.47
6/24	CT255	001	7 27	15 0	20235	26707	3.00	0.18	453	19.42	9.27
6/25	CT323	001	7 25	14 0	18066	24724	2.66	0.02	395	17.71	1.13
6/23	CT104	003	8 10	15 19	42100	48354	2.45	0.01	429	15.32	0.65
6/25	CT313	003	7 49	14 8	20895	26064	2.70	-0.01	379	13.96	-0.72
6/23	CT058	004	8 17	15 18	89942	96515	2.32	-0.01	421	15.25	-0.66
6/24	CT261	004	7 57	15 9	26655	28059	1.96	-0.01	432	2.75	-3.63
6/25	CT248	004	8 4	14 12	92322	98515	1.73	-0.01	368	10.71	-0.93
6/23	CT022	005	8 26	15 22	82998	90665	1.79	0.12	416	13.72	8.74
6/24	CT235	005	8 21	15 2	18349	24091	2.30	0.35	401	13.21	26.50
6/25	CT310	005	7 38	14 5	19797	24936	2.63	0.05	387	13.52	3.70
6/23	CT009	006	10 45	15 11	41098	44964	2.79	-0.01	266	10.79	-0.93
6/23	CT095	007	8 42	15 18	43052	48945	2.20	-0.01	396	12.96	-0.77
6/24	CT286	007	8 10	14 7	22524	27336	2.73	-0.01	357	13.14	-0.76
6/25	CT311	007	8 33	15 4	17401	21927	2.77	-0.01	391	12.54	-0.80
6/23	CT080	008	8 51	15 18	14079	18415	2.48	-0.01	387	10.75	-0.93
6/24	CT277	008	8 29	14 11	28190	33645	2.58	-0.01	342	14.07	-0.71
6/25	CT307	008	8 59	15 3	15939	20895	2.70	-0.01	364	13.38	-0.75
6/23	CT069	009	8 58	15 12	13730	23771	1.50	-0.01	374	15.06	-0.66
6/24	CT182	010	9 10	14 56	17688	22524	2.73	-0.01	346	13.20	-0.76
6/25	CT226	010	8 37	14 15	27059	31614	2.35	-0.01	338	10.70	-0.93
6/23	CT082	011	9 6	15 12	38825	45290	1.96	-0.01	366	12.67	-0.79
6/24	CT298	011	8 45	15 6	22158	28190	2.58	-0.01	381	15.56	-0.64
6/25	CT305	011	8 5	14 10	24091	29186	2.30	-0.01	365	11.72	-0.85
6/23	CT142	012	9 14	15 18	16386	21189	2.35	-0.01	364	11.29	-0.89
6/23	CT064	013	10 40	15 15	13612	17544	2.85	-0.01	275	11.21	-0.89
6/24	CT232	013	8 6	15 20	57201	63728	2.57	0.02	434	16.77	1.19
6/25	CT308	013	7 40	14 15	17666	22969	3.04	-0.01	395	16.12	-0.62
6/24	CT274	014	7 58	15 8	21189	27059	2.35	-0.01	430	13.79	-0.72
6/25	CT423	014	8 2	14 11	97783	104475	1.79	-0.01	369	11.98	-0.83
6/25	CT314	002	7 30	14 4	15457	20584	2.94	-0.01	394	15.07	-0.66

TABLE A3

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: ETHYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT077	001	7 55	15 13	12125	17401	2.77	0.06	438	14.61	4.11
6/24	CT255	001	7 27	15 0	20235	26707	3.00	0.21	453	19.42	10.82
6/25	CT323	001	7 25	14 0	18066	24724	2.66	0.03	395	17.71	1.69
6/23	CT104	003	8 10	15 19	42100	48354	2.45	0.17	429	15.32	11.09
6/25	CT313	003	7 49	14 8	20895	26064	2.70	0.09	379	13.96	6.45
6/23	CT058	004	8 17	15 18	89942	96515	2.32	-0.01	421	15.25	-0.66
6/24	CT261	004	7 57	15 9	26655	28059	1.96	-0.01	432	2.75	-3.63
6/25	CT248	004	8 4	14 12	92322	98515	1.73	-0.01	368	10.71	-0.93
6/23	CT022	005	8 26	15 22	82998	90665	1.79	0.01	416	13.72	0.73
6/24	CT235	005	8 21	15 2	18349	24091	2.30	0.03	401	13.21	2.27
6/25	CT310	005	7 38	14 5	19797	24936	2.63	-0.01	387	13.52	-0.74
6/23	CT009	006	10 45	15 11	41098	44964	2.79	0.01	266	10.79	0.93
6/23	CT095	007	8 42	15 18	43052	48945	2.20	0.01	396	12.96	0.77
6/24	CT286	007	8 10	14 7	22524	27336	2.73	0.01	357	13.14	0.76
6/25	CT311	007	8 33	15 4	17401	21927	2.77	0.02	391	12.54	1.60
6/23	CT080	008	8 51	15 18	14079	18415	2.48	-0.01	387	10.75	-0.93
6/24	CT277	008	8 29	14 11	28190	33645	2.58	0.03	342	14.07	2.13
6/25	CT307	008	8 59	15 3	15939	20895	2.70	-0.01	364	13.38	-0.75
6/23	CT069	009	8 58	15 12	13730	23771	1.50	-0.01	374	15.06	-0.66
6/24	CT182	010	9 10	14 56	17688	22524	2.73	0.05	346	13.20	3.79
6/25	CT226	010	8 37	14 15	27059	31614	2.35	0.02	338	10.70	1.87
6/23	CT082	011	9 6	15 12	38825	45290	1.96	0.02	366	12.67	1.58
6/24	CT298	011	8 45	15 6	22158	28190	2.58	-0.01	381	15.56	-0.64
6/25	CT305	011	8 5	14 10	24091	29186	2.30	0.02	365	11.72	1.71
6/23	CT142	012	9 14	15 18	16386	21189	2.35	0.12	364	11.29	10.63
6/23	CT064	013	10 40	15 15	13612	17544	2.85	-0.01	275	11.21	-0.89
6/24	CT232	013	8 6	15 20	57201	63728	2.57	0.04	434	16.77	2.38
6/25	CT308	013	7 40	14 15	17666	22969	3.04	0.03	395	16.12	1.86
6/24	CT274	014	7 58	15 8	21189	27059	2.35	-0.01	430	13.79	-0.72
6/25	CT423	014	8 2	14 11	97783	104475	1.79	-0.01	369	11.98	-0.83
6/25	CT314	002	7 30	14 4	15457	20584	2.94	0.01	394	15.07	0.66

TABLE A4

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: TOLUENE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT037	001	7 56	15 13	17219	19529	2.79	0.36	437	6.44	55.86
6/24	CT243	001	7 27	15 10	48354	54774	2.45	2.00	463	15.73	127.15
6/25	CT258	001	7 25	14 0	21063	22501	2.48	0.08	395	3.57	22.43
6/23	CT101	002	10 10	15 10	80712	85878	1.73	0.13	300	8.94	14.55
6/24	CT267	002	7 33	14 56	11644	17666	3.04	0.14	443	18.31	7.65
6/25	CT391	002	7 30	14 3	23039	28232	2.81	0.10	393	14.59	6.85
6/23	CT023	003	8 10	15 19	42100	48354	2.50	0.37	429	15.64	23.66
6/24	CT264	003	7 43	14 54	23771	35314	1.50	0.32	431	17.31	18.48
6/25	CT360	003	7 49	14 8	3043	6848	2.33	0.07	379	8.87	7.90
6/23	CT102	004	8 17	15 18	89942	96515	2.33	0.28	421	15.32	18.28
6/24	CT293	004	7 51	15 9	96515	103043	2.32	0.12	438	15.14	7.92
6/25	CT272	004	8 4	14 12	92322	98515	1.68	0.10	368	10.40	9.61
6/23	CT085	005	8 26	15 22	82998	90665	2.10	0.51	416	16.10	31.68
6/24	CT218	005	8 21	15 2	17544	23039	2.85	1.50	401	15.66	95.78
6/25	CT241	005	7 38	14 5	83390	89916	2.00	0.33	387	13.05	25.28
6/23	CT011	006	10 45	15 11	41098	44964	2.67	0.04	266	10.32	3.88
6/23	CT047	007	8 42	15 18	43052	48945	2.28	0.06	396	13.44	4.47
6/24	CT249	007	8 33	15 4	90665	97783	1.79	0.06	391	12.74	4.71
6/25	CT252	007	8 10	13 39	19644	19807	2.79	-0.01	329	0.45	-21.99
6/23	CT086	008	8 51	15 18	14079	18415	2.96	0.28	387	12.83	21.82
6/24	CT239	008	8 55	15 2	45290	51557	1.96	0.85	367	12.28	69.20
6/25	CT365	008	8 29	14 10	51557	57427	1.96	0.24	341	11.51	20.86
6/23	CT032	009	8 58	15 12	13730	23771	1.74	0.11	374	17.47	6.30
6/24	CT214	010	9 10	14 55	48946	52567	2.20	0.51	345	7.97	64.02
6/25	CT268	010	8 38	14 14	14151	18507	2.38	1.30	336	10.37	125.39
6/23	CT061	011	9 6	15 12	38825	45290	2.05	0.05	366	13.25	3.77
6/24	CT157	011	8 45	15 6	85878	92322	1.73	0.08	381	11.15	7.18
6/25	CT348	011	8 5	14 10	54774	59765	2.45	0.05	365	12.23	4.09
6/23	CT074	012	9 14	15 18	69842	76087	2.00	0.11	364	12.49	8.81
6/23	CT052	013	10 40	15 10	12362	16068	2.50	0.02	270	9.27	2.16
6/24	CT242	013	8 6	15 18	76087	83385	2.00	0.12	432	14.60	8.22
6/25	CT368	013	7 42	14 15	52567	56237	2.20	0.03	393	8.07	3.72
6/24	CT251	014	7 59	15 9	18415	21063	2.48	0.05	430	6.57	7.61
6/25	CT398	014	8 2	14 11	97783	104475	2.10	0.11	369	14.05	7.83

TABLE A5

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: ISOBUTYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L.)	CONC. (MG/M3)
6/23	CT037	001	7 56	15 13	17219	19529	2.79	0.32	437	6.44	49.65
6/24	CT243	001	7 27	15 10	48354	54774	2.45	1.90	463	15.73	120.80
6/25	CT258	001	7 25	14 0	21063	22501	2.48	0.07	395	3.57	19.63
6/23	CT101	002	10 10	15 10	80712	85878	1.73	0.08	300	8.94	8.95
6/24	CT267	002	7 33	14 56	11644	17666	3.04	0.13	443	18.31	7.10
6/25	CT391	002	7 30	14 3	23039	28232	2.81	0.07	393	14.59	4.80
6/23	CT023	003	8 10	15 19	42100	48354	2.50	0.25	429	15.64	15.99
6/24	CT264	003	7 43	14 54	23771	35314	1.50	0.23	431	17.31	13.28
6/25	CT360	003	7 49	14 8	3043	6848	2.33	0.08	379	8.87	9.02
6/23	CT102	004	8 17	15 18	89942	96515	2.33	0.04	421	15.32	2.61
6/24	CT293	004	7 51	15 9	96515	103043	2.32	0.04	438	15.14	2.64
6/25	CT272	004	8 4	14 12	92322	98515	1.68	0.03	368	10.40	2.88
6/23	CT085	005	8 26	15 22	82998	90665	2.10	0.26	416	16.10	16.15
6/24	CT218	005	8 21	15 2	17544	23039	2.85	0.64	401	15.66	40.87
6/25	CT241	005	7 38	14 5	83390	89916	2.00	0.16	387	13.05	12.26
6/23	CT011	006	10 45	15 11	41098	44964	2.67	0.02	266	10.32	1.94
6/23	CT047	007	8 42	15 18	43052	48945	2.28	0.02	396	13.44	1.49
6/24	CT249	007	8 33	15 4	90665	97783	1.79	0.03	391	12.74	2.35
6/25	CT252	007	8 10	13 39	19644	19807	2.79	-0.01	329	0.45	-21.99
6/23	CT086	008	8 51	15 18	14079	18415	2.96	0.14	387	12.83	10.91
6/24	CT239	008	8 55	15 2	45290	51557	1.96	0.42	367	12.28	34.19
6/25	CT365	008	8 29	14 10	51557	57427	1.96	0.10	341	11.51	8.69
6/23	CT032	009	8 58	15 12	13730	23771	1.74	0.04	374	17.47	2.29
6/24	CT214	010	9 10	14 55	48946	52567	2.20	0.18	345	7.97	22.60
6/25	CT268	010	8 38	14 14	14151	18507	2.38	0.42	336	10.37	40.51
6/23	CT061	011	9 6	15 12	38825	45290	2.05	0.02	366	13.25	1.51
6/24	CT157	011	8 45	15 6	85878	92322	1.73	0.01	381	11.15	0.90
6/25	CT348	011	8 5	14 10	54774	59765	2.45	0.02	365	12.23	1.64
6/23	CT074	012	9 14	15 18	69842	76087	2.00	0.06	364	12.49	4.80
6/23	CT052	013	10 40	15 10	12362	16068	2.50	-0.01	270	9.27	-1.08
6/24	CT242	013	8 6	15 18	76087	83385	2.00	0.04	432	14.60	2.74
6/25	CT368	013	7 42	14 15	52567	56237	2.20	0.01	393	8.07	1.24
6/24	CT251	014	7 59	15 9	18415	21063	2.48	0.01	430	6.57	1.52
6/25	CT398	014	8 2	14 11	97783	104475	2.10	0.03	369	14.05	2.13

