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August 23, 2002

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COPY

EXPANDED BUILDING INVESTIGATION
CITY OF MILPITAS - SENIOR CENTER
MILPITAS, CALIFORNIA

1.0 INTRODUCTION

This report presents the results of the follow-up mold air sampling and bulk sampling, lead in carpet bulk sampling, lead wipe sampling from vinyl flooring, and visual inspection completed at the Senior Center in Milpitas, California. The purposes of the survey were to follow-up upon the initial mold sampling, and determine if there were other areas that had been impacted with mold. Rooms 110, 117 and 130 were not sampled during this phase of the work since these rooms are already scheduled for remediation and or renovation.

Additional indoor air quality (IAQ) evaluations including direct reading instruments measuring temperature, humidity and carbon dioxide levels in the building during normal air conditions and analysis for volatile organic compounds (VOCs) have also been accomplished. The results of these evaluations are included in this report.

2.0 FIELD INVESTIGATION

Ms. Irene Fanelli, CIH and Ms. Judith Hosner of Environmental Health Consultants, Inc. (EHCI) conducted the field investigation on May 29, 2002 and May 30, 2002. Mold spore samples were collected in air samples and in settled dust on carpeted floors. An additional bulk sample of the ceiling plaster in Room 120 was collected by Ms. Fanelli and Mr. Boitnott of the City of Milpitas on June 7, 2002. Lead wipe and bulk samples were collected by Ms. Fanelli and Ms. Angela Singer on June 4, 2002. Additional samples were collected in Rooms 102A and 102B on June 13, 2002, after visual inspection of these rooms revealed the extensive presence of mold on the ceiling and walls of Rooms 102A – 102D. IAQ measurements for temperature, humidity and carbon dioxide levels were collected between May 30 and June 6, 2002. Volatile organic compound samples were collected on June 4, 2002.

3.0 FINDINGS

Table 1 provides the results of the carpet mold bulk sampling. Table 2 provides the results of the mold air sampling. Table 3 provides the results of the lead wipe samples. Table 4 provides the results of the lead carpet dust bulk samples. Table 5 provides the results of the VOC samples. Graphs of the IAQ data are included behind the tables.

3.1 Mold

3.1.1 Spores in Settled Dust in Carpet

Mold spores were found at trace levels in the carpet in all but two of the carpeted rooms. The carpeted rooms include Rooms 104, 105, 106, 114, 120, 121, 122, 128 and 129. **Mold spores were found in the carpet in all of the rooms except Rooms 128 and 129.** Mold spores in these samples were identified to the Genus level and included Cladosporium, Aspergillus/Penicillium and Alternaria.

3.1.2 Airborne Spores Under Normal Room Conditions

Air samples were collected under normal room conditions with the air conditioning set on "fan only", when operable, and then with an oscillating fan set on "high", sweeping across the floor to provide a disturbed condition sample. Air samples were collected in Rooms 101, 104, 105, 106, 107, 109, 114, 116, 120, 121, 122, 123, 128 and 129. All of the rooms except 105 and 106 open directly to outdoors, to either a courtyard or exterior corridor.

The normal room condition sampling showed that all of the rooms except **Room 107** were found to have total spore concentrations well below that of the outdoor control samples. The airborne spore concentration in **Room 107** was 1600 spores per cubic meter of air (spores/m^3), as compared to 1800 and 2100 spores/m^3 for the outdoor samples.

The normal room condition sampling showed that **Room 109** had Ulocladium at a concentration of 24 spores/m^3 compared to 16 spores/m^3 in an outdoor sample. **Room 120**, had Myxomycete at a concentration of 22 spores/m^3, compared to 16 spores/m^3 in an outdoor sample. **Room 123** had Aspergillus/Penicillium at a concentration of 140 spores/m^3, compared to 32 and 110 spores/m^3 in the outdoor samples. **Room 128** had Ascospores present in a concentration of 160 spores/m^3, compared to 64 spores/m^3 in an outdoor sample. **Room 129** had Ulocladium at a concentration of 22 spores/m^3, compared to 16 spores/m^3 in an outdoor sample.

3.1.3 Airborne Spores Under Disturbed Room Conditions

The disturbed room condition sampling showed that all of the rooms except **Rooms 107 and 123** were found to have total spore concentrations well below that of the outdoor control samples. The result for **Room 107** was 1600 spores/m^3, as compared to 1800 and 2100 spores/m^3 for the outdoor samples. The result for **Room 123** was 1400 spores/m^3 as compared to 1800 and 2100 spores/m^3 for the outdoor samples. All of the mold genera identified in the samples from **Room 107** were also found in the outdoor samples.

The disturbed room condition sampling showed that **Room 107** had Alternaria at 81 spores/m^3 compared to 32 and 66 spores/m^3 in the outdoor samples; Aspergillus/Penicillium at a concentration of 120 spores/m^3 compared to 32 and 110 spores/m^3 in the outdoor samples; and Torula at a concentration of 40 spores/m^3 compared to 32 spores/m^3 in an outdoor sample. **Room 109** had Aspergillus/Penicillium at a concentration of 220 spores/m^3 compared to 32 and 110 spores/m^3 in the outdoor samples. **Room 114**, had Myxomycete at a concentration of 24 spores/m^3 compared to 16 spores/m^3 in an outdoor sample. **Room 123** had Basidiospores and at a concentration of 240 spores/m^3 compared to 16 and 180 spores/m^3 in the outdoor samples. **Room 128** had Aspergillus/Penicillium at a concentration of 400 spores/m^3 compared to 32 and 110 spores/m^3 in the outdoor samples.

3.1.4 Airborne Spore Genera Found Inside and Not Outside

In **Room 104**, Epicoccum was found at a concentration of 20 spores/m^3, when it was not found outdoors. In **Room 105**, Oidium was found at a concentration of 20 spores/m^3, when it was not found outdoors. In **Room 106**, Stachybotrys was found at a concentration of 24 spores/m^3, when it was not found outdoors. In **Room 109**, Bipolaris/Dreschlera was found at a concentration of 22 spores/m^3, Botrytis was found at a concentration of 24 spores/m^3, and Trichocladium was found at a concentration of 22 spores/m^3, when they were not found outdoors. In **Room 120**, Chaetomium was found at a concentration of 44 spores/m^3, when it was not found outdoors. In **Room 121**, Trichocladium was found at a concentration of 22 spores/m^3, when it was not found outdoors. In **Room 122**, Chaetomium was found at a concentration of 15 spores/m^3, when it was not found outdoors. In **Room 123**, Botrytis and Chaetomium were found at concentrations of 20 and 48 spores/m^3, respectively, when they were not found outdoors.

In summary, only Rooms 101 (the auditorium) and 116 were found to have neither an amplified level of spores over outdoors for any genus of mold, nor any genus of mold indoors that was not found outdoors.

3.2 Lead

All of the settled dust samples were found to contain lead. The wipe samples were all found to contain lead at less than the level of detection for the analytical method.

In Room 104, the traffic area sample revealed a higher level of lead than in the non-traffic area sample. The remaining rooms were sampled in areas that represented a combination of the two conditions. Rooms 114, 120, 122, 128 and 129 had sample results similar to both of the lead levels found in Room 104. Room 121 had a sample result substantially higher than the other rooms. This condition was probably at least partially due to the paint debris on the floor resulting from removal of a ceiling tile to obtain access to the space above the ceiling for visual investigation. The sample collection was directed away from the visible debris, but may have included some dust from the ceiling tile.

3.3 IAQ Measurements

Measurements for temperature, humidity and carbon dioxide were taken over a 24-hour period in Rooms 101, 104, 107, 109, 114, 116, 120, 121, 122, 123, 128 and 129. The measurements were taken under normal room conditions, with HVAC units running, except that the rooms were unoccupied. The results of these measurements were found to be within normal ranges for building occupancy.

3.4 Volatile Organic Compounds

VOC samples were collected in Rooms 101, 104, 105, 106, 107, 109, 114, 116, 120, 121, 122, 123, 128 and 129. With the exception of Room 106, none of the samples were found to contain compounds or concentrations of materials that are unexpected in indoor air or at levels that would be expected to cause concern. In Room 106, Dibromochloropropane (DBCP) was found at 0.8 parts per billion by volume (ppbv). DBCP is a pesticide which is no longer permitted for use in the United States. The Cal-OSHA Permissible Exposure Limit (PEL) for DBCP is 1 ppbv. EHCI requested that the Laboratory check the prior use of the canister used for this sample to determine if the DBCP might be a carry over from a previous sample. The lab reported it was not. Additional compounds were found in the sample, which were not found in the other samples or outdoors, although all at concentrations that do not provide cause for concern. Discussions with Mr. Boitnott did not reveal any information that could contribute to an explanation of the sample.

3.5 Visual Inspection

A visual inspection of the various areas of the building revealed that the plaster ceiling above the t-bar ceiling is degrading and falling apart at variable rates throughout the building. In addition, the paint on the plaster ceiling is delaminating from the substrate at differing rates throughout the building. In Rooms 123, 128 and 129, the ceiling consists of 12 X 12-inch ceiling tiles that fit together by a tongue and groove method, up against plywood sheeting. This ceiling system is also failing and has visible water staining distributed throughout.

A cursory inspection of Room 120 revealed an area of ceiling in the southwest corner where there is visible water damage. The area is currently dry with visible bubbling of the paint on the plaster. The bulk sample collected on June 7th revealed Chaetomium, Trichocladium and hyphae present on the ceiling. The mold was reported as minor. The Forensic laboratory reports non-viable bulk analysis in relative quantitative terms of trace, minor, major and abundant.

Further visual inspection conducted on June 11, 2002 revealed the apparent presence of mold on the drywall and ceiling texture of the four center closets (Rooms 102A – 102D) along the southern exterior of Room 101. Bulk samples were collected on June 13, 2002. The results showed abundant growth of Penicillium.

During inspection of the area above the drop ceiling in Room 122, a condensate line from the air conditioning system was noted to be slowly leaking water onto the top of the air supply diffuser.

4.0 SAMPLING

The settled mold spore samples were collected using 25-mm extended cowl filter cassettes attached to a vacuum pump. The samples were collected by removing the cap from the cassette and vacuuming non-traffic areas of carpet. Care was taken to prevent handling the open end of the cassette. The amount of sample collected was judged by visual evaluation of the dust loading in the cassette. At the end of the sample collection, the cap was replaced on the cassette. Each cassette was individually numbered for distinct identification. The samples were delivered under Chain-of-Custody documentation to the Forensic Analytical Laboratory in Hayward, California.

The airborne spore samples were collected on Zefon Air-O-Cell cassettes. Each cassette was placed in line with a vacuum pump calibrated to deliver a flowrate of approximately 15 liters per minute. The samples were run for approximately 10 minutes each. Care was taken to avoid contamination by touching the front of the cassette. Each sample was sealed at the completion of the sample collection. Each cassette was individually numbered for distinct identification. Two outdoor control locations were sampled for comparison to the inside samples. A blank cassette was provided to the laboratory for evaluation for possible background spore presence in the media. The samples were delivered under Chain-of-Custody documentation to the Forensic Analytical Laboratory in Hayward, California.

The Forensic Laboratory in Hayward is a successful participant in the American Industrial Hygiene Association Environmental Microbiology Proficiency Analytical Testing (EMPAT) program.

A total of four wipe samples and eight settled dust samples were collected for lead analysis as part of the field investigation. These settled dust samples were collected in containers that preserved their existing condition at the time of sampling. Samples Pb1 and Pb2 were collected in Room 104, to represent traffic and non-traffic areas, respectively. The two samples were collected in order to see if there was a substantial difference in the lead levels, such that they may be due to lead being tracked in from outside soil. The wipe samples were placed in secure containers for transport to the laboratory. The samples were delivered under Chain-of-Custody documentation to the Forensic Analytical Laboratory in Hayward, California.

The Forensic Laboratory in Hayward is accredited by the American Industrial Hygiene Association and the State of California, for lead analysis.

The VOC samples were collected using Passivated Steel SUMMA Canisters fitted with flow controllers adjusted to collect the sample over a period of approximately 8 hours. In addition to the indoor samples, one sample was collected outdoors to serve as a control for comparison to indoors. The samples were delivered under Chain-of-Custody documentation to the Environmental Analytical Service Laboratory in San Luis Obispo, California.

The IAQ measurements were collected using a Solomat Indoor Air Quality Monitor.

5.0 LABORATORY ANALYSIS

The carpet settled dust samples were evaluated for spores and identified to the Genus Level. The air samples were evaluated for identification of spores at the Genus level and quantified in units of spores/m^3 of air.

The lead bulk samples were analyzed in accordance with USEPA Method 3050B/7420. The wipe samples were analyzed in accordance with HUD Apd. 14.2.

The VOC samples were analyzed in accordance with USEPA Method TO-15 and TO-15 Tentatively Identified Compounds (TIC).

All of the laboratory reports for samples collected during this work are included in Appendix A.

6.0 DISCUSSION

There are currently no regulatory limits for microbiological agents in buildings. Typically, concern is raised when there are amplified levels of mold present indoors over that outdoors. In addition, concern is raised when there are molds present indoors that are not present outdoors, or where the relative ranking of various genera of mold are different between indoors and outdoors.

The conditions at the Senior Center show there are slightly amplified levels of individual molds inside over outside. In addition, although they are present in low quantities, there are different molds present inside that were not found outside.

7.0 RECOMMENDATIONS

The recommendations listed below are in addition to those provided in our initial report dated 5/18/02.

- Remove, dispose and replace the carpeting throughout the building. This work must be completed in compliance with the Cal-OSHA Lead-In-Construction Standard (8 CCR 1532.1). Prior to disposal, additional analysis will be necessary to determine if the carpet is hazardous waste under Californian and/or federal hazardous waste disposal criteria, based upon the presence of lead. After removal of the carpet, each floor must be inspected for the presence of moisture or prior water damage. Any mold or moisture-impacted flooring should be removed and replaced.

- Remove and dispose of the plaster ceilings that are damaged throughout the building. This work must be completed in compliance with the Cal-OSHA Lead-In-Construction Standard (8 CCR 1532.1). Loose peeling paint should be segregated for disposal as hazardous waste. Once demolition of the ceiling and removal of carpeting is complete, the rooms must be inspected for the presence of water damage and/or mold, and then decontaminated by HEPA vacuuming all surfaces followed by wet-wiping all room surfaces for removal of lead dust and mold. This work will be done by a lead/mold abatement contractor. The

rooms will be maintained under negative pressure during this work in order to prevent the possible spread of mold spores.

- Remove and dispose of the 12 X 12-inch ceiling tiles in Rooms 123, 128 and 129. Once demolition of the ceiling tiles is complete, the rooms must be inspected for the presence of water damage and/or mold, and then decontaminated by HEPA vacuuming all surfaces followed by wet-wiping all room surfaces for removal of lead dust and mold. This work must be done by a lead/mold abatement contractor. The rooms will be maintained under negative pressure during this work in order to prevent the possible spread of mold spores.

- Remove and dispose of the sheetrock walls and ceilings in Room 102A – 102D. This work must be done by a lead/mold abatement contractor. The area must be maintained under a negative pressure enclosure throughout the work.

- The fabric furnishings and papers remaining outside of closed file cabinets in Rooms 107, 120 and 123 should be removed and discarded. Porous items stored out in the open in Rooms 107, 120 and 123, and in rooms 102A – 102D should be removed and discarded.

- The building should remain unoccupied throughout the duration of the remedial and re-construction work activities so as to protect the public and building employees from safety and health hazards associated with the work.

- Additional detailed inspection of the building will be completed by Ms. Fanelli and Mr. Boitnott, as construction activities progress, in an effort to identify any additional areas where water damage and/or the presence of mold may be detected. Appropriate remedial measures will be determined at that time.

- Further evaluation of the ventilation systems will be made to determine if abatement efforts are needed.

- If the building is re-modeled and re-occupied, a confirmatory VOC sample should be collected in Room 106 to confirm or refute the results already obtained. If DBCP is present at levels similar to that already found, further investigation should be made to locate and remove the source of the material.

8.0 LIMITATIONS

This report has been prepared to aid the City of Milpitas in identifying and addressing mold and lead-containing materials during proposed construction activities at the Senior Center in Milpitas, California. The conclusions and recommendations describe only the conditions present at the time of our testing, in areas that were observed. Other conditions may exist in inaccessible areas. Further, the condition of materials may change gradually or suddenly, depending upon use, maintenance, or accidents. If there are changes in the levels of activity in material conditions, we

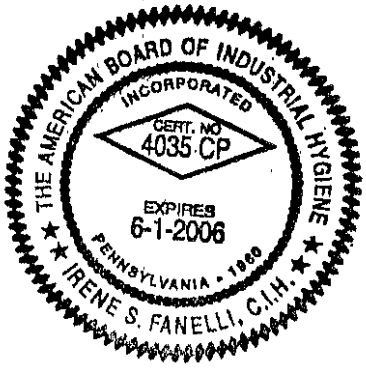
should be notified so that we can observe the conditions and if appropriate, provide additional recommendations.

We appreciate the opportunity to assist you with this project and look forward to working with you in the future. If we can answer any questions, or be of further assistance, please contact us at (650) 347-9205.

Sincerely,
ENVIRONMENTAL HEALTH CONSULTANTS, INC.

Irene S. Fanelli

Irene S. Fanelli, CIH
President
Certified Asbestos Consultant # 97-2132



TABLES

Table 1
Non-Viable Bulk Sample Results
City of Milpitas - Senior Center
May 29, 2002

SAMPLE NUMBER	SAMPLE LOCATION	Alternaria	Aspergillus/ Penicillium	Cladosporium	Hyphae
CM 0529-C1	Room 104	--	--	Trace	Trace
CM 0529-C2	Room 105	--	--	Trace	Trace
CM 0529-C3	Room 106	--	--	Trace	Trace
CM 0529-C4	Room 114	--	--	Trace	Trace
CM 0529-C5	Room 120	--	Trace	Trace	Trace
CM 0529-C6	Room 121	--	--	Trace	Trace
CM 0529-C7	Room 122	Trace	--	--	Trace
CM 0529-C8	Room 128	--	--	--	--
CM 0529-C9	Room 129	--	--	--	--

Notes

Non-Viable Fungal Structures are quantified as follows, from lowest to highest:

Trace, Minor, Major, Abundant

These values are qualitative, and are meant to show relative quantities only.

Table 2
Non-Viable Air Sample Results
City of Milpitas - Senior Center
May 30, 2002

SAMPLE NUMBER	SAMPLE LOCATION	Alternaria	Ascospores	Basidiospores	Bipolaris/ Dreschlera	Botrytis	Chaetomium	Cladosporium	Epicoccum	Myxomycete	Oidium	Penicillium/ Aspergillus	Stachybotrys	Stemphyllium	Torula	Trichocladium	Ulocladium	Total spores/m^3
CM0530-A1	Room 101	–	22	22	–	–	–	110	–	–	–	–	–	–	–	–	–	150
CM0530-B1		–	–	–	–	–	–	24	–	–	–	–	–	–	–	–	–	24
CM0530-A2	Room 104	–	20	–	–	–	–	100	20	–	–	–	–	–	–	–	–	140
CM0530-B2		40	20	–	–	–	–	60	–	–	–	40	–	–	–	–	–	180
CM0530-A3	Room 105	–	–	40	–	–	–	100	–	–	20	–	–	–	–	–	–	160
CM0530-B3		–	–	24	–	–	–	73	–	–	–	–	–	–	–	–	–	120
CM0530-A4	Room 106	24	–	–	–	–	–	73	–	–	–	24	–	–	–	–	–	120
CM0530-B4		24	–	–	–	–	–	97	–	–	–	–	24	–	–	–	–	170
CM0530-A5	Room 107	48	24	97	–	–	–	1500	–	–	–	–	–	–	–	–	–	1600
CM0530-B5		81	60	100	–	–	–	1100	–	–	–	120	–	–	40	–	–	1600
CM0530-A6	Room 109	–	–	48	–	24	–	310	–	–	–	–	–	–	–	–	24	410
CM0530-B6		44	44	110	22	–	–	220	–	–	–	220	–	–	–	22	–	790
CM0530-A7	Room 114	–	–	24	–	–	–	580	–	–	–	48	–	–	–	–	–	650
CM0530-B7		–	48	48	–	–	–	48	–	24	–	–	–	–	–	–	–	190
CM0530-A8	Room 116	–	–	24	–	–	–	48	–	–	–	–	–	–	–	–	–	73
CM0530-B8		–	–	–	–	–	–	48	–	–	–	24	–	–	–	–	–	73
CM0530-A9	Room 120	–	–	22	–	–	–	150	–	22	–	44	–	–	–	–	–	240
CM0530-B9		–	22	66	–	–	44	220	–	–	–	44	–	–	–	–	–	420
CM0530-A10	Room 121	–	–	–	–	–	–	110	–	–	–	–	–	–	–	22	–	130
CM0530-B10		–	–	30	–	–	–	240	–	–	–	–	–	–	–	–	–	300
CM0530-A11	Room 122	22	–	22	–	–	–	110	–	–	–	–	–	–	–	–	–	150
CM0530-B11		15	–	15	–	–	15	290	–	–	–	–	–	–	–	–	–	360
CM0530-A12	Room 123	–	–	40	–	20	–	300	–	–	–	140	–	–	–	–	–	500
CM0530-B12		24	48	240	–	–	48	940	–	–	–	–	–	–	24	–	–	1400
CM0530-A13	Room 128	–	160	40	–	–	–	420	–	–	–	20	–	–	–	–	–	640
CM0530-B13		22	–	–	–	–	–	–	–	–	–	400	–	–	–	–	–	420
CM0530-A14	Room 129	–	–	–	–	–	–	290	–	–	–	88	–	–	–	–	22	420
CM0530-B14		–	–	–	–	–	–	24	–	–	–	–	–	–	–	–	–	120
CM0530-A15	Parking Lot	32	64	16	–	–	–	1800	–	16	–	32	–	16	32	–	16	2100
CM0530-A16	Courtyard	66	–	180	–	–	–	1400	–	–	–	110	–	–	–	–	–	1800

Notes
A - undistrubed samples taken while HVAC fan was on
B - disturbed samples taken while floor fan was on in addition to HVAC fan
All results reported in units of spores/m^3 (per cubic meter)

Table 3
Wipe Sample Results
City of Milpitas - Senior Center
June 4, 2002

Date	Sample Number	Lead (ug/ft^2)[1]	Sample Location
06/04/02	CM0604-W1	< 20	Room 107
06/04/02	CM0604-W2	< 20	Room 116
06/04/02	CM0604-W3	< 20	Room 123
06/04/02	CM0604-W4	< 20	Blank

Notes

1. ug/ft^2 = micrograms per square foot

Table 4
Carpet Dust Bulk Sample Results
City of Milpitas - Senior Center
June 4, 2002

Date	Sample Number	Lead (mg/kg)[1]	Sample Location
06/04/02	CM0604-PB1	250	Room 104 - Traffic
06/04/02	CM0604-PB2	170	Room 104 - Non-Traffic
06/04/02	CM0604-PB3	170	Room 114
06/04/02	CM0604-PB4	150	Room 120
06/04/02	CM0604-PB5	980	Room 121
06/04/02	CM0604-PB6	240	Room 122
06/04/02	CM0604-PB7	250	Room 128
06/04/02	CM0604-PB8	150	Room 129

Notes

1. mg/kg = milligrams per kilogram

TABLE 5
CITY OF MILPITAS - SENIOR CENTER
DETECTED VOLATILE ORGANIC COMPOUNDS - PPBv[1]
JUNE 4, 2002

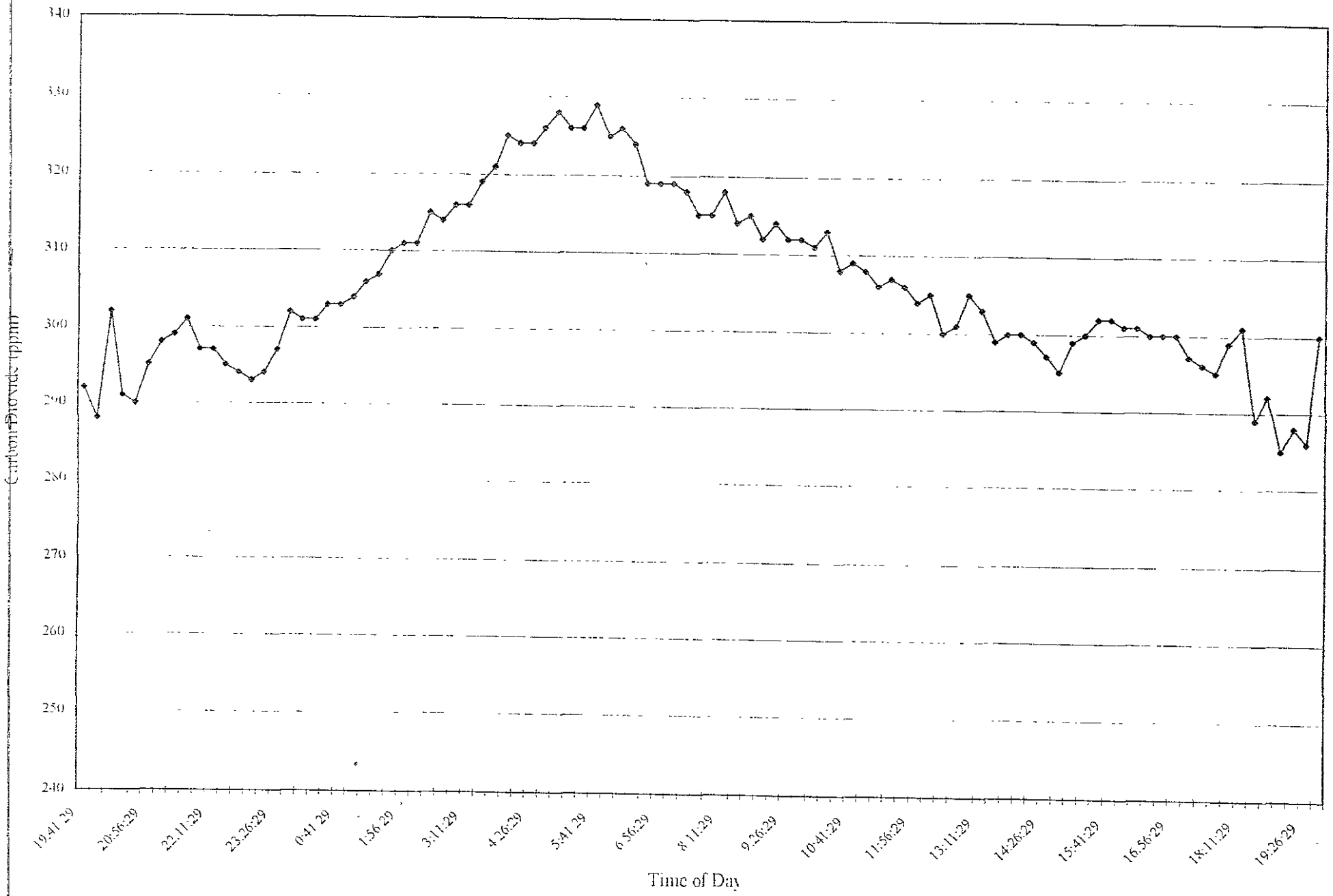
Chemical Compound	Room 101	Room 104	Room 105	Room 106	Room 107	Room 109	Room 114	Room 116	Room 120	Room 121	Room 122	Room 123	Room 128	Room 129	Outdoors
1,1,1,2-Tetrachloroethane				0.1											
1,1,1-Trichloroethane		0.1					0.2								
1,1,2,2-Tetrachloroethane				0.1											
1,1,2-Trichloroethane										0.1				0.5	
1,2,3-Trichloropropane				0.1											
1,2-Dibromo-3-chloropropane				0.8											
1,2-Dichlorobenzene				0.2								0.1			
1,2-Dichloroethane		0.1													
1,3,5-Trimethylbenzene	0.1	0.1	0.2	0.2			0.2							0.2	
1,3-Dichlorobenzene				0.2								0.1			
1,4-Dichlorobenzene				0.3								0.2			
2,2-Dichlorpropane			0.1												
2-Butanone	0.8	0.7	0.8						0.6						2
2-Hexanone				2.3								1.1			
Acetone	7.7	16.3	15.3	17.4	1.9	5	81.7		7.6	10.1	12.2	8.4	5	10.7	9
Acetonitrile			13.1	8.1											
Benzene	0.4	0.5	0.8	0.2		0.6	0.5		0.3	0.3	0.3	0.3	0.2	0.4	0.4
Benzyl chloride	0.1	0.1	0.2	0.8											
Bromoform				0.1											
Carbon disulfide			1.3	0.8								1.5			
Carbon tetrachloride	0.1	0.1	0.1	0.1											
Chloroform	0.1	0.1	0.1	0.1											
Chloromethane	1.6	0.9	0.9	1.4	0.6	0.5	0.8		0.5	0.7	0.5	0.8	0.5	0.8	0.7
Dichlorodifluoromethane	0.9	1.9	1.4	2.3	1.3	1.3	1		0.6	0.8	0.6	0.7	0.6	0.9	0.8
Freon 113	0.2	0.2	0.1	0.2			0.2					0.1		0.2	0.2
Freon 114				0.1											
Methyl methacrylate			1.5	0.1											
Methyl tert butyl ether	1.6	2.6	1.5	2.0		0.8	1.7		0.9	1.1	0.7	1	0.9	1.2	0.6
Methylene chloride	0.6	0.3	0.9	0.5	0.1		0.3		0.3	1.9	0.3	0.6	0.2	0.2	0.9
Methylstyrene				0.1											
Naphthalene				1.4											
n-Heptane	0.5	0.5	1.5	0.4											
Octane				0.1											
Styrene	0.2	0.1	0.2	0.2		0.2	0.2							0.3	
Tetrachloroethene	0.1	0.1	0.1	0.1	0.2	0.7	0.1		0.2			0.1			
Toluene	3.3	1.5	5.5	1.9	0.2	4.3	4.1	32.1	1	1.9	1.2	1.4	1.3	6.7	0.7
Trichlorofluoromethane	0.4	8.3	6.9	10.9	0.7	7.3	0.7		0.3	0.4	0.4	0.4	0.3	0.5	0.4
Vinyl acetate			0.4												
Xylenes	1.1	1	2.9	1.3	0.1	2.1	3.5	18.5	0.5	0.7	1.3	1	0.4	3.8	0.4

1. PPBv - parts per billion by volume

Chemical Compound	Room 101	2	Room 123	Room 128	Room 129	Outdoors
1,1,1,2-Tetrachloroethane						
1,1,1-Trichloroethane						
1,1,2,2-Tetrachloroethane						
1,1,2-Trichloroethane					0.5	
1,2,3-Trichloropropane						
1,2-Dibromo-3-chloropropane						
1,2-Dichlorobenzene			0.1			
1,2-Dichloroethane						
1,3,5-Trimethylbenzene	0.1				0.2	
1,3-Dichlorobenzene			0.1			
1,4-Dichlorobenzene			0.2			
2,2-Dichlorpropane						
2-Butanone	0.8					2
2-Hexanone			1.1			
Acetone	7.7		8.4	5	10.7	9
Acetonitrile						
Benzene	0.4		0.3	0.2	0.4	0.4
Benzyl chloride	0.1					
Bromoform						
Carbon disulfide			1.5			
Carbon tetrachloride	0.1					
Chloroform	0.1					
Chloromethane	1.6		0.8	0.5	0.8	0.7
Dichlorodifluoromethane	0.9		0.7	0.6	0.9	0.8
Freon 113	0.2		0.1		0.2	0.2
Freon 114						
Methyl methacrylate						
Methyl tert butyl ether	1.6		1	0.9	1.2	0.6
Methylene chloride	0.6		0.6	0.2	0.2	0.9
Methylstyrene						
Naphthalene						
n-Heptane	0.5					
Octane						
Styrene	0.2				0.3	
Tetrachloroethene	0.1		0.1			
Toluene	3.3		1.4	1.3	6.7	0.7
Trichlorofluoromethane	0.4		0.4	0.3	0.5	0.4
Vinyl acetate						
Xylenes	1.1		1	0.4	3.8	0.4