TABLE A6

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: N-BUTYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	CT037	001	7 56	15 13	17219	19529	2.79	0.02	437	6.44	3.10
6/24	CT243	001	7 27	15 10	48354	54774	2.45	0.10	463	15.73	6.36
6/25	CT258	001	7 25	14 0	21063	22501	2.48	0.01	395	3.57	2.80
6/23	CT101	002	10 10	15 10	80712	85878	1.73	0.02	300	8.94	2.24
6/24	CT267	002	7 33	14 56	11644	17666	3.04	0.03	443	18.31	1.64
6/25	CT391	002	7 30	14 3	23039	28232	2.81	0.02	393	14.59	1.37
6/23	CT023	003	8 10	15 19	42100	48354	2.50	0.34	429	15.64	21.75
6/24	CT264	003	7 43	14 54	23771	35314	1.50	0.15	431	17.31	8.66
6/25	CT360	003	7 49	14 8	3043	6848	2.33	0.13	379	8.87	14.66
6/23	CT102	004	8 17	15 18	89942	96515	2.33	0.10	421	15.32	6.53
6/24	CT293	004	7 51	15 9	96515	103043	2.32	0.08	438	15.14	5.28
6/25	CT272	004	8 4	14 12	92322	98515	1.68	0.10	368	10.40	9.61
6/23	CT085	005	8 26	15 22	82998	90665	2.10	0.51	416	16.10	31.68
6/24	CT218	005	8 21	15 2	17544	23039	2.85	1.40	401	15.66	89.40
6/25	CT241	005	7 38	14 5	83390	89916	2.00	0.31	387	13.05	23.75
6/23	CT011	006	10 45	15 11	41098	44964	2.67	0.04	266	10.32	3.88
6/23	CT047	007	8 42	15 18	43052	48945	2.28	0.04	396	13.44	2.98
6/24	CT249	007	8 33	15 4	90665	97783	1.79	0.05	391	12.74	3.92
6/25	CT252	007	8 10	13 39	19644	19807	2.79	-0.01	329	0.45	-21.99
6/23	CT086	008	8 51	15 18	14079	18415	2.96	0.17	387	12.83	13.25
6/24	CT239	008	8 55	15 2	45290	51557	1.96	0.44	367	12.28	35.82
6/25	CT365	008	8 29	14 10	51557	57427	1.96	0.18	341	11.51	15.65
6/23	CT032	009	8 58	15 12	13730	23771	1.74	0.07	374	17.47	4.01
6/24	CT214	010	9 10	14 55	48946	52567	2.20	0.37	345	7.97	46.45
6/25	CT268	010	8 38	14 14	14151	18507	2.38	0.95	336	10.37	91.63
6/23	CT061	011	9 6	15 12	38825	45290	2.05	0.06	366	13.25	4.53
6/24	CT157	011	8 45	15 6	85878	92322	1.73	0.06	381	11.15	5.38
6/25	CT348	011	8 5	14 10	54774	59765	2.45	0.06	365	12.23	4.91
6/23	CT074	012	9 14	15 18	69842	76087	2.00	0.10	364	12.49	8.01
6/23	CT052	013	10 40	15 10	12362	16068	2.50	-0.01	270	9.27	-1.08
6/24	CT242	013	8 6	15 18	76087	83385	2.00	0.05	432	14.60	3.43
6/25	CT368	013	7 42	14 15	52567	56237	2.20	0.01	393	8.07	1.24
6/24	CT251	014	7 59	15 9	18415	21063	2.48	0.04	430	6.57	6.09
6/25	CT398	014	8 2	14 11	97783	104475	2.10	0.11	369	14.05	7.83

TABLE A7

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: ISOBUTYL ISOBUTYRATE

DATE	SAMPLE NO.	JOB CODE	TIME		STROKES		FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981			START	STOP	START	STOP					
6/23	CT037	001	7 56	15 13	17219	19529	2.79	0.02	437	6.44	3.10
6/24	CT243	001	7 27	15 10	48354	54774	2.45	0.17	463	15.73	10.81
6/25	CT258	001	7 25	14 0	21063	22501	2.48	0.01	395	3.57	2.80
6/23	CT101	002	10 10	15 10	80712	85878	1.73	0.02	300	8.94	2.24
6/24	CT267	002	7 33	14 56	11644	17666	3.04	0.04	443	18.31	2.18
6/25	CT391	002	7 30	14 3	23039	28232	2.81	0.02	393	14.59	1.37
6/23	CT023	003	8 10	15 19	42100	48354	2.50	0.19	429	15.64	12.15
6/24	CT264	003	7 43	14 54	23771	35314	1.50	0.11	431	17.31	6.35
6/25	CT360	003	7 49	14 8	3043	6848	2.33	0.07	379	8.87	7.90
6/23	CT102	004	8 17	15 18	89942	96515	2.33	0.16	421	15.32	10.45
6/24	CT293	004	7 51	15 9	96515	103043	2.32	0.12	438	15.14	7.92
6/25	CT272	004	8 4	14 12	92322	98515	1.68	0.13	368	10.40	12.49
6/23	CT085	005	8 26	15 22	82998	90665	2.10	0.20	416	16.10	12.42
6/24	CT218	005	8 21	15 2	17544	23039	2.85	0.40	401	15.66	25.54
6/25	CT241	005	7 38	14 5	83390	89916	2.00	0.12	387	13.05	9.19
6/23	CT011	006	10 45	15 11	41098	44964	2.67	0.08	266	10.32	7.75
6/23	CT047	007	8 42	15 18	43052	48945	2.28	0.06	396	13.44	4.47
6/24	CT249	007	8 33	15 4	90665	97783	1.79	0.06	391	12.74	4.71
6/25	CT252	007	8 10	13 39	19644	19807	2.79	-0.01	329	0.45	-21.99
6/23	CT086	008	8 51	15 18	14079	18415	2.96	0.21	387	12.83	16.36
6/24	CT239	008	8 55	15 2	45290	51557	1.96	0.44	367	12.28	35.82
6/25	CT365	008	8 29	14 10	51557	57427	1.96	0.24	341	11.51	20.86
6/23	CT032	009	8 58	15 12	13730	23771	1.74	0.13	374	17.47	7.44
6/24	CT214	010	9 10	14 55	48946	52567	2.20	0.44	345	7.97	55.23
6/25	CT268	010	8 38	14 14	14151	18507	2.38	0.94	336	10.37	90.67
6/23	CT061	011	9 6	15 12	38825	45290	2.05	0.11	366	13.25	8.30
6/24	CT157	011	8 45	15 6	85878	92322	1.73	0.10	381	11.15	8.97
6/25	CT348	011	8 5	14 10	54774	59765	2.45	0.11	365	12.23	9.00
6/23	CT074	012	9 14	15 18	69842	76087	2.00	0.10	364	12.49	8.01
6/23	CT052	013	10 40	15 10	12362	16068	2.50	-0.01	270	9.27	-1.08
6/24	CT242	013	8 6	15 18	76087	83385	2.00	0.02	432	14.60	1.37
6/25	CT368	013	7 42	14 15	52567	56237	2.20	-0.01	393	8.07	-1.24
6/24	CT251	014	7 59	15 9	18415	21063	2.48	0.06	430	6.57	9.14
6/25	CT398	014	8 2	14 11	97783	104475	2.10	0.17	369	14.05	12.10

TABLE A8

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: VM&P NAPHTHA

DATE	SAMPLE NO.	JOB CODE	TIME START STOP	STROKES START STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981									
6/23	CT102	004	8 17 15 18	89942 96515	2.33	0.40	421	15.32	26.12
6/24	CT293	004	7 51 15 9	96515 103043	2.32	0.20	438	15.14	13.21
6/25	CT272	004	8 4 14 12	92322 98515	1.68	0.30	368	10.40	28.83
6/24	CT251	014	7 59 15 9	18415 21063	2.48	0.10	430	6.57	15.23
6/25	CT398	014	8 2 14 11	97783 104475	2.10	0.60	369	14.05	42.69

TABLE A9

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS, #1 FINISHING AREA

COMPOUND: METHYL AMYL KETONE

DATE 1981	SAMPLE NO.	JOB CODE	TIME START STOP	STROKES START STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT037	001	7 56 15 13	17219 19529	2.79	-0.01	437	6.44	-1.55
6/24	CT243	001	7 27 15 10	48354 54774	2.45	0.01	463	15.73	0.64
6/25	CT258	001	7 25 14 0	21063 22501	2.48	-0.01	395	3.57	-2.80
6/23	CT101	002	10 10 15 10	80712 85878	1.73	-0.01	300	8.94	-1.12
6/24	CT267	002	7 33 14 56	11644 17666	3.04	-0.01	443	18.31	-0.55
6/25	CT391	002	7 30 14 3	23039 28232	2.81	-0.01	393	14.59	-0.69
6/23	CT023	003	8 10 15 19	42100 48354	2.50	0.08	429	15.64	5.12
6/24	CT264	003	7 43 14 54	23771 35314	1.50	0.02	431	17.31	1.16
6/25	CT360	003	7 49 14 8	3043 6848	2.33	0.02	379	8.87	2.26
6/23	CT102	004	8 17 15 18	89942 96515	2.33	0.06	421	15.32	3.92
6/24	CT293	004	7 51 15 9	96515 103043	2.32	0.04	438	15.14	2.64
6/25	CT272	004	8 4 14 12	92322 98515	1.68	0.05	368	10.40	4.81
6/23	CT085	005	8 26 15 22	82998 90665	2.10	0.10	416	16.10	6.21
6/24	CT218	005	8 21 15 2	17544 23039	2.85	0.17	401	15.66	10.86
6/25	CT241	005	7 38 14 5	83390 89916	2.00	0.04	387	13.05	3.06
6/23	CT011	006	10 45 15 11	41098 44964	2.67	0.05	266	10.32	4.84
6/23	CT047	007	8 42 15 18	43052 48945	2.28	0.03	396	13.44	2.23
6/24	CT249	007	8 33 15 4	90665 97783	1.79	0.03	391	12.74	2.35
6/25	CT252	007	8 10 13 39	19644 19807	2.79	-0.01	329	0.45	-21.99
6/23	CT086	008	8 51 15 18	14079 18415	2.96	0.10	387	12.83	7.79
6/24	CT239	008	8 55 15 2	45290 51557	1.96	0.20	367	12.28	16.28
6/25	CT365	008	8 29 14 10	51557 57427	1.96	0.09	341	11.51	7.82
6/23	CT032	009	8 58 15 12	13730 23771	1.74	0.06	374	17.47	3.43
6/24	CT214	010	9 10 14 55	48946 52567	2.20	0.21	345	7.97	26.36
6/25	CT268	010	8 38 14 14	14151 18507	2.38	0.62	336	10.37	59.80
6/23	CT061	011	9 6 15 12	38825 45290	2.05	0.08	366	13.25	6.04
6/24	CT157	011	8 45 15 6	85878 92322	1.73	0.03	381	11.15	2.69
6/25	CT348	011	8 5 14 10	54774 59765	2.45	0.05	365	12.23	4.09
6/23	CT074	012	9 14 15 18	69842 76087	2.00	0.03	364	12.49	2.40
6/23	CT052	013	10 40 15 10	12362 16068	2.50	-0.01	270	9.27	-1.08
6/24	CT242	013	8 6 15 18	76087 83385	2.00	-0.01	432	14.60	-0.69
6/25	CT368	013	7 42 14 15	52567 56237	2.20	-0.01	393	8.07	-1.24
6/24	CT251	014	7 59 15 9	18415 21063	2.48	0.01	430	6.57	1.52
6/25	CT398	014	8 2 14 11	97783 104475	2.10	0.02	369	14.05	1.42

TABLE A10

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS, #1 FINISHING AREA

COMPOUND: XYLENES

DATE	SAMPLE NO.	JOB CODE	TIME START STOP	STROKES START STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981									
6/23	CT037	001	7 56 15 13	17219 19529	2.79	0.03	437	6.44	4.65
6/24	CT243	001	7 27 15 10	48354 54774	2.45	0.31	463	15.73	19.71
6/25	CT258	001	7 25 14 0	21063 22501	2.48	0.01	395	3.57	2.80
6/23	CT101	002	10 10 15 10	80712 85878	1.73	-0.01	300	8.94	-1.12
6/24	CT267	002	7 33 14 56	11644 17665	3.04	0.03	443	18.31	1.64
6/25	CT391	002	7 30 14 3	23039 28232	2.81	0.01	393	14.59	0.69
6/23	CT023	003	8 10 15 19	42100 48354	2.50	0.17	429	15.64	10.87
6/24	CT264	003	7 43 14 54	23771 35314	1.50	0.11	431	17.31	6.35
6/25	CT360	003	7 49 14 8	3043 6848	2.33	0.07	379	8.87	7.90
6/23	CT102	004	8 17 15 18	89942 96515	2.33	0.05	421	15.32	3.26
6/24	CT293	004	7 51 15 9	96515 103043	2.32	0.04	438	15.14	2.64
6/25	CT272	004	8 4 14 12	92322 98515	1.68	0.06	368	10.40	5.77
6/23	CT085	005	8 26 15 22	82998 90665	2.10	0.26	416	16.10	16.15
6/24	CT218	005	8 21 15 2	17544 23039	2.85	0.55	401	15.66	35.12
6/25	CT241	005	7 38 14 5	83390 89916	2.00	0.13	387	13.05	9.96
6/23	CT011	005	10 45 15 11	41098 44964	2.67	0.02	266	10.32	1.94
6/23	CT047	007	8 42 15 18	43052 48945	2.28	0.02	396	13.44	1.49
6/24	CT249	007	8 33 15 4	90665 97783	1.79	0.02	391	12.74	1.57
6/25	CT252	007	8 10 13 39	19644 19807	2.79	-0.01	329	0.45	-21.99
6/23	CT086	008	8 51 15 18	14079 18415	2.96	0.09	387	12.83	7.01
6/24	CT239	003	8 55 15 2	45290 51557	1.96	0.23	367	12.28	18.72
6/25	CT365	003	8 29 14 10	51557 57427	1.96	0.10	341	11.51	8.69
6/23	CT032	009	8 58 15 12	13730 23771	1.74	0.05	374	17.47	2.86
6/24	CT214	010	9 10 14 55	48946 52567	2.20	0.22	345	7.97	27.62
6/25	CT268	010	8 38 14 14	14151 18507	2.38	0.52	336	10.37	50.16
6/23	CT061	011	9 6 15 12	38825 45290	2.05	0.02	366	13.25	1.51
6/24	CT157	011	8 45 15 6	85878 92322	1.73	0.02	381	11.15	1.79
6/25	CT348	011	8 5 14 10	54774 59765	2.45	0.03	365	12.23	2.45
6/23	CT074	012	9 14 15 18	69842 76087	2.00	0.05	364	12.49	4.00
6/23	CT052	013	10 40 15 10	12362 16068	2.50	-0.01	270	9.27	-1.08
6/24	CT242	013	8 6 15 18	76087 83385	2.00	0.02	432	14.60	1.37
6/25	CT368	013	7 42 14 15	52567 56237	2.20	-0.01	393	8.07	-1.24
6/24	CT251	014	7 59 15 9	18415 21063	2.48	0.02	430	6.57	3.05
6/25	CT398	014	8 2 14 11	97783 104475	2.10	0.07	369	14.05	4.98

TABLE A11

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: LACTOL SPIRITS

DATE 1981	SAMPLE NO.	JOB CODE	TIME START STOP	STROKES START STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT037	001	7 56 15 13	17219 19529	2.79	0.80	437	6.44	124.13
6/24	CT243	001	7 27 15 10	48354 54774	2.45	5.00	463	15.73	317.88
6/25	CT258	001	7 25 14 0	21063 22501	2.48	0.20	395	3.57	56.08
6/23	CT101	002	10 10 15 10	80712 85878	1.73	0.20	300	8.94	22.38
6/24	CT267	002	7 33 14 56	11644 17666	3.04	0.20	443	18.31	10.92
6/25	CT391	002	7 30 14 3	23039 28232	2.81	0.10	393	14.59	6.85
6/23	CT023	003	8 10 15 19	42100 48354	2.50	0.30	429	15.64	19.19
6/24	CT264	003	7 43 14 54	23771 35314	1.50	0.50	431	17.31	28.88
6/25	CT360	003	7 49 14 8	3043 6848	2.33	0.10	379	8.87	11.28
6/23	CT102	004	8 17 15 18	89942 96515	2.33	0.30	421	15.32	19.59
6/24	CT293	004	7 51 15 9	96515 103043	2.32	-0.10	438	15.14	-6.60
6/25	CT272	004	8 4 14 12	92322 98515	1.68	0.10	368	10.40	9.61
6/23	CT085	005	8 26 15 22	82998 90665	2.10	0.40	416	16.10	24.84
6/24	CT218	005	8 21 15 2	17544 23039	2.85	1.00	401	15.66	63.85
6/25	CT241	005	7 38 14 5	83390 89916	2.00	0.30	387	13.05	22.98
6/23	CT011	006	10 45 15 11	41098 44964	2.67	-0.10	266	10.32	-9.69
6/23	CT047	007	8 42 15 18	43052 48945	2.28	-0.10	396	13.44	-7.44
6/24	CT249	007	8 33 15 4	90665 97783	1.79	-0.10	391	12.74	-7.85
6/23	CT086	008	8 51 15 18	14079 18415	2.96	0.20	387	12.83	15.58
6/24	CT239	008	8 55 15 2	45290 51557	1.96	0.70	367	12.28	56.99
6/25	CT365	008	8 29 14 10	51557 57427	1.96	0.10	341	11.51	8.69
6/23	CT032	009	8 58 15 12	13730 23771	1.74	-0.10	374	17.47	-5.72
6/24	CT214	010	9 10 14 55	48946 52567	2.20	0.30	345	7.97	37.56
6/25	CT268	010	8 38 14 14	14151 18507	2.38	0.70	336	10.37	67.52
6/23	CT061	011	9 6 15 12	38825 45290	2.05	-0.10	366	13.25	-7.55
6/24	CT157	011	8 45 15 6	85878 92322	1.73	-0.10	381	11.15	-8.97
6/25	CT348	011	8 5 14 10	54774 59765	2.45	-0.10	365	12.23	-8.18
6/23	CT074	012	9 14 15 18	69842 76087	2.00	-0.10	364	12.49	-8.01
6/23	CT052	013	10 40 15 10	12362 16068	2.50	-0.10	270	9.27	-10.79
6/24	CT242	013	8 6 15 18	76087 83385	2.00	0.30	432	14.60	20.55
6/25	CT368	013	7 42 14 15	52567 56237	2.20	-0.10	393	8.07	-12.39
6/24	CT251	014	7 59 15 9	18415 21063	2.48	-0.10	430	6.57	-15.23
6/25	CT398	014	8 2 14 11	97783 104475	2.10	0.10	369	14.05	7.12

TABLE A12

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: ISOPROPYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME		STROKES		FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981			START	STOP	START	STOP					
6/23	CT023	003	8 10	15 19	42100	48354	2.50	0.12	429	15.64	7.68
6/23	CT086	008	8 51	15 18	14079	18415	2.96	0.11	387	12.83	8.57
6/24	CT239	008	8 55	15 2	45290	51557	1.96	0.38	367	12.28	30.94
6/25	CT365	003	8 29	14 10	51557	57427	1.96	0.08	341	11.51	6.95
6/24	CT214	010	9 10	14 55	48946	52567	2.20	0.21	345	7.97	26.36
6/2z	CT268	010	8 38	14 14	14151	18507	2.38	0.61	336	10.37	58.84

TABLE A13

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: MINERAL SPIRITS												
DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)	
1981												
6/23	CT102	004	8 17	15 18	89942	96515	2.33	0.40	421	15.32	26.12	
6/24	CT293	004	7 51	15 9	96515	103043	2.32	0.20	438	15.14	13.21	
6/25	CT272	004	8 4	14 12	92322	98515	1.68	0.30	368	10.40	28.83	
6/24	CT251	014	7 59	15 9	18415	21063	2.48	0.20	430	6.57	30.46	
6/25	CT398	014	8 2	14 11	97783	104475	2.10	0.90	369	14.05	64.04	

TABLE A14

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: MIBK

DATE 1981	SAMPLE NO.	JOB CODE	TIME		STROKES		FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)		
			START	STOP	START	STOP							
6/23	CT011	006	10	45	15	11	41098	44964	2.67	-0.01	266	10.32	-0.97
6/23	CT047	007	8	42	15	18	43052	48945	2.28	0.01	396	13.44	0.74
6/24	CT249	007	8	33	15	4	90665	97783	1.79	0.01	391	12.74	0.78
6/23	CT061	011	9	6	15	12	38825	45290	2.05	0.05	366	13.25	3.77
6/24	CT157	011	8	45	15	6	85878	92322	1.73	0.01	381	11.15	0.90
6/25	CT348	011	8	5	14	10	54774	59765	2.45	0.03	365	12.23	2.45

TABLE A15

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: ISOPROPYL ALCOHOL

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT113	001	7 56	15 13	17219	19529	3.04	0.13	437	7.02	18.51
6/24	CT262	001	7 27	15 10	48354	54774	2.50	0.44	463	16.05	27.41
6/25	CT355	001	7 25	14 0	21063	22501	2.96	0.04	395	4.26	9.40
6/23	CT141	002	8 3	15 10	8074	18349	2.30	0.09	427	23.63	3.81
6/24	CT193	002	7 36	14 56	44964	51289	2.67	0.04	440	16.89	2.37
6/25	CT237	002	7 30	14 3	23039	28232	2.85	0.04	393	14.80	2.70
6/23	CT014	003	8 10	15 19	21473	27326	2.93	0.13	429	17.15	7.58
6/25	CT364	003	7 49	14 8	3043	6848	2.33	0.07	379	8.87	7.90
6/23	CT112	004	8 16	15 18	50001	53664	2.50	0.01	422	9.16	1.09
6/24	CT250	004	7 51	15 9	96515	103043	2.33	-0.01	438	15.21	-0.66
6/25	CT334	004	8 4	14 12	35314	45142	1.50	0.02	368	14.74	1.36
6/23	CT056	005	8 27	14 31	14212	18744	2.47	0.25	364	11.19	22.33
6/24	CT156	005	8 21	15 2	17544	23039	2.81	1.90	401	15.44	123.05
6/25	CT304	005	7 38	14 5	83390	89916	2.17	0.31	387	14.16	21.89
6/23	CT097	006	10 45	15 11	16797	20655	1.96	-0.01	266	7.56	-1.32
6/23	CT053	007	8 42	15 18	50969	57201	2.57	0.01	396	16.02	0.62
6/24	CT265	007	8 33	15 4	90665	97783	2.10	0.02	391	14.95	1.34
6/23	CT103	008	8 51	15 18	16029	22158	2.58	0.16	387	15.81	10.12
6/24	CT253	008	8 55	15 2	45290	51557	2.05	0.44	367	12.85	34.25
6/25	CT395	008	8 29	14 10	51557	57427	2.05	0.15	341	12.03	12.47
6/24	CT213	010	9 10	14 55	48946	52567	2.28	0.30	345	8.26	36.34
6/25	CT388	010	8 38	14 14	14151	18507	2.82	1.00	336	12.28	81.41
6/23	CT068	011	9 6	15 12	15078	20235	3.00	0.02	366	15.47	1.29
6/24	CT208	011	8 45	15 6	85878	92322	1.68	0.01	381	10.83	0.92
6/25	CT361	011	8 5	14 10	54774	59765	2.50	0.02	365	12.48	1.60
6/23	CT005	012	9 14	15 18	69842	76087	2.17	0.04	364	13.55	2.95
6/24	CT295	012	8 11	14 4	6130	10678	2.99	0.03	353	13.60	2.21
6/23	CT041	013	10 40	15 10	12362	16068	2.41	-0.01	270	8.93	-1.12
6/24	CT224	013	8 6	15 18	76087	83385	2.17	0.15	432	15.84	9.47
6/25	CT367	013	7 42	14 15	52567	56237	2.28	0.04	393	8.37	4.78
6/24	CT221	014	7 59	15 9	18415	21063	2.96	-0.01	430	7.84	-1.28
6/25	CT326	014	8 2	14 11	21927	26199	2.77	0.01	369	11.83	0.85