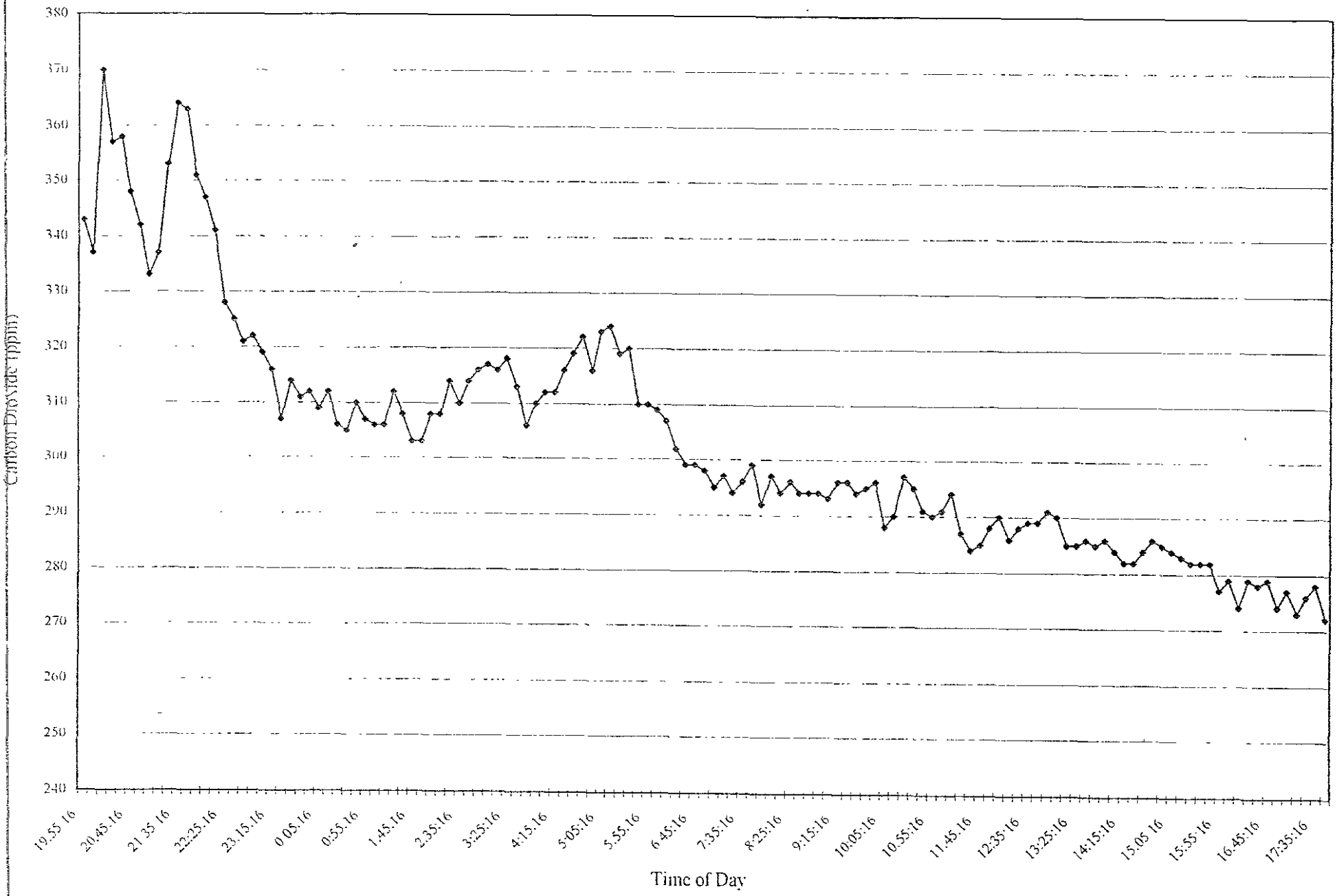
1. PPBv - parts per billion by volume

Senior Center - Milpitas, California
Room 101 bon Dioxide
May 30 - 31 , 2002



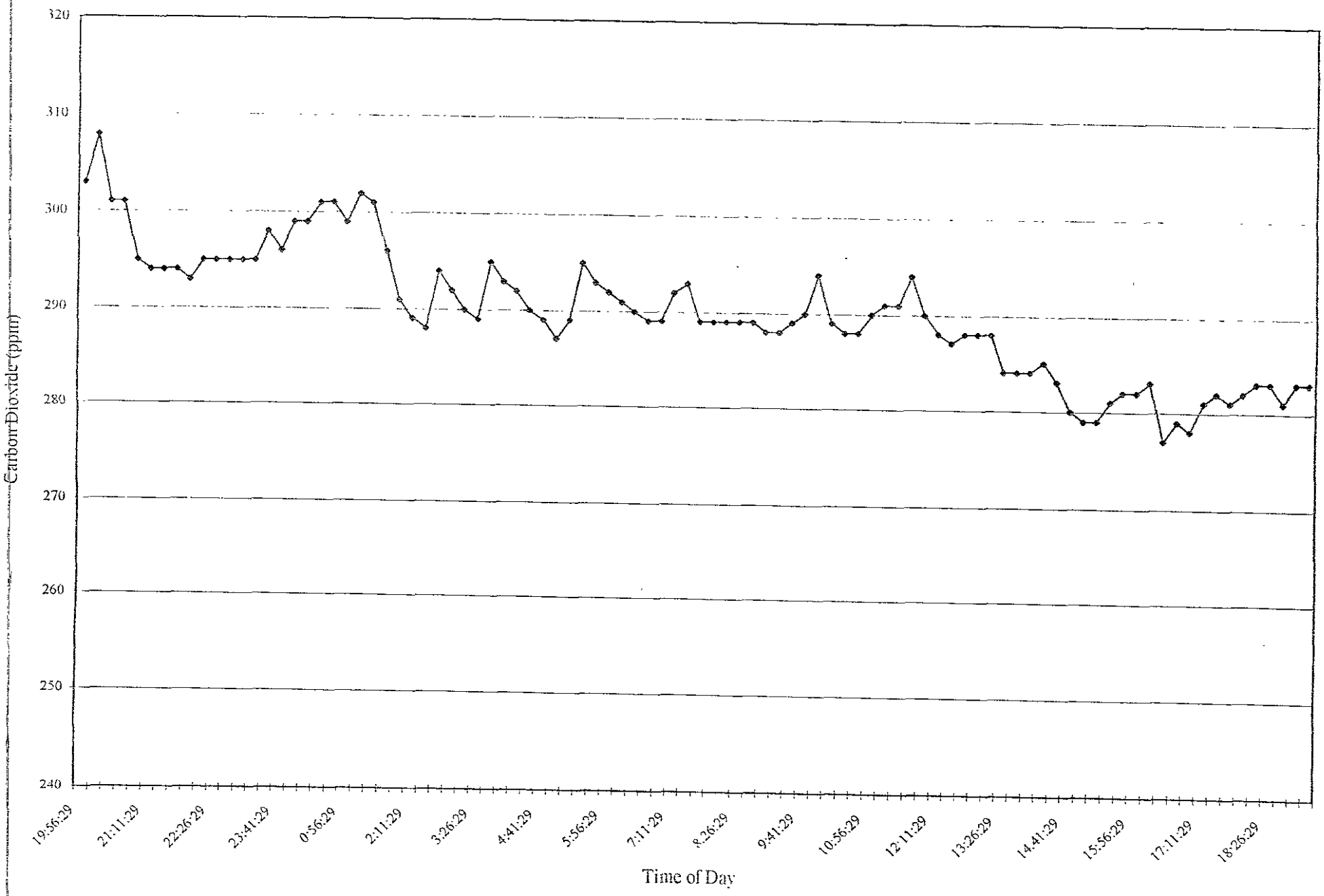
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 104 Carbon Dioxide
May 30 - 31 , 2002



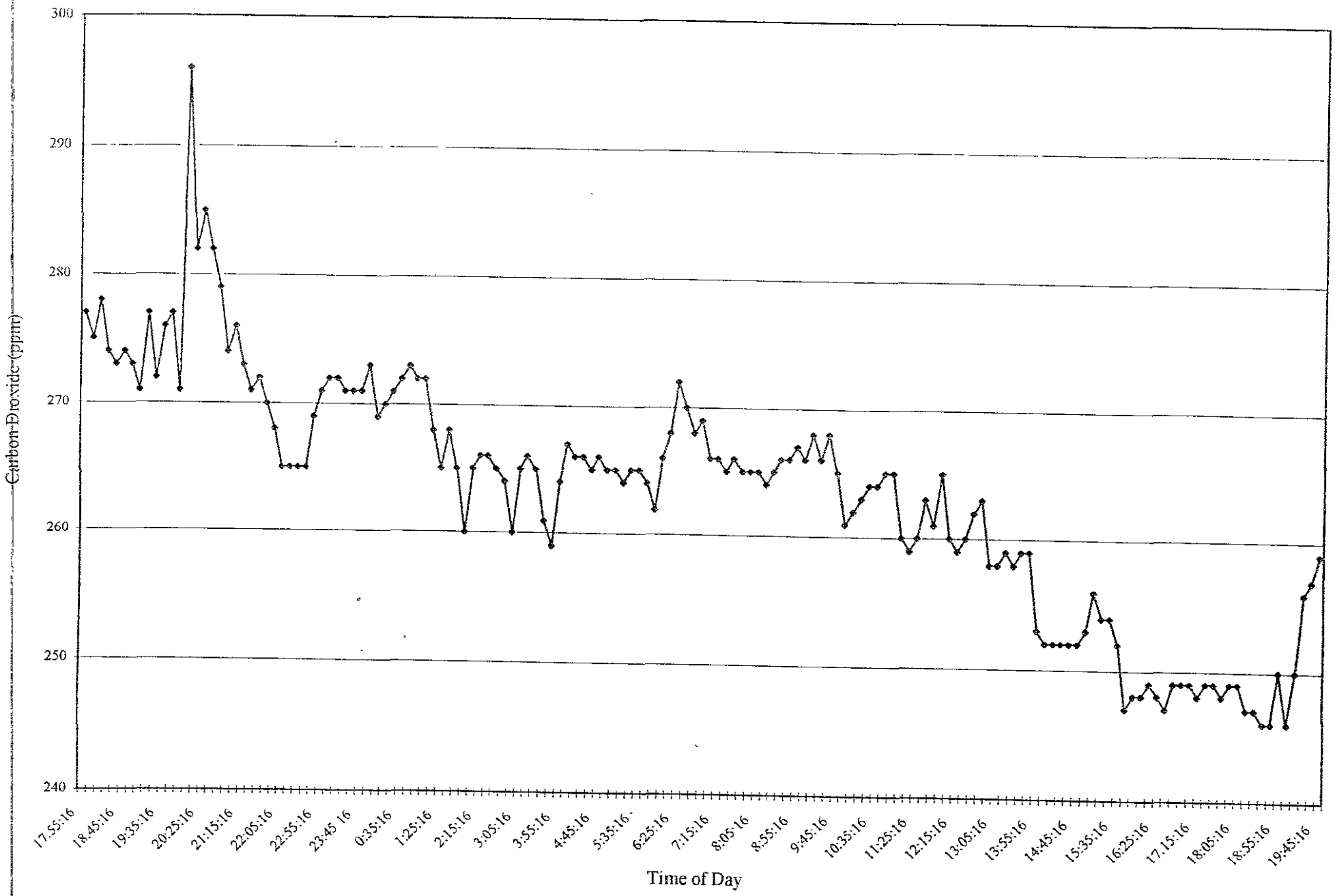
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 107 bon Dioxide
May 31 - June 1 , 2002



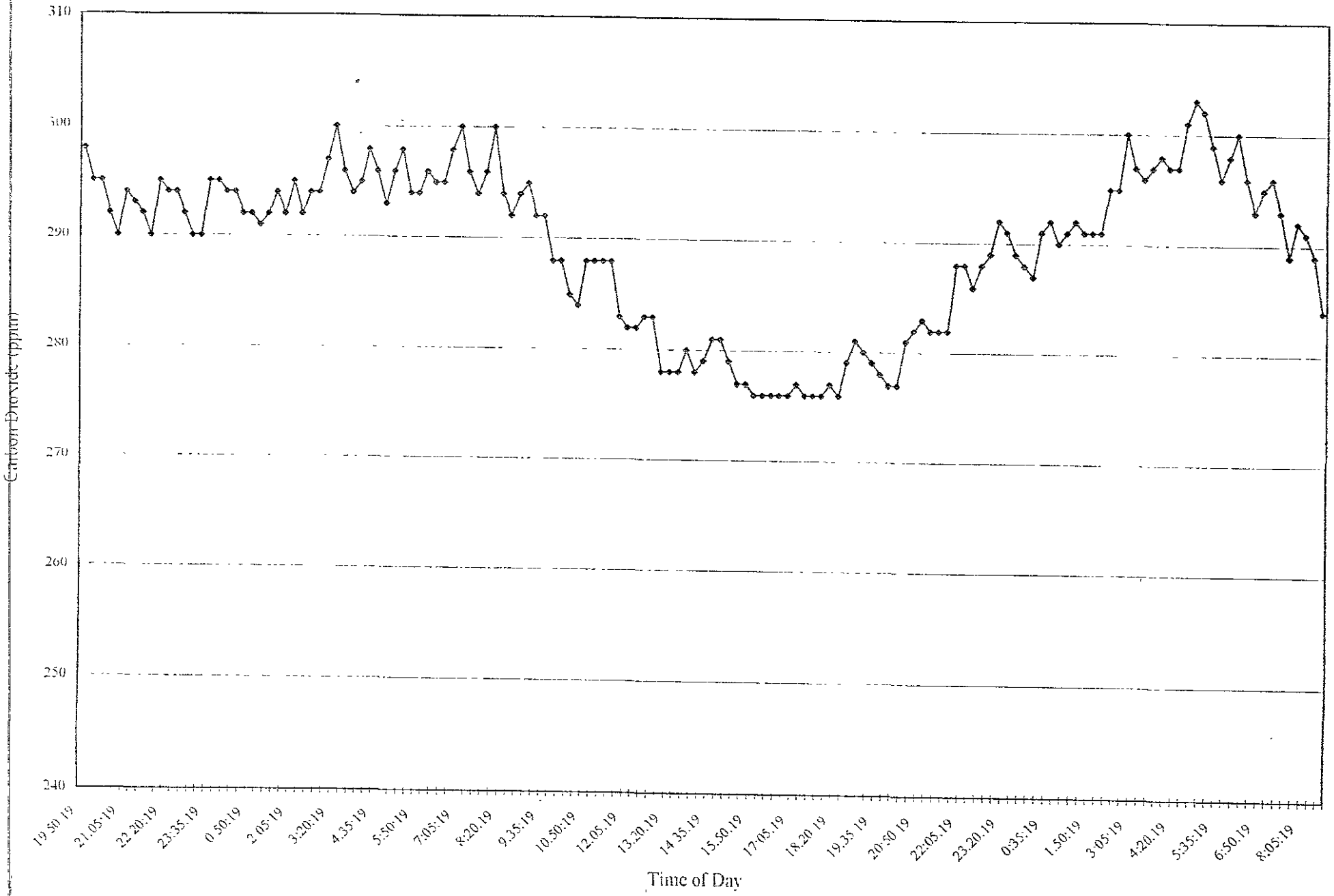
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 109 Carbon Dioxide
May 31 - June 1 , 2002



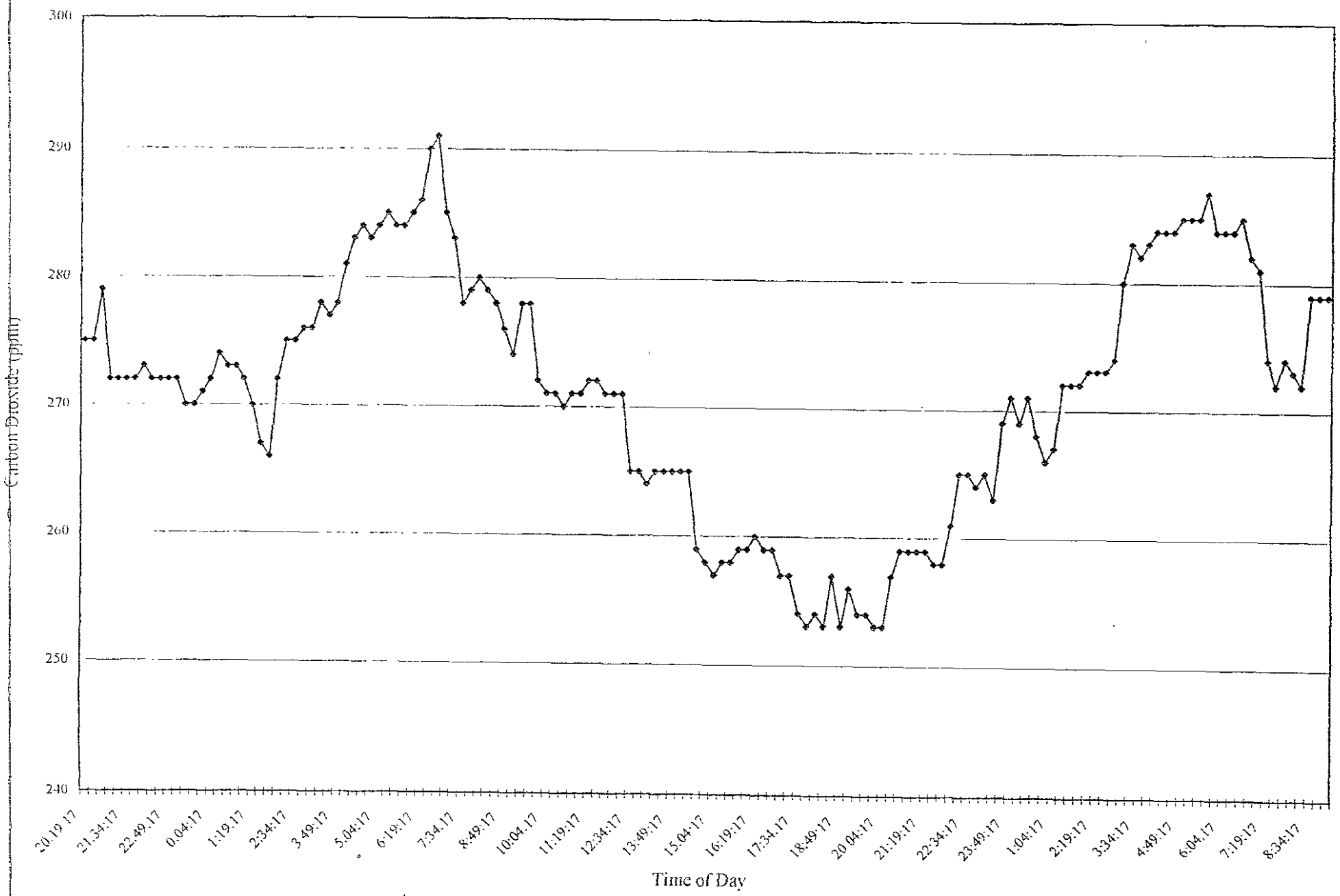
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 114 ·bon Dioxide
June 1 - 3, 2002



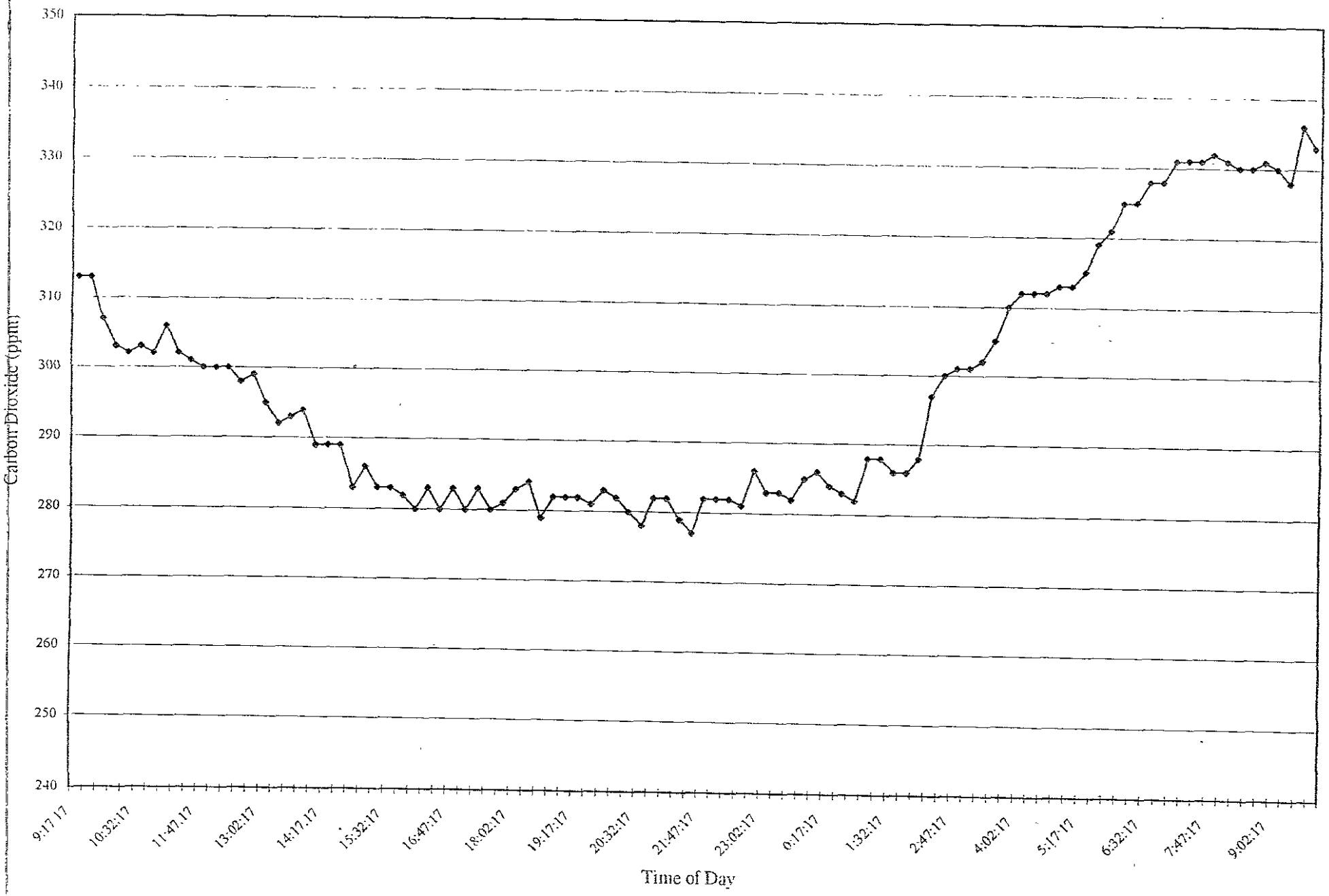
Carbon Dioxide Readings

Senior Center Milpitas, California
Room 116 - Carbon Dioxide
June 1 - 3, 2002



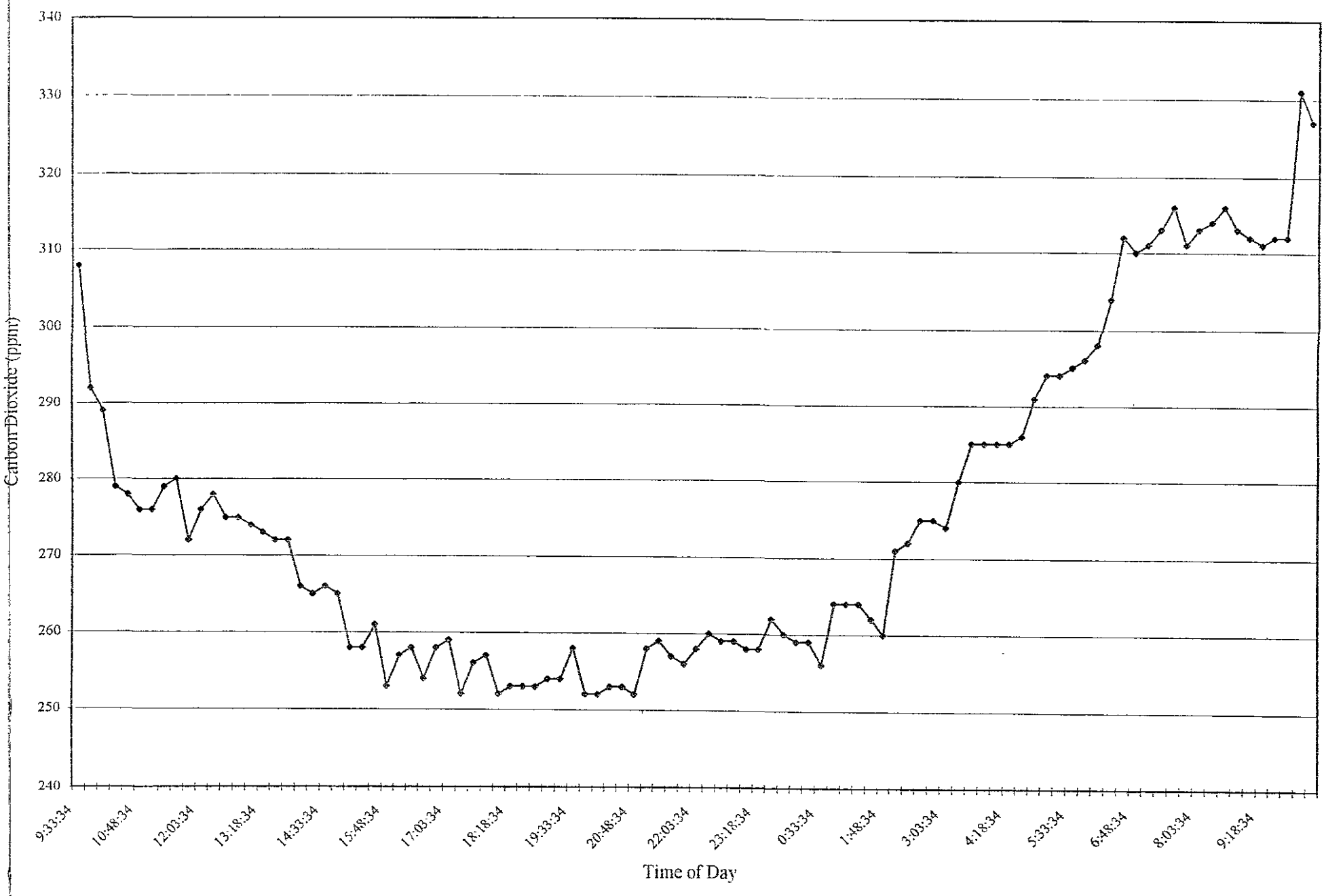
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 120 ·bon Dioxide
June 3 - 4, 2002



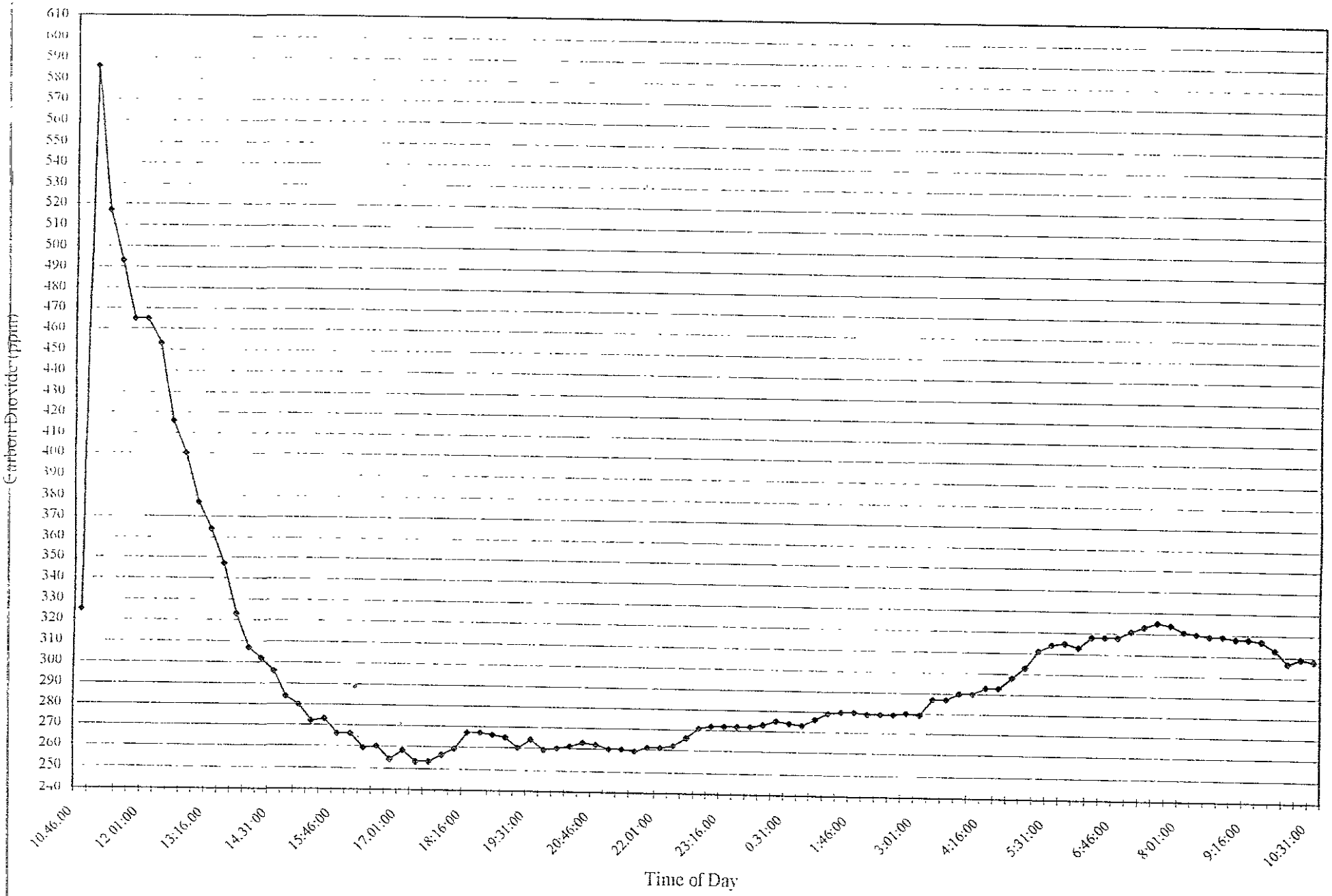
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 121 Carbon Dioxide
June 3 - 4, 2002

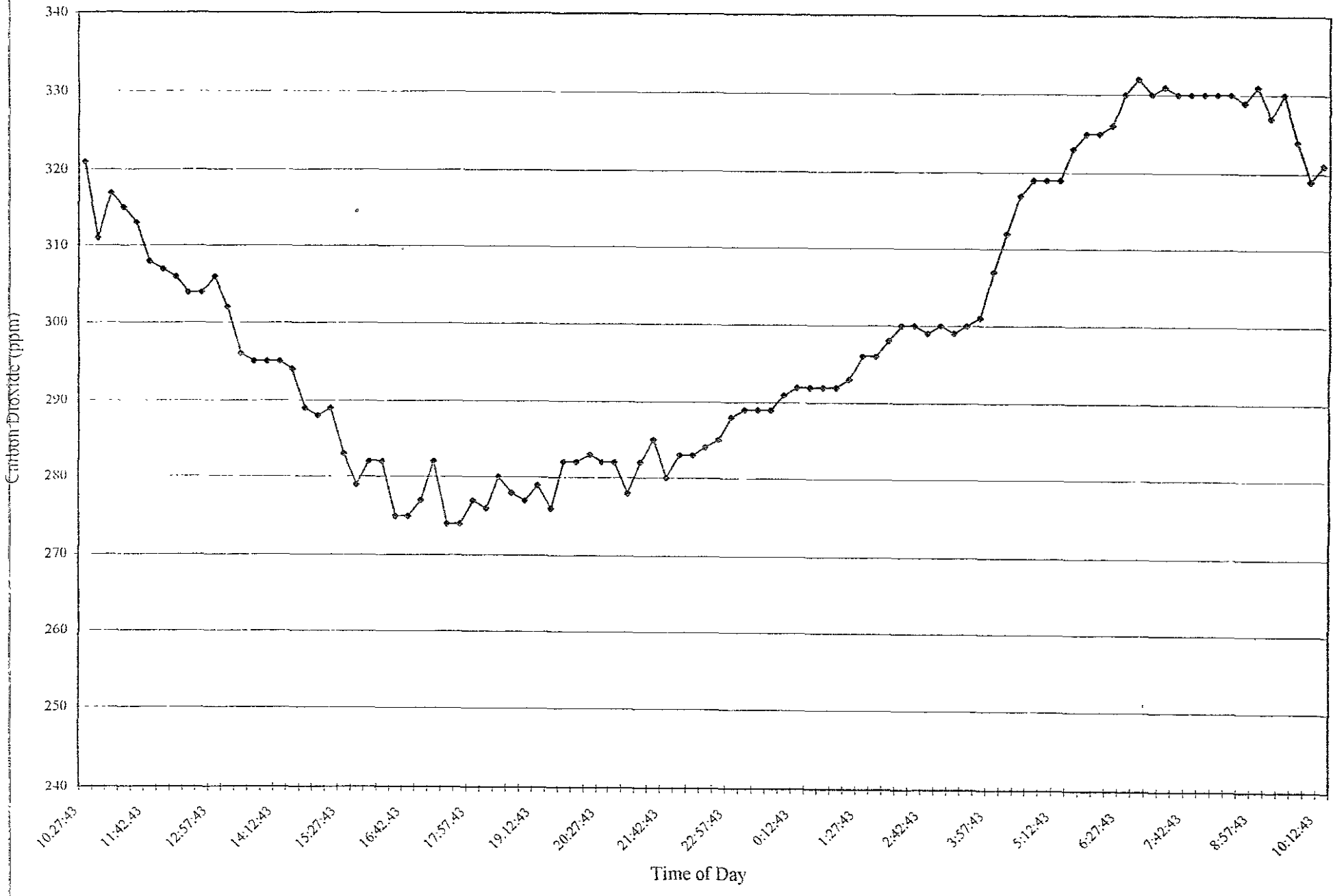


Carbon Dioxide Readings

Senior Center Milpitas, California
Room 122 - Carbon Dioxide
June 4 - 5, 2002

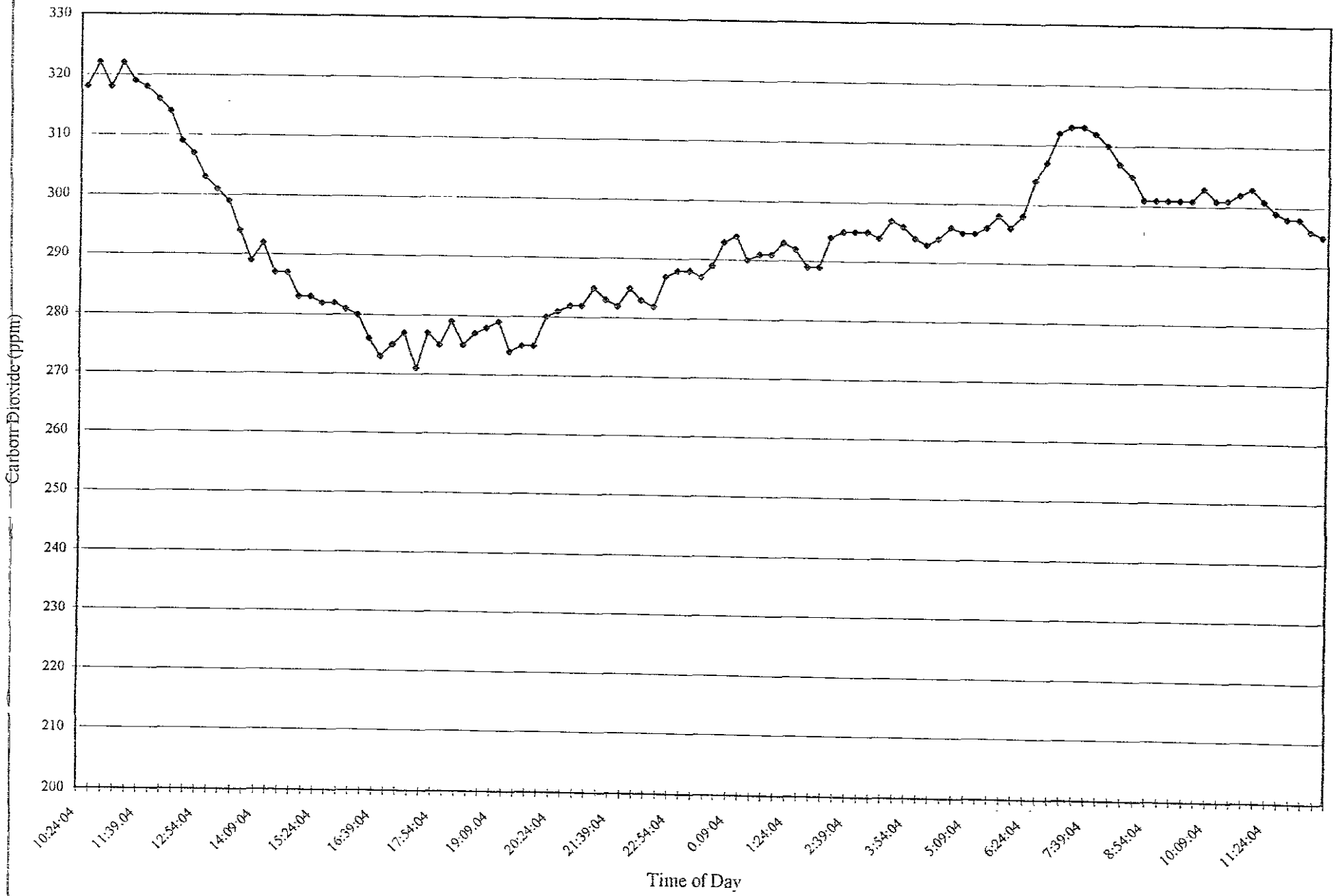


Senior Center - Milpitas, California
Room 123 Carbon Dioxide
June 4 - 5, 2002



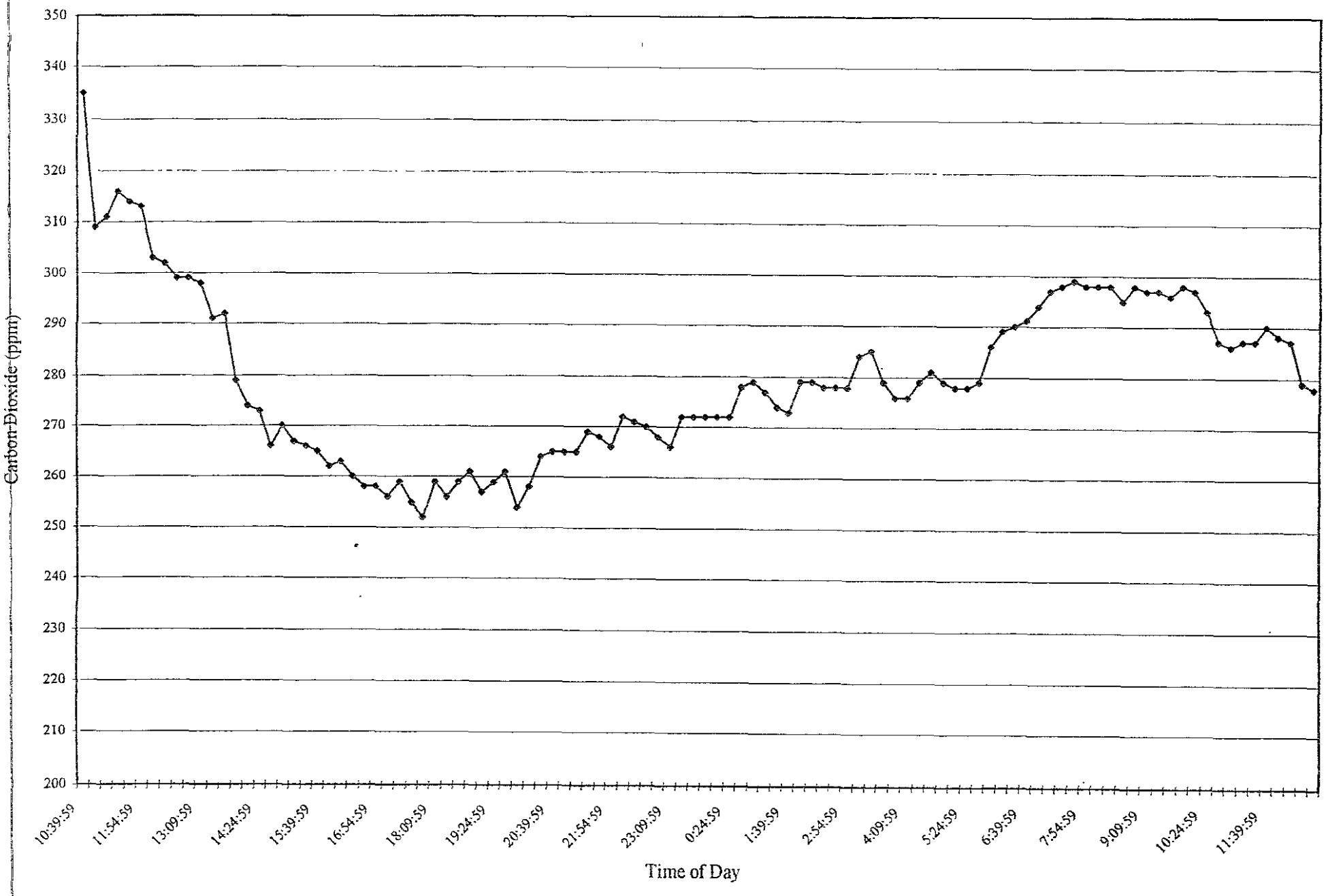
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 128 Carbon Dioxide
June 5 - 6, 2002



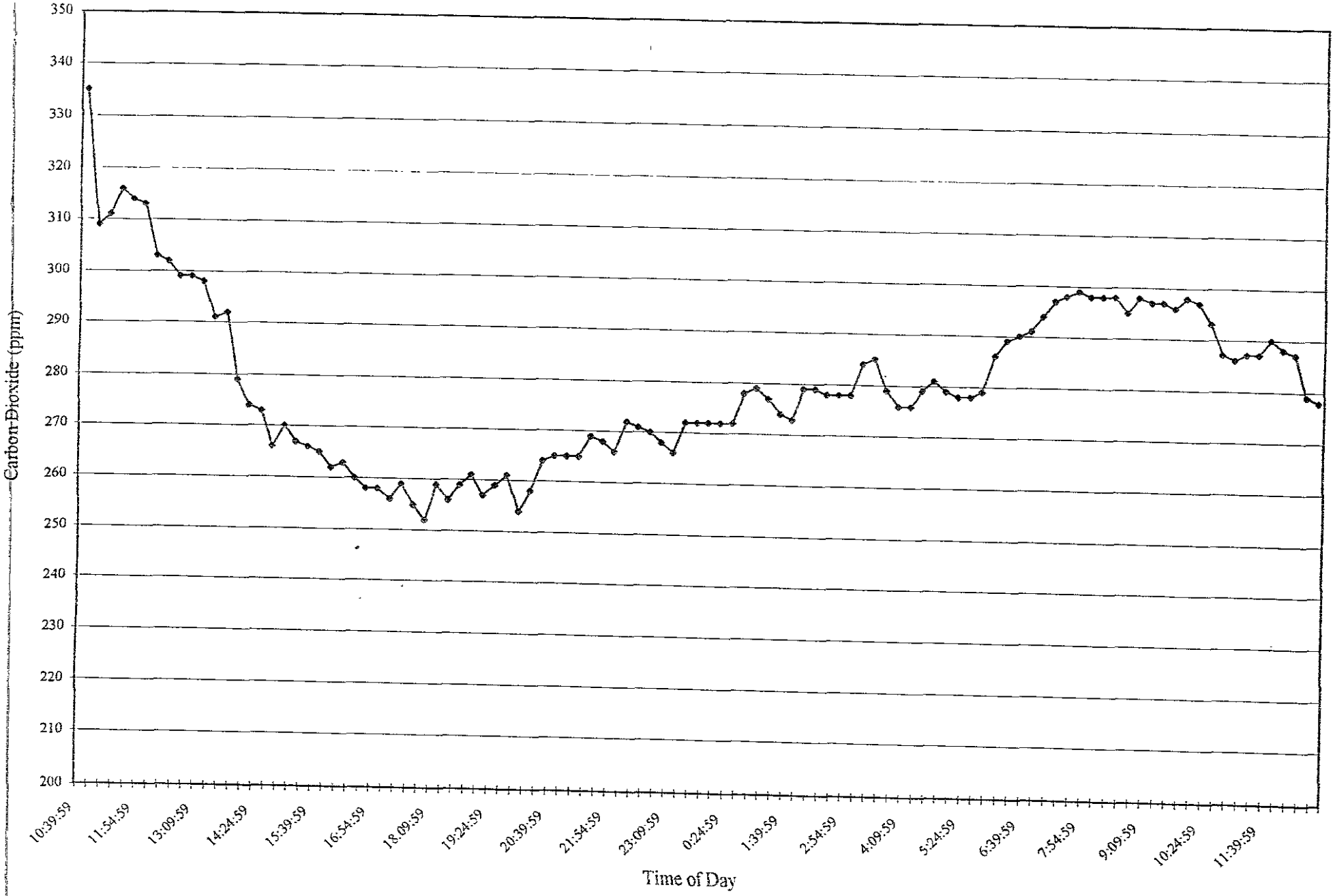
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 129 Carbon Dioxide
June 5 - 6, 2002



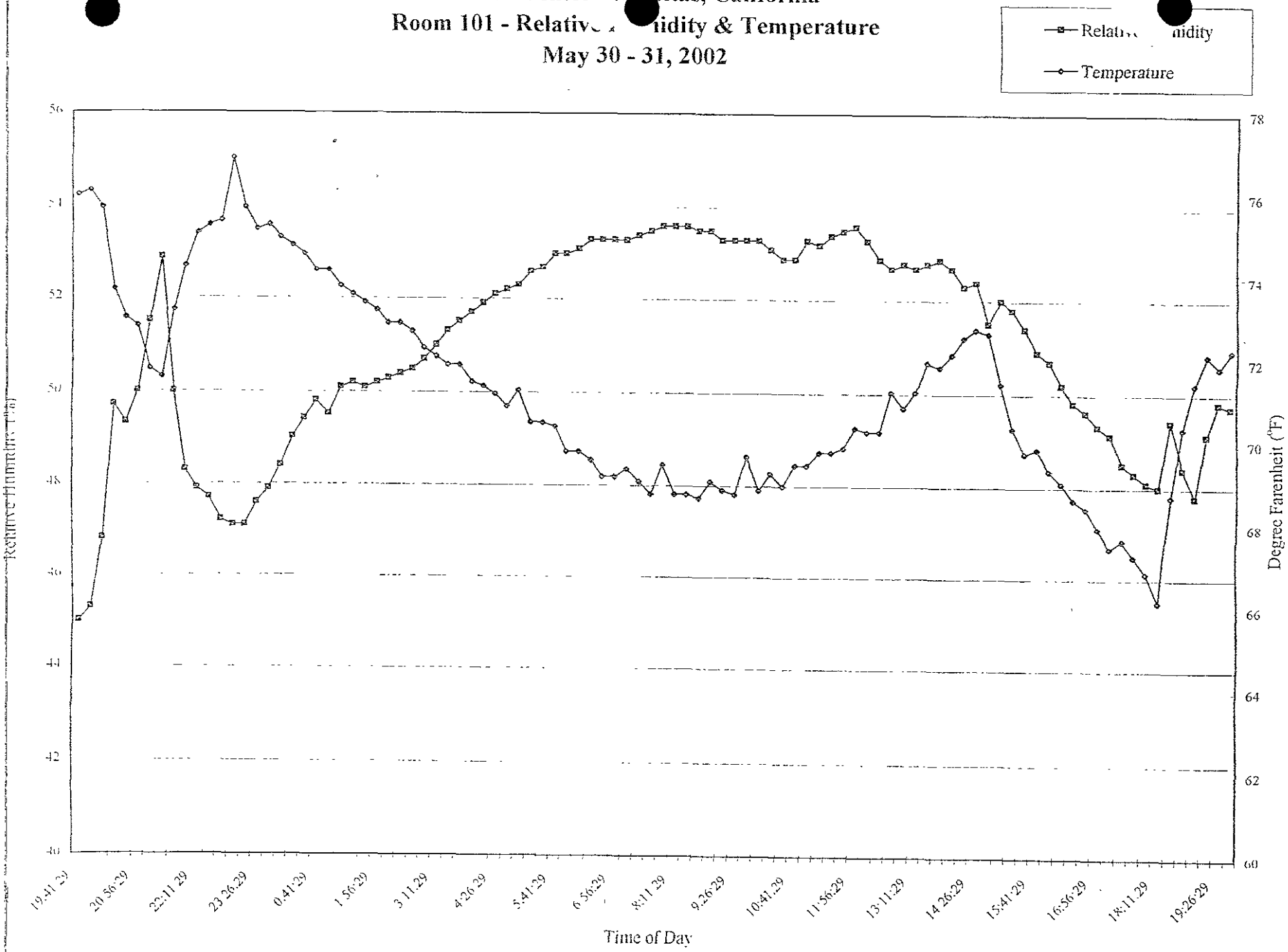
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 125 Carbon Dioxide
June 5 - 6, 2002



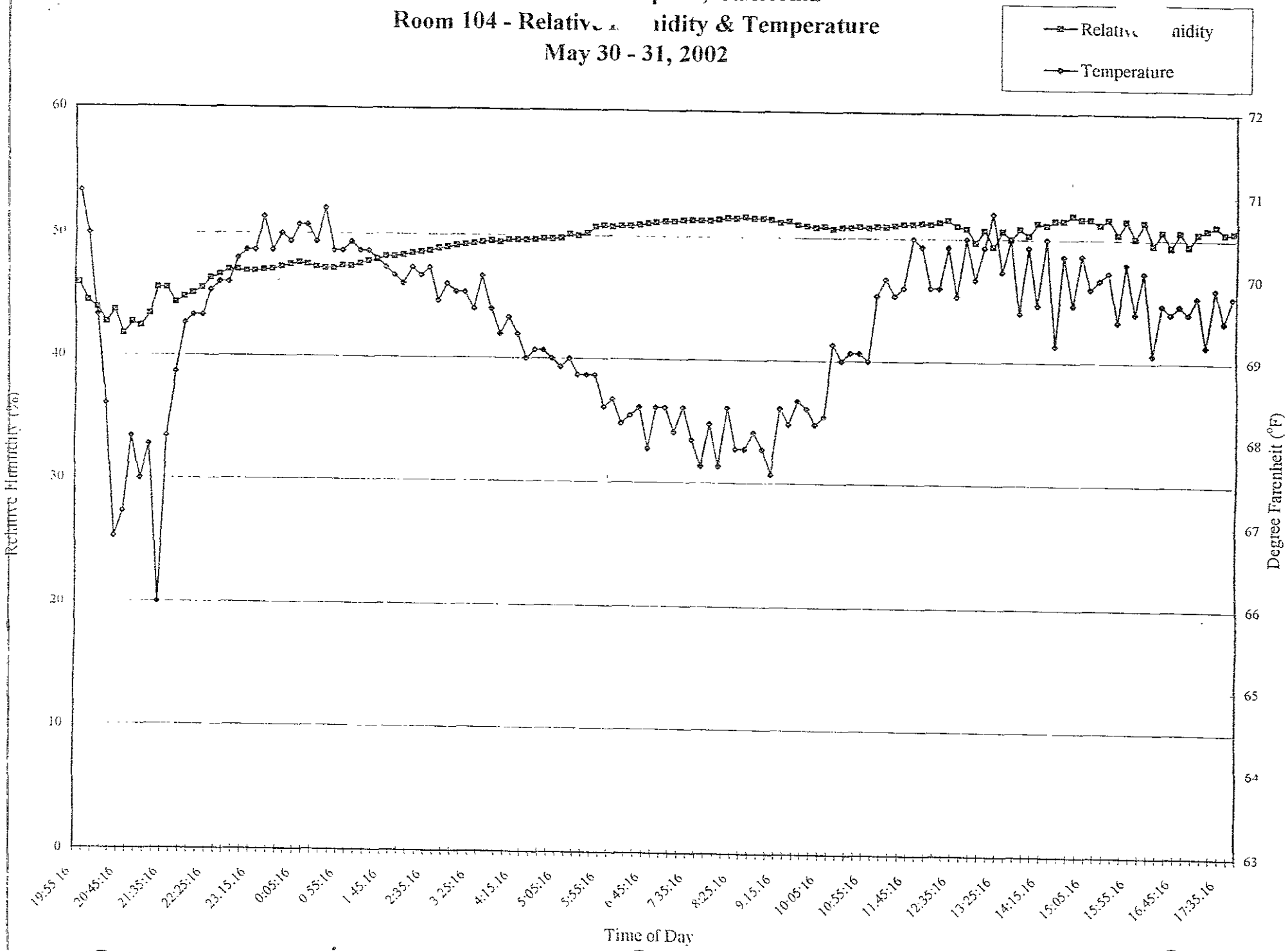
Carbon Dioxide Readings

Senior Center - Milpitas, California
Room 101 - Relative Humidity & Temperature
May 30 - 31, 2002



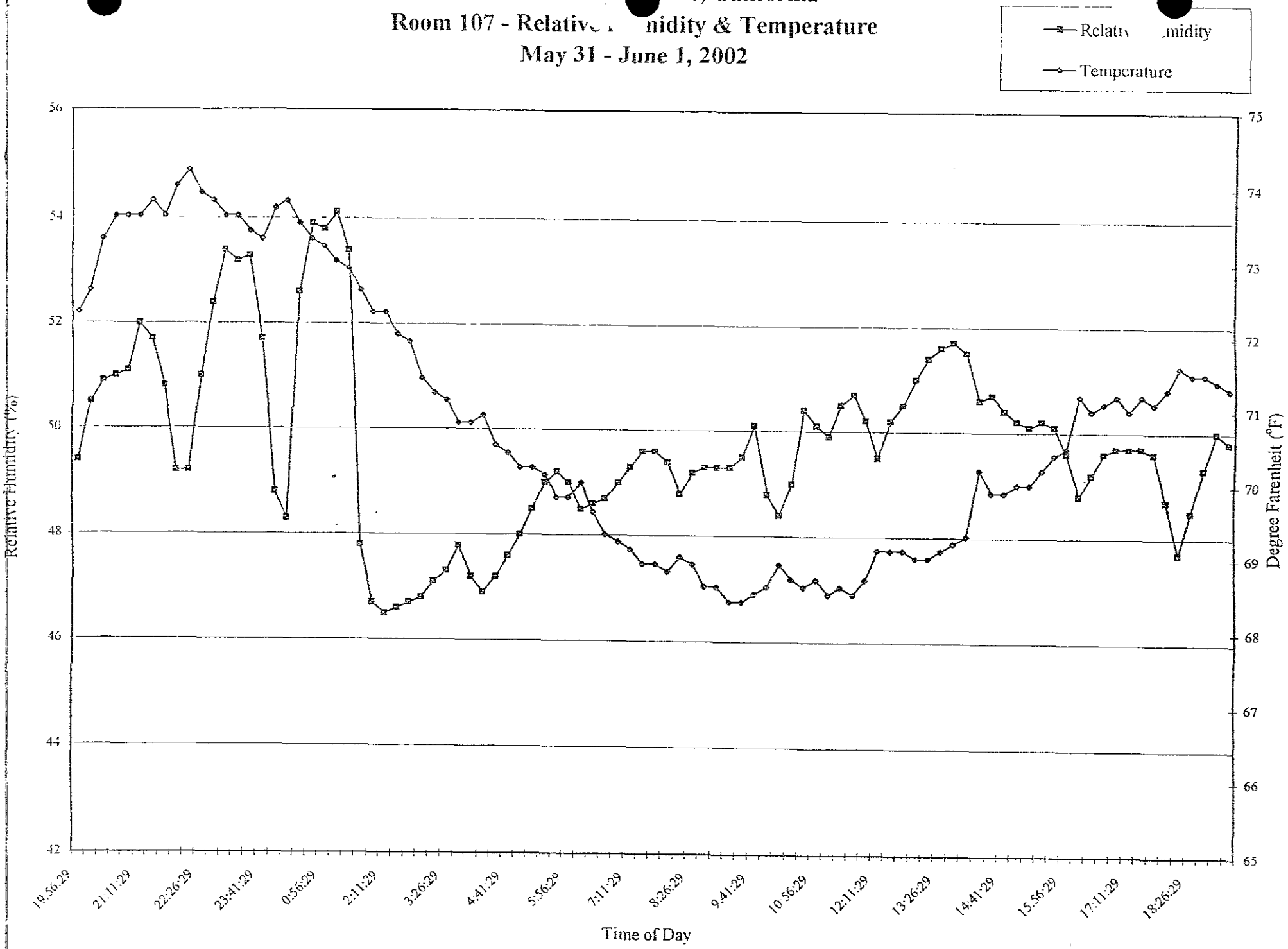
Relative Humidity and Temperature Readings

Senior Center Milpitas, California
Room 104 - Relativ... nidity & Temperature
May 30 - 31, 2002



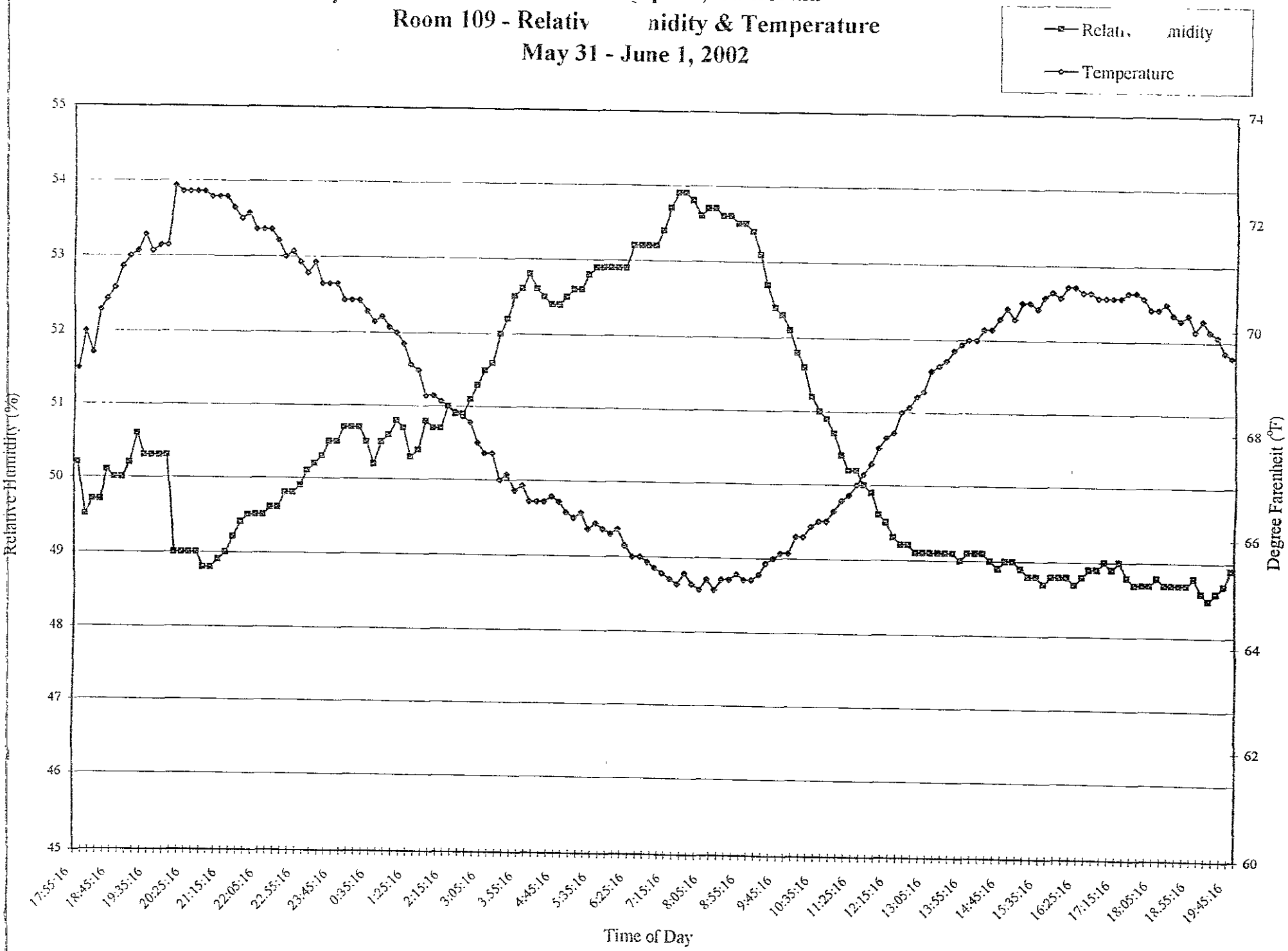
Relative Humidity and Temperature Readings

Senior Center Milpitas, California
Room 107 - Relative Humidity & Temperature
May 31 - June 1, 2002



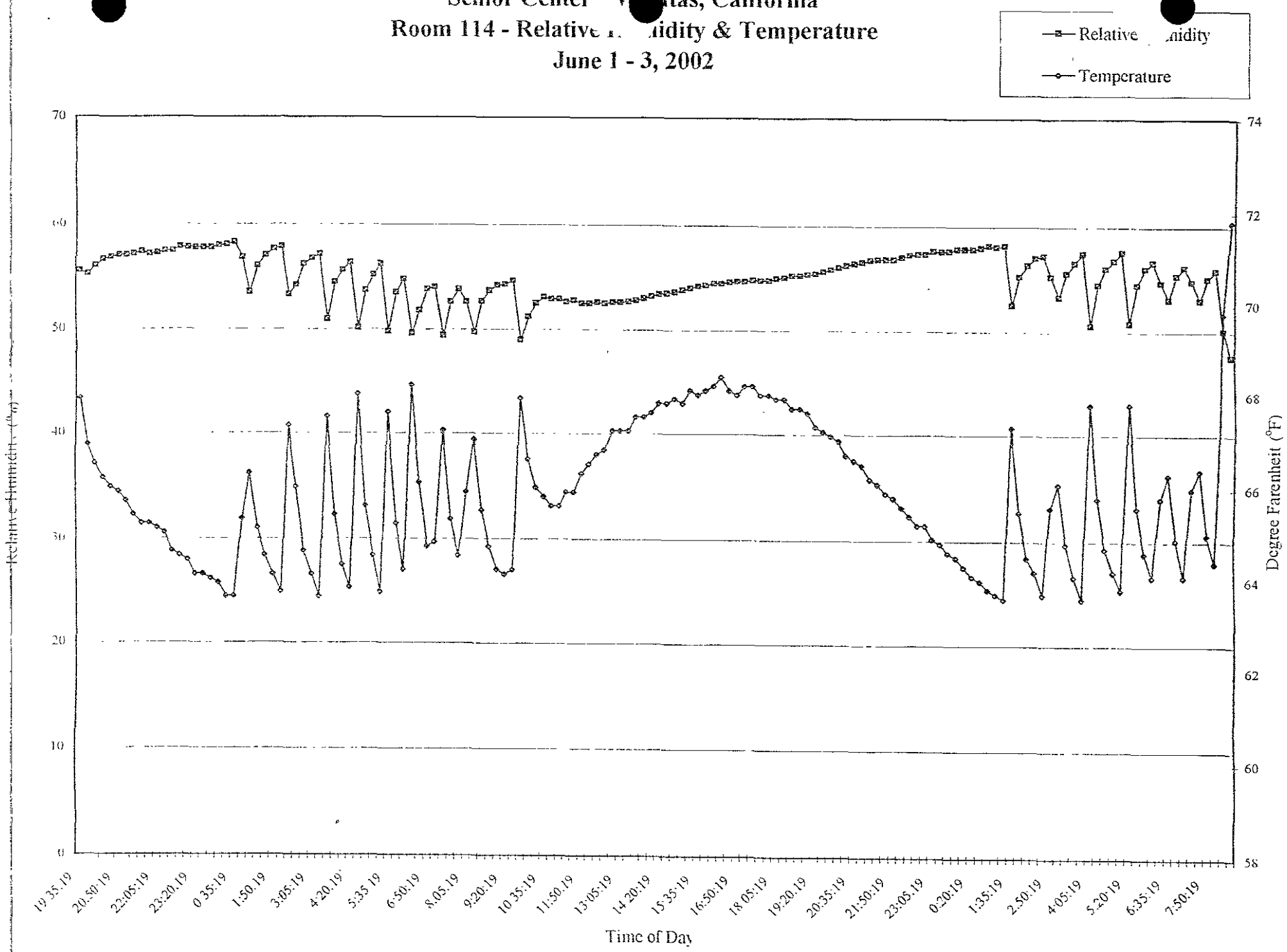
Relative Humidity and Temperature Readings

Senior Center - Milpitas, California
Room 109 - Relativ nidity & Temperature
May 31 - June 1, 2002



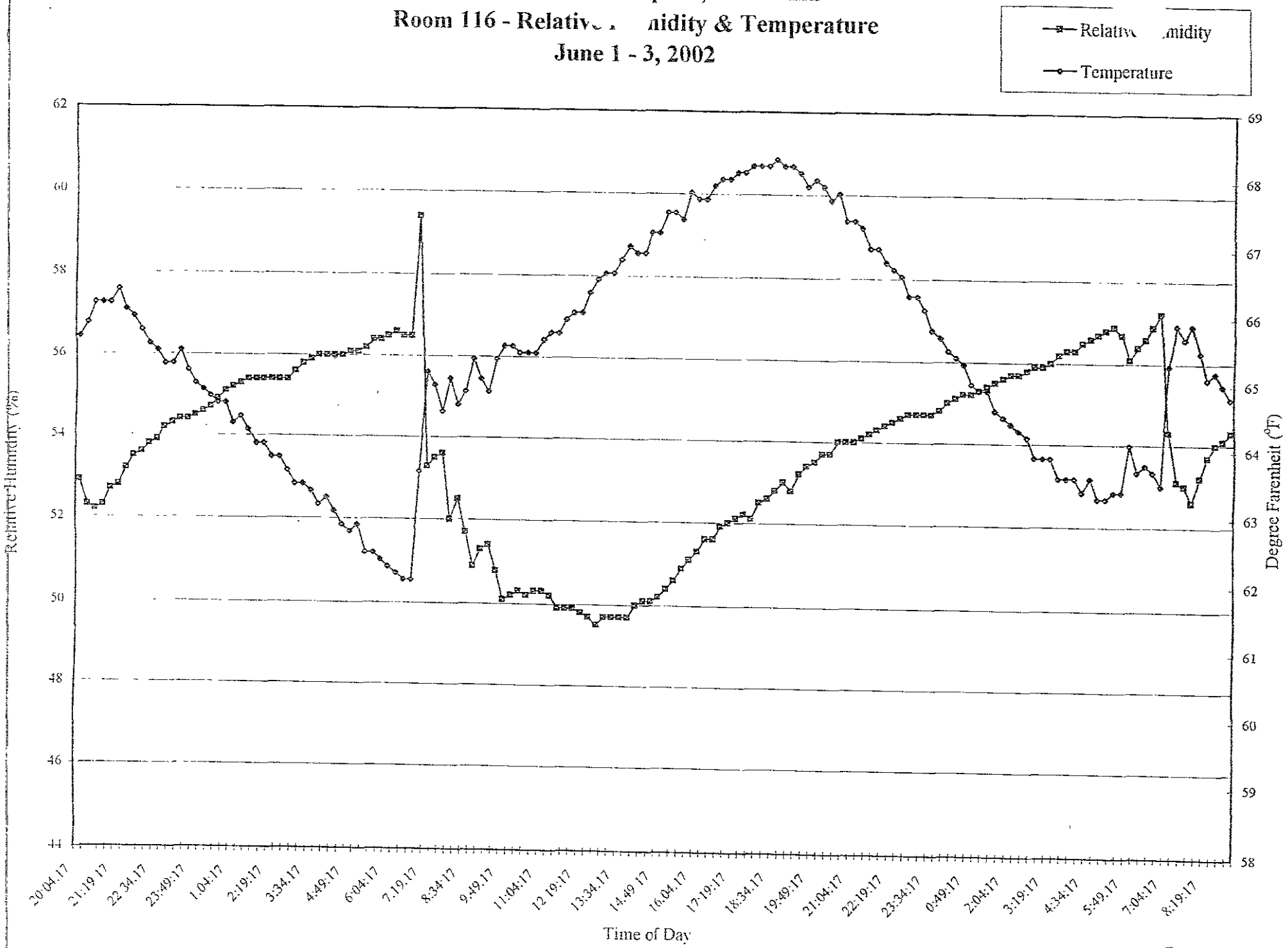
Relative Humidity and Temperature Readings

Senior Center Milpitas, California
Room 114 - Relative Humidity & Temperature
June 1 - 3, 2002