TABLE A16

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: ETHANOL

DATE 1981	SAMPLE NO.	JOB CODE	TIME START STOP	STROKES START STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT113	001	7 56 15 13	17219 19529	3.04	0.01	437	7.02	1.42
6/24	CT262	001	7 27 15 10	48354 54774	2.50	0.05	463	16.05	3.12
6/25	CT355	001	7 25 14 0	21063 22501	2.96	-0.01	395	4.26	-2.35
6/23	CT141	002	8 3 15 10	8074 18349	2.30	0.10	427	23.63	4.23
6/24	CT193	002	7 36 14 56	44964 51289	2.67	0.05	440	16.89	2.96
6/25	CT237	002	7 30 14 3	23039 28232	2.85	0.09	393	14.80	6.08
6/23	CT014	003	8 10 15 19	21473 27326	2.93	0.04	429	17.15	2.33
6/25	CT364	003	7 49 14 8	3043 6848	2.33	0.02	379	8.87	2.26
6/23	CT112	004	8 16 15 18	50001 53664	2.50	-0.01	422	9.16	-1.09
6/24	CT250	004	7 51 15 9	96515 103043	2.33	0.01	438	15.21	0.66
6/25	CT334	004	8 4 14 12	35314 45142	1.50	0.02	368	14.74	1.36
6/23	CT056	005	8 27 14 31	14212 18744	2.47	0.10	364	11.19	8.93
6/24	CT156	005	8 21 15 2	17544 23039	2.81	0.28	401	15.44	18.13
6/25	CT304	005	7 38 14 5	83390 89916	2.17	0.16	387	14.16	11.30
6/23	CT097	006	10 45 15 11	16797 20655	1.96	0.26	266	7.56	34.38
6/23	CT053	007	8 42 15 18	50969 57201	2.57	0.32	396	16.02	19.98
6/24	CT265	007	8 33 15 4	90665 97783	2.10	0.16	391	14.95	10.70
6/23	CT103	008	8 51 15 18	16029 22158	2.58	0.06	387	15.81	3.79
6/24	CT253	008	8 55 15 2	45290 51557	2.05	0.03	367	12.85	2.34
6/25	CT395	008	8 29 14 10	51557 57427	2.05	0.02	341	12.03	1.66
6/24	CT213	010	9 10 14 55	48946 52567	2.28	-0.01	345	8.26	-1.21
6/25	CT388	010	8 38 14 14	14151 18507	2.82	0.03	336	12.28	2.44
6/23	CT068	011	9 6 15 12	15078 20235	3.00	2.00	366	15.47	129.27
6/24	CT203	011	8 45 15 6	85878 92322	1.68	0.10	381	10.83	9.24
6/25	CT361	011	8 5 14 10	54774 59765	2.50	1.70	365	12.48	136.25
6/23	CT005	012	9 14 15 18	69842 76087	2.17	2.00	364	13.55	147.58
6/24	CT295	012	8 11 14 4	6130 10678	2.99	1.50	353	13.60	110.31
6/23	CT041	013	10 40 15 10	12362 16068	2.41	-0.01	270	8.93	-1.12
6/24	CT224	013	8 6 15 18	76087 83385	2.17	0.02	432	15.84	1.26
6/25	CT367	013	7 42 14 15	52567 56237	2.28	-0.01	393	8.37	-1.20
6/24	CT221	014	7 59 15 9	18415 21063	2.96	-0.01	430	7.94	-1.28
6/25	CT326	014	8 2 14 11	21927 26199	2.77	0.02	369	11.83	1.69

TABLE A17

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: 2-BUTOXY ETHANOL

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	CT113	001	7 56	15 13	17219	19529	3.04	0.05	437	7.02	7.12
6/24	CT262	001	7 27	15 10	48354	54774	2.50	0.19	463	16.05	11.84
6/25	CT355	001	7 25	14 0	21063	22501	2.96	0.02	395	4.26	4.70
6/23	CT141	002	8 3	15 10	8074	18349	2.30	0.02	427	23.63	0.85
6/24	CT193	002	7 36	14 56	44964	51289	2.67	0.05	440	16.89	2.96
6/25	CT237	002	7 30	14 3	23039	28232	2.85	0.02	393	14.80	1.35
6/23	CT014	003	8 10	15 19	21473	27326	2.93	0.21	429	17.15	12.25
6/25	CT364	003	7 49	14 8	3043	6848	2.33	0.12	379	8.87	13.54
6/23	CT112	004	8 16	15 18	50001	53664	2.50	0.05	422	9.16	5.46
6/24	CT250	004	7 51	15 9	96515	103043	2.33	0.07	438	15.21	4.60
6/25	CT334	004	8 4	14 12	35314	45142	1.50	0.10	368	14.74	6.78
6/23	CT056	005	8 27	14 31	14212	18744	2.47	0.14	364	11.19	12.51
6/24	CT156	005	8 21	15 2	17544	23039	2.81	0.70	401	15.44	45.33
6/25	CT304	005	7 38	14 5	83390	89916	2.17	0.16	387	14.16	11.30
6/23	CT097	006	10 45	15 11	16797	20655	1.96	0.04	266	7.56	5.29
6/23	CT053	007	8 42	15 18	50969	57201	2.57	0.05	396	16.02	3.12
6/24	CT265	007	8 33	15 4	90665	97783	2.10	0.06	391	14.95	4.01
6/23	CT103	008	8 51	15 18	16029	22158	2.58	0.14	387	15.81	8.85
6/24	CT253	008	8 55	15 2	45290	51557	2.05	0.28	367	12.85	21.79
6/25	CT395	008	8 29	14 10	51557	57427	2.05	0.15	341	12.03	12.47
6/24	CT213	010	9 10	14 55	48946	52567	2.28	0.27	345	8.26	32.70
6/25	CT388	010	8 38	14 14	14151	18507	2.82	0.59	336	12.28	48.03
6/23	CT068	011	9 6	15 12	15078	20235	3.00	0.08	366	15.47	5.17
6/24	CT208	011	8 45	15 6	85878	92322	1.68	0.13	381	10.83	12.01
6/25	CT361	011	8 5	14 10	54774	59765	2.50	0.08	365	12.48	6.41
6/23	CT005	012	9 14	15 18	69842	76087	2.17	0.08	364	13.55	5.90
6/24	CT295	012	8 11	14 4	6130	10678	2.99	0.08	353	13.60	5.88
6/23	CT041	013	10 40	15 10	12362	16068	2.41	-0.01	270	8.93	-1.12
6/24	CT224	013	8 6	15 18	76087	83385	2.17	0.03	432	15.84	1.89
6/25	CT367	013	7 42	14 15	52567	56237	2.28	-0.01	393	8.37	-1.20
6/24	CT221	014	7 59	15 9	18415	21063	2.96	0.08	430	7.84	10.21
6/25	CT326	014	8 2	14 11	21927	26199	2.77	0.09	369	11.83	7.61

TABLE A18

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: METHANOL

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/L)
1981											
6/23	SG078	001	7 55	15 13	12125	17401	3.17	0.09	438	16.72	5.38
6/24	SG315	001	7 27	15 0	20235	26707	2.99	0.03	453	19.35	1.55
6/25	SG330	001	7 25	14 0	18066	24724	2.40	-0.02	395	15.98	-1.25
6/23	SG042	002	8 3	15 10	8074	18349	2.38	0.24	427	24.45	9.31
6/24	SG312	002	7 33	14 56	11644	17666	2.71	0.27	443	16.32	16.54
6/25	SG450	002	7 30	14 4	15457	20584	2.50	0.07	394	12.82	5.46
6/23	SG072	003	8 10	15 19	21473	27326	2.82	-0.02	429	16.51	-1.21
6/24	SG204	003	7 43	14 54	23771	35314	1.74	-0.02	431	20.08	-1.00
6/25	SG459	003	7 49	14 8	20895	26064	1.97	-0.02	379	10.18	-1.96
6/23	SG001	004	8 16	15 18	50001	53664	2.68	-0.02	422	9.82	-2.04
6/24	SG201	004	7 57	15 9	20665	28059	1.96	-0.02	432	14.49	-1.38
6/25	SG189	004	8 4	14 12	35314	45142	1.74	-0.02	368	17.10	-1.17
6/23	SG057	005	8 27	14 31	14212	18774	2.31	-0.02	364	10.54	-1.90
6/24	SG333	005	8 21	15 2	18349	24091	2.38	-0.02	401	13.67	-1.46
6/25	SG420	005	7 38	14 5	19797	24936	2.48	-0.02	387	12.74	-1.57
6/23	SG045	006	10 45	15 11	16795	20655	1.96	0.04	266	7.57	5.29
6/23	SG039	007	8 42	15 18	50969	57201	2.80	0.03	396	17.45	1.72
6/24	SG183	007	8 33	15 4	17401	21927	3.17	-0.02	391	14.35	-1.39
6/25	SG454	007	8 10	14 7	22524	27336	3.00	0.02	357	14.44	1.39
6/23	SG030	008	8 51	15 18	16029	22158	2.42	-0.02	387	14.83	-1.35
6/24	SG207	008	8 59	15 3	15939	20895	1.97	-0.02	364	9.76	-2.05
6/25	SG466	008	8 29	14 11	28190	33645	2.42	-0.02	342	13.20	-1.52
6/23	SG063	009	9 0	15 12	990	6128	2.86	-0.02	372	14.69	-1.36
6/24	SG273	010	9 10	14 56	17688	22524	3.00	-0.02	346	14.51	-1.38
6/25	SG448	010	8 37	14 15	27059	31614	2.67	-0.02	338	12.16	-1.64
6/23	SG084	011	9 6	15 12	15078	20235	2.99	-0.02	365	15.42	-1.30
6/24	SG285	011	8 45	15 6	22158	28190	2.42	-0.02	381	14.60	-1.37
6/25	SG447	011	8 5	14 10	24091	29186	2.38	-0.02	365	12.13	-1.65
6/23	SG081	012	9 14	15 18	16386	21189	2.67	0.03	364	12.82	6.24
6/24	SG309	012	8 11	14 4	6130	10678	2.86	-0.02	353	13.01	-1.54
6/23	SG048	013	7 25	14 0	18066	24724	2.40	-0.02	395	15.98	-1.25
6/24	SG306	013	8 6	15 20	57201	63728	2.80	-0.02	434	18.28	-1.09
6/25	SG457	013	7 40	14 15	17666	22969	2.71	0.02	395	14.37	1.39
6/24	SG303	014	7 58	15 8	21189	27059	2.67	-0.02	430	15.67	-1.28
6/25	SG417	014	8 2	14 11	21927	26199	3.17	-0.02	369	13.54	-1.48

TABLE A19

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #1 FINISHING AREA

COMPOUND: TOTAL SPRAY MIST

DATE 1981	SAMPLE NO.	JOB CODE	START	STOP	TIME	START	STOP	FLOW (LPM)	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	F5409	001	7 52			15	12	2.00	4.57	440	880.00	5.19
6/24	F5400	001	7 27	11 55	13	3	15	0	8.51	385	770.00	11.05
6/25	F3362	001	7 26			14	2	2.00	3.60	396	792.00	4.55
6/23	F5388	002	8 2			15	10	2.00	0.65	428	856.00	0.76
6/24	F5393	002	7 35	11 52	13	5	14	55	0.62	367	734.00	0.84
6/25	F3371	002	7 31			14	4	2.00	0.42	393	786.00	0.53
6/23	F5395	003	8 7	11 55	12	55	15	19	1.26	372	744.00	1.69
6/25	F3364	003	7 56			14	7	2.00	0.73	371	742.00	0.98
6/23	F5408	008	8 48	11 58	12	56	15	19	1.20	333	666.00	1.80
6/24	F5407	008	9 0	11 53	13	0	15	2	1.98	295	590.00	3.36
6/24	F5406	010	9 10	11 55	13	0	14	56	3.98	281	562.00	7.08