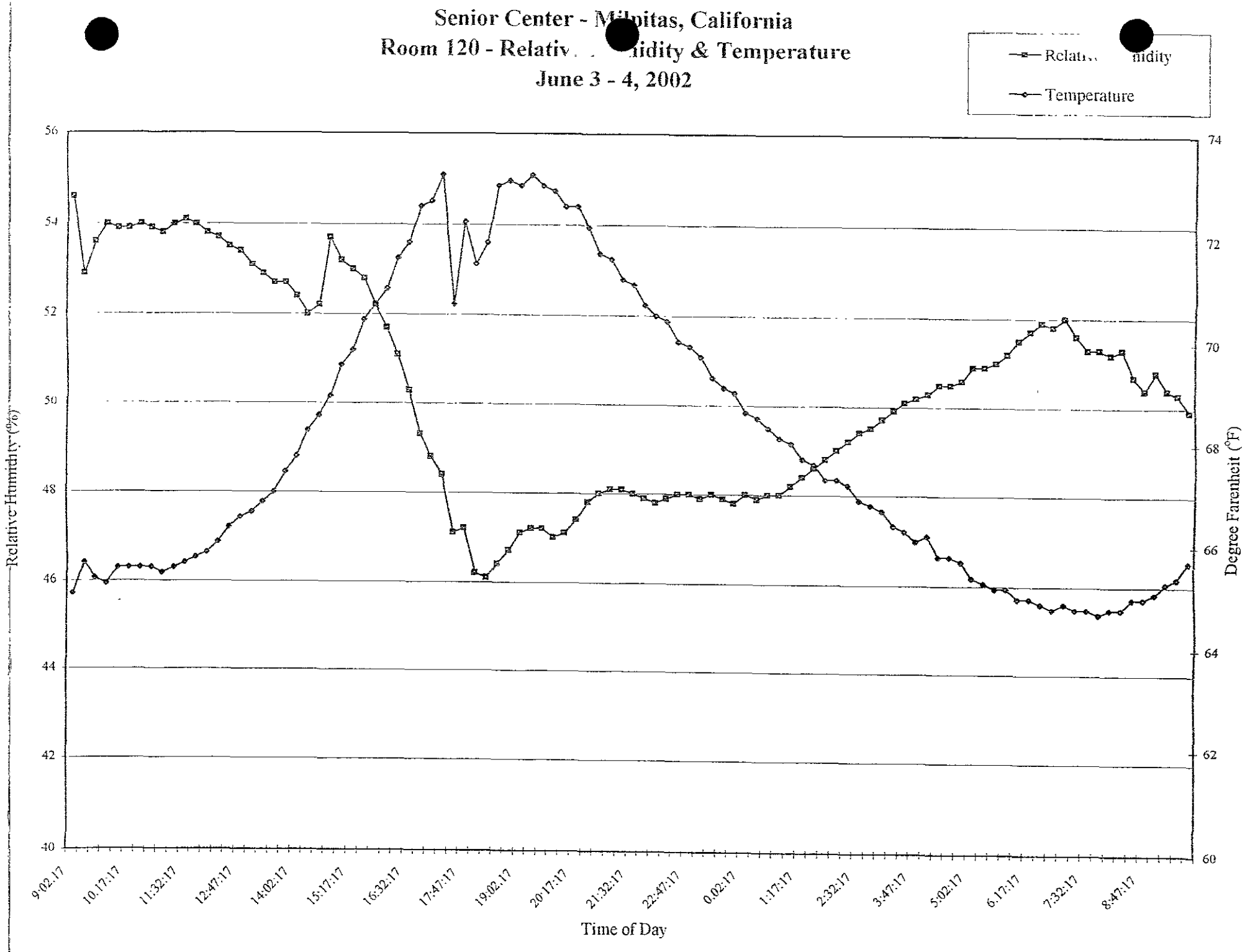


Relative Humidity and Temperature Readings

Senior Center Milpitas, California
Room 116 - Relative Humidity & Temperature
June 1 - 3, 2002

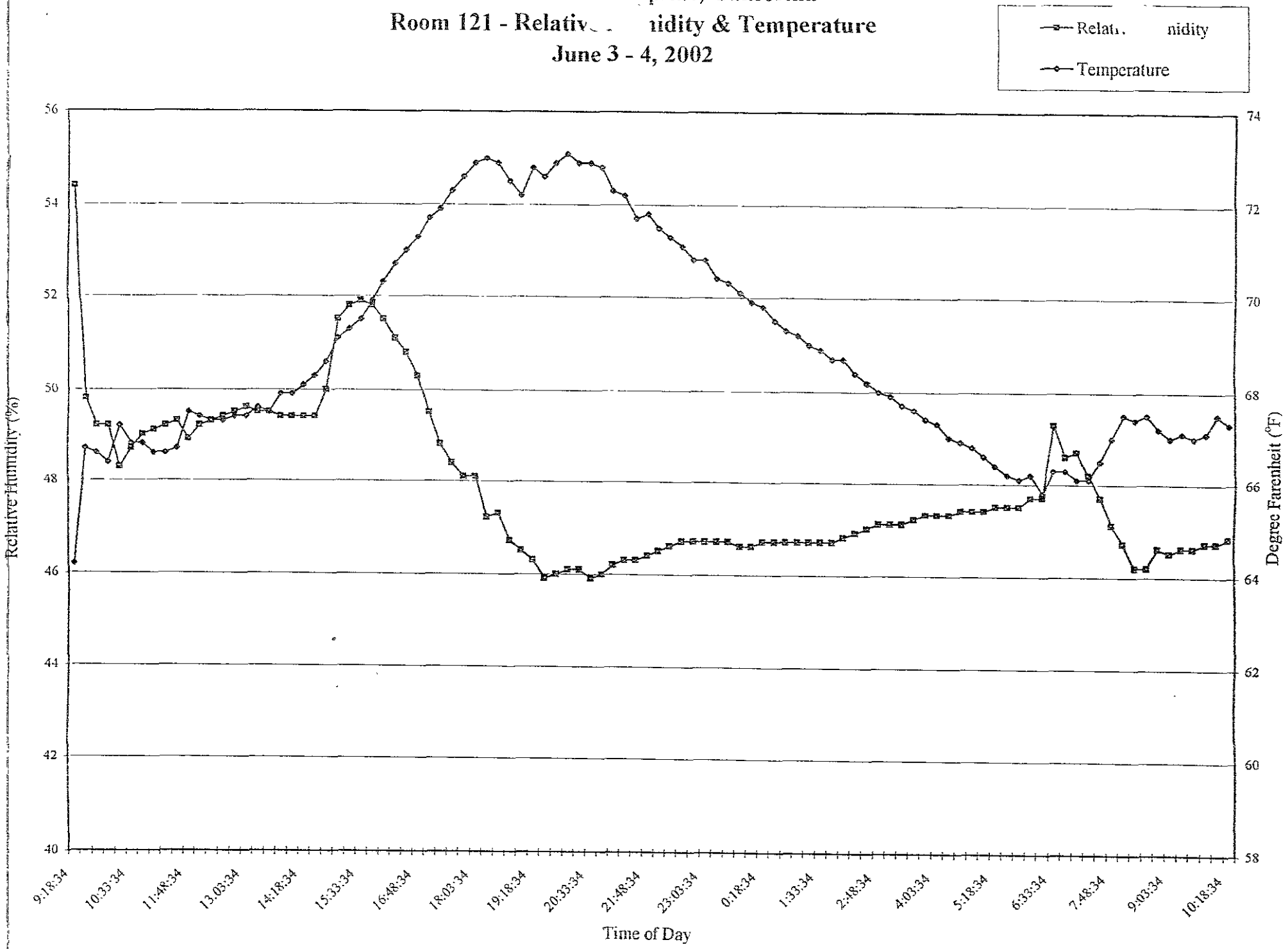


Relative Humidity and Temperature Readings



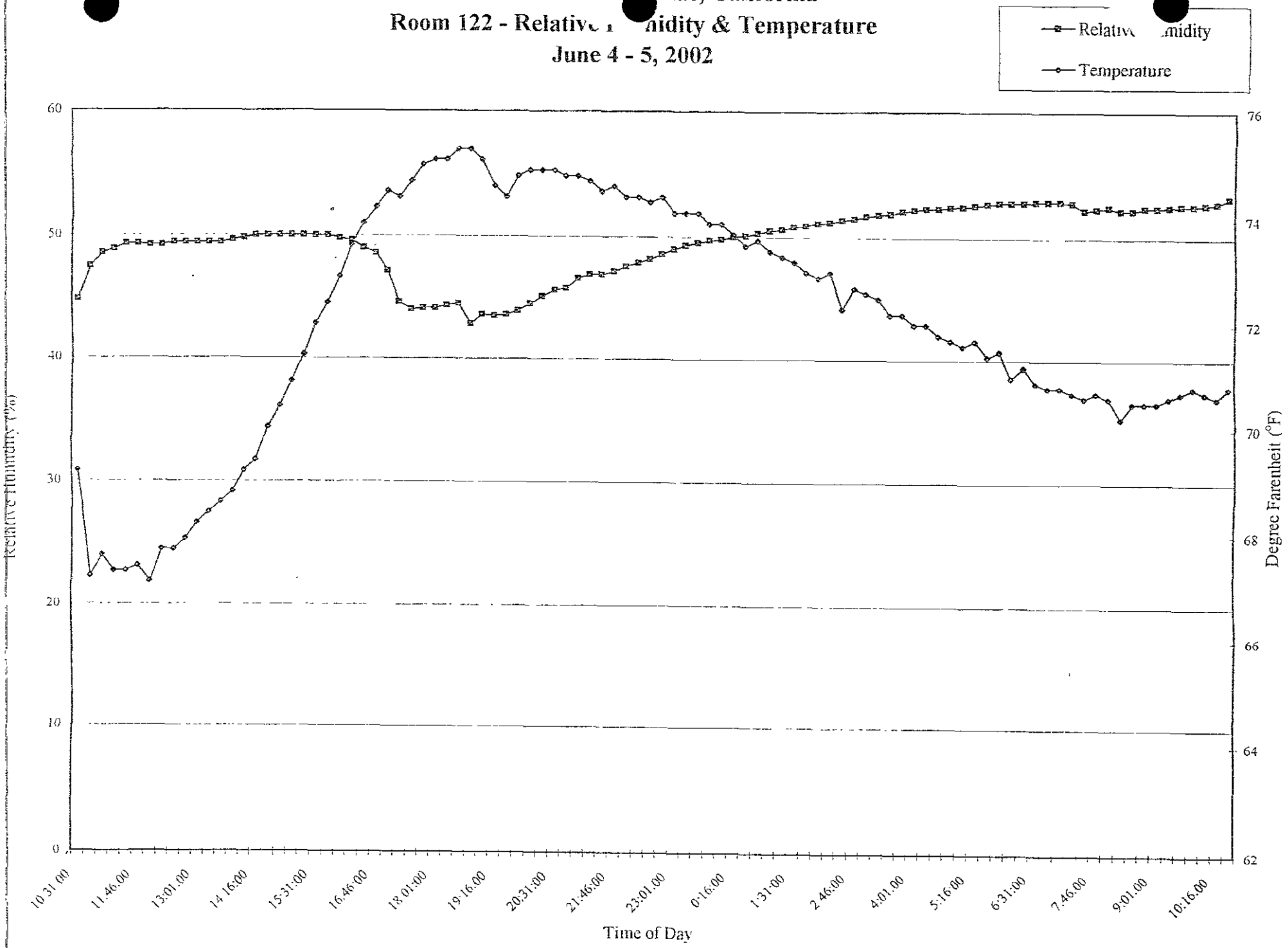
Relative Humidity and Temperature Readings

Senior Center - Milpitas, California
Room 121 - Relativ. . nidity & Temperature
June 3 - 4, 2002



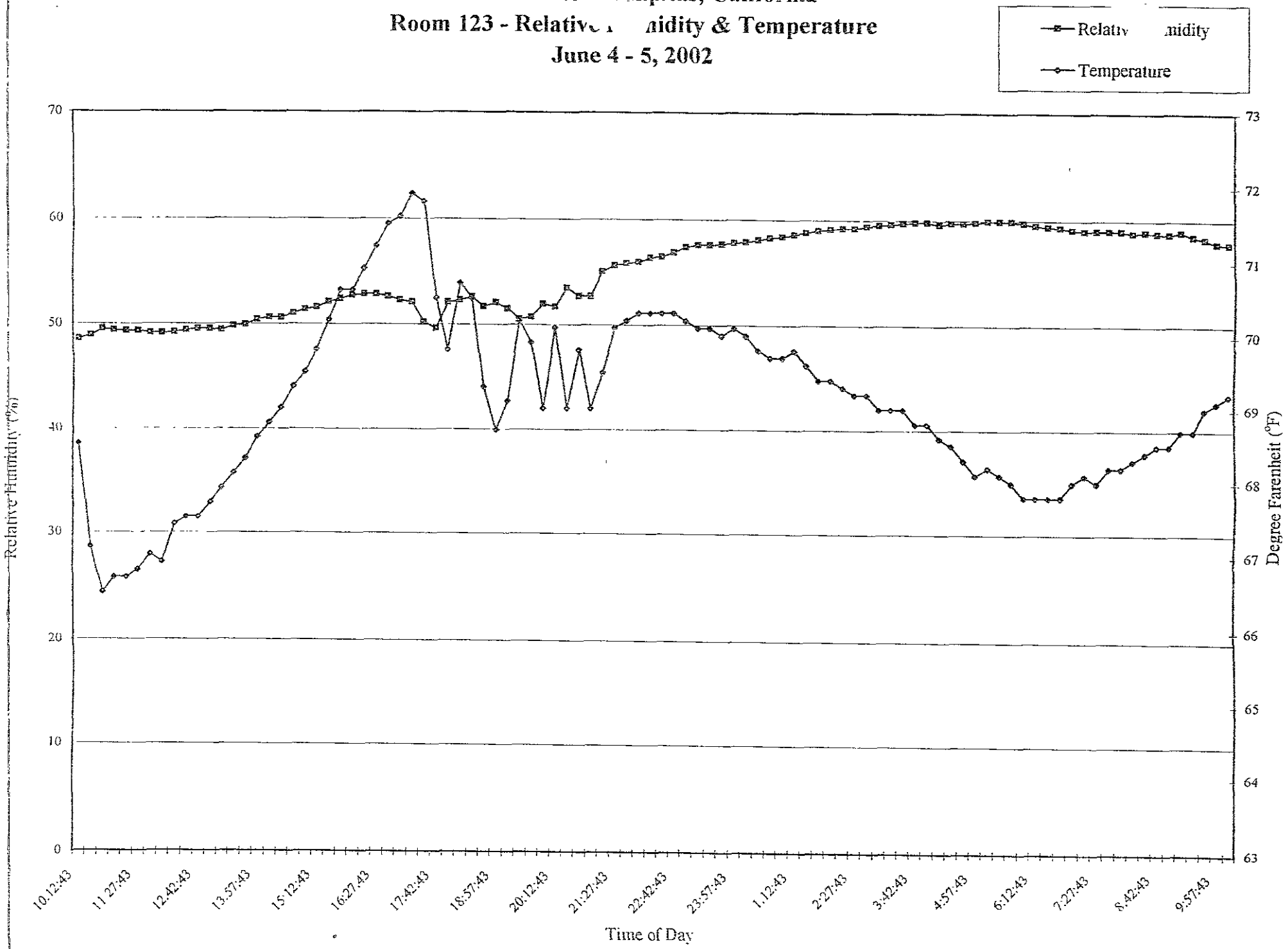
Relative Humidity and Temperature Readings

Senior Center Milpitas, California
Room 122 - Relative Humidity & Temperature
June 4 - 5, 2002

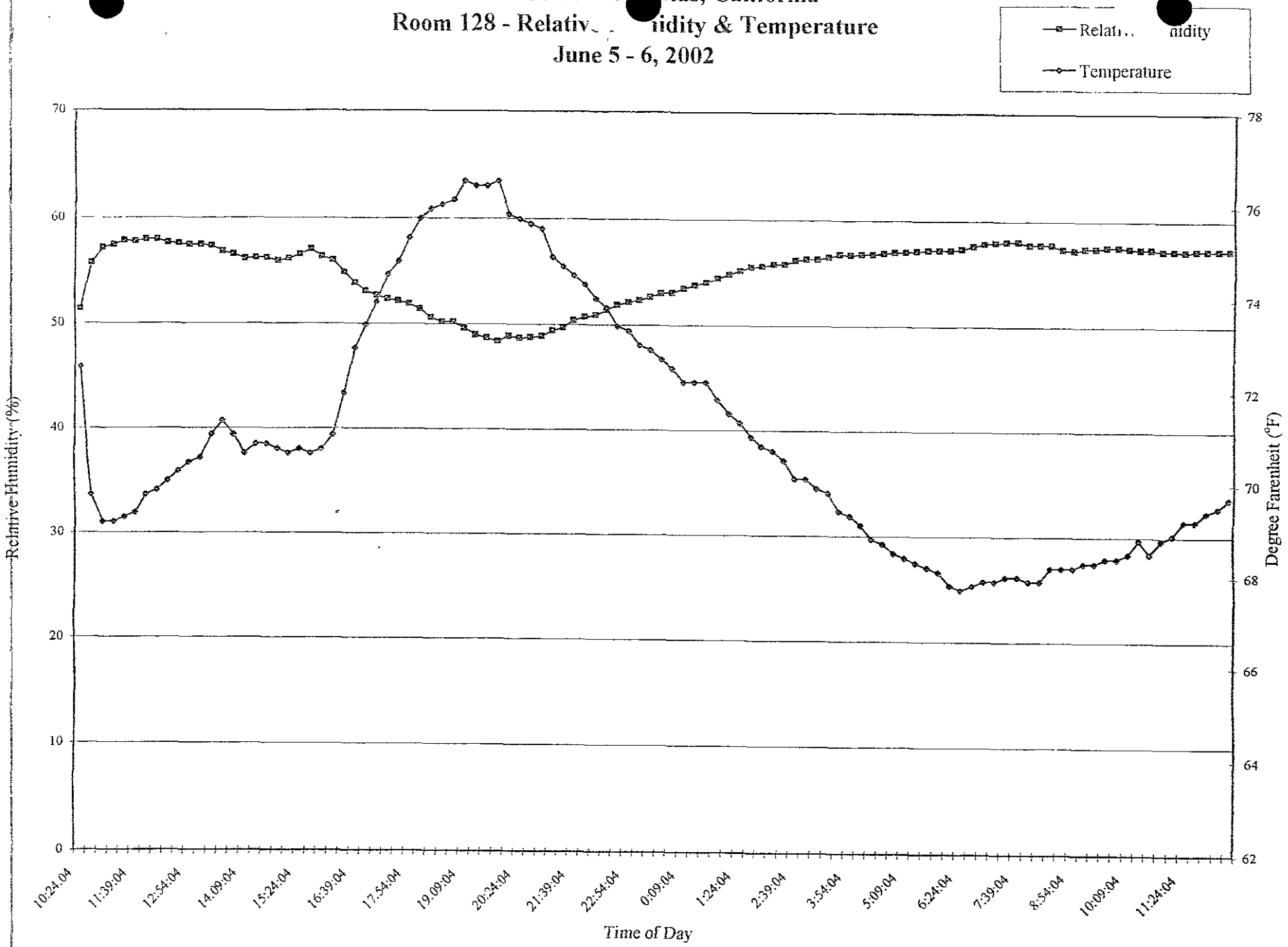


Relative Humidity and Temperature Readings

Senior Center Milpitas, California
Room 123 - Relative Humidity & Temperature
June 4 - 5, 2002

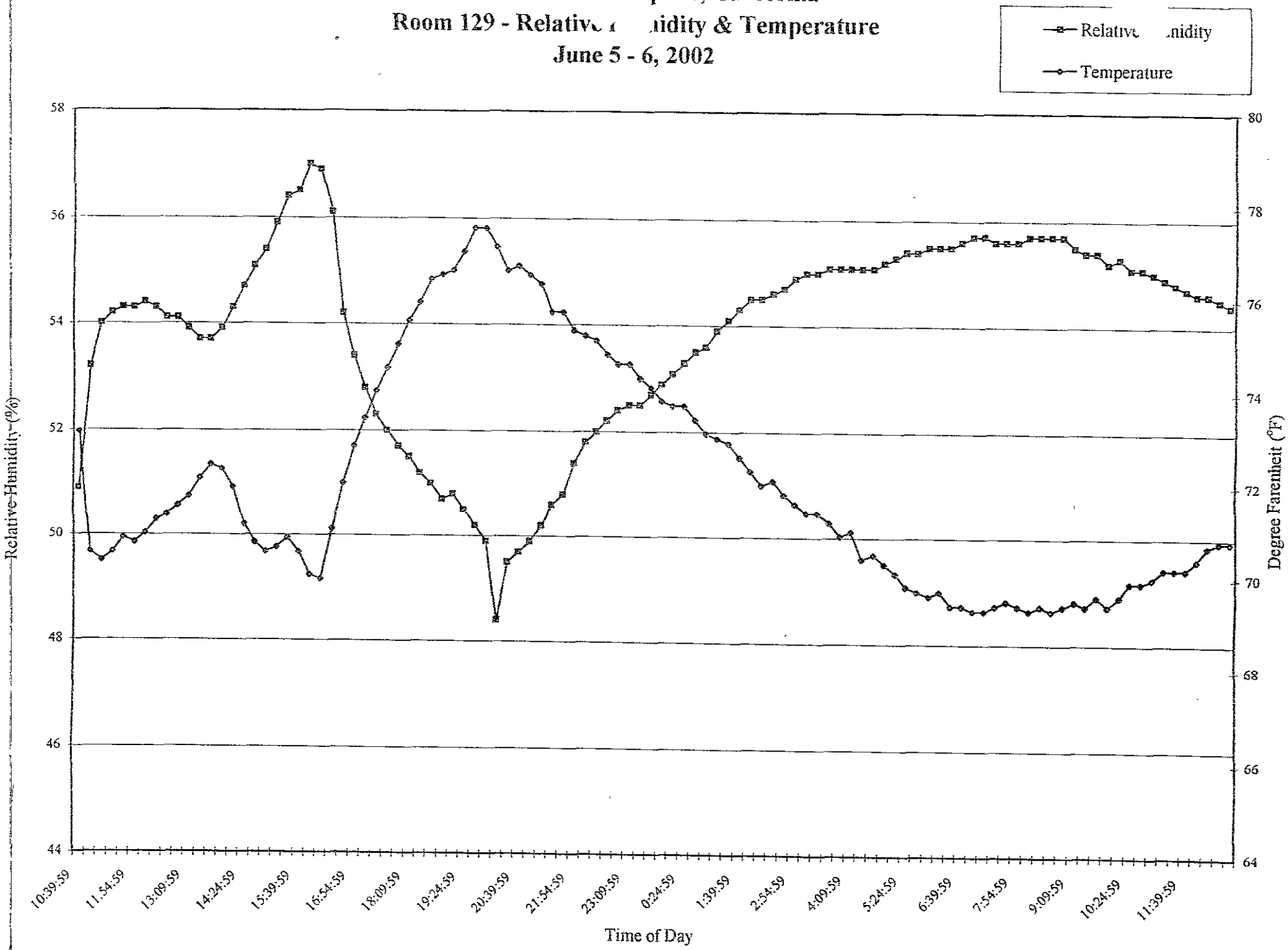


Relative Humidity and Temperature Readings



Relative Humidity and Temperature Readings

Senior Center Milpitas, California
Room 129 - Relative Humidity & Temperature
June 5 - 6, 2002



Relative Humidity and Temperature Readings

APPENDIX A

LABORATORY REPORTS

ENVIRONMENTAL
Analytical Service, Inc.

June 27, 2002
Sample Delivery Group (SDG) 202246

Irene Fanelli
Environmental Health Consultants
1050 Edwards Road
Burlingame, CA 94010

Dear Irene:

Enclosed is the analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following project:

Project Name: Milpitas
Project Number: 020370

The report consists of the following sections:

I. Sample Description
II. Laboratory Narrative and Chain of Custody Forms
III. Laboratory Certification
IV. Quality Control Reports
V. Analytical Results

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely,

Steven D. Hoyt, Ph.D.
Laboratory Director

SDH:lms

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

SDG Number 202246

Client: Environmental Health Consultants **Date Received:** 6/5/2002

I. SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample No.	EAS Lab No	Analysis Requested	Date Sample	Pressure (torr) Rec	Final
CM0604-101	202246 1	EPA TO-15 TIC	6/4/2002	608	917
CM0604-101	202246 1	EPA TO-15 Volatile Organics	6/4/2002	608	917
CM0604-104	202246 2	EPA TO-15 TIC	6/4/2002	806	935
CM0604-104	202246 2	EPA TO-15 Volatile Organics	6/4/2002	806	935
CM0604-105	202246 3	EPA TO-15 TIC	6/4/2002	602	932
CM0604-105	202246 3	EPA TO-15 Volatile Organics	6/4/2002	602	932
CM0604-106	202246 4	EPA TO-15 Volatile Organics	6/4/2002	722	917
CM0604-106	202246 4	EPA TO-15 TIC	6/4/2002	722	917
CM0604-107	202246 5	EPA TO-15 TIC	6/4/2002	805	951
CM0604-107	202246 5	EPA TO-15 Volatile Organics	6/4/2002	805	951
CM0604-109	202246 6	EPA TO-15 Volatile Organics	6/4/2002	588	929
CM0604-109	202246 6	EPA TO-15 TIC	6/4/2002	588	929
CM0604-114	202246 7	EPA TO-15 TIC	6/4/2002	723	921
CM0604-114	202246 7	EPA TO-15 Volatile Organics	6/4/2002	723	921
CM0604-116	202246 8	EPA TO-15 Volatile Organics	6/4/2002	669	923
CM0604-116	202246 8	EPA TO-15 TIC	6/4/2002	669	923
CM0604-120	202246 9	EPA TO-15 Volatile Organics	6/4/2002	802	910
CM0604-120	202246 9	EPA TO-15 TIC	6/4/2002	802	910
CM0604-121	202246 10	EPA TO-15 Volatile Organics	6/4/2002	673	924
CM0604-121	202246 10	EPA TO-15 TIC	6/4/2002	673	924
CM0604-122	202246 11	EPA TO-15 Volatile Organics	6/4/2002	580	917
CM0604-122	202246 11	EPA TO-15 TIC	6/4/2002	580	917
CM0604-123	202246 12	EPA TO-15 Volatile Organics	6/4/2002	804	947
CM0604-123	202246 12	EPA TO-15 TIC	6/4/2002	804	947
CM0604-128	202246 13	EPA TO-15 Volatile Organics	6/4/2002	701	932
CM0604-128	202246 13	EPA TO-15 TIC	6/4/2002	701	932
CM0604-129	202246 14	EPA TO-15 TIC	6/4/2002	596	917
CM0604-129	202246 14	EPA TO-15 Volatile Organics	6/4/2002	596	917
CM0604-Outdoors	202246 15	EPA TO-15 TIC	6/4/2002	667	935
CM0604-Outdoors	202246 15	EPA TO-15 Volatile Organics	6/4/2002	667	935

II. LABORATORY CASE NARRATIVE and CHAIN OF CUSTODY FORMS

EAS SDG Number: 202246

Client: Environmental Health Consultants

All analysis met the QC requirements for the method except Vinyl Chloride exceeds the QC limits for % recovery and % RPD on the Laboratory Control Spike analysis. 1,2-Dichloroethane exceeds the QC limits for % recovery on the Laboratory Control Spike Analysis. Tetrachloroethene exceeds the QC limits for % recovery on the Laboratory Control Spike analysis. This does not effect data quality

III. LABORATORY CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, other than those exceptions noted above.

Steven D. Hoyt, Ph.D
Laboratory Director

IV. QUALITY CONTROL REPORT

SDG Number: 202246
Client: Environmental Health Consultants

LABORATORY QC REPORT

QC NARRATIVE

This report was run with the standard laboratory QC.

STANDARD LABORATORY QC REPORT

Unless project specific QC was requested, this Section contains the standard laboratory QC supplied with the analytical reports, which includes the daily method blank and the daily duplicate control samples as described below. Each day that samples are analyzed comprises a Daily Analytical Batch for a particular instrument. A Daily Analytical Batch QC report will be supplied for each method and each day samples from this SDG Group were analyzed.

METHOD BLANK

A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your samples. A copy of the batch blank is included with the report.

DUPLICATE CONTROL SAMPLES

A duplicate or duplicate control sample (DCS) was analyzed as part of each daily analytical batch. A DCS is a well-characterized matrix (blank water, ambient air, or actual sample) which may or may not be spiked and run in duplicate with your sample batch. The results are on the attached Duplicate Sample/Spike results. Precision is measured in a duplicate test by Relative Percent Difference (RPD) as in:

$$RPD = \frac{[\%\ Recovery\ Test\ 1 - \%\ Recovery\ Test\ 2] \times 100}{(Recovery\ Test\ 1 + Recovery\ Test\ 2) / 2}$$

ENVIRONMENTAL
Analytical Service, Inc.

173 Cros[illegible]
San Luis Obispo, CA
93401 - 7597
805.781 3585
Fax 805 541 4550

CHAIN OF CUSTODY RECORD

Project Number: 020370 | Project Name: Milpitas | Quote Number:

REPORT TO:

Company: EHCI
Address: P.O. Box 117910
City/State/Zip: Burlingame, CA 94011
Phone: (650) 347-9205 (FAX) (650) 347-1526
ATTENTION: Irene Fanelli

See Steve H. ✱

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER			MATRIX							REMARKS
CM0604-101	6/4/02		712	x		x			608	917	2022416-1	X	Shelf E
-104			161						806	935	-2		
105			668						602	932	-3		
106			178						722	917	-4		
107		dlf	184	Z	X				865	951	-5		
109			791						588	929	-6		
114			642						723	921	-7		
116			790						669	923	-8		

N₂

COMMENTS: F

BILLING INFORMATION

Company: EHCI
Address: Same
City/State/Zip:
ATTENTION:
Purchase Order/Billing Reference:

	Date	Time		Date	Time
Sampled by: Irene Fanelli	6/4/02	1800	Received by:		
Relinquished By:			Received by:		
Relinquished By			Received by		
Relinquished By:			Received for lab by: [signature]	6/5/02	1030

ENVIRONMENTAL
Analytical Service, Inc.

173 Cros..
San Luis Obispo, CA
93401 - 7597
805.781 3585
Fax 805 541.4550

CHAIN OF CUSTODY RECORD

Project Number 020370 | Project Name: Milpitas | Quote Number:

REPORT TO:

Company EHCI
Address P.O. Box 11 1410
City/State/Zip Burlingame, CA 94011
Phone (650)347-9205 (FAX) (650)347-1526
ATTENTION Irene Fanelli

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	PURGE	MATRIX				No			See steve Retrayt					REMARKS
CM0604-120	6/4/02		416	x			x			802	910	2022469	X					Shelf J
CM0604-121			649							673	924	-10						
122			756							580	917	-11						
123			707							804	947	-12						
128			213							701	932	-13						
129			179							596	917	-14						
-outdoors			616			x				667	935	-15						

COMMENTS

15 FC Ret'd

BILLING INFORMATION

Company
Address Same
City/State/Zip
ATTENTION
Purchase Order/Billing Reference

	Date	Time		Date	Time
SAMPLED BY: Irene Fanelli	6/4/02	1800	Received by:		
Relinquished By:			Received by:		
Relinquished By:			Received by:		
Relinquished By:			Received for lab by: [signature]	6/5/02	1030

ENVIRONMENTAL
Analytical Service, Inc.

METHOD BLANK REPORT

SDG. LABQC
Laboratory Number: B06052

Analytical Method: EPA TO-15

File: B06052A.D
Client:
Description: METHOD BLANK
Sam_Type: MB
QC_Batch: 060502-MS1

Date Sampled: Time:
Date Received:
Date Analyzed: 06/05/02 Time:
Dilution Factor: 1.00 Can#:
Analyst: KB\SS\KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	ND	0.5	ND	U
74-87-3	Chloromethane	0.1	ND	0.2	ND	U
76-14-2	Freon 114	0.1	ND	0.7	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.4	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
107-02-8	Acrolein	0.1	ND	0.2	ND	U
75-69-4	Trichlorofluoromethane	0.1	ND	0.6	ND	U
75-05-8	Acetonitrile	5.0	ND	8.7	ND	U
[illegible]-64-1	Acetone	0.8	ND	2.0	ND	U
[illegible]8-4	Methyl iodide	0.5	ND	3.0	ND	U
35-4	1,1-Dichloroethene	0.1	ND	0.4	ND	U
[illegible]07-13-1	Acrylonitrile	5.0	ND	11.2	ND	U
76-13-1	Freon 113	0.1	ND	0.8	ND	U
107-05-1	Allyl chloride	0.5	ND	1.6	ND	U
75-09-2	Methylene chloride	0.1	ND	0.4	ND	U
75-15-0	Carbon disulfide	1.0	ND	3.2	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.4	ND	U
1634-04-4	Methyl tert butyl ether	0.1	ND	0.4	ND	U
107-12-0	Propionitrile	5.0	ND	11.6	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.4	ND	U
108-05-4	Vinyl acetate	0.5	ND	1.8	ND	U
78-93-3	2-Butanone	0.5	ND	1.5	ND	U
78-83-1	Isobutyl alcohol	50.0	ND	156.5	ND	U
126-98-7	Methacrylonitrile	5.0	ND	14.2	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.4	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.5	ND	U
67-66-3	Chloroform	0.1	ND	0.5	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.6	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.4	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.5	ND	U
71-43-2	Benzene	0.1	ND	0.3	ND	U
56-23-5	Carbon tetrachloride	0.1	ND	0.6	ND	U
142-82-5	n-Heptane	0.5	ND	2.1	ND	U
[illegible]87-5	1,2-Dichloropropane	0.1	ND	0.5	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

SDG : LABQC
Laboratory Number: B06052

Analytical Method: EPA TO-15

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
74-95-3	Dibromomethane	0.1	ND	0.7	ND	U
126-99-8	Trichloroethene	0.1	ND	0.6	ND	U
79-01-6	Bromodichloromethane	0.1	ND	0.6	ND	U
75-27-4	Methyl methacrylate	0.1	0.1	0.7	1.0	
80-62-6	4-Methyl-2-pentanone	5.0	ND	21.1	ND	U
108-10-1	cis-1,3-Dichloropropene	0.4	ND	1.7	ND	U
10061-01-5	Toluene	0.1	ND	0.5	ND	U
108-88-3	trans-1,3-Dichloropropene	0.1	ND	0.4	ND	U
10061-02-6	1,1,2-Trichloroethane	0.1	ND	0.5	ND	U
79-00-5	2-Hexanone	0.1	ND	0.6	ND	U
591-78-6	1,3-Dichloropropane	0.4	ND	1.7	ND	U
142-28-9	Octane	0.1	ND	0.5	ND	U
111-65-9	Dibromochloromethane	0.5	ND	2.4	ND	U
124-48-1	1,2-Dibromoethane	0.1	ND	0.9	ND	U
1[illegible]93-4	Tetrachloroethene	0.1	ND	0.8	ND	U
1[illegible],8-4	Chlorobenzene	0.1	ND	0.7	ND	U
[illegible]-90-7	1,1,1,2-Tetrachloroethane	0.1	ND	0.5	ND	U
630-20-6	Ethylbenzene	1.0	ND	7.1	ND	U
100-41-4	m & p-Xylene	0.1	0.2	0.4	0.7	
108-38-3	Styrene	0.1	ND	0.4	ND	U
100-42-5	Bromoform	0.1	ND	0.4	ND	U
75-25-2	o-Xylene	0.2	ND	2.1	ND	U
95-47-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.4	ND	U
79-34-5	1,2,3-Trichloropropane	0.1	ND	0.7	ND	U
96-18-4	t-1,4-Dichloro-2-butene	5.0	ND	31.1	ND	U
110-57-6	4-Ethyltoluene	5.0	ND	26.4	ND	U
622-96-8	1,3,5-Trimethylbenzene	0.1	ND	0.5	ND	U
108-67-8	Methylstyrene	0.1	ND	0.5	ND	U
98-83-9	1,2,4-Trimethylbenzene	5.0	ND	25.0	ND	U
95-63-6	1,3-Dichlorobenzene	0.1	ND	0.5	ND	U
541-73-1	Benzyl chloride	0.1	ND	0.6	ND	U
100-44-7	1,4-Dichlorobenzene	0.1	ND	0.5	ND	U
106-46-7	1,2-Dichlorobenzene	0.1	ND	0.6	ND	U
95-50-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.6	ND	U
96-12-8	1,2,4-Trichlorobenzene	5.0	ND	49.9	ND	U
120-82-1	Napthalene	0.1	ND	0.8	ND	U
91-20-3	Hexachlorobutadiene	1.0	ND	5.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

ENVIRONMENTAL
Analytical Service, Inc.

METHOD BLANK REPORT

SDG: LABQC
Laboratory Number: B06062

Analytical Method: EPA TO-15

File: B06062A.D
Client:
Description: METHOD BLANK
Sam_Type: MB
QC_Batch: 060602-MS1

Date Sampled: Time:
Date Received:
Date Analyzed: 06/06/02 Time:
Dilution Factor: 1.00 Can#:
Analyst: KB\SS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	ND	0.5	ND	U
74-87-3	Chloromethane	0.1	ND	0.2	ND	U
76-14-2	Freon 114	0.1	ND	0.7	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.4	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
75-69-4	Trichlorofluoromethane	0.1	ND	0.6	ND	U
75-05-8	Acetonitrile	5.0	ND	8.7	ND	U
67-64-1	Acetone	0.8	ND	2.0	ND	U
[illegible]7-95-6	Methyl iodide	0.5	ND	3.0	ND	U
[illegible]-4	1,1-Dichloroethene	0.1	ND	0.4	ND	U
[illegible]-13-1	Acrylonitrile	5.0	ND	11.2	ND	U
[illegible]-13-1	Freon 113	0.1	ND	0.8	ND	U
107-05-1	Allyl chloride	0.5	ND	1.6	ND	U
75-09-2	Methylene chloride	0.1	ND	0.4	ND	U
75-15-0	Carbon disulfide	1.0	ND	3.2	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.4	ND	U
1634-04-4	Methyl tert butyl ethe	0.1	ND	0.4	ND	U
107-12-0	Propionitrile	5.0	ND	11.6	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.4	ND	U
108-05-4	Vinyl acetate	0.5	ND	1.8	ND	U
78-93-3	2-Butanone	0.5	ND	1.5	ND	U
78-83-1	Isobutyl alcohol	50.0	ND	156.5	ND	U
126-98-7	Methacrylonitrile	5.0	ND	14.2	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.4	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.5	ND	U
67-66-3	Chloroform	0.1	ND	0.5	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.6	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.4	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.5	ND	U
71-43-2	Benzene	0.1	ND	0.3	ND	U
56-23-5	Carbon tetrachloride	0.1	ND	0.6	ND	U
142-82-5	n-Heptane	0.5	ND	2.1	ND	U
78-87-5	1,2-Dichloropropane	0.1	ND	0.5	ND	U

SDG : LABQC

EPA TO-15

Laboratory Number: B06062

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	0.7	ND	U
80-62-6	Trichloroethene	0.1	ND	0.6	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.6	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.7	ND	U
108-88-3	4-Methyl-2-pentanone	5.0	ND	21.1	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.4	ND	1.7	ND	U
79-00-5	Toluene	0.1	ND	0.5	ND	U
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.4	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.5	ND	U
111-65-9	2-Hexanone	0.1	ND	0.6	ND	U
124-48-1	1,3-Dichloropropane	0.4	ND	1.7	ND	U
106-93-4	Octane	0.1	ND	0.5	ND	U
127-18-4	Dibromochloromethane	0.5	ND	2.4	ND	U
106-90-7	1,2-Dibromoethane	0.1	ND	0.9	ND	U
[illegible]20-6	Tetrachloroethene	0.1	ND	0.8	ND	U
[illegible]41-4	Chlorobenzene	0.1	ND	0.7	ND	U
[illegible]-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.5	ND	U
108-94-1	Ethylbenzene	1.0	ND	7.1	ND	U
100-42-5	m & p-Xylene	0.1	0.1	0.4	0.5	
95-47-6	Styrene	0.1	ND	0.4	ND	U
79-34-5	Bromoform	0.1	ND	0.4	ND	U
96-18-4	o-Xylene	0.2	ND	2.1	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.4	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.7	ND	U
98-82-8	t-1,4-Dichloro-2-butene	5.0	ND	31.1	ND	U
98-83-9	4-Ethyltoluene	5.0	ND	26.4	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.5	ND	U
95-63-6	Methylstyrene	0.1	ND	0.5	ND	U
541-73-1	1,2,4-Trimethylbenzene	5.0	ND	25.0	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.5	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.6	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.5	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.6	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.6	ND	U
87-68-3	1,2,4-Trichlorobenzene	5.0	ND	49.9	ND	U
87-61-6	Napthalene	0.1	ND	0.8	ND	U
87-68-3	Hexachlorobutadiene	1.0	ND	5.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

ENVIRONMENTAL
Analytical Service, Inc.

METHOD BLANK REPORT

SDG: LABQC
Laboratory Number: B06072

Analytical Method: EPA TO-15

File: B06072A.D
Client:
Description: METHOD BLANK
Sam_Type: MB
QC_Batch: 060702-MS1

Date Sampled:
Date Received:
Date Analyzed: 06/07/02
Dilution Factor: 1.00
Analyst: KB/SS

Time:
Time:
Can#:

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	ND	0.5	ND	U
74-87-3	Chloromethane	0.1	ND	0.2	ND	U
76-14-2	Freon 114	0.1	ND	0.7	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.4	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
75-69-4	Trichlorofluoromethane	0.1	ND	0.6	ND	U
75-05-8	Acetonitrile	5.0	ND	8.7	ND	U
67-64-1	Acetone	0.8	ND	2.0	ND	U
7-95-6	Methyl iodide	0.5	ND	3.0	ND	U
35-4	1,1-Dichloroethene	0.1	ND	0.4	ND	U
7-13-1	Acrylonitrile	5.0	ND	11.2	ND	U
76-13-1	Freon 113	0.1	ND	0.8	ND	U
107-05-1	Allyl chloride	0.5	ND	1.6	ND	U
75-09-2	Methylene chloride	0.1	ND	0.4	ND	U
75-15-0	Carbon disulfide	1.0	ND	3.2	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.4	ND	U
1634-04-4	Methyl tert butyl ethe	0.1	ND	0.4	ND	U
107-12-0	Propionitrile	5.0	ND	11.6	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.4	ND	U
108-05-4	Vinyl acetate	0.5	ND	1.8	ND	U
78-93-3	2-Butanone	0.5	ND	1.5	ND	U
78-83-1	Isobutyl alcohol	50.0	ND	156.5	ND	U
126-98-7	Methacrylonitrile	5.0	ND	14.2	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.4	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.5	ND	U
67-66-3	Chloroform	0.1	ND	0.5	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.6	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.4	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.5	ND	U
71-43-2	Benzene	0.1	ND	0.3	ND	U
56-23-5	Carbon tetrachloride	0.1	ND	0.6	ND	U
142-82-5	n-Heptane	0.5	ND	2.1	ND	U
97-5	1,2-Dichloropropane	0.1	ND	0.5	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

SDG : LABQC

EPA TO-15

Laboratory Number: B06072

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	0.7	ND	U
80-62-6	Trichloroethene	0.1	ND	0.6	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.6	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.7	ND	U
108-88-3	4-Methyl-2-pentanone	5.0	ND	21.1	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.4	ND	1.7	ND	U
79-00-5	Toluene	0.1	ND	0.5	ND	U
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.4	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.5	ND	U
111-65-9	2-Hexanone	0.1	ND	0.6	ND	U
124-48-1	1,3-Dichloropropane	0.4	ND	1.7	ND	U
106-93-4	Octane	0.1	ND	0.5	ND	U
127-18-4	Dibromochloromethane	0.5	ND	2.4	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	0.9	ND	U
6[illegible]20-6	Tetrachloroethene	0.1	ND	0.8	ND	U
[illegible]41-4	Chlorobenzene	0.1	ND	0.7	ND	U
[illegible]-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.5	ND	U
108-94-1	Ethylbenzene	1.0	ND	7.1	ND	U
100-42-5	m & p-Xylene	0.1	0.1	0.4	0.6	
95-47-6	Styrene	0.1	ND	0.4	ND	U
79-34-5	Bromoform	0.1	ND	0.4	ND	U
96-18-4	o-Xylene	0.2	ND	2.1	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.4	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.7	ND	U
98-82-8	t-1,4-Dichloro-2-butene	5.0	ND	31.1	ND	U
98-83-9	4-Ethyltoluene	5.0	ND	26.4	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.5	ND	U
95-63-6	Methylstyrene	0.1	ND	0.5	ND	U
541-73-1	1,2,4-Trimethylbenzene	5.0	ND	25.0	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.5	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.6	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.5	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.6	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.6	ND	U
87-68-3	1,2,4-Trichlorobenzene	5.0	ND	49.9	ND	U
87-61-6	Napthalene	0.1	ND	0.8	ND	U
87-68-3	Hexachlorobutadiene	1.0	ND	5.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

ENVIRONMENTAL
Analytical Service, Inc.

METHOD BLANK REPORT

SDG: LABQC

Analytical Method: EPA TO-15 Laboratory Number: B06102

File: B06102A.D Date Sampled: Time:
Client: Date Received:
Description: METHOD BLANK Date Analyzed: 06/10/02 Time:
Sam_Type: MB Dilution Factor: 1.00 Can#:
QC_Batch: 061002-MS1 Analyst: SS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	ND	0.5	ND	U
74-87-3	Chloromethane	0.1	ND	0.2	ND	U
76-14-2	Freon 114	0.1	ND	0.7	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.4	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
75-69-4	Trichlorofluoromethane	0.1	ND	0.6	ND	U
75-05-8	Acetonitrile	5.0	ND	8.7	ND	U
67-64-1	Acetone	0.8	ND	2.0	ND	U
74-88-4	Methyl iodide	0.5	ND	3.0	ND	U
75-35-4	1,1-Dichloroethene	0.1	ND	0.4	ND	U
107-13-1	Acrylonitrile	5.0	ND	11.2	ND	U
76-13-1	Freon 113	0.1	ND	0.8	ND	U
107-05-1	Allyl chloride	0.5	ND	1.6	ND	U
75-09-2	Methylene chloride	0.1	ND	0.4	ND	U
75-15-0	Carbon disulfide	1.0	ND	3.2	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.4	ND	U
1634-04-4	Methyl tert butyl ether	0.1	ND	0.4	ND	U
107-12-0	Propionitrile	5.0	ND	11.6	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.4	ND	U
108-05-4	Vinyl acetate	0.5	ND	1.8	ND	U
78-93-3	2-Butanone	0.5	ND	1.5	ND	U
78-83-1	Isobutyl alcohol	50.0	ND	156.5	ND	U
126-98-7	Methacrylonitrile	5.0	ND	14.2	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.4	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.5	ND	U
67-66-3	Chloroform	0.1	ND	0.5	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.6	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.4	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.5	ND	U
71-43-2	Benzene	0.1	ND	0.3	ND	U
56-23-5	Carbon tetrachloride	0.1	ND	0.6	ND	U
142-82-5	n-Heptane	0.5	ND	2.1	ND	U
78-87-5	1,2-Dichloropropane	0.1	ND	0.5	ND	U

ENVIRONMENTAL
Analytical Service, Inc

SDG : LABQC

EPA TO-15

Laboratory Number: B06102

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	0.7	ND	U
80-62-6	Trichloroethene	0.1	ND	0.6	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.6	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.7	ND	U
108-88-3	4-Methyl-2-pentanone	5.0	ND	21.1	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.4	ND	1.7	ND	U
79-00-5	Toluene	0.1	ND	0.5	ND	U
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.4	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.5	ND	U
111-65-9	2-Hexanone	0.1	ND	0.6	ND	U
124-48-1	1,3-Dichloropropane	0.4	ND	1.7	ND	U
106-93-4	Octane	0.1	ND	0.5	ND	U
127-18-4	Dibromochloromethane	0.5	ND	2.4	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	0.9	ND	U
630-20-6	Tetrachloroethene	0.1	ND	0.8	ND	U
-41-4	Chlorobenzene	0.1	ND	0.7	ND	U
8-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.5	ND	U
08-94-1	Ethylbenzene	1.0	ND	7.1	ND	U
100-42-5	m & p-Xylene	0.1	0.1	0.4	0.4	
95-47-6	Styrene	0.1	ND	0.4	ND	U
79-34-5	Bromoform	0.1	ND	0.4	ND	U
96-18-4	o-Xylene	0.2	ND	2.1	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.4	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.7	ND	U
98-82-8	t-1,4-Dichloro-2-butene	5.0	ND	31.1	ND	U
98-83-9	4-Ethyltoluene	5.0	ND	26.4	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.5	ND	U
95-63-6	Methylstyrene	0.1	ND	0.5	ND	U
541-73-1	1,2,4-Trimethylbenzene	5.0	ND	25.0	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.5	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.6	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.5	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.6	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.6	ND	U
87-68-3	1,2,4-Trichlorobenzene	5.0	ND	49.9	ND	U
87-61-6	Napthalene	0.1	ND	0.8	ND	U
87-68-3	Hexachlorobutadiene	1.0	ND	5.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL SPIKE REPORT

SDG: LABQC
Laboratory Number: QC06052

Analytical Method: TO-15

File:	QC06052A.D	Date Sampled:		Time:	
Client:		Date Received:			
Description:	ST-101201-1	Date Analyzed:	06/05/02	Time:	
Sam_Type:	LCS	Dilution Factor:	0.5	Can#:	
QC_Batch:	060502-MS1	Analyst:	KB\SS\AT	QC_Level:	C

CAS#	Compound	Spike Amt. ppbV	Amount ppbV	%Rec	QC Limits	Flag
75-01-4	Vinyl chloride	0.46	0.71	153	70-130	*
75-35-4	1,1-Dichloroethene	0.63	0.80	126	70-140	
75-09-2	Methylene chloride	0.55	0.67	123	70-130	
75-34-3	1,1-Dichloroethane	0.67	0.68	102	70-130	
67-66-3	Chloroform	0.69	0.82	118	70-130	
71-55-6	1,1,1-Trichloroethane	0.51	0.62	122	70-130	
107-06-2	1,2-Dichloroethane	0.50	0.70	140	70-130	*
71-43-2	Benzene	0.59	0.65	111	70-130	
56-23-5	Carbon tetrachloride	0.51	0.63	124	70-130	
79-01-6	Trichloroethene	0.66	0.75	113	70-130	
108-88-3	Toluene	0.53	0.53	99	70-130	
106-93-4	1,2-Dibromoethane	0.45	0.47	105	70-130	
127-18-4	Tetrachloroethene	0.46	0.51	110	70-130	
108-90-7	Chlorobenzene	0.48	0.48	101	70-130	
100-41-4	Ethylbenzene	0.47	0.48	101	70-130	
108-38-3	m,p-Xylene	0.96	0.98	102	70-130	
95-47-6	o-Xylene	0.46	0.46	99	70-130	

		Spike Amt. ppbV	Amount ppbV	% Rec.	QC Limits	Flag * =Out
2037-26-5	Toluene-d8	5.0	4.0	81	70-130	

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL AND DUPLICATE CONTROL SPIKE REPORT

SDG: LABQC
Laboratory Number: QA06062

Analytical Method TO-14

Spike: QC06062 Spike Dup. QC06062DUP
Client:
Client ID S-101201-1 Date Analyzed: 06/06/02
Sam_Type: LCS LCD Dilution Factor: 1.0
QC Batch: 060602-MS1 Method: Full Scan GC/MS

Compound	Theoretical Conc. ppbv	Spike ppbv	Spike Dup. ppbv	% Rec. Spike	% Rec. Spike Dup.	%RPD	% Rec. Limits
Vinyl chloride	0.46	0.66	0.64	142	138	3	70-130
1,1-Dichloroethene	0.63	0.71	0.71	112	112	0	70-140
Methylene chloride	0.55	0.68	0.66	126	121	4	70-130
1,1-Dichloroethane	0.67	0.75	0.71	113	106	6	70-130
Chloroform	0.69	0.76	0.79	110	114	4	70-130
1,1,1-Trichloroethane	0.51	0.58	0.59	115	116	2	70-130
1,2-Dichloroethane	0.50	0.63	0.62	125	124	1	70-130
Benzene	0.59	0.64	0.63	107	107	0	70-130
Carbon tetrachloride	0.51	0.61	0.60	120	118	2	70-130
Trichloroethene	0.66	0.74	0.76	113	116	3	70-130
Toluene	0.53	0.55	0.51	104	95	9	70-130
1,2-Dibromoethane	0.45	0.40	0.46	90	102	13	70-130
Tetrachloroethene	0.46	0.54	0.48	116	104	11	70-130
Chlorobenzene	0.48	0.49	0.44	104	93	11	70-130
Ethylbenzene	0.47	0.51	0.43	107	91	17	70-130
m,p-Xylene	0.96	1.00	0.83	104	86	19	70-130
o-Xylene	0.46	0.44	0.39	95	84	12	70-130

* %RPD QC Limits are <= 30%.

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL AND DUPLICATE CONTROL SPIKE REPORT

SDG: LABQC
Analytical Method TO-14 Laboratory Number: QA06072

Spike: QC06072 Spike Dup. QC06072DUP
Client:
Client ID S-101201-1 Date Analyzed: 06/07/02
Sam_Type: LCS LCD Dilution Factor: 1.0
QC Batch: 060702-MS1 Method: Full Scan GC/MS

Compound	Theoretical Conc ppbv	Spike ppbv	Spike Dup. ppbv	% Rec. Spike	% Rec. Spike Dup.	%RPD	% Rec. Limits
Vinyl chloride	0.46	0.68	0.45	146	96	41	70-130
1,1-Dichloroethene	0.63	0.83	0.56	132	89	39	70-140
Methylene chloride	0.55	0.54	0.47	100	86	15	70-130
1,1-Dichloroethane	0.57	0.62	0.49	93	73	24	70-130
Chloroform	0.69	0.61	0.56	88	81	8	70-130
1,1,1-Trichloroethane	0.51	0.49	0.49	97	96	1	70-130
1,2-Dichloroethane	0.50	0.50	0.47	99	92	7	70-130
Benzene	0.59	0.58	0.53	97	89	8	70-130
Carbon tetrachloride	0.51	0.49	0.54	96	105	9	70-130
Trichloroethene	0.66	0.75	0.80	113	122	7	70-130
Toluene	0.53	0.62	0.64	116	121	4	70-130
1,2-Dibromoethane	0.45	0.44	0.34	98	76	26	70-130
Tetrachloroethene	0.46	0.69	0.73	148	158	6	70-130
Chlorobenzene	0.48	0.54	0.58	114	123	8	70-130
Ethylbenzene	0.47	0.46	0.58	97	123	24	70-130
m,p-Xylene	0.96	0.92	1.15	95	119	22	70-130
o-Xylene	0.46	0.42	0.46	90	98	9	70-130

* %RPD QC Limits are </= 30%.

ENVIRONMENTAL
Analytical Service, Inc

LABORATORY CONTROL AND DUPLICATE CONTROL SPIKE REPORT

SDG: LABQC

Analytical Method TO-14 Laboratory Number: QC06102

Spike: QC06102 Spike Dup. QC06102DUP
Client:
Client ID S-101201-1 Date Analyzed: 06/10/02
Sam_Type: LCS LCD Dilution Factor: 1.0
QC Batch: 061002-MS1 Method: Full Scan GC/MS

Compound	Theoretical Conc. ppbv	Spike ppbv	Spike Dup. ppbv	% Rec. Spike	% Rec. Spike Dup.	%RPD	% Rec. Limits
Vinyl chloride	0.68	0.68	0.64	100	94	5	70-130
1,1-Dichloroethene	0.63	0.69	0.61	109	97	11	70-140
Methylene chloride	0.55	0.60	0.61	110	113	2	70-130
1,1-Dichloroethane	0.67	0.66	0.58	98	87	13	70-130
Chloroform	0.69	0.67	0.58	96	84	13	70-130
1,1,1-Trichloroethane	0.51	0.56	0.57	111	112	1	70-130
1,2-Dichloroethane	0.50	0.57	0.56	113	111	2	70-130
Benzene	0.59	0.62	0.62	105	105	0	70-130
Carbon tetrachloride	0.51	0.53	0.54	104	107	3	70-130
Trichloroethene	0.66	0.77	0.73	117	110	6	70-130
Toluene	0.53	0.55	0.58	103	108	5	70-130
1,2-Dibromoethane	0.45	0.40	0.46	90	103	14	70-130
Tetrachloroethene	0.46	0.53	0.55	115	119	4	70-130
Chlorobenzene	0.48	0.46	0.53	97	112	14	70-130
Ethylbenzene	0.47	0.43	0.51	90	109	19	70-130
m,p-Xylene	0.96	0.90	1.05	94	109	15	70-130
o-Xylene	0.46	0.44	0.49	94	105	10	70-130

* %RPD QC Limits are <= 30%.

V. ANALYTICAL RESULTS

SDG Number: 202246
Client: *Environmental Health Consultants*

The following pages contain the certified reports for the analytical methods and the compounds requested. The reports are in order of analytical method then EAS ID number. A brief description of the units that appear on the reports is given below:

ppbV, ppmV, Percent

Parts per billion by volume (also known as mole ratio) and other related units. This is the primary reporting unit for all volatile organic compound analysis except the hydrocarbon speciation and total hydrocarbons. This unit is independent of temperature and pressure.

$$\text{ppbV} = \frac{\text{nanomoles of compound}}{\text{moles of air}}$$

ug/m3, mg/m3

Micrograms of compound per cubic meter of air and other related units. This is the primary reporting unit for semi volatile organic compounds. It is not a primary reporting unit for volatile organic compounds because it is temperature and pressure dependent, so the result will vary depending on the conditions when the sample was collected. EAS provides the units on its analytical reports as a convenience to the client, but they should be used with caution. The following equation can be used to convert from ppbV to ug/m3.

$$\text{ug/m3} = \frac{\text{ppbV x MW compound}}{23.68}$$

23.68 is the molar volume of a gas at 60 F and 1 atm pressure

ppbC, ppmC

Parts per billion by volume as carbon (methane) and other related units. This unit is the primary reporting unit for hydrocarbon analysis, even if it does not appear on the report. This unit is used because the flame ionization detector response is proportional to the number of carbons in the compound, so an accurate concentration can be reported even if the identification of the compound is not known.

$$\text{ppbC} = \text{ppbV x number of carbons in compound}$$

ENVIRONMENTAL
Analytical Service, Inc

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 01

File:	0224601A.D	Date Sampled:	06/04/02	Time:	
Client:	ENVIRONMENTAL HEALTH CONSULTANTS	Date Received:	06/05/02		
Description:	CM0604-101 CAN# 712 1000ML	Date Analyzed:	06/05/02	Time:	
Sam_Type:	SA	Dilution Factor:	0.76	Can#:	712
QC_Batch:	060502-MS1	Analyst:	KB\SS\KS		

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	0.9	0.4	4.7	
74-87-3	Chloromethane	0.1	1.6	0.2	3.3	
76-14-2	Freon 114	0.1	ND	0.5	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.2	ND	U
74-83-9	Bromomethane	0.1	ND	0.3	ND	U
75-00-3	Chloroethane	0.1	ND	0.2	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.4	0.4	2.4	
75-05-8	Acetonitrile	3.8	ND	6.5	ND	U
67-64-1	Acetone	0.6	7.7	1.5	18.9	
74-88-4	Methyl iodide	0.4	ND	2.3	ND	U
75-35-4	1,1-Dichloroethene	0.1	ND	0.3	ND	U
107-13-1	Acrylonitrile	3.8	ND	8.5	ND	U
76-13-1	Freon 113	0.1	0.2	0.6	1.3	
107-05-1	Allyl chloride	0.4	ND	1.2	ND	U
75-09-2	Methylene chloride	0.1	0.6	0.3	2.0	
75-15-0	Carbon disulfide	0.8	ND	2.4	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.3	ND	U
1634-04-4	Methyl tert butyl ether	0.1	1.6	0.3	6.0	
107-12-0	Propionitrile	3.8	ND	8.8	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.3	ND	U
108-05-4	Vinyl acetate	0.4	ND	1.4	ND	U
78-93-3	2-Butanone	0.4	0.8	1.1	2.4	
78-83-1	Isobutyl alcohol	37.8	ND	118.2	ND	U
126-98-7	Methacrylonitrile	3.8	ND	10.7	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.3	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.4	ND	U
67-66-3	Chloroform	0.1	0.1	0.4	0.5	
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.4	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.3	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.4	ND	U
71-43-2	Benzene	0.1	0.4	0.2	1.4	
56-23-5	Carbon tetrachloride	0.1	0.1	0.5	0.8	
142-82-5	n-Heptane	0.4	0.5	1.6	2.0	
78-87-5	1,2-Dichloropropane	0.1	ND	0.4	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

SDG : 202246

Analytical Method: EPA TO-15 Laboratory Number: 01

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
74-95-3	Dibromomethane	0.1	ND	0.6	ND	U
126-99-8	Trichloroethene	0.1	ND	0.4	ND	U
79-01-6	Bromodichloromethane	0.1	ND	0.4	ND	U
75-27-4	Methyl methacrylate	0.1	ND	0.5	ND	U
80-62-6	4-Methyl-2-pentanone	3.8	ND	16.0	ND	U
108-10-1	cis-1,3-Dichloropropene	0.3	ND	1.3	ND	U
10061-01-5	Toluene	0.1	3.3	0.4	15.6	
108-88-3	trans-1,3-Dichloropropene	0.1	ND	0.3	ND	U
10061-02-6	1,1,2-Trichloroethane	0.1	ND	0.4	ND	U
79-00-5	2-Hexanone	0.1	ND	0.4	ND	U
591-78-6	1,3-Dichloropropane	0.3	ND	1.3	ND	U
142-28-9	Octane	0.1	ND	0.4	ND	U
111-65-9	Dibromochloromethane	0.4	ND	1.8	ND	U
124-48-1	1,2-Dibromoethane	0.1	ND	0.7	ND	U
106-93-4	Tetrachloroethene	0.1	0.1	0.6	0.9	
7-18-4	Chlorobenzene	0.1	ND	0.5	ND	U
3-90-7	1,1,1,2-Tetrachloroethane	0.1	ND	0.4	ND	U
30-20-6	Ethylbenzene	0.8	ND	5.4	ND	U
100-41-4	m & p-Xylene	0.1	0.8	0.3	3.4	
108-38-3	Styrene	0.1	0.2	0.3	0.9	
100-42-5	Bromoform	0.1	ND	0.3	ND	U
75-25-2	o-Xylene	0.2	0.3	1.6	3.1	
95-47-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.3	ND	U
79-34-5	1,2,3-Trichloropropane	0.1	ND	0.5	ND	U
96-18-4	t-1,4-Dichloro-2-butene	3.8	ND	23.5	ND	U
110-57-6	4-Ethyltoluene	3.8	ND	19.9	ND	U
622-96-8	1,3,5-Trimethylbenzene	0.1	0.1	0.4	0.7	
108-67-8	Methylstyrene	0.1	ND	0.4	ND	U
98-83-9	1,2,4-Trimethylbenzene	3.8	ND	18.8	ND	U
95-63-6	1,3-Dichlorobenzene	0.1	ND	0.4	ND	U
541-73-1	Benzyl chloride	0.1	0.1	0.5	0.6	
100-44-7	1,4-Dichlorobenzene	0.1	ND	0.4	ND	U
106-46-7	1,2-Dichlorobenzene	0.1	ND	0.5	ND	U
95-50-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.5	ND	U
96-12-8	1,2,4-Trichlorobenzene	3.8	ND	37.7	ND	U
120-82-1	Napthalene	0.1	ND	0.6	ND	U
91-20-3	Hexachlorobutadiene	0.8	ND	4.1	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

ENVIRONMENTAL
Analytical Service, Inc.