TABLE A20

IFFREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: ACETONE

DATE 1981	SAMPLE NO.	JOB CODE	TIME		STROKES		FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/ML)
			START	STOP	START	STOP					
6/23	CT111	001	7 57	15 15	10532	16994	2.60	0.03	438	16.80	1.79
6/24	CT223	001	7 50	15 15	14001	19417	2.76	-0.01	431	14.95	-0.67
6/25	CT393	001	7 38	14 15	23821	30224	1.92	0.04	383	12.29	3.25
6/23	CT071	002	8 5 15	8 15	20372	26861	3.01	0.03	423	19.53	1.54
6/24	CT164	002	7 31	15 14	65754	73882	1.67	0.02	463	13.57	1.47
6/25	CT427	002	8 15	14 5	22976	26239	2.81	0.01	350	9.17	1.09
6/24	CT020	003	8 8 14	58 58	26500	35225	1.53	0.01	410	13.35	0.75
6/25	CT340	003	7 36	11 50	51489	56113	2.37	-0.01	254	10.96	-0.91
6/23	CT109	004	9 7 15	17 17	7452	12174	2.97	0.02	370	14.02	1.43
6/23	CT046	005	9 43	15 11	16785	22211	2.56	0.06	328	13.89	4.32
6/24	CT260	005	10 20	15 18	46013	51489	2.37	-0.01	298	12.98	-0.77
6/23	CT003	006	9 45	15 16	16655	20784	3.16	0.01	331	15.56	0.64
6/24	CT296	006	10 40	15 18	30362	34876	2.58	-0.01	278	10.65	-0.94
6/25	CT359	006	8 7 14	13 13	43887	48510	3.01	-0.01	366	13.59	-0.74
6/23	CT123	007	9 50	15 12	43600	49879	2.74	-0.01	322	12.67	-0.79
6/24	CT128	007	7 53	15 2	26667	33008	2.38	-0.01	424	14.94	-0.67
6/25	CT372	007	7 50	14 3	17765	26500	2.28	0.06	373	14.46	4.15
6/23	CT025	009	8 30	15 18	14412	19795	1.53	0.06	408	13.36	4.49
6/24	CT215	009	8 16	15 3	16190	21817	2.63	-0.01	407	14.16	-0.71
6/25	CT356	009	7 54	14 6	16160	21939	2.70	0.04	372	15.19	2.63
6/23	CT117	010	8 36	15 20	16233	17515	2.81	0.07	404	16.24	4.31
6/24	CT281	010	8 38	15 5	12778	14412	1.77	-0.01	387	2.27	-4.41
6/23	CT125	011	11 5 15	10 10	21939	27594	2.63	0.02	245	4.30	4.65
6/24	CT266	011	8 32	15 7	18733	24799	2.81	-0.01	395	15.89	-0.63
6/24	CT290	012	8 35	15 6	58307	65754	2.78	-0.01	391	16.86	-0.59
6/23	CT079	013	8 10	15 12	89095	97432	1.67	0.02	422	12.44	1.61
6/24	CT200	013	7 46	15 1	27088	32783	2.65	-0.01	435	22.09	-0.45
6/25	CT430	013	7 52	14 2	91519	99095	3.16	0.05	370	18.00	2.78
6/23	CT019	014	8 16	15 8	88374	95656	2.65	0.40	412	20.08	19.92
6/24	CT161	014	7 23	15 8	24799	31177	2.14	-0.01	465	15.58	-0.64
6/25	CT378	014	7 26	14 17	13043	18845	2.78	0.05	411	17.73	2.82
6/23	CT092	015	8 24	15 10	17005	21118	2.81	0.07	406	16.30	4.29
6/24	CT197	016	10 37	15 19	35225	42984	2.60	-0.01	282	10.69	-0.94
6/25	CT354	016	8 2 14	15 15			1.53	0.01	373	11.87	0.84

TABLE A21

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: METHYL ETHYL KETONE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L.)	CONC. (MG/M3)
6/23	CT111	001	7 57	15 15	10532	16994	2.60	-0.01	438	16.80	-0.60
6/24	CT223	001	7 50	15 15	14001	19417	2.76	-0.01	431	14.95	-0.67
6/25	CT393	001	7 38	14 15	23821	30224	1.92	-0.01	383	12.29	-0.81
6/23	CT071	002	8 5	15 8	20372	26861	3.01	-0.01	423	19.53	-0.51
6/24	CT164	002	7 31	15 14	65754	73882	1.67	-0.01	463	13.57	-0.74
6/25	CT427	002	8 15	14 5	22976	26239	2.81	-0.01	350	9.17	-1.09
6/24	CT020	003	8 8	14 58	26500	35225	1.53	-0.01	410	13.35	-0.75
6/25	CT340	003	7 36	11 50	51489	56113	2.37	-0.01	254	10.96	-0.91
6/23	CT109	004	9 7	15 17	7452	12174	2.97	-0.01	370	14.02	-0.71
6/23	CT046	005	9 43	15 11	16785	22211	2.56	-0.01	328	13.89	-0.72
6/24	CT260	005	10 20	15 18	46013	51489	2.37	-0.01	298	12.98	-0.77
6/23	CT003	006	9 45	15 16	15113	20037	3.16	-0.01	331	15.56	-0.64
6/24	CT296	006	10 40	15 18	16655	20784	2.58	-0.01	278	10.65	-0.94
6/25	CT359	006	8 7	14 13	30362	34876	3.01	-0.01	366	13.59	-0.74
6/23	CT123	007	9 50	15 12	43887	48510	2.74	-0.01	322	12.67	-0.79
6/24	CT128	007	7 58	15 2	43600	49879	2.38	-0.01	424	14.94	-0.67
6/25	CT372	007	7 50	14 3	26667	33008	2.28	-0.01	373	14.46	-0.69
6/23	CT025	009	8 30	15 18	17765	26500	1.53	-0.01	408	13.36	-0.75
6/24	CT215	009	8 16	15 3	14412	19795	2.63	-0.01	407	14.16	-0.71
6/25	CT356	009	7 54	14 6	16190	21817	2.70	-0.01	372	15.19	-0.66
6/23	CT117	010	8 36	15 20	16160	21939	2.81	0.01	404	16.24	0.62
6/23	CT125	011	11 5	15 10	12778	14412	2.63	-0.01	245	4.30	-2.33
6/24	CT266	011	8 32	15 7	21939	27594	2.81	-0.01	395	15.39	-0.63
6/24	CT290	012	8 35	15 6	18733	24799	2.78	-0.01	391	16.86	-0.59
6/23	CT079	013	8 10	15 12	58307	65754	1.67	0.01	422	12.44	0.80
6/24	CT200	013	7 46	15 1	89095	97432	2.65	-0.01	435	22.09	-0.45
6/25	CT430	013	7 52	14 2	27088	32783	3.16	0.01	370	18.00	0.56
6/23	CT019	014	8 16	15 8	91519	99095	2.65	0.03	412	20.08	1.49
6/24	CT161	014	7 23	15 8	88374	95656	2.14	-0.01	465	15.58	-0.64
6/25	CT378	014	7 26	14 17	24799	31177	2.78	-0.01	411	17.73	-0.56
6/23	CT092	015	8 24	15 10	13043	18845	2.81	0.02	406	16.30	1.23
6/24	CT197	016	10 37	15 19	17005	21118	2.60	-0.01	282	10.69	-0.94
6/25	CT354	016	8 2	14 15	35225	42984	1.53	-0.01	373	11.87	-0.84

TABLE A22

HEXREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: ETHYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT111	001	7 57	15 15	10532	16994	2.60	0.01	438	16.80	0.60
6/24	CT223	001	7 50	15 15	14001	19417	2.76	0.01	431	14.95	0.67
6/25	CT393	001	7 38	14 14	23821	30224	1.92	0.01	383	12.29	0.81
6/23	CT071	002	8 5	15 8	20372	26861	3.01	-0.01	423	19.53	-0.51
6/24	CT164	002	7 31	15 14	65754	73882	1.67	-0.01	463	13.57	-0.74
6/25	CT427	002	8 15	14 5	22976	26239	2.81	-0.01	350	9.17	-1.09
6/23	CT105	003	9 1	15 17	87160	87623	2.56	-0.01	376	1.19	-8.44
6/24	CT020	003	8 8	14 58	26500	35225	1.53	0.02	410	13.35	1.50
6/25	CT340	003	7 36	11 50	51489	56113	2.37	-0.01	254	10.96	-0.91
6/23	CT109	004	9 7	15 17	7452	12174	2.97	0.01	370	14.02	0.71
6/23	CT046	005	9 43	15 11	16785	22211	2.56	-0.01	328	13.89	-0.72
6/24	CT260	005	10 20	15 18	46013	51489	2.37	-0.01	298	12.98	-0.77
6/23	CT003	006	9 45	15 16	15113	20037	3.16	-0.01	331	15.56	-0.64
6/24	CT296	006	10 40	15 18	16655	20784	2.58	-0.01	278	10.65	-0.94
6/25	CT359	006	8 7	14 13	30362	34876	3.01	-0.01	366	13.59	-0.74
6/23	CT123	007	9 50	15 12	43887	48510	2.74	0.05	322	12.67	3.95
6/24	CT128	007	7 58	15 2	43600	49879	2.38	0.06	424	14.94	4.01
6/25	CT372	007	7 50	14 3	26667	33008	2.28	0.05	373	14.46	3.46
6/23	CT025	009	8 30	15 18	17765	26500	1.53	0.01	408	13.36	0.75
6/24	CT215	009	8 16	15 3	14412	19795	2.63	0.01	407	14.16	0.71
6/25	CT356	009	7 54	14 6	16190	21817	2.70	0.02	372	15.19	1.32
6/23	CT117	010	8 36	15 20	16160	21939	2.81	0.01	404	16.24	0.62
6/24	CT281	010	8 38	15 5	16233	17515	1.77	-0.01	387	2.27	-4.41
6/23	CT125	011	11 5	15 10	12778	14412	2.63	-0.01	245	4.30	-2.33
6/24	CT266	011	8 32	15 7	21939	27594	2.81	-0.01	395	15.89	-0.63
6/24	CT290	012	8 35	15 6	18733	24799	2.78	0.02	391	16.86	1.19
6/23	CT079	013	8 10	15 12	58307	65754	1.67	0.01	422	12.44	0.80
6/24	CT200	013	7 46	15 1	89095	97432	2.65	0.03	435	22.09	1.36
6/25	CT430	013	7 52	14 2	27088	32783	3.16	0.02	370	18.00	1.11
6/23	CT019	014	8 16	15 8	91519	99095	2.65	0.02	412	20.08	1.00
6/24	CT161	014	7 23	15 8	88374	95656	2.14	0.01	465	15.58	0.64
6/25	CT378	014	7 26	14 17	24799	31177	2.78	-0.01	411	17.73	-0.56
6/23	CT092	015	8 24	15 10	13043	18845	2.81	0.01	406	16.30	0.61
6/24	CT197	016	10 37	15 19	17005	21118	2.60	-0.01	282	10.69	-0.94
6/25	CT354	016	8 2	14 15	35225	42984	1.53	-0.01	373	11.87	-0.84

TABLE A23

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: TOLUENE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	CT131	001	7 57	15 15	10532	16994	2.66	0.11	438	17.19	6.40
6/24	CT049	001	7 50	15 1	38156	45207	2.19	0.19	431	15.44	12.30
6/25	CT375	001	7 38	14 1	27455	32965	2.50	0.16	383	13.78	11.62
6/23	CT094	002	8 5	15 8	91735	98374	2.14	0.03	423	14.21	2.11
6/24	CT188	002	7 31	15 14	65754	73882	1.70	0.09	463	13.82	6.51
6/25	CT399	002	8 15	14 5	22976	26239	2.38	0.06	350	7.77	7.73
6/24	CT212	003	8 8	14 58	26500	35225	1.57	0.11	410	13.70	8.03
6/23	CT115	004	9 7	15 17	7452	12174	3.10	0.05	370	14.64	3.42
6/23	CT043	005	9 43	15 11	16785	22211	2.56	0.06	328	13.89	4.32
6/23	CT114	006	9 45	15 16	76369	82025	1.76	0.03	331	9.95	3.01
6/24	CT206	006	10 40	15 18	18845	22976	2.38	0.03	278	9.83	3.05
6/25	CT396	006	8 7	14 13	73882	80219	1.67	0.05	366	10.58	4.72
6/23	CT135	007	9 50	15 12	43887	48510	2.94	0.14	322	13.59	10.30
6/24	CT222	007	7 58	15 2	16564	23821	2.19	0.16	424	15.89	10.07
6/25	CT362	007	7 50	14 3	21118	26592	2.60	0.17	373	14.23	11.94
6/23	CT110	008	10 0	15 18	64212	68460	2.66	0.02	318	11.30	1.77
6/23	CT073	009	8 30	15 18	17765	26500	1.57	0.08	408	13.71	5.83
6/24	CT211	009	8 16	15 3	68460	73124	2.60	0.05	407	12.13	4.12
6/23	CT116	010	8 36	15 20	16160	21939	2.81	0.31	404	16.24	19.09
6/24	CT184	010	8 38	15 5	16461	21708	2.80	0.15	387	14.69	10.21
6/25	CT428	010	8 25	14 8	5656	10993	2.14	0.14	343	11.42	12.26
6/24	CT269	011	8 32	15 7	21939	27594	2.81	0.14	395	15.89	8.81
6/24	CT284	012	8 35	15 6	22211	28534	2.15	0.09	391	13.59	6.62
6/23	CT134	013	8 10	15 12	58307	65754	1.70	0.10	422	12.66	7.90
6/24	CT179	013	7 46	15 1	89095	97432	2.65	0.15	435	22.09	7.24
6/25	CT353	013	7 52	14 2	27593	32903	2.81	0.13	370	14.94	8.70
6/23	CT088	014	8 16	15 8	91519	99095	2.13	0.33	412	16.14	20.45
6/24	CT176	014	7 23	15 8	88374	95556	1.95	0.07	465	14.20	4.93
6/25	CT441	014	7 26	14 17	45207	51846	2.20	0.09	411	14.61	6.16
6/23	CT040	015	8 24	15 10	13043	18875	2.38	0.31	406	13.88	22.33
6/24	CT203	016	10 37	15 19	17005	21118	2.66	0.04	282	10.94	3.66
6/25	CT352	016	8 2	14 15	35225	42984	1.57	0.06	373	12.18	4.93