SDG : 202246

Analytical Method: EPA TO-15 Laboratory Number: 01

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
74-95-3	Dibromomethane	0.1	ND	0.6	ND	U
126-99-8	Trichloroethene	0.1	ND	0.4	ND	U
79-01-6	Bromodichloromethane	0.1	ND	0.4	ND	U
75-27-4	Methyl methacrylate	0.1	ND	0.5	ND	U
80-62-6	4-Methyl-2-pentanone	3.8	ND	16.0	ND	U
108-10-1	cis-1,3-Dichloropropene	0.3	ND	1.3	ND	U
10061-01-5	Toluene	0.1	3.3	0.4	15.6	
108-88-3	trans-1,3-Dichloropropene	0.1	ND	0.3	ND	U
10061-02-6	1,1,2-Trichloroethane	0.1	ND	0.4	ND	U
79-00-5	2-Hexanone	0.1	ND	0.4	ND	U
591-78-6	1,3-Dichloropropane	0.3	ND	1.3	ND	U
142-28-9	Octane	0.1	ND	0.4	ND	U
111-65-9	Dibromochloromethane	0.4	ND	1.8	ND	U
124-48-1	1,2-Dibromoethane	0.1	ND	0.7	ND	U
106-93-4	Tetrachloroethene	0.1	0.1	0.6	0.9	
7-18-4	Chlorobenzene	0.1	ND	0.5	ND	U
8-90-7	1,1,1,2-Tetrachloroethane	0.1	ND	0.4	ND	U
30-20-6	Ethylbenzene	0.8	ND	5.4	ND	U
100-41-4	m & p-Xylene	0.1	0.8	0.3	3.4	
108-38-3	Styrene	0.1	0.2	0.3	0.9	
100-42-5	Bromoform	0.1	ND	0.3	ND	U
75-25-2	o-Xylene	0.2	0.3	1.6	3.1	
95-47-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.3	ND	U
79-34-5	1,2,3-Trichloropropane	0.1	ND	0.5	ND	U
96-18-4	t-1,4-Dichloro-2-butene	3.8	ND	23.5	ND	U
110-57-6	4-Ethyltoluene	3.8	ND	19.9	ND	U
622-96-8	1,3,5-Trimethylbenzene	0.1	0.1	0.4	0.7	
108-67-8	Methylstyrene	0.1	ND	0.4	ND	U
98-83-9	1,2,4-Trimethylbenzene	3.8	ND	18.8	ND	U
95-63-6	1,3-Dichlorobenzene	0.1	ND	0.4	ND	U
541-73-1	Benzyl chloride	0.1	0.1	0.5	0.6	
100-44-7	1,4-Dichlorobenzene	0.1	ND	0.4	ND	U
106-46-7	1,2-Dichlorobenzene	0.1	ND	0.5	ND	U
95-50-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.5	ND	U
96-12-8	1,2,4-Trichlorobenzene	3.8	ND	37.7	ND	U
120-82-1	Napthalene	0.1	ND	0.6	ND	U
91-20-3	Hexachlorobutadiene	0.8	ND	4.1	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

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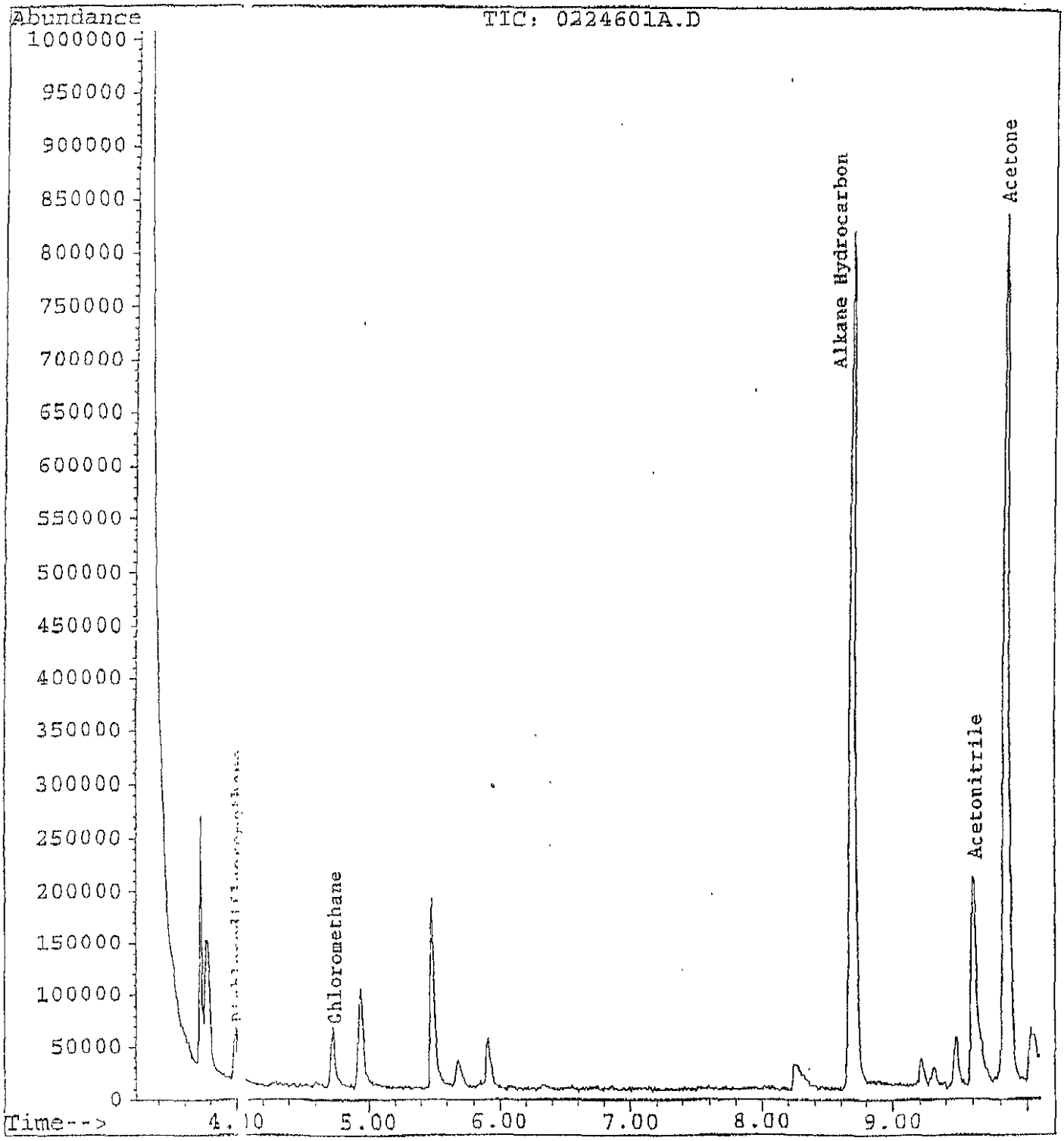
Sample Name: CM0304-101
Misc Info : EHC: CAN #712 1000mL
Vial Number: 1



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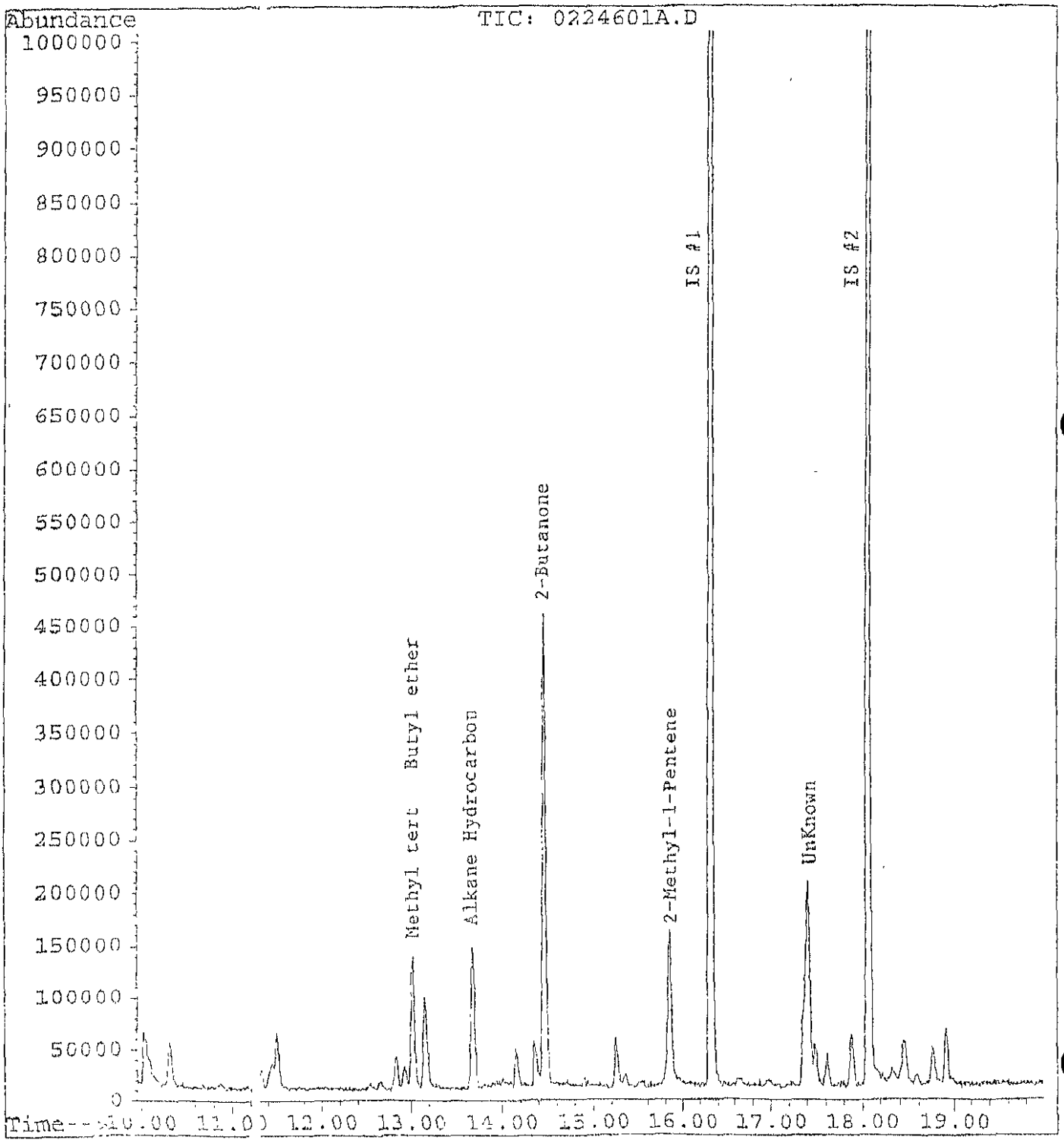
Operator : KB\SS\KS
Acquired : 5 Jun 102 7:02 pm using AcqMethod TO15.M
Instrument : 59 0 - In
Sample Name: CM06:4-101
Misc Info : EHCI CAN #712 1000mL
Vial Number: 1



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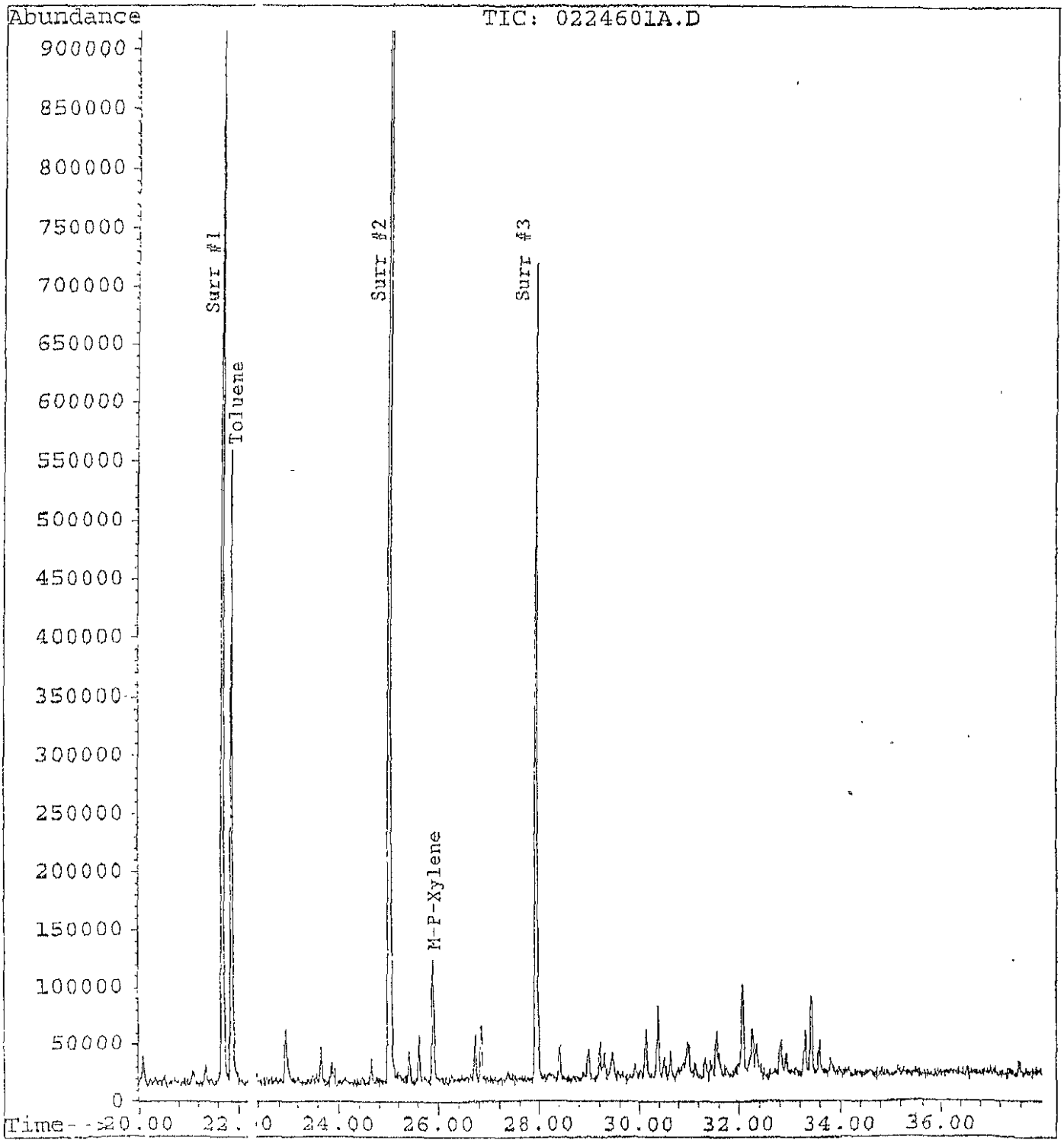
Operator : KB\SS\KS
Acquired : 5 Jun 102 7:02 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-101
Misc Info : EHCI CAN #712 1000mL
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 02

File: 0224602A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HE LTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-104 CAN# 161 1000ML Date Analyzed: 06/05/02 Time:
Sam_Type: SA Dilution Factor: 0.58 Can#: 161
QC_Batch: 060502-MS1 Analyst: KB\SS\KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluorometh ne	0.1	1.9	0.3	9.6	
74-87-3	Chloromethane	0.1	0.9	0.1	2.0	
76-14-2	Freon 114	0.1	ND	0.4	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.2	ND	U
74-83-9	Bromomethane	0.1	ND	0.2	ND	U
75-00-3	Chloroethane	0.1	ND	0.2	ND	U
75-69-4	Trichlorofluoromethane	0.1	8.3	0.3	48.4	
75-05-8	Acetonitrile	2.9	ND	5.0	ND	U
67-64-1	Acetone	0.5	16.3	1.1	40.0	
74-88-4	Methyl iodide	0.3	ND	1.7	ND	U
5-4	1,1-Dichloroethene	0.1	ND	0.2	ND	U
-13-1	Acrylonitrile	2.9	ND	6.5	ND	U
13-1	Freon 113	0.1	0.2	0.5	1.3	
107-05-1	Allyl chloride	0.3	ND	0.9	ND	U
75-09-2	Methylene chloride	0.1	0.3	0.2	1.0	
75-15-0	Carbon disulfide	0.6	ND	1.9	ND	U
156-60-5	trans-1,2-Dichloroeth ene	0.1	ND	0.2	ND	U
1634-04-4	Methyl tert butyl ethe	0.1	2.6	0.2	9.7	
107-12-0	Propionitrile	2.9	ND	6.7	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.2	ND	U
108-05-4	Vinyl acetate	0.3	ND	1.1	ND	U
78-93-3	2-Butanone	0.3	0.7	0.9	2.3	
78-83-1	Isobutyl alcohol	29.0	ND	90.8	ND	U
126-98-7	Methacrylonitrile	2.9	ND	8.2	ND	U
156-59-2	cis-1,2-Dichloroether e	0.1	ND	0.2	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.3	ND	U
67-66-3	Chloroform	0.1	0.1	0.3	0.5	
71-55-6	1,1,1-Trichloroethan	0.1	0.1	0.3	0.4	
107-06-2	1,2-Dichloroethane	0.1	0.1	0.2	0.2	
563-58-6	1,1-Dichloropropene	0.1	ND	0.3	ND	U
71-43-2	Benzene	0.1	0.5	0.2	1.7	
56-23-5	Carbon tetrachloride	0.1	0.1	0.4	0.8	
142-82-5	n-Heptane	0.3	0.5	1.2	2.1	
78-87-5	1,2-Dichloropropane	0.1	ND	0.3	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

SDG : 202246

Analytical Method: EPA TO-15 Laboratory Number: 02

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
74-95-3	Dibromomethane	0.1	ND	0.4	ND	U
126-99-8	Trichloroethene	0.1	ND	0.3	ND	U
79-01-6	Bromodichloromethane	0.1	ND	0.3	ND	U
75-27-4	Methyl methacrylate	0.1	ND	0.4	ND	U
80-62-6	4-Methyl-2-pentanone	2.9	ND	12.3	ND	U
108-10-1	cis-1,3-Dichloropropene	0.2	ND	1.0	ND	U
10061-01-5	Toluene	0.1	1.5	0.3	7.0	
108-88-3	trans-1,3-Dichloropropene	0.1	ND	0.2	ND	U
10061-02-6	1,1,2-Trichloroethane	0.1	ND	0.3	ND	U
79-00-5	2-Hexanone	0.1	ND	0.3	ND	U
591-78-6	1,3-Dichloropropane	0.2	ND	1.0	ND	U
142-28-9	Octane	0.1	ND	0.3	ND	U
111-65-9	Dibromochloromethane	0.3	ND	1.4	ND	U
124-48-1	1,2-Dibromoethane	0.1	ND	0.5	ND	U
06-93-4	Tetrachloroethene	0.1	0.1	0.5	0.6	
18-4	Chlorobenzene	0.1	ND	0.4	ND	U
-90-7	1,1,1,2-Tetrachloroethane	0.1	ND	0.3	ND	U
0-20-6	Ethylbenzene	0.6	ND	4.1	ND	U
100-41-4	m & p-Xylene	0.1	0.7	0.3	3.4	
108-38-3	Styrene	0.1	0.1	0.3	0.3	
100-42-5	Bromoform	0.1	ND	0.3	ND	U
75-25-2	o-Xylene	0.1	0.3	1.2	2.8	
95-47-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.3	ND	U
79-34-5	1,2,3-Trichloropropane	0.1	ND	0.4	ND	U
96-18-4	t-1,4-Dichloro-2-butene	2.9	ND	18.1	ND	U
110-57-6	4-Ethyltoluene	2.9	ND	15.3	ND	U
622-96-8	1,3,5-Trimethylbenzene	0.1	0.1	0.3	0.4	
108-67-8	Methylstyrene	0.1	ND	0.3	ND	U
98-83-9	1,2,4-Trimethylbenzene	2.9	ND	14.5	ND	U
95-63-6	1,3-Dichlorobenzene	0.1	ND	0.3	ND	U
541-73-1	Benzyl chloride	0.1	0.1	0.4	0.4	
100-44-7	1,4-Dichlorobenzene	0.1	ND	0.3	ND	U
106-46-7	1,2-Dichlorobenzene	0.1	ND	0.4	ND	U
95-50-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.4	ND	U
96-12-8	1,2,4-Trichlorobenzene	2.9	ND	28.9	ND	U
120-82-1	Napthalene	0.1	ND	0.4	ND	U
91-20-3	Hexachlorobutadiene	0.6	ND	3.1	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

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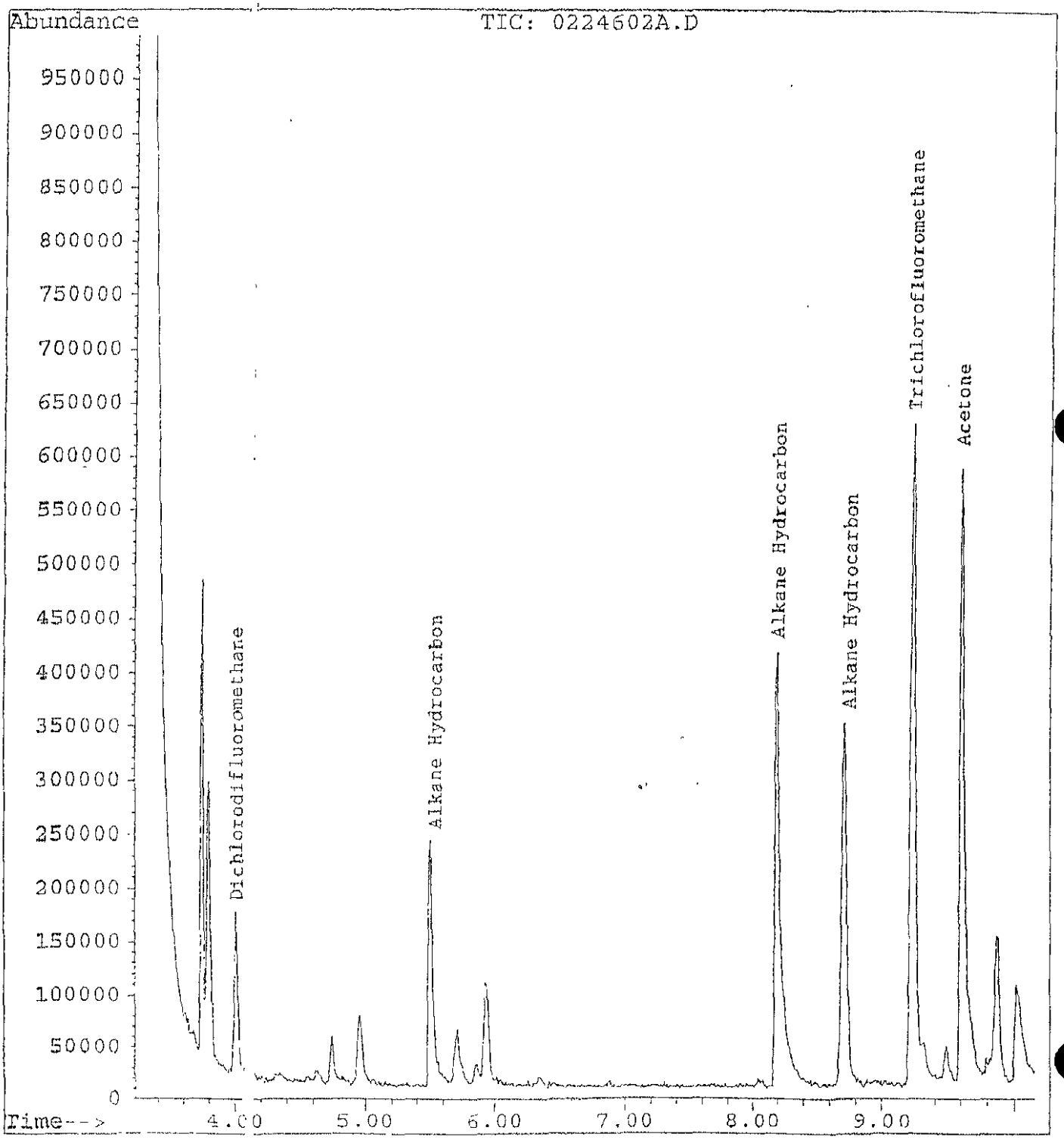
Operator : KB\SS\KS
Acquired : 5 Jun 102 7:46 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-104
Misc Info : EHCI CAN #161 1000mL
Vial Number: 1



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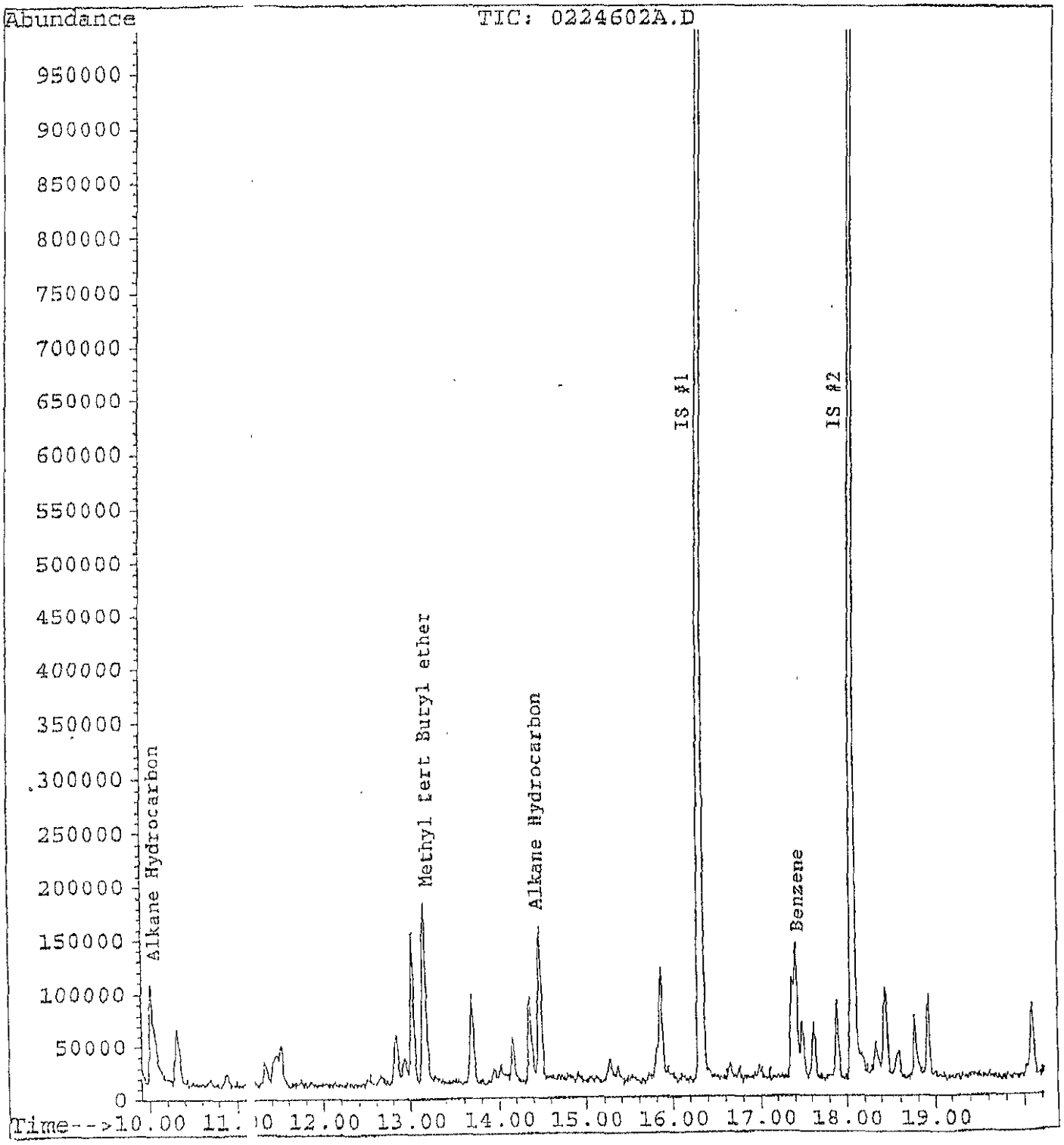
Operator : KB\SS\KS
Acquired : 5 Jun 102 7:46 pm using AcqMethod TO15.M
Instrument : 5570 - In
Sample Name: CM0604-104
Misc Info : EHCI CAN #161 1000mL
Vial Number: 1



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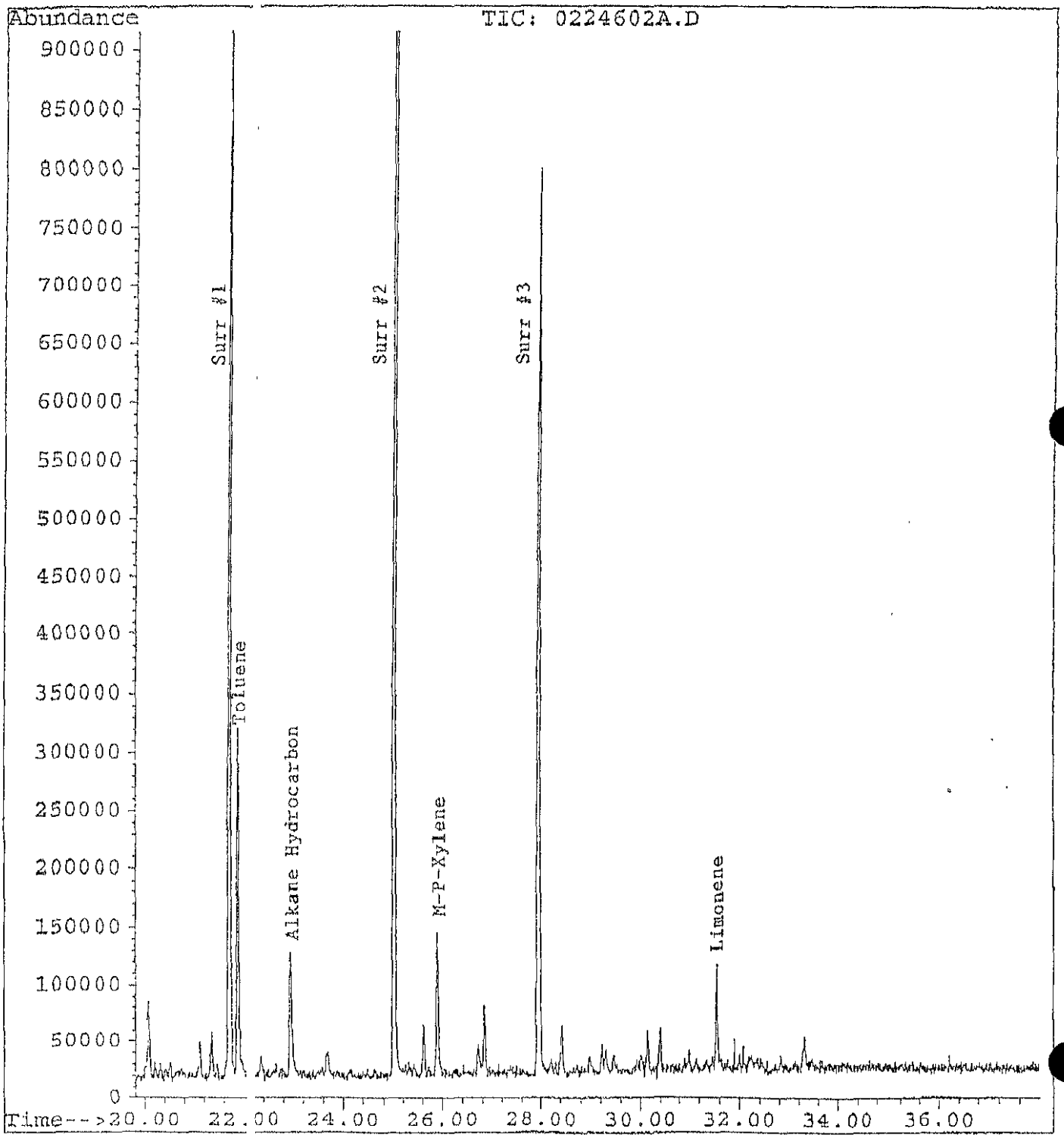
Operator : KB\SS\KS
Acquired : 5 Jun 102 7:46 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-104
Misc Info : EHCI CAN #161 1000mL
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 03

File:	0224603A.D	Date Sampled:	06/04/02	Time:	
Client:	ENVIRONMENTAL HEALTH CONSULTANTS	Date Received:	06/05/02		
Description:	CM0604-105 CAN#668 1000ML	Date Analyzed:	06/05/02	Time:	
Sam_Type:	SA	Dilution Factor:	0.78	Can#:	668
QC_Batch:	060502-MS1	Analyst:	KB\SS\KS		

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	1.4	0.4	7.1	
74-87-3	Chloromethane	0.1	0.9	0.2	1.9	
76-14-2	Freon 114	0.1	ND	0.6	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.2	ND	U
74-83-9	Bromomethane	0.1	ND	0.3	ND	U
75-00-3	Chloroethane	0.1	ND	0.2	ND	U
75-69-4	Trichlorofluoromethane	0.1	6.9	0.4	40.1	
75-05-8	Acetonitrile	3.9	13.1	6.7	22.7	
67-64-1	Acetone	0.6	15.3	1.5	37.5	
74-88-4	Methyl iodide	0.4	ND	2.3	ND	U
75-35-4	1,1-Dichloroethene	0.1	ND	0.3	ND	U
107-13-1	Acrylonitrile	3.9	ND	8.7	ND	U
76-13-1	Freon 113	0.1	0.1	0.6	1.2	
107-05-1	Allyl chloride	0.4	ND	1.3	ND	U
75-09-2	Methylene chloride	0.1	0.9	0.3	3.4	
75-15-0	Carbon disulfide	0.8	1.3	2.5	4.0	
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.3	ND	U
1634-04-4	Methyl tert butyl ether	0.1	1.5	0.3	5.7	
107-12-0	Propionitrile	3.9	ND	9.0	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.3	ND	U
108-05-4	Vinyl acetate	0.4	0.4	1.4	1.6	
78-93-3	2-Butanone	0.4	0.8	1.2	2.4	
78-83-1	Isobutyl alcohol	38.8	ND	121.3	ND	U
126-98-7	Methacrylonitrile	3.9	ND	11.0	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.3	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.4	ND	U
67-66-3	Chloroform	0.1	0.1	0.4	0.5	
71-55-6	1,1,1-Trichloroethane	0.1	0.1	0.4	0.6	
107-06-2	1,2-Dichloroethane	0.1	ND	0.3	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.4	ND	U
71-43-2	Benzene	0.1	0.8	0.3	2.5	
56-23-5	Carbon tetrachloride	0.1	0.1	0.5	0.8	
142-82-5	n-Heptane	0.4	1.5	1.6	6.5	
78-87-5	1,2-Dichloropropane	0.1	ND	0.4	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

SDG . 202246

Analytical Method EPA TO-15 Laboratory Number: 03

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
74-95-3	Dibromomethane	0.1	ND	0.6	ND	U
126-99-8	Trichloroethene	0.1	ND	0.4	ND	U
79-01-6	Bromodichloromethane	0.1	ND	0.4	ND	U
75-27-4	Methyl methacrylate	0.1	1.5	0.5	10.5	
80-62-6	4-Methyl-2-pentanone	3.9	ND	16.4	ND	U
108-10-1	cis-1,3-Dichloropropene	0.3	ND	1.3	ND	U
10061-01-5	Toluene	0.1	5.5	0.4	25.9	
108-88-3	trans-1,3-Dichloropropene	0.1	ND	0.3	ND	U
10061-02-6	1,1,2-Trichloroethane	0.1	ND	0.4	ND	U
79-00-5	2-Hexanone	0.1	ND	0.4	ND	U
591-78-6	1,3-Dichloropropane	0.3	ND	1.3	ND	U
142-28-9	Octane	0.1	ND	0.4	ND	U
111-65-9	Dibromochloromethane	0.4	ND	1.9	ND	U
124-48-1	1,2-Dibromoethane	0.1	ND	0.7	ND	U
106-93-4	Tetrachloroethene	0.1	0.1	0.6	0.7	
7-18-4	Chlorobenzene	0.1	ND	0.5	ND	U
08-90-7	1,1,1,2-Tetrachloroethane	0.1	ND	0.4	ND	U
630-20-6	Ethylbenzene	0.8	ND	5.5	ND	U
100-41-4	m & p-Xylene	0.1	2.1	0.3	9.6	
108-38-3	Styrene	0.1	0.2	0.3	1.1	
100-42-5	Bromoform	0.1	ND	0.3	ND	U
75-25-2	o-Xylene	0.2	0.8	1.7	8.5	
95-47-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.3	ND	U
79-34-5	1,2,3-Trichloropropane	0.1	ND	0.5	ND	U
96-18-4	t-1,4-Dichloro-2-butene	3.9	ND	24.1	ND	U
110-57-6	4-Ethyltoluene	3.9	ND	20.5	ND	U
622-96-8	1,3,5-Trimethylbenzene	0.1	0.2	0.4	0.9	
108-67-8	Methylstyrene	0.1	ND	0.4	ND	U
98-83-9	1,2,4-Trimethylbenzene	3.9	ND	19.3	ND	U
95-63-6	1,3-Dichlorobenzene	0.1	ND	0.4	ND	U
541-73-1	Benzyl chloride	0.1	0.2	0.5	1.0	
100-44-7	1,4-Dichlorobenzene	0.1	ND	0.4	ND	U
106-46-7	1,2-Dichlorobenzene	0.1	ND	0.5	ND	U
96-50-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.5	ND	U
96-12-8	1,2,4-Trichlorobenzene	3.9	ND	38.7	ND	U
120-82-1	Napthalene	0.1	ND	0.8	ND	U
91-20-3	Hexachlorobutadiene	0.8	ND	4.2	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