TABLE A24

HERREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: ISOBUTYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT131	001	7 57	15 15	10532	16994	2.66	0.11	438	17.19	6.40
6/24	CT049	001	7 50	15 15	38156	45207	2.19	0.10	431	15.44	6.48
6/25	CT375	001	7 38	14 14	27455	32965	2.50	0.07	383	13.78	5.08
6/23	CT094	002	8 5	15 8	91735	98374	2.14	0.03	423	14.21	2.11
6/24	CT133	002	7 31	15 14	65754	73882	1.70	0.06	463	13.82	4.34
6/25	CT399	002	8 15	14 5	22976	26239	2.38	0.02	350	7.77	2.58
6/24	CT212	003	8 8	14 58	26500	35225	1.57	0.11	410	13.70	8.03
6/23	CT115	004	9 7	15 17	7452	12174	3.10	0.02	370	14.64	1.37
6/23	CT043	005	9 43	15 11	16785	22211	2.56	0.04	328	13.89	2.88
6/23	CT114	006	9 45	15 16	76369	82025	1.76	0.02	331	9.95	2.01
6/24	CT206	006	10 40	15 18	18845	22976	2.38	0.01	278	9.83	1.02
6/25	CT396	006	8 7	14 13	73882	80219	1.67	0.02	366	10.58	1.89
6/23	CT135	007	9 50	15 12	43987	48510	2.94	0.06	322	13.59	4.41
6/24	CT222	007	7 58	15 2	16564	23821	2.19	0.05	424	15.89	3.15
6/25	CT362	007	7 50	14 3	21118	26592	2.60	0.06	373	14.23	4.22
6/23	CT110	008	10 0	15 18	64212	68460	2.66	-0.01	318	11.30	-0.88
6/23	CT073	009	8 30	15 18	17765	26500	1.57	0.03	408	13.71	2.19
6/24	CT211	009	8 16	15 3	68450	73124	2.60	0.02	407	12.13	1.65
6/23	CT116	010	8 36	15 20	16160	21939	2.81	0.08	404	16.24	4.93
6/24	CT184	010	8 38	15 5	16461	21703	2.80	0.03	387	14.69	2.04
6/25	CT428	010	8 25	14 8	5656	10993	2.14	0.02	343	11.42	1.75
6/24	CT269	011	8 32	15 7	21939	27594	2.81	0.04	395	15.89	2.52
6/24	CT284	012	8 35	15 6	22211	28534	2.15	0.03	391	13.59	2.21
6/23	CT134	013	8 10	15 12	58307	65754	1.70	0.08	422	12.66	6.32
6/24	CT179	013	7 46	15 1	89095	97432	2.65	0.06	435	22.09	2.72
6/25	CT353	013	7 52	14 2	27593	32903	2.81	0.05	370	14.94	3.35
6/23	CT083	014	8 16	15 8	91519	99095	2.13	0.15	412	16.14	9.30
6/24	CT176	014	7 23	15 8	88374	95656	1.95	0.06	465	14.20	4.23
6/25	CT441	014	7 26	14 17	45207	51346	2.20	0.10	411	14.61	6.85
6/23	CT040	015	8 24	15 10	13043	18875	2.38	0.20	406	13.88	14.41
6/24	CT203	016	10 37	15 19	17005	21118	2.66	0.02	282	10.94	1.83
6/25	CT352	016	8 2	14 15	35225	42984	1.57	0.02	373	12.18	1.64

TABLE A25

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: ISOBUTYL ISOBUTYRATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT1131	001	7 57	15 15	10532	16994	2.66	0.05	438	17.19	2.91
6/24	CT049	001	7 50	15 1	38156	45207	2.19	0.10	431	15.44	6.48
6/25	CT375	001	7 38	14 1	27455	32965	2.50	0.05	383	13.78	3.63
6/23	CT094	002	8 5	15 8	91735	98374	2.14	0.02	423	14.21	1.41
6/24	CT1188	002	7 31	15 14	65754	73882	1.70	0.05	463	13.82	3.62
6/25	CT399	002	8 15	14 5	22976	26239	2.38	0.03	350	7.77	3.86
6/24	CT212	003	8 8	14 58	26500	35225	1.57	0.07	410	13.70	5.11
6/23	CT115	004	9 7	15 17	7452	12174	3.10	0.03	370	14.64	2.05
6/23	CT043	005	9 43	15 11	16785	22211	2.56	0.08	328	13.89	5.76
6/23	CT114	006	9 45	15 16	76369	82025	1.76	0.03	331	9.95	3.01
6/24	CT206	006	10 40	15 18	18845	22976	2.38	0.03	278	9.83	3.05
6/25	CT396	006	8 7	14 13	73882	80219	1.67	0.03	366	10.58	2.83
6/23	CT135	007	9 50	15 12	43887	48510	2.94	0.07	322	13.59	5.15
6/24	CT222	007	7 58	15 2	16564	23821	2.19	0.09	424	15.89	5.66
6/25	CT362	007	7 50	14 3	21118	26592	2.60	0.10	373	14.23	7.03
6/23	CT110	008	10 0	15 18	64212	68460	2.66	0.01	318	11.30	0.88
6/23	CT073	009	8 30	15 18	17765	26500	1.57	0.04	408	13.71	2.92
6/24	CT211	009	8 16	15 3	68460	73124	2.60	0.04	407	12.13	3.30
6/23	CT116	010	8 36	15 20	16160	21939	2.81	0.22	404	16.24	13.55
6/24	CT184	010	8 38	15 5	16461	21708	2.80	0.11	387	14.69	7.49
6/25	CT428	010	8 25	14 8	5656	10993	2.14	0.07	343	11.42	6.13
6/24	CT269	011	8 32	15 7	21939	27594	2.81	0.17	395	15.89	10.70
6/24	CT284	012	8 35	15 6	22211	28534	2.15	0.09	391	13.59	6.62
6/23	CT134	013	8 10	15 12	58307	65754	1.70	0.05	422	12.66	3.95
6/24	CT179	013	7 46	15 1	89095	97432	2.65	0.09	435	22.09	4.07
6/25	CT353	013	7 52	14 2	27593	32908	2.81	0.07	370	14.94	4.69
6/23	CT088	014	8 16	15 8	91519	99095	2.13	0.08	412	16.14	4.96
6/24	CT176	014	7 23	15 8	88374	95656	1.95	0.03	465	14.20	2.11
6/25	CT441	014	7 26	14 17	45207	51846	2.20	0.05	411	14.61	3.42
6/23	CT040	015	8 24	15 10	13043	18875	2.38	0.06	406	13.88	4.32
6/24	CT203	016	10 37	15 19	17005	21118	2.66	0.07	282	10.94	6.40
6/25	CT352	016	8 2	14 15	35225	42984	1.57	0.07	373	12.18	5.75

TABLE A26

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: METHYL AMYL KETONE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	CT131	001	7 57	15 15	10532	16994	2.66	0.01	438	17.19	0.58
6/24	CT049	001	7 50	15 15	38156	45207	2.19	0.04	431	15.44	2.59
6/25	CT375	001	7 38	14 14	27455	32965	2.50	0.01	383	13.78	0.73
6/23	CT094	002	8 5	15 8	91735	98374	2.14	-0.01	423	14.21	-0.70
6/24	CT188	002	7 31	15 14	65754	73882	1.70	-0.01	463	13.82	-0.72
6/25	CT399	002	8 15	14 5	22976	26239	2.38	-0.01	350	7.77	-1.29
6/24	CT212	003	8 8	14 58	26500	35225	1.57	0.02	410	13.70	1.46
6/23	CT115	004	9 7	15 17	7452	12174	3.10	0.01	370	14.64	0.68
6/23	CT043	005	9 43	15 11	16785	22211	2.56	-0.01	328	13.89	-0.72
6/23	CT114	006	9 45	15 16	76369	82025	1.76	-0.01	331	9.95	-1.00
6/24	CT206	006	10 40	15 18	18845	22976	2.38	-0.01	278	9.83	-1.02
6/25	CT396	006	8 7	14 13	73882	80219	1.67	-0.01	366	10.58	-0.94
6/23	CT135	007	9 50	15 12	43887	48510	2.94	0.04	322	13.59	2.94
6/24	CT222	007	7 58	15 2	16564	23821	2.19	0.02	424	15.89	1.26
6/25	CT362	007	7 50	14 3	21118	26592	2.60	0.05	373	14.23	3.51
6/23	CT110	008	10 0	15 18	64212	68460	2.66	-0.01	318	11.30	-0.88
6/23	CT073	009	8 30	15 18	17765	26500	1.57	0.01	408	13.71	0.73
6/24	CT211	009	8 16	15 3	68460	73124	2.60	0.01	407	12.13	0.82
6/23	CT116	010	8 36	15 20	16160	21939	2.81	0.08	404	16.24	4.93
6/24	CT184	010	8 38	15 5	16461	21708	2.80	0.03	387	14.69	2.04
6/25	CT428	010	8 25	14 8	5656	10993	2.14	0.03	343	11.42	2.63
6/24	CT269	011	8 32	15 7	21939	27594	2.81	0.05	395	15.89	3.15
6/24	CT284	012	8 35	15 6	22211	28534	2.15	0.03	391	13.59	2.21
6/23	CT134	013	8 10	15 12	58307	65754	1.70	0.02	422	12.66	1.58
6/24	CT179	013	7 46	15 1	89095	97432	2.65	0.05	435	22.09	2.26
6/25	CT353	013	7 52	14 2	27593	32908	2.81	0.04	370	14.94	2.68
6/23	CT088	014	8 16	15 8	91519	99095	2.13	0.01	412	16.14	0.62
6/24	CT176	014	7 23	15 8	88374	95656	1.95	-0.01	465	14.20	-0.70
6/25	CT441	014	7 26	14 17	45207	51846	2.20	0.02	411	14.61	1.37
6/23	CT040	015	8 24	15 10	13043	18875	2.38	0.02	406	13.88	1.44
6/24	CT203	016	10 37	15 19	17005	21118	2.66	-0.01	282	10.94	-0.91
6/25	CT352	016	8 2	14 15	35225	42984	1.57	-0.01	373	12.18	-0.82

TABLE A27

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: XYLENES

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	CT131	001	7 57	15 15	10532	16994	2.66	0.03	438	17.19	1.75
6/24	CT049	001	7 50	15 15	38156	45207	2.19	0.08	431	15.44	5.18
6/25	CT375	001	7 38	14 14	27455	32965	2.50	0.02	383	13.78	1.45
6/23	CT094	002	8 5	15 8	91735	98374	2.14	0.01	423	14.21	0.70
6/24	CT188	002	7 31	15 14	65754	73882	1.70	0.04	463	13.82	2.89
6/25	CT399	002	8 15	14 5	22976	26239	2.38	0.02	350	7.77	2.58
6/24	CT212	003	8 8	14 58	26500	35225	1.57	0.04	410	13.70	2.92
6/23	CT115	004	9 7	15 17	7452	12174	3.10	0.03	370	14.64	2.05
6/23	CT043	005	9 43	15 11	16785	22211	2.56	0.02	328	13.89	1.44
6/23	CT114	006	9 45	15 16	76369	82025	1.76	0.01	331	9.95	1.00
6/24	CT206	006	10 40	15 18	18845	22976	2.38	-0.02	278	9.83	-2.03
6/25	CT396	006	8 7	14 13	73882	80219	1.67	0.02	366	10.58	1.89
6/23	CT135	007	9 50	15 12	43887	48510	2.94	0.07	322	13.59	5.15
6/24	CT222	007	7 58	15 2	16564	23821	2.19	0.07	424	15.89	4.40
6/25	CT362	007	7 50	14 3	21118	26592	2.60	0.08	373	14.23	5.62
6/23	CT110	008	10 0	15 18	64212	68460	2.66	-0.02	318	11.30	-1.77
6/23	CT073	009	8 30	15 18	17765	26500	1.57	0.02	408	13.71	1.46
6/24	CT211	009	8 16	15 3	68460	73124	2.60	0.02	407	12.13	1.65
6/23	CT116	010	8 36	15 20	16160	21939	2.81	0.13	404	16.24	8.01
6/24	CT184	010	8 38	15 5	16461	21708	2.80	0.06	387	14.69	4.08
6/25	CT428	010	8 25	14 8	5656	10993	2.14	0.03	343	11.42	2.63
6/24	CT269	011	8 32	15 7	21939	27594	2.81	0.08	395	15.89	5.03
6/24	CT284	012	8 35	15 6	22211	28534	2.15	0.04	391	13.59	2.94
6/23	CT134	013	8 10	15 12	58307	65754	1.70	0.03	422	12.66	2.37
6/24	CT179	013	7 46	15 1	89095	97432	2.65	0.07	435	22.09	3.17
6/25	CT353	013	7 52	14 2	27593	32908	2.81	0.03	370	14.94	2.01
6/23	CT088	014	8 16	15 8	91519	99095	2.13	0.05	412	16.14	3.10
6/24	CT176	014	7 23	15 8	88374	95656	1.95	0.02	465	14.20	1.41
6/25	CT441	014	7 26	14 17	45207	51846	2.20	0.04	411	14.61	2.74
6/23	CT040	015	8 24	15 10	13043	18875	2.38	0.06	406	13.88	4.32
6/24	CT203	016	10 37	15 19	17005	21118	2.66	0.01	282	10.94	0.91
6/25	CT352	016	8 2	14 15	35225	42984	1.57	0.03	373	12.18	2.46

TABLE A28

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: LACTOL SPIRITS

DATE 1981	SAMPLE NO.	JOB CODE	TIME START STOP	STROKES START STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT131	001	7 57 15 15	10532 16994	2.66	0.30	438	17.19	17.45
6/24	CT049	001	7 50 15 1	38156 45207	2.19	0.20	431	15.44	12.95
6/25	CT375	001	7 38 14 1	27455 32965	2.50	0.20	383	13.78	14.52
6/23	CT094	002	8 5 15 8	91735 98374	2.14	-0.10	423	14.21	-7.04
6/24	CT188	002	7 31 15 14	65754 73882	1.70	0.10	463	13.82	7.24
6/25	CT399	002	8 15 14 5	22976 26239	2.38	-0.10	350	7.77	-12.88
6/24	CT212	003	8 8 14 58	26500 35225	1.57	0.20	410	13.70	14.60
6/23	CT115	004	9 7 15 17	7452 12174	3.10	0.10	370	14.64	6.83
6/23	CT043	005	9 43 15 11	16785 22211	2.56	-0.10	328	13.89	-7.20
6/23	CT114	006	9 45 15 16	76369 82025	1.76	-0.10	331	9.95	-10.05
6/24	CT206	006	10 40 15 18	18845 22976	2.38	-0.10	278	9.83	-10.17
6/25	CT396	006	8 7 14 13	73882 80219	1.67	-0.10	366	10.58	-9.45
6/23	CT135	007	9 50 15 12	43887 48510	2.94	0.10	322	13.59	7.36
6/24	CT222	007	7 58 15 2	16564 23821	2.19	0.10	424	15.89	6.29
6/25	CT362	007	7 50 14 3	21118 26592	2.60	0.10	373	14.23	7.03
6/23	CT110	008	10 0 15 18	64212 68460	2.66	-0.10	318	11.30	-8.85
6/23	CT073	009	8 30 15 18	17765 26500	1.57	-0.10	408	13.71	-7.29
6/24	CT211	009	8 16 15 3	68460 73124	2.60	-0.10	407	12.13	-8.25
6/23	CT116	010	8 36 15 20	16160 21939	2.81	0.20	404	16.24	12.32
6/24	CT184	010	8 38 15 5	16461 21708	2.80	-0.10	387	14.69	-6.81
6/25	CT428	010	8 25 14 8	5656 10993	2.14	-0.10	343	11.42	-8.76
6/24	CT269	011	8 32 15 7	21939 27594	2.81	-0.10	395	15.89	-6.29
6/24	CT284	012	8 35 15 6	22211 28534	2.15	-0.10	391	13.59	-7.36
6/23	CT134	013	8 10 15 12	58307 65754	1.70	0.10	422	12.66	7.90
6/24	CT179	013	7 46 15 1	89095 97432	2.65	0.20	435	22.09	9.05
6/25	CT353	013	7 52 14 2	27593 32908	2.81	0.10	370	14.94	6.70
6/23	CT088	014	8 16 15 8	91519 99095	2.13	0.30	412	16.14	18.59
6/24	CT176	014	7 23 15 8	88374 95656	1.95	0.10	465	14.20	7.04
6/25	CT441	014	7 26 14 17	45207 51846	2.20	0.10	411	14.61	6.85
6/23	CT040	015	8 24 15 10	13043 18875	2.38	0.40	406	13.88	28.82
6/24	CT203	016	10 37 15 19	17005 21118	2.66	-0.10	282	10.94	-9.14
6/25	CT352	016	8 2 14 15	35225 42984	1.57	-0.10	373	12.18	-8.21

TABLE A29

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: MINERAL SPIRITS													
DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)		
1981													
6/23	CT115	004	9 7	15 17	7452	12174	3.10	-0.10	370	14.64	-6.83		
6/23	CT043	005	9 43	15 11	16785	22211	2.56	0.70	328	13.89	50.39		
6/23	CT114	006	9 45	15 16	76369	82025	1.76	0.20	331	9.95	20.09		
6/24	CT206	006	10 40	15 18	18845	22976	2.38	0.20	278	9.83	20.34		
6/25	CT396	006	8 7	14 13	73882	80219	1.67	0.10	366	10.58	9.45		
6/24	CT179	013	7 46	15 1	89095	97432	2.65	0.40	435	22.09	18.11		
6/24	CT203	016	10 37	15 19	17005	21118	2.66	0.90	282	10.94	82.26		
6/2z	CT352	016	8 2	14 15	35225	42984	1.57	0.70	373	12.18	57.46		

TABLE A30

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: ISOPROPYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	CT135	007	9 50	15 12	43887	48510	2.94	0.03	322	13.59	2.21
6/24	CT222	007	7 58	15 2	16564	23821	2.19	0.04	424	15.89	2.52
6/25	CT362	007	7 50	14 3	21118	26592	2.60	0.05	373	14.23	3.51
6/23	CT134	013	8 10	15 12	58307	65754	1.70	0.02	422	12.66	1.58
6/25	CT353	013	7 52	14 2	27593	32908	2.81	0.05	370	14.94	3.35

TABLE A31

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: TOTAL SPRAY MIST													
DATE	SAMPLE NO.	JOB CODE	START	STOP	TIME	START	STOP	FLOW (LPM)	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)	
1981													
6/23	F5397	001	7 57	11 34	12 28	15 15		2.00	0.97	384	768.00	1.26	
6/23	F5402	002	8 5	11 35	12 28	15 8		2.00	0.28	370	740.00	0.38	
6/24	F3356	002	7 31	11 38	12 32	15 12		2.00	0.89	407	814.00	1.09	
6/24	F3352	003	8 8	11 33	12 30	14 58		2.00	0.33	353	706.00	0.47	
6/25	F2364	003	7 36			11 50		2.00	0.12	254	508.00	0.24	
6/24	F3353	005	10 20	11 36	12 32	15 18		2.00	0.56	242	484.00	1.16	
6/25	F3370	005	8 0			11 53		2.00	0.41	233	466.00	0.88	
6/24	F3351	007	7 58	11 37	12 33	15 2		2.00	0.52	368	736.00	0.71	
6/24	F3350	013	7 46	11 33	12 30	15 1		2.00	0.42	378	756.00	0.56	
6/25	F3360	013	7 52			11 53		2.00	0.11	241	482.00	0.23	
6/23	F5396	014	8 16	11 33	12 32	15 8		2.00	0.53	353	706.00	0.75	
6/24	F3357	014	7 23	11 32	12 30	15 8		2.00	0.78	407	814.00	0.96	
6/25	F3366	014	7 26			11 54		2.00	0.53	268	536.00	0.99	

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: ISOPROPYL ALCOHOL

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT006	001	7 57	15 15	38045	46013	2.37	0.05	438	18.88	2.65
6/24	CT049	001	7 50	15 15	38156	45207	2.20	0.14	431	15.51	9.03
6/25	CT405	001	7 38	14 14	23821	30224	2.19	0.08	383	14.02	5.71
6/23	CT055	002	8 5	15 8	91735	98374	1.95	0.01	423	12.95	0.77
6/24	CT283	002	7 31	15 14	20037	27088	3.16	0.07	463	22.28	3.14
6/25	CT402	002	8 15	14 5	21196	24553	2.17	0.04	350	7.28	5.49
6/23	CT107	003	9 1	15 17	12416	17689	2.73	0.14	376	14.40	9.73
6/24	CT275	003	8 8	14 58	6205	11840	2.78	0.04	410	15.67	2.55
6/23	CT065	004	9 8	15 17	12565	18059	2.66	0.02	369	14.61	1.37
6/23	CT137	005	9 43	15 11	13579	16233	1.77	-0.01	328	4.70	-2.13
6/23	CT099	006	9 45	15 16	76369	82025	1.71	-0.01	331	9.67	-1.03
6/25	CT433	006	8 7	14 13	73882	80219	1.70	0.02	366	10.77	1.86
6/23	CT132	007	9 50	15 12	13439	19067	2.28	0.07	322	12.83	5.46
6/24	CT219	007	7 58	15 2	16564	23821	1.92	0.06	424	13.93	4.31
6/25	CT403	007	7 50	14 3	21118	26592	2.66	0.08	373	14.56	5.49
6/23	CT108	008	10 12	15 18	14066	18733	2.78	0.02	306	12.97	1.54
6/23	CT059	009	8 30	15 18	14680	20719	2.50	0.04	408	15.10	2.65
6/24	CT172	009	8 16	15 3	68460	73124	2.66	-0.01	407	12.41	-0.81
6/23	CT100	010	8 36	15 20	782	6205	2.78	0.12	404	15.08	7.96
6/24	CT247	010	8 38	15 5	16461	21708	2.74	0.08	387	14.38	5.56
6/25	CT424	010	8 25	14 8	11839	16486	2.78	0.08	343	12.92	6.19
6/24	CT287	011	8 32	15 7	22891	28458	2.73	0.07	395	15.20	4.61
6/24	CT257	012	8 35	15 6	22211	28534	2.56	0.04	391	16.19	2.47
6/23	CT050	013	8 10	15 12	15524	21196	2.17	0.04	422	12.31	3.25
6/24	CT167	013	7 46	15 1	19067	26667	2.28	0.05	435	17.33	2.89
6/25	CT302	013	7 52	14 2	27593	32908	2.81	0.04	370	14.94	2.68
6/23	CT038	014	8 16	15 8	17193	22891	2.73	0.06	412	15.56	3.86
6/24	CT170	014	7 23	15 8	20719	27455	2.50	0.03	465	16.84	1.78
6/25	CT394	014	7 26	14 17	45207	51846	2.19	0.04	411	14.54	2.75
6/23	CT035	015	8 24	15 11	13816	16190	2.70	0.06	407	6.41	9.36
6/24	CT194	016	10 37	15 19	26861	30362	3.01	0.01	282	10.54	0.95
6/25	CT319	016	8 2	14 15	20784	25976	2.58	0.03	373	13.40	2.24