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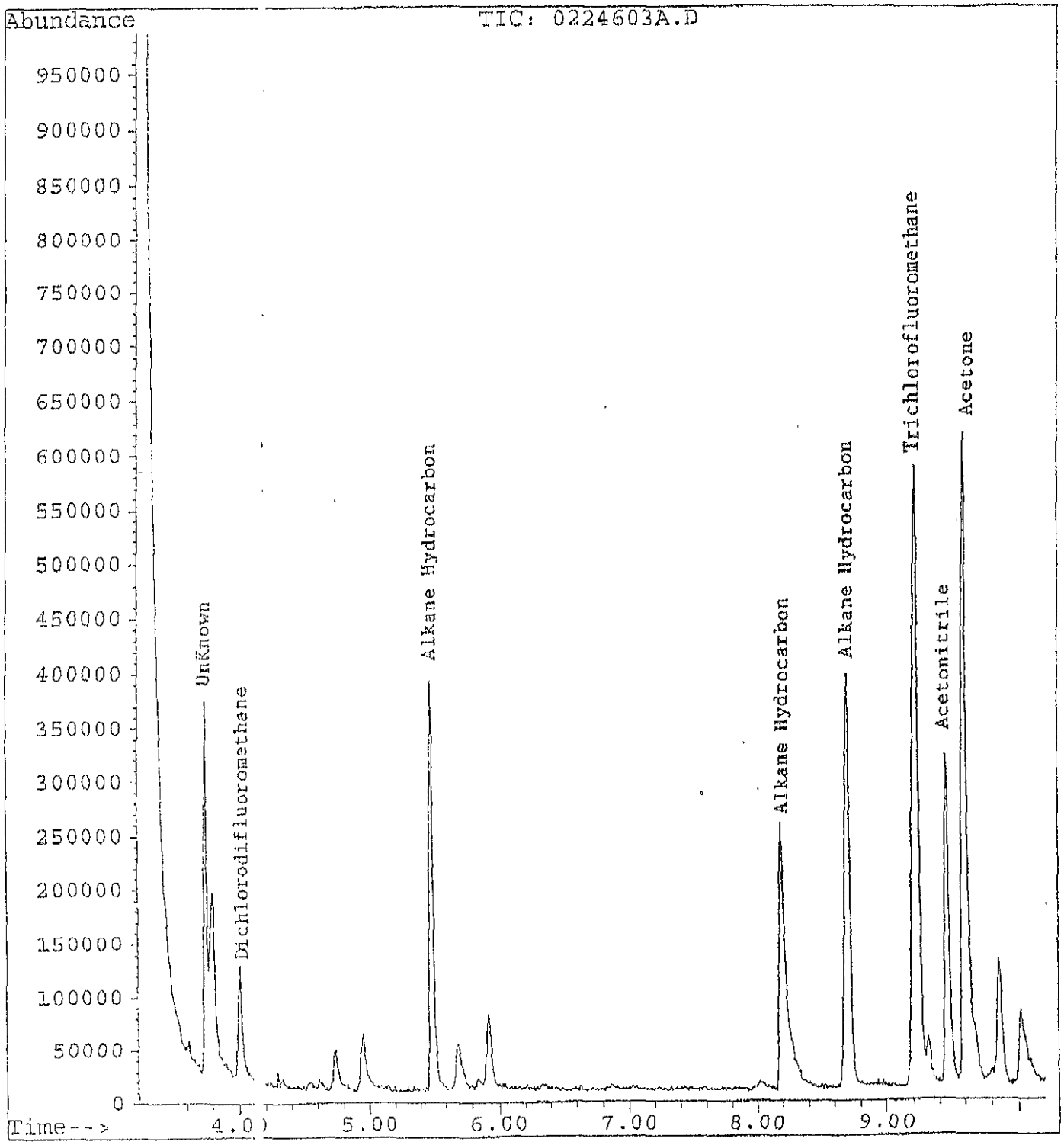
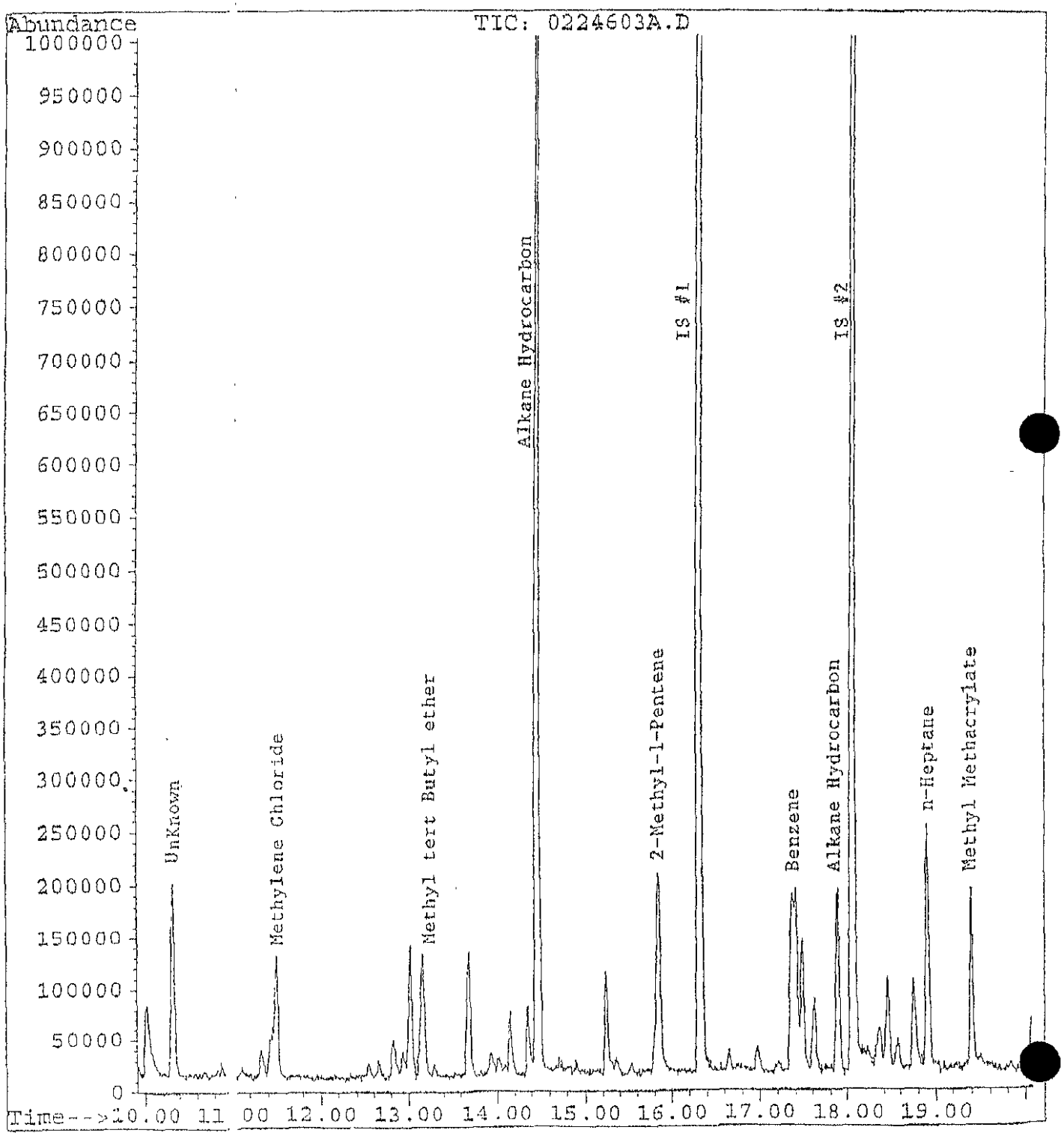
Operator : KB\SS\KS
Acquired : 5 Jun 102 8:33 pm using AcqMethod TO15.M
Instrument : 59'0 - In
Sample Name: CM06(4-105
Misc Info : EHCI CAN #668 1000mL
Vial Number: 1



File : C:\MSCHEM\1\DATA\06052MS1\0224603A.D
Operator : KB\SS\KS
Acquired : 5 Jun 102 8:33 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM604-105
Misc Info : EHCI CAN #668 1000mL
Vial Number: 1



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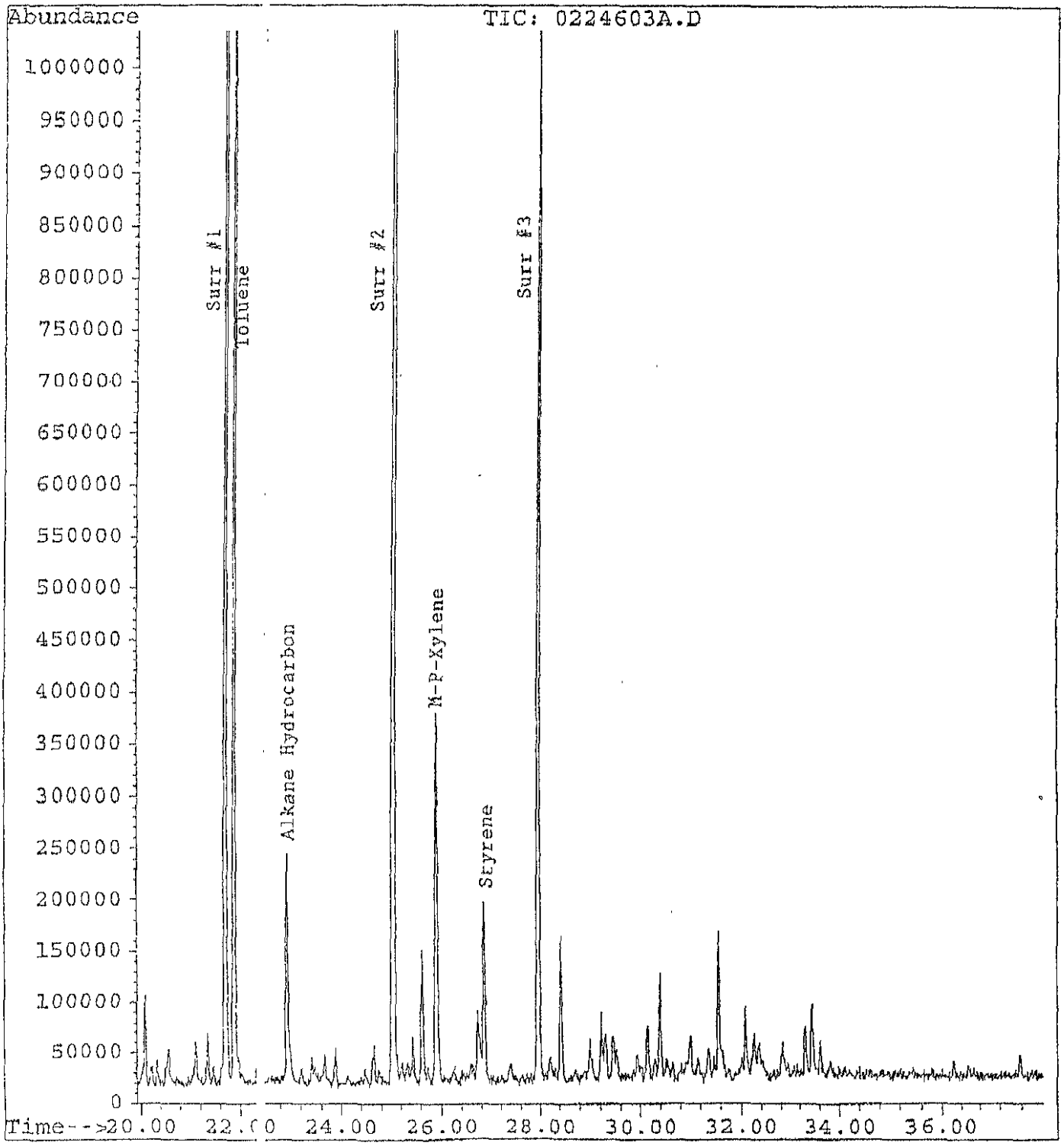
Operator : KB\SS\KS
Acquired : 5 Jun 102 8:33 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-105
Misc Info : EHCI CAN #668 1000mL
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 04

File: 0224604A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-106 CAN# 78 1000ML Date Analyzed: 06/05/02 Time:
Sam_Type: SA Dilution Factor: 0.64 Can#: 178
QC_Batch: 060502-MS1 Analyst: KB\SS\KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	2.3	0.3	11.8	
74-87-3	Chloromethane	0.1	1.4	0.1	3.0	
76-14-2	Freon 114	0.1	0.1	0.5	0.5	
75-01-4	Vinyl chloride	0.1	ND	0.2	ND	U
74-83-9	Bromomethane	0.1	ND	0.3	ND	U
75-00-3	Chloroethane	0.1	ND	0.2	ND	U
75-69-4	Trichlorofluoromethane	0.1	10.9	0.4	63.4	
75-05-8	Acetonitrile	3.2	8.1	5.5	14.0	
67-64-1	Acetone	0.5	17.4	1.2	42.8	
74-88-4	Methyl iodide	0.3	ND	1.9	ND	U
75-35-4	1,1-Dichloroethene	0.1	ND	0.3	ND	U
107-13-1	Acrylonitrile	3.2	ND	7.1	ND	U
76-13-1	Freon 113	0.1	0.2	0.5	1.3	
107-05-1	Allyl chloride	0.3	ND	1.0	ND	U
75-09-2	Methylene chloride	0.1	0.5	0.2	1.8	
75-15-0	Carbon disulfide	0.6	0.8	2.0	2.5	
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.3	ND	U
1634-04-4	Methyl tert butyl ether	0.1	2.0	0.2	7.6	
107-12-0	Propionitrile	3.2	ND	7.4	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.3	ND	U
108-05-4	Vinyl acetate	0.3	ND	1.2	ND	U
78-93-3	2-Butanone	0.3	ND	1.0	ND	U
78-83-1	Isobutyl alcohol	31.8	ND	99.4	ND	U
126-98-7	Methacrylonitrile	3.2	ND	9.0	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.3	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.3	ND	U
67-66-3	Chloroform	0.1	0.1	0.3	0.5	
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.4	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.3	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.3	ND	U
71-43-2	Benzene	0.1	0.2	0.2	0.7	
56-23-5	Carbon tetrachloride	0.1	0.1	0.4	0.5	
142-82-5	n-Heptane	0.3	0.4	1.3	1.9	
78-87-5	1,2-Dichloropropane	0.1	ND	0.3	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

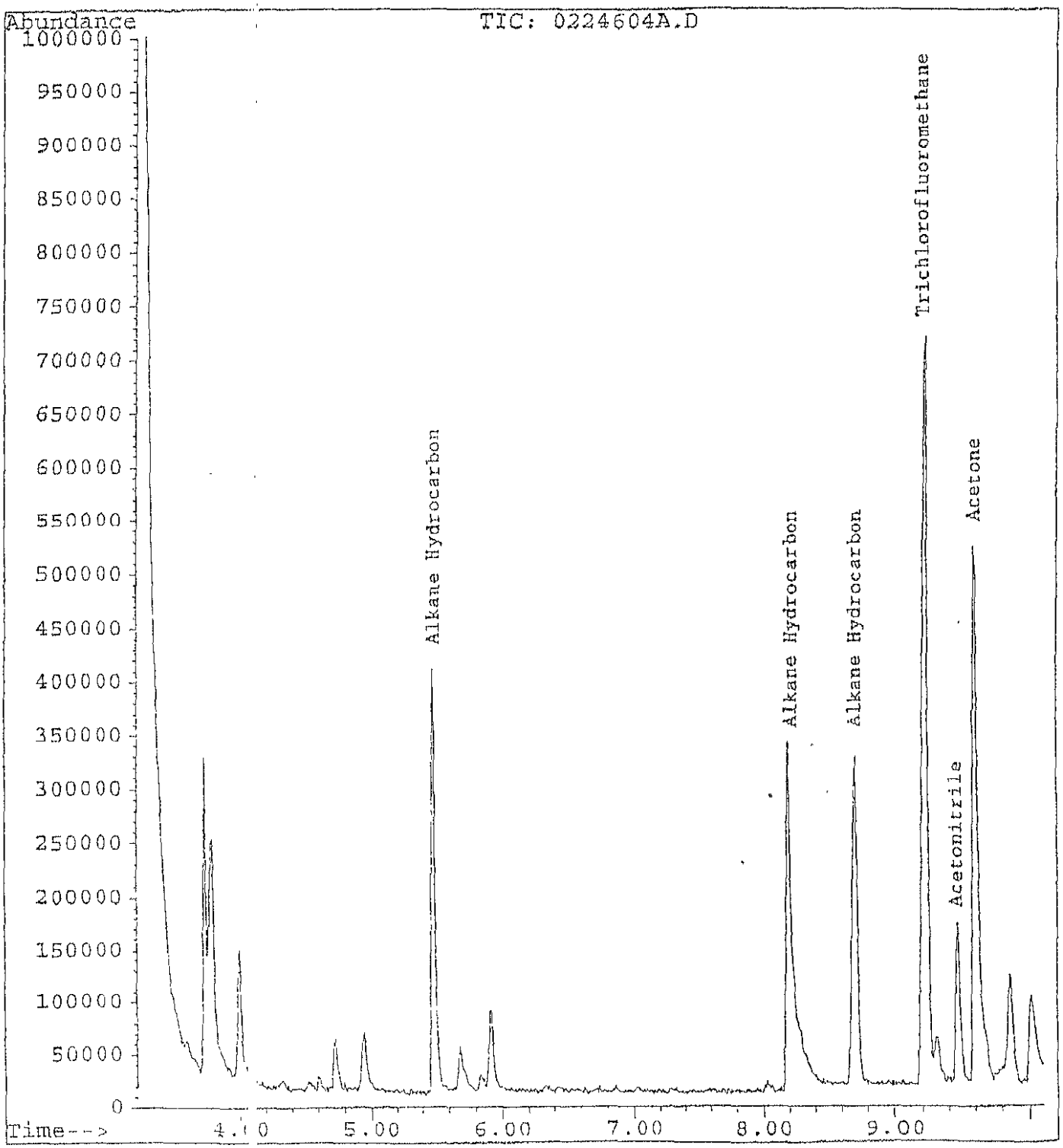
SDG : 202246

Analytical Method: EPA TO-15 Laboratory Number: 04

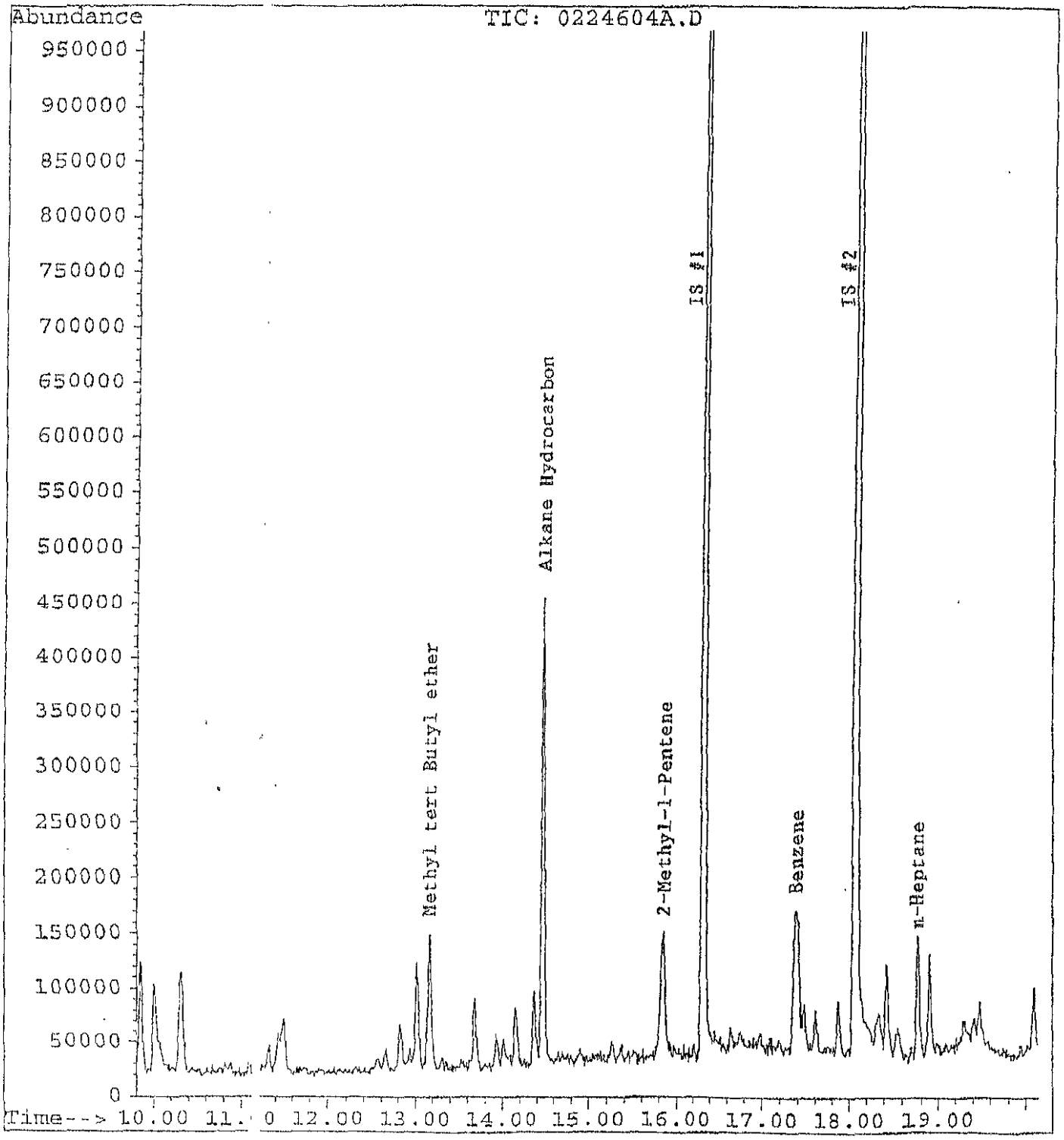
	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
74-95-3	Dibromomethane	0.1	ND	0.5	ND	U
126-99-8	Trichloroethene	0.1	ND	0.4	ND	U
79-01-6	Bromodichloromethane	0.1	ND	0.4	ND	U
75-27-4	Methyl methacrylate	0.1	0.1	0.4	1.0	
80-62-6	4-Methyl-2-pentanone	3.2	ND	13.4	ND	U
108-10-1	cis-1,3-Dichloropropene	0.3	ND	1.1	ND	U
10061-01-5	Toluene	0.1	1.9	0.3	8.7	
108-88-3	trans-1,3-Dichloropropene	0.1	ND	0.2	ND	U
10061-02-6	1,1,2-Trichloroethane	0.1	ND	0.3	ND	U
79-00-5	2-Hexanone	0.1	2.3	0.4	13.2	
591-78-6	1,3-Dichloropropane	0.3	ND	1.1	ND	U
142-28-9	Octane	0.1	0.1	0.3	0.6	
111-65-9	Dibromochloromethane	0.3	ND	1.5	ND	U
124-48-1	1,2-Dibromoethane	0.1	ND	0.6	ND	U
106-93-4	Tetrachloroethene	0.1	0.1	0.5	0.9	
7-18-4	Chlorobenzene	0.1	ND	0.4	ND	U
08-90-7	1,1,1,2-Tetrachloroethane	0.1	0.1	0.3	0.3	
630-20-6	Ethylbenzene	0.6	ND	4.5	ND	U
100-41-4	m & p-Xylene	0.1	1.0	0.3	4.4	
108-38-3	Styrene	0.1	0.2	0.3	0.9	
100-42-5	Bromoform	0.1	0.1	0.3	0.4	
75-25-2	o-Xylene	0.1	0.3	1.4	3.6	
95-47-6	1,1,2,2-Tetrachloroethane	0.1	0.1	0.3	0.4	
79-34-5	1,2,3-Trichloropropane	0.1	0.1	0.5	0.5	
96-18-4	t-1,4-Dichloro-2-butene	3.2	ND	19.8	ND	U
110-57-6	4-Ethyltoluene	3.2	ND	18.8	ND	U
622-96-8	1,3,5-Trimethylbenzene	0.1	0.2	0.3	1.0	
108-67-8	Methylstyrene	0.1	0.1	0.3	0.3	
98-83-9	1,2,4-Trimethylbenzene	3.2	ND	15.8	ND	U
95-63-6	1,3-Dichlorobenzene	0.1	0.2	0.3	1.0	
541-73-1	Benzyl chloride	0.1	0.8	0.4	4.8	
100-44-7	1,4-Dichlorobenzene	0.1	0.3	0.3	1.6	
106-46-7	1,2-Dichlorobenzene	0.1	0.2	0.4	1.2	
95-50-1	1,2-Dibromo-3-chloropropane	0.1	0.8	0.4	4.7	
96-12-8	1,2,4-Trichlorobenzene	3.2	ND	31.7	ND	U
120-82-1	Napthalene	0.1	1.4	0.5	10.6	
91-20-3	Hexachlorobutadiene	0.6	ND	3.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

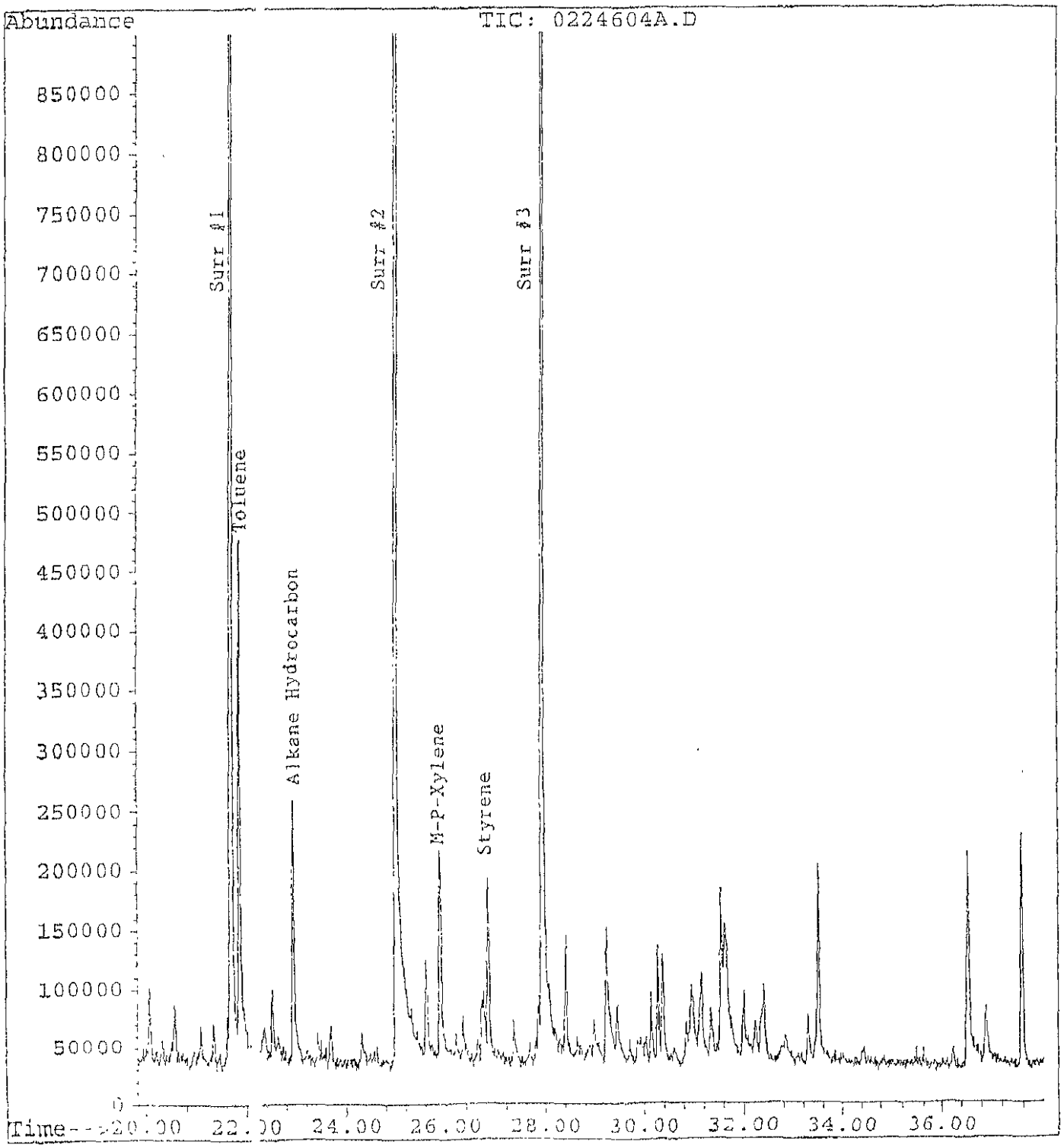
File : C:\MSCHEM\1\DATA\06052MS1\0224604A.D
Operator : KB\SS\KS
Acquired : 5 Jun 102 9:24 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-106
Misc Info : EHCI CAN #178 1000mL
Vial Number: 1



File : C:\MSCHEM\1\DATA\06052MS1\0224604A.D
Operator : KB\SS\KS
Acquired : 5 Jun 102 9:24 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-106
Misc Info : EHCI CAN #178 1000mL
Vial Number: 1



File : C:\MS-CHEM\1\DATA\06052MS1\0224604A.D
Operator : KB\SS\KS
Acquired : 5 Jun 102 9:24 pm using AcqMethod TO15.M
Instrument : 59'0 - In
Sample Name: CM06 4-106
Misc Info : EHCI CAN #178 1000mL
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG. 202246

Analytical Method: EPA TO-15 Laboratory Number: 05

File: 0224605B.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-107 CAN# 184 500ML Date Analyzed: 06/06/02 Time:
Sam_Type: SA Dilution Factor: 1.18 Can#: 184
QC_Batch: 060602-MS1 Analyst: KB\SS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	1.3	0.6	6.9	
74-87-3	Chloromethane	0.1	0.6	0.3	1.4	
76-14-2	Freon 114	0.1	ND	0.9	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.5	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.7	0.7	4.3	
75-05-8	Acetonitrile	5.9	ND	10.2	ND	U
67-64-1	Acetone	0.9	1.9	2.3	4.6	
4227-95-6	Methyl iodide	0.6	ND	3.5	ND	U
7[illegible]-4	1,1-Dichloroethene	0.1	ND	0.5	ND	U
[illegible]13-1	Acrylonitrile	5.9	ND	13.2	ND	U
76-13-1	Freon 113	0.1	ND	0.9	ND	U
107-05-1	Allyl chloride	0.6	ND	1.9	ND	U
75-09-2	Methylene chloride	0.1	0.1	0.4	0.4	
75-15-0	Carbon disulfide	1.2	ND	3.8	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.5	ND	U
1634-04-4	Methyl tert butyl ether	0.1	ND	0.4	ND	U
107-12-0	Propionitrile	5.9	ND	13.7	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.5	ND	U
108-05-4	Vinyl acetate	0.6	ND	2.1	ND	U
78-93-3	2-Butanone	0.6	ND	1.8	ND	U
78-83-1	Isobutyl alcohol	59.0	ND	184.7	ND	U
126-98-7	Methacrylonitrile	5.9	ND	16.7	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.5	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.6	ND	U
67-66-3	Chloroform	0.1	ND	0.6	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.7	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.5	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.6	ND	U
71-43-2	Benzene	0.1	ND	0.4	ND	U
56-23-5	Carbon tetrachloride	0.1	ND	0.8	ND	U
142-82-5	n-Heptane	0.6	ND	2.5	ND	U
78-87-5	1,2 Dichloropropane	0.1	ND	0.6	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