TABLE A33

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: ETHANOL

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT006	001	7 57	15 15	38045	46013	2.37	0.10	438	18.88	5.30
6/24	CT049	001	7 50	15 15	38156	45207	2.20	0.13	431	15.51	8.38
6/25	CT405	001	7 38	14 14	23821	30224	2.19	0.08	383	14.02	5.71
6/23	CT055	002	8 5	15 8	91735	98374	1.95	0.02	423	12.95	1.54
6/24	CT283	002	7 31	15 14	20037	27088	3.16	0.14	463	22.28	6.28
6/25	CT402	002	8 15	14 5	21196	24553	2.17	0.08	350	7.28	10.98
6/23	CT107	003	9 1	15 17	12416	17689	2.73	0.08	376	14.40	5.56
6/24	CT275	003	8 8	14 58	6205	11840	2.78	0.07	410	15.67	4.47
6/23	CT065	004	9 8	15 17	12565	18059	2.66	0.51	369	14.61	34.90
6/23	CT137	005	9 43	15 11	13579	16233	1.77	0.01	328	4.70	2.13
6/23	CT099	006	9 45	15 16	76369	82025	1.71	0.02	331	9.67	2.07
6/25	CT433	006	8 7	14 13	73882	80219	1.70	0.07	366	10.77	6.50
6/23	CT132	007	9 50	15 12	13439	19067	2.28	0.10	322	12.83	7.79
6/24	CT219	007	7 58	15 2	16564	23821	1.92	0.11	424	13.93	7.89
6/25	CT403	007	7 50	14 3	21118	26592	2.66	0.16	373	14.56	10.99
6/23	CT108	008	10 12	15 18	14066	18733	2.78	0.80	306	12.97	61.66
6/23	CT059	009	8 30	15 18	14680	20719	2.50	0.25	408	15.10	16.56
6/24	CT172	009	8 16	15 3	68460	73124	2.66	0.08	407	12.41	6.45
6/23	CT100	010	8 36	15 20	782	6205	2.78	0.10	404	15.08	6.63
6/24	CT247	010	8 38	15 5	16461	21708	2.74	0.10	387	14.38	6.96
6/25	CT424	010	8 25	14 8	11839	16486	2.78	0.14	343	12.92	10.84
6/24	CT287	011	8 32	15 7	22891	28458	2.73	0.19	395	15.20	12.50
6/24	CT257	012	8 35	15 6	22211	28534	2.56	0.42	391	16.19	25.95
6/23	CT050	013	8 10	15 12	15524	21196	2.17	0.13	422	12.31	10.56
6/24	CT167	013	7 46	15 1	19067	26667	2.28	0.15	435	17.33	8.66
6/25	CT302	013	7 52	14 2	27593	32908	2.81	0.16	370	14.94	10.71
6/23	CT038	014	8 16	15 8	17193	22891	2.73	0.04	412	15.56	2.57
6/24	CT170	014	7 23	15 8	20719	27455	2.50	0.03	465	16.84	1.78
6/25	CT394	014	7 26	14 17	45207	51846	2.19	0.06	411	14.54	4.13
6/23	CT035	015	8 24	15 11	13816	16190	2.70	0.06	407	6.41	9.36
6/24	CT194	016	10 37	15 19	26861	30362	3.01	0.02	282	10.54	1.90
6/25	CT319	016	8 2	14 15	20784	25976	2.58	0.09	373	13.40	6.72

TABLE A34

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: 2-BUTOXYETHANOL

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
6/23	CT006	001	7 57	15 15	38045	46013	2.37	0.05	438	18.88	2.65
6/24	CT049	001	7 50	15 15	38156	45207	2.20	0.10	431	15.51	6.45
6/25	CT405	001	7 38	14 14	23821	30224	2.19	0.03	383	14.02	2.14
6/23	CT055	002	8 5	15 8	91735	98374	1.95	0.02	423	12.95	1.54
6/24	CT283	002	7 31	15 14	20037	27088	3.16	0.06	463	22.28	2.69
6/25	CT402	002	8 15	14 5	21196	24553	2.17	0.03	350	7.28	4.12
6/23	CT107	003	9 1	15 17	12416	17689	2.73	0.03	376	14.40	2.08
6/24	CT275	003	8 8	14 58	6205	11840	2.78	0.05	410	15.67	3.19
6/23	CT065	004	9 8	15 17	12565	18059	2.66	-0.01	369	14.61	-0.68
6/23	CT137	005	9 43	15 11	13579	16233	1.77	0.02	328	4.70	4.26
6/23	CT099	006	9 45	15 16	76369	82025	1.71	0.02	331	9.67	2.07
6/25	CT433	006	8 7	14 13	73882	80219	1.70	0.03	366	10.77	2.78
6/23	CT132	007	9 50	15 12	13439	19067	2.28	0.07	322	12.83	5.46
6/24	CT219	007	7 58	15 2	16564	23821	1.92	0.08	424	13.93	5.74
6/25	CT403	007	7 50	14 3	21118	26592	2.66	0.10	373	14.56	6.87
6/23	CT108	008	10 12	15 18	14066	18733	2.78	0.02	306	12.97	1.54
6/23	CT059	009	8 30	15 18	14680	20719	2.50	0.03	408	15.10	1.99
6/24	CT172	009	8 16	15 3	68460	73124	2.66	0.02	407	12.41	1.61
6/23	CT100	010	8 36	15 20	782	6205	2.78	0.09	404	15.08	5.97
6/24	CT247	010	8 38	15 5	16461	21708	2.74	0.08	387	14.38	5.56
6/25	CT424	010	8 25	14 8	11839	16486	2.78	0.07	343	12.92	5.42
6/24	CT287	011	8 32	15 7	22891	28458	2.73	0.09	395	15.20	5.92
6/24	CT257	012	8 35	15 6	22211	28534	2.56	0.06	391	16.19	3.71
6/23	CT050	013	8 10	15 12	15524	21196	2.17	0.06	422	12.31	4.87
6/24	CT167	013	7 46	15 1	19067	26667	2.28	0.08	435	17.33	4.62
6/25	CT302	013	7 52	14 2	27593	32908	2.81	0.06	370	14.94	4.02
6/23	CT038	014	8 16	15 8	17193	22891	2.73	0.05	412	15.56	3.21
6/24	CT170	014	7 23	15 8	20719	27455	2.50	0.05	465	16.84	2.97
6/25	CT394	014	7 26	14 17	45207	51846	2.19	0.05	411	14.54	3.44
6/23	CT035	015	8 24	15 11	13816	16190	2.70	0.04	407	6.41	6.24
6/24	CT194	016	10 37	15 19	26861	30362	3.01	0.04	282	10.54	3.80
6/25	CT319	016	8 2	14 15	20784	25976	2.58	0.05	373	13.40	3.73

TABLE A35

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: METHANOL

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	SG021	001	7 57	15 15	38045	46013	2.03	0.07	438	16.18	4.33
6/24	SG168	001	7 50	15 15	14001	19417	3.01	0.17	431	16.30	10.43
6/25	SG192	001	7 38	14 14	27455	32965	2.45	0.05	383	13.50	3.70
6/23	SG007	002	8 5	15 8	20372	26861	2.75	-0.02	423	17.84	-1.12
6/24	SG180	002	7 31	15 14	20037	27088	2.53	-0.02	463	17.84	-1.12
6/25	SG451	002	8 15	14 5	21196	24553	2.56	-0.02	350	8.59	-2.33
6/23	SG075	003	9 1	15 17	12416	17689	3.00	-0.02	376	15.82	-1.26
6/24	SG165	003	8 8	14 58	6205	11840	2.67	0.03	410	15.05	1.99
6/23	SG060	004	9 8	15 17	12565	18059	2.40	-0.02	369	13.19	-1.52
6/23	SG090	005	9 43	15 11	13579	16233	1.97	-0.02	328	5.23	-3.83
6/24	SG279	005	10 20	15 18	46013	51489	2.03	-0.02	298	11.12	-1.80
6/23	SG004	006	9 45	15 16	15113	20037	2.53	-0.02	331	12.46	-1.61
6/24	SG270	006	10 40	15 18	16655	20784	2.46	-0.02	278	10.16	-1.97
6/25	SG452	006	8 7	14 13	30362	34876	2.75	-0.02	366	12.41	-1.61
6/23	SG012	007	9 50	15 12	13439	19067	2.38	-0.02	322	13.39	-1.49
6/24	SG159	007	7 58	15 2	43600	49879	2.36	-0.02	424	14.82	-1.35
6/25	SG198	007	7 50	14 3	26667	33008	2.38	-0.02	373	15.09	-1.33
6/23	SG093	008	10 12	15 18	14066	18733	2.65	-0.02	306	12.37	-1.62
6/23	SG066	009	8 30	15 18	14680	20719	2.45	-0.02	408	14.80	-1.35
6/24	SG177	009	8 16	15 3	14412	19795	2.48	-0.02	407	13.35	-1.50
6/25	SG318	009	7 54	14 6	16190	21817	2.56	0.02	372	14.41	1.39
6/23	SG033	010	8 36	15 20	782	6205	2.67	-0.02	404	14.48	-1.38
6/25	SG419	010	8 25	14 8	11839	16486	2.67	0.05	343	12.41	4.03
6/23	SG087	011	8 40	15 10	12528	14412	2.48	-0.02	390	4.67	-4.28
6/24	SG294	011	8 32	15 7	22891	28458	2.60	-0.02	395	14.47	-1.38
6/24	SG162	012	8 35	15 6	18733	24799	2.65	-0.02	391	16.07	-1.24
6/23	SG010	013	8 10	15 12	15524	21196	2.56	-0.02	422	14.52	-1.38
6/24	SG171	013	7 46	15 1	19067	26667	2.38	-0.02	435	18.09	-1.11
6/25	SG456	013	7 52	14 2	27088	32783	2.53	0.02	370	14.41	1.39
6/23	SG051	014	8 16	15 8	17193	22891	2.60	-0.02	412	14.81	-1.35
6/24	SG282	014	7 23	15 8	20719	27455	2.45	-0.02	465	16.50	-1.21
6/25	SG327	014	7 26	14 17	24799	31177	2.65	-0.02	411	16.90	-1.18
6/23	SG036	015	8 24	15 11	13816	16190	2.56	-0.02	407	6.08	-3.29
6/24	SG276	016	10 37	15 19	26861	30362	2.75	-0.02	282	9.63	-2.08
6/25	SG460	016	8 2	14 15	20784	25976	2.46	-0.02	373	12.77	-1.57

TABLE A36

HENREDON FURNITURE INDUSTRIES, INC.
SAMPLING RESULTS: #2 FINISHING AREA

COMPOUND: N-BUTYL ACETATE

DATE	SAMPLE NO.	JOB CODE	TIME START	TIME STOP	STROKES START	STROKES STOP	FLOW CC/ST	WT. ANAL. (MG)	TIME (MIN)	VOLUME (L)	CONC. (MG/M3)
1981											
6/23	CT131	001	7 57	15 15	10532	16994	2.66	0.05	438	17.19	2.91
6/24	CT049	001	7 50	15 15	38156	45207	2.19	0.23	431	15.44	14.89
6/25	CT375	001	7 38	14 15	27455	32965	2.50	0.06	383	13.78	4.36
6/23	CT094	002	8 5	15 8	91735	98374	2.14	0.02	423	14.21	1.41
6/24	CT188	002	7 31	15 14	65754	73882	1.70	0.07	463	13.82	5.07
6/25	CT399	002	8 15	14 5	22976	26239	2.38	0.05	350	7.77	6.44
6/24	CT212	003	8 8	14 58	26500	35225	1.57	0.08	410	13.70	5.84
6/23	CT115	004	9 7	15 17	7452	12174	3.10	0.05	370	14.64	3.42
6/23	CT043	005	9 43	15 11	16785	22211	2.56	0.05	328	13.89	3.60
6/23	CT114	006	9 45	15 16	76369	82025	1.76	0.03	331	9.95	3.01
6/24	CT206	006	10 40	15 18	18845	22976	2.38	0.03	278	9.83	3.05
6/25	CT396	006	8 7	14 13	73882	80219	1.67	0.05	366	10.58	4.72
6/23	CT135	007	9 50	15 12	43887	48510	2.94	0.28	322	13.59	20.60
6/24	CT222	007	7 58	15 2	16564	23821	2.19	0.22	424	15.89	13.84
6/25	CT362	007	7 50	14 3	21118	26592	2.60	0.24	373	14.23	16.86
6/23	CT110	008	10 0	15 18	64212	68460	2.66	0.02	318	11.30	1.77
6/23	CT073	009	8 30	15 18	17765	26500	1.57	0.04	408	13.71	2.92
6/24	CT211	009	8 16	15 3	68460	73124	2.60	0.04	407	12.13	3.30
6/23	CT116	010	8 36	15 20	16160	21939	2.81	0.23	404	16.24	14.16
6/24	CT184	010	8 38	15 5	16461	21708	2.80	0.10	387	14.69	6.81
6/25	CT428	010	8 25	14 8	5656	10993	2.14	0.07	343	11.42	6.13
6/24	CT269	011	8 32	15 7	21939	27594	2.81	0.11	395	15.89	6.92
6/24	CT284	012	8 35	15 6	22211	28534	2.15	0.07	391	13.59	5.15
6/23	CT134	013	8 10	15 12	58307	65754	1.70	0.15	422	12.66	11.85
6/24	CT179	013	7 46	15 1	89095	97432	2.65	0.19	435	22.09	8.60
6/25	CT353	013	7 52	14 2	27593	32908	2.81	0.16	370	14.94	10.71
6/23	CT088	014	8 16	15 8	91519	99095	2.13	0.05	412	16.14	3.10
6/24	CT176	014	7 23	15 8	88374	95656	1.95	0.03	465	14.20	2.11
6/25	CT441	014	7 26	14 17	45207	51846	2.20	0.05	411	14.61	3.42
6/23	CT040	015	8 24	15 10	13043	18875	2.38	0.16	406	13.88	11.53
6/24	CT203	016	10 37	15 19	17005	21118	2.66	0.03	282	10.94	2.74
6/25	CT352	016	8 2	14 15	35225	42984	1.57	0.06	373	12.18	4.93