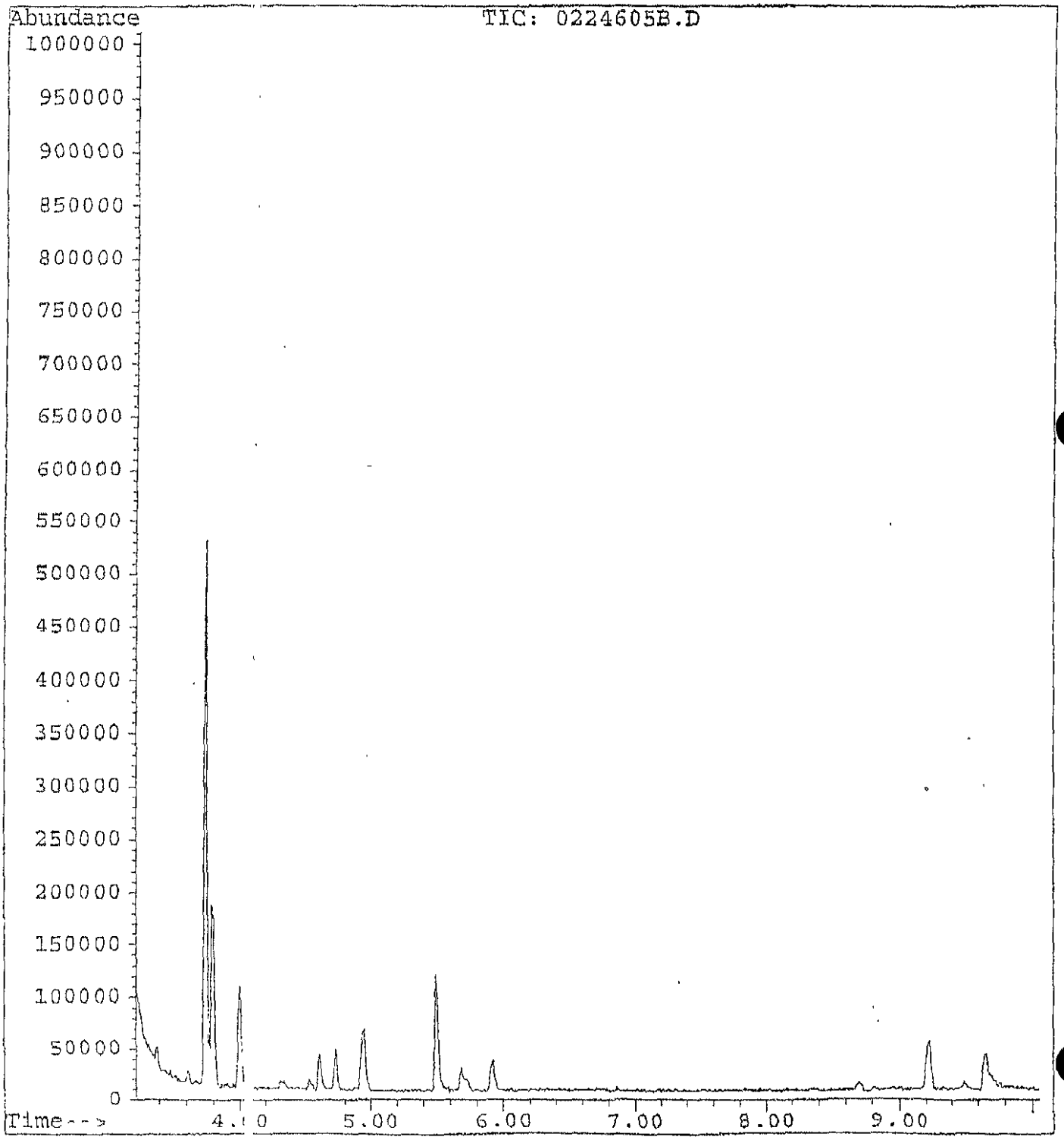
SDG : 202246

EPA TO-15 Laboratory Number: 05

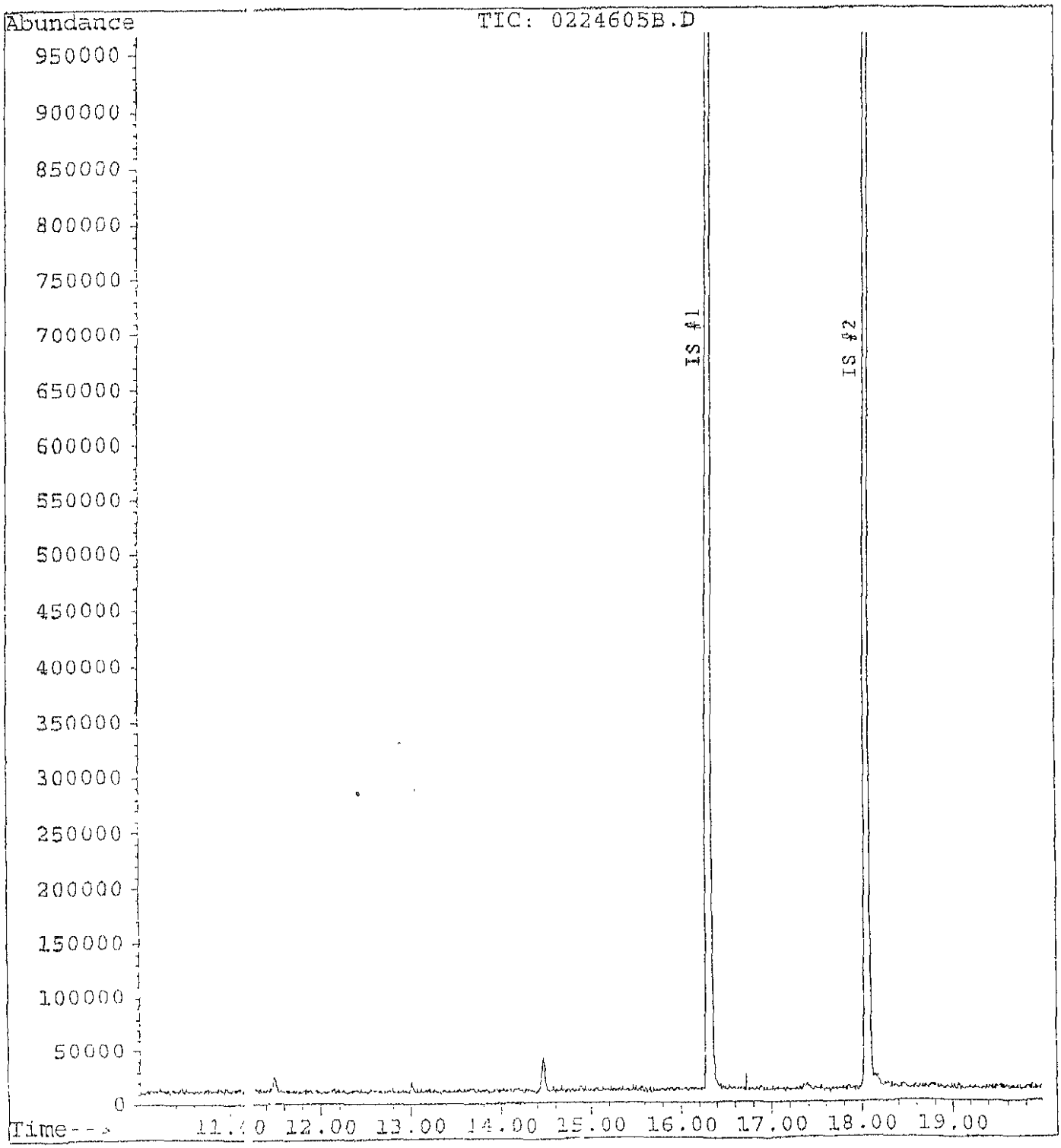
	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	0.9	ND	U
80-62-6	Trichloroethene	0.1	ND	0.7	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.7	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.8	ND	U
108-88-3	4-Methyl-2-pentanon	5.9	ND	24.9	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.5	ND	2.0	ND	U
79-00-5	Toluene	0.1	0.2	0.6	0.8	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.5	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.6	ND	U
111-65-9	2-Hexanone	0.1	ND	0.7	ND	U
124-48-1	1,3-Dichloropropane	0.5	ND	2.0	ND	U
106-93-4	Octane	0.1	ND	0.6	ND	U
127-18-4	Dibromochloromethane	0.6	ND	2.8	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	1.0	ND	U
-20-6	Tetrachloroethene	0.1	0.2	0.9	1.3	
U-41-4	Chlorobenzene	0.1	ND	0.8	ND	U
8-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.6	ND	U
108-94-1	Ethylbenzene	1.2	ND	8.4	ND	U
100-42-5	m & p-Xylene	0.1	0.1	0.5	0.6	
95-47-6	Styrene	0.1	ND	0.5	ND	U
79-34-5	Bromoform	0.1	ND	0.5	ND	U
96-18-4	o-Xylene	0.2	ND	2.5	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.5	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.8	ND	U
98-82-8	t-1,4-Dichloro-2-butene	5.9	ND	36.7	ND	U
98-83-9	4-Ethyltoluene	5.9	ND	31.1	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.6	ND	U
95-63-6	Methylstyrene	0.1	ND	0.6	ND	U
541-73-1	1,2,4-Trimethylbenzene	5.9	ND	29.4	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.6	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.7	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.6	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.7	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.7	ND	U
87-68-3	1,2,4-Trichlorobenzene	5.9	ND	58.9	ND	U
87-61-6	Napthalene	0.1	ND	0.9	ND	U
87-68-3	Hexachlorobutadiene	1.2	ND	6.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

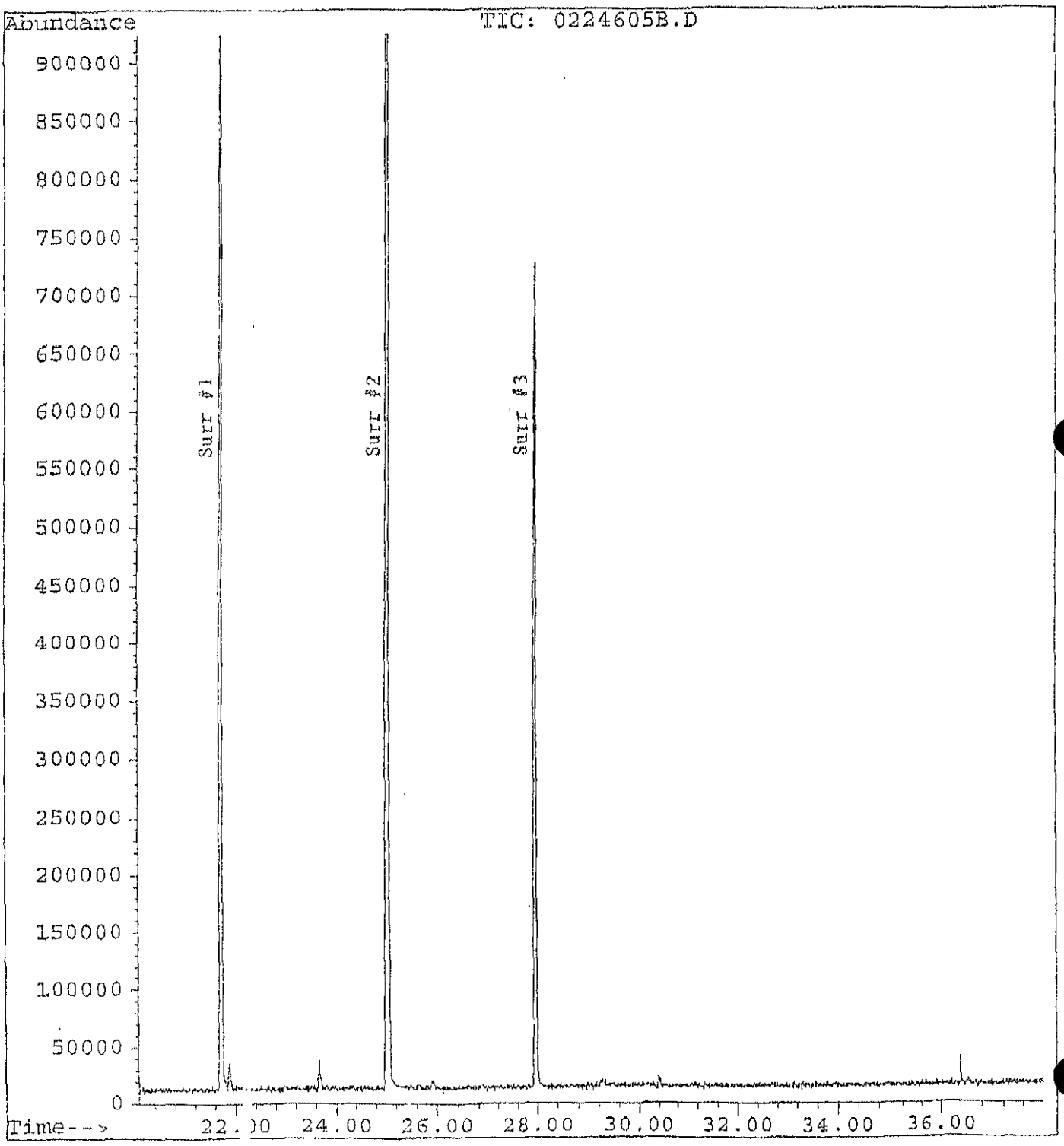
File : C:\MSCHEM\1\DATA\06062MS1\0224605B.D
Operator : KB\SB
Acquired : 6 Jun 102 4:13 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-107 CAN# 184 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06062MS1\0224605B.D
Operator : KB\SS
Acquired : 6 Jun 102 4:13 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-107 CAN# 184 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06062MS1\0224605B.D
Operator : KB\SS
Acquired : 6 Jun 102 4:13 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-107 CAN# 184 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 06

File: 0224606A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HE LTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-109 CAN# 7 1 500ML Date Analyzed: 06/06/02 Time:
Sam_Type: SA Dilution Factor: 1.58 Can#: 791
QC_Batch: 060602-MS1 Analyst: KB\SS\AT

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.2	1.3	0.8	6.6	
74-87-3	Chloromethane	0.2	0.5	0.3	1.1	
76-14-2	Freon 114	0.2	ND	1.1	ND	U
75-01-4	Vinyl chloride	0.2	ND	0.4	ND	U
74-83-9	Bromomethane	0.2	ND	0.6	ND	U
75-00-3	Chloroethane	0.2	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.2	7.3	0.9	42.5	
75-05-8	Acetonitrile	7.9	ND	13.7	ND	U
67-64-1	Acetone	1.3	5.0	3.1	12.3	
7-95-6	Methyl iodide	0.8	ND	4.7	ND	U
5-4	1,1-Dichloroethene	0.2	ND	0.6	ND	U
7-13-1	Acrylonitrile	7.9	ND	17.7	ND	U
76-13-1	Freon 113	0.2	ND	1.3	ND	U
107-05-1	Allyl chloride	0.8	ND	2.6	ND	U
75-09-2	Methylene chloride	0.2	ND	0.6	ND	U
75-15-0	Carbon disulfide	1.6	ND	5.1	ND	U
156-60-5	trans-1,2-Dichloroethene	0.2	ND	0.6	ND	U
1634-04-4	Methyl tert butyl ethe	0.2	0.8	0.6	2.9	
107-12-0	Propionitrile	7.9	ND	18.4	ND	U
75-34-3	1,1-Dichloroethane	0.2	ND	0.7	ND	U
108-05-4	Vinyl acetate	0.8	ND	2.9	ND	U
78-93-3	2-Butanone	0.8	ND	2.4	ND	U
78-83-1	Isobutyl alcohol	79.0	ND	247.3	ND	U
126-98-7	Methacrylonitrile	7.9	ND	22.4	ND	U
156-59-2	cis-1,2-Dichloroethene	0.2	ND	0.6	ND	U
594-20-7	2,2-Dichloropropane	0.2	ND	0.8	ND	U
67-66-3	Chloroform	0.2	ND	0.8	ND	U
71-55-6	1,1,1-Trichloroethane	0.2	ND	0.9	ND	U
107-06-2	1,2-Dichloroethane	0.2	ND	0.7	ND	U
563-58-6	1,1-Dichloropropene	0.2	ND	0.7	ND	U
71-43-2	Benzene	0.2	0.6	0.5	1.9	
56-23-5	Carbon tetrachloride	0.2	ND	1.0	ND	U
142-82-5	n-Heptane	0.8	ND	3.3	ND	U
8-87-5	1,2-Dichloropropane	0.2	ND	0.8	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

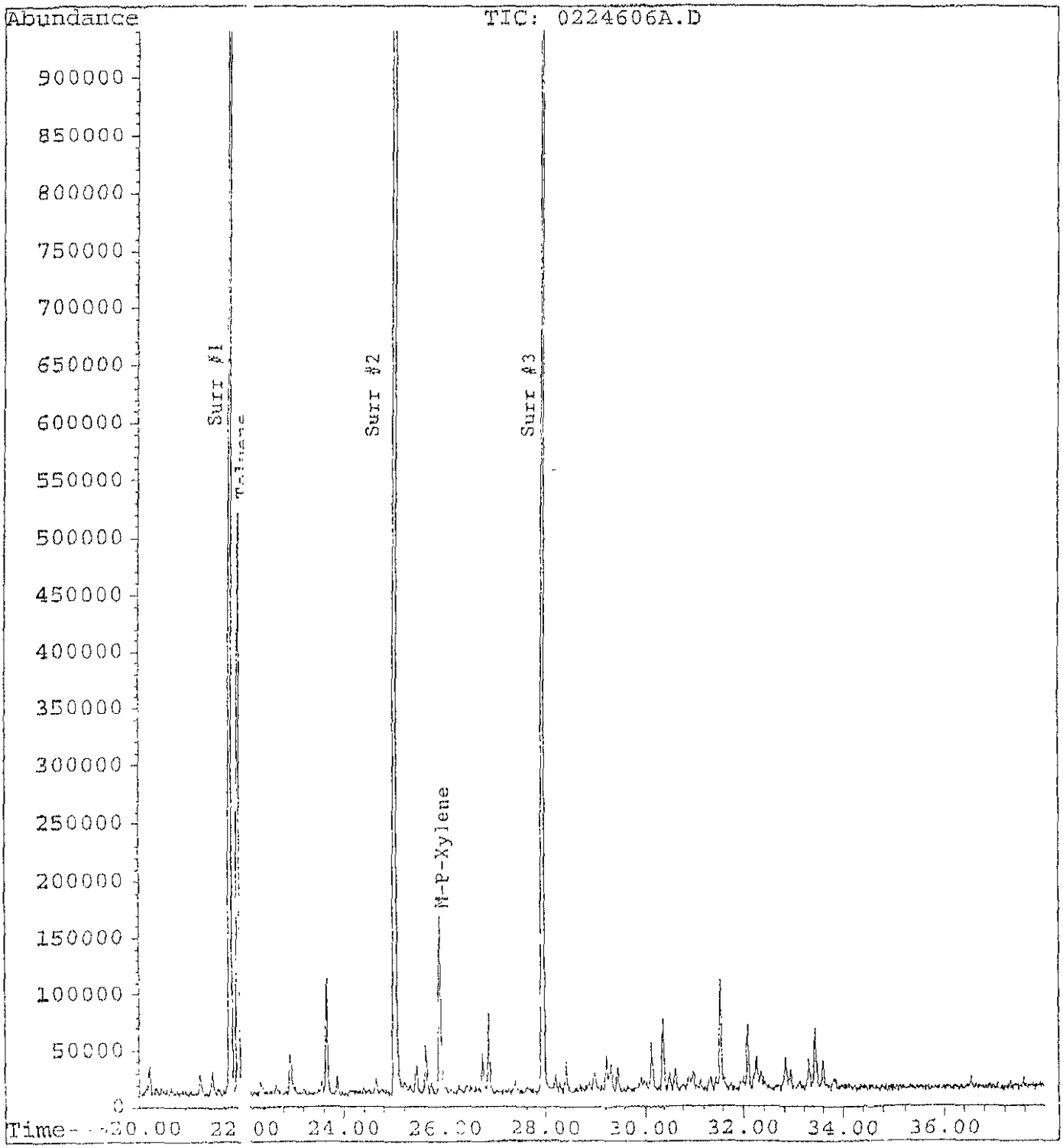
SDG : 202246

EPA TO-15 Laboratory Number: 06

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.2	ND	1.2	ND	U
80-62-6	Trichloroethene	0.2	ND	0.9	ND	U
110-75-87	Bromodichloromethane	0.2	ND	0.9	ND	U
108-10-1	Methyl methacrylate	0.2	ND	1.1	ND	U
108-88-3	4-Methyl-2-pentanone	7.9	ND	33.4	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.6	ND	2.7	ND	U
79-00-5	Toluene	0.2	4.3	0.7	20.3	
591-78-6	trans-1,3-Dichloropropene	0.2	ND	0.6	ND	U
142-28-9	1,1,2-Trichloroethane	0.2	ND	0.7	ND	U
111-65-9	2-Hexanone	0.2	ND	0.9	ND	U
124-48-1	1,3-Dichloropropane	0.6	ND	2.7	ND	U
106-93-4	Octane	0.2	ND	0.8	ND	U
127-18-4	Dibromochloromethane	0.8	ND	3.8	ND	U
108-90-7	1,2-Dibromoethane	0.2	ND	1.4	ND	U
20-6	Tetrachloroethene	0.2	0.7	1.3	5.7	
-41-4	Chlorobenzene	0.2	ND	1.1	ND	U
-38-3	1,1,1,2-Tetrachloroethane	0.2	ND	0.8	ND	U
108-94-1	Ethylbenzene	1.6	ND	11.2	ND	U
100-42-5	m & p-Xylene	0.2	1.5	0.7	6.9	
95-47-6	Styrene	0.2	0.2	0.7	0.7	
79-34-5	Bromoform	0.2	ND	0.7	ND	U
96-18-4	o-Xylene	0.3	0.6	3.4	6.2	
110-57-6	1,1,2,2-Tetrachloroethane	0.2	ND	0.7	ND	U
103-65-1	1,2,3-Trichloropropane	0.2	ND	1.1	ND	U
98-82-8	t-1,4-Dichloro-2-butene	7.9	ND	49.2	ND	U
98-83-9	4-Ethyltoluene	7.9	ND	41.7	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.2	ND	0.8	ND	U
95-63-6	Methylstyrene	0.2	ND	0.8	ND	U
541-73-1	1,2,4-Trimethylbenzene	7.9	ND	39.4	ND	U
100-44-7	1,3-Dichlorobenzene	0.2	ND	0.8	ND	U
104-51-8	Benzyl chloride	0.2	ND	1.0	ND	U
95-50-1	1,4-Dichlorobenzene	0.2	ND	0.8	ND	U
78-00-2	1,2-Dichlorobenzene	0.2	ND	1.0	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.2	ND	1.0	ND	U
87-68-3	1,2,4-Trichlorobenzene	7.9	ND	78.8	ND	U
87-61-6	Napthalene	0.2	ND	1.2	ND	U
87-68-3	Hexachlorobutadiene	1.6	ND	8.6	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06062MS1\0224606A.D
Operator : KB\MS\AT
Acquired : 6 Jun 102 5:17 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0104-109 CAN# 791 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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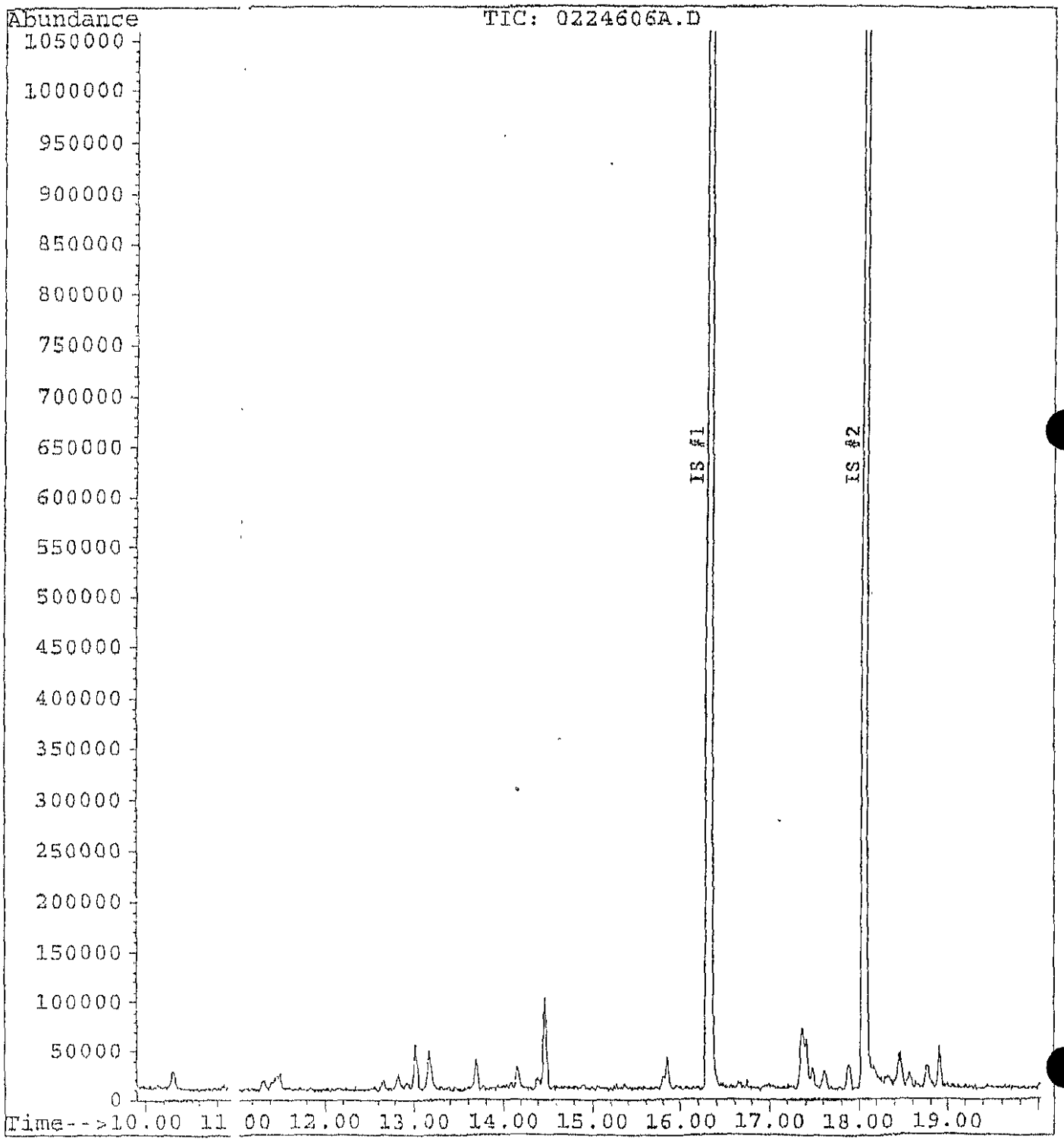
Operator : KB\SS\AT
Acquired : 6 Jun 102 5:17 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-109 CAN# 791 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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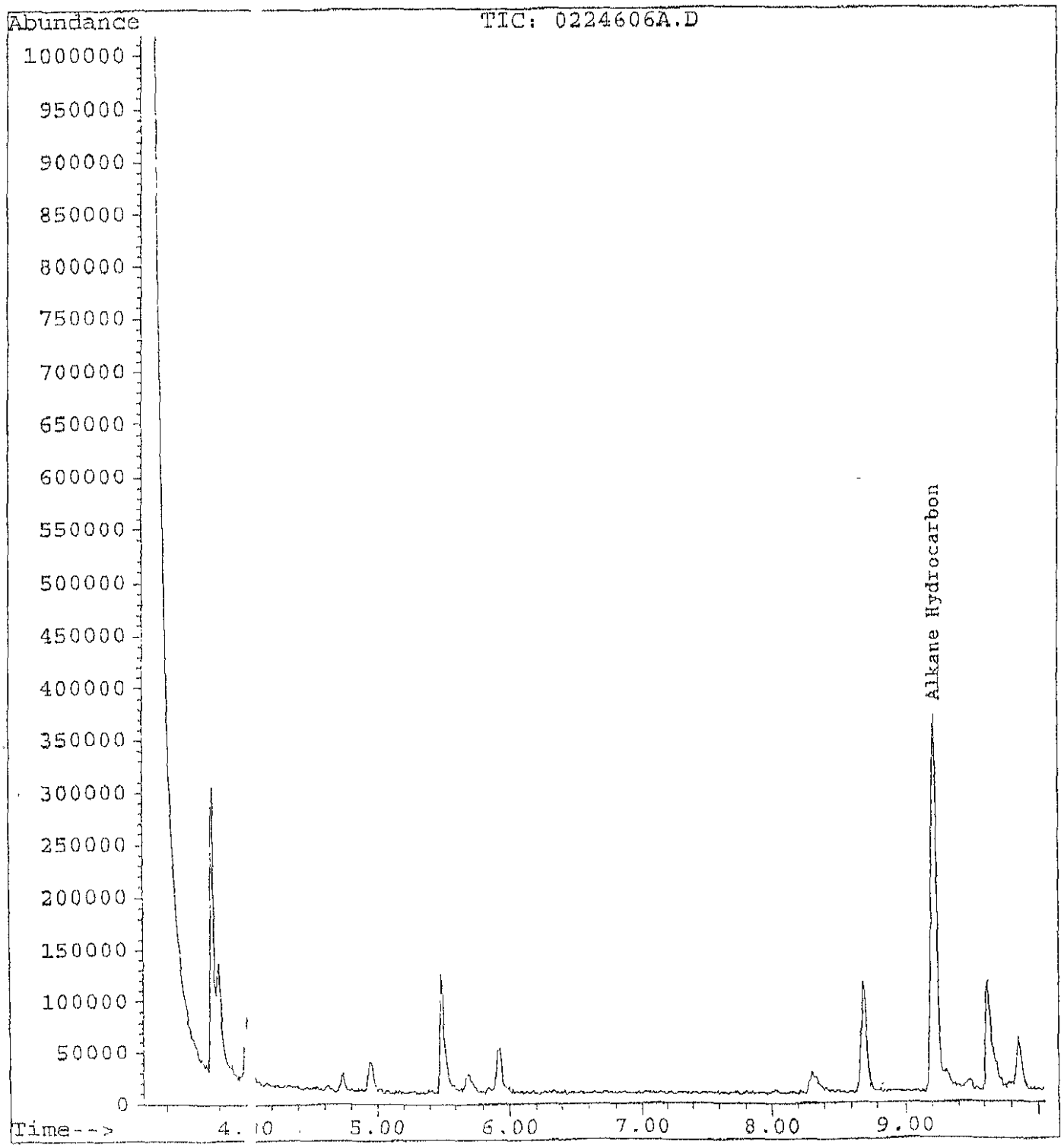
Operator : KB\SS\AT
Acquired : 6 Jun 102 5:17 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-109 CAN# 791 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 07

File: 0224607A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-114 CAN# 642 500ML Date Analyzed: 06/06/02 Time:
Sam_Type: SA Dilution Factor: 1.27 Can#: 642
QC_Batch: 060602-MS1 Analyst: KB\SS\AT

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	1.0	0.6	4.9	
74-87-3	Chloromethane	0.1	0.8	0.3	1.7	
76-14-2	Freon 114	0.1	ND	0.9	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.5	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.7	0.7	4.0	
75-05-8	Acetonitrile	6.4	ND	11.0	ND	U
67-64-1	Acetone	1.0	81.7	2.5	200.3	
[illegible]7-95-6	Methyl iodide	0.6	ND	3.8	ND	U
[illegible]5-4	1,1-Dichloroethene	0.1	ND	0.5	ND	U
[illegible]7-13-1	Acrylonitrile	6.4	ND	14.2	ND	U
[illegible]6-13-1	Freon 113	0.1	0.2	1.0	1.4	
107-05-1	Allyl chloride	0.6	ND	2.1	ND	U
75-09-2	Methylene chloride	0.1	0.3	0.5	1.1	
75-15-0	Carbon disulfide	1.3	ND	4.1	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.5	ND	U
1634-04-4	Methyl tert butyl ether	0.1	1.7	0.5	6.4	
107-12-0	Propionitrile	6.4	ND	14.8	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.5	ND	U
108-05-4	Vinyl acetate	0.8	ND	2.3	ND	U
78-93-3	2-Butanone	0.6	ND	1.9	ND	U
78-83-1	Isobutyl alcohol	63.5	ND	198.8	ND	U
126-98-7	Methacrylonitrile	6.4	ND	18.0	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.5	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.6	ND	U
67-66-3	Chloroform	0.1	ND	0.6	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	0.2	0.7	1.3	
107-06-2	1,2-Dichloroethane	0.1	ND	0.5	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.6	ND	U
71-43-2	Benzene	0.1	0.5	0.4	1.8	
56-23-5	Carbon tetrachloride	0.1	ND	0.8	ND	U
142-82-5	n-Heptane	0.6	ND	2.7	ND	U
78-87-5	1,2-Dichloropropane	0.1	ND	0.6	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

SDG : 202246

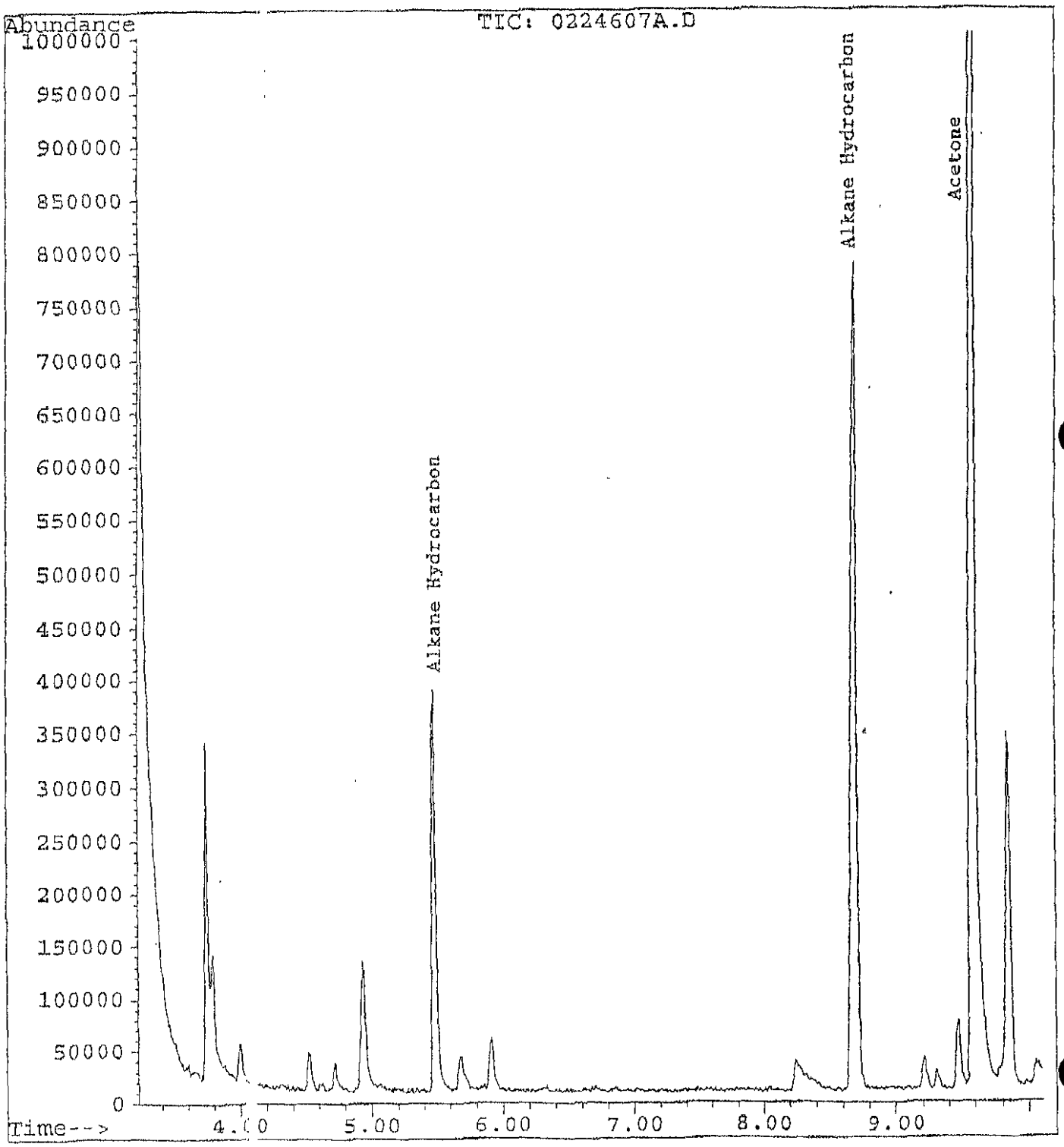
EPA TO-15

Laboratory Number: 07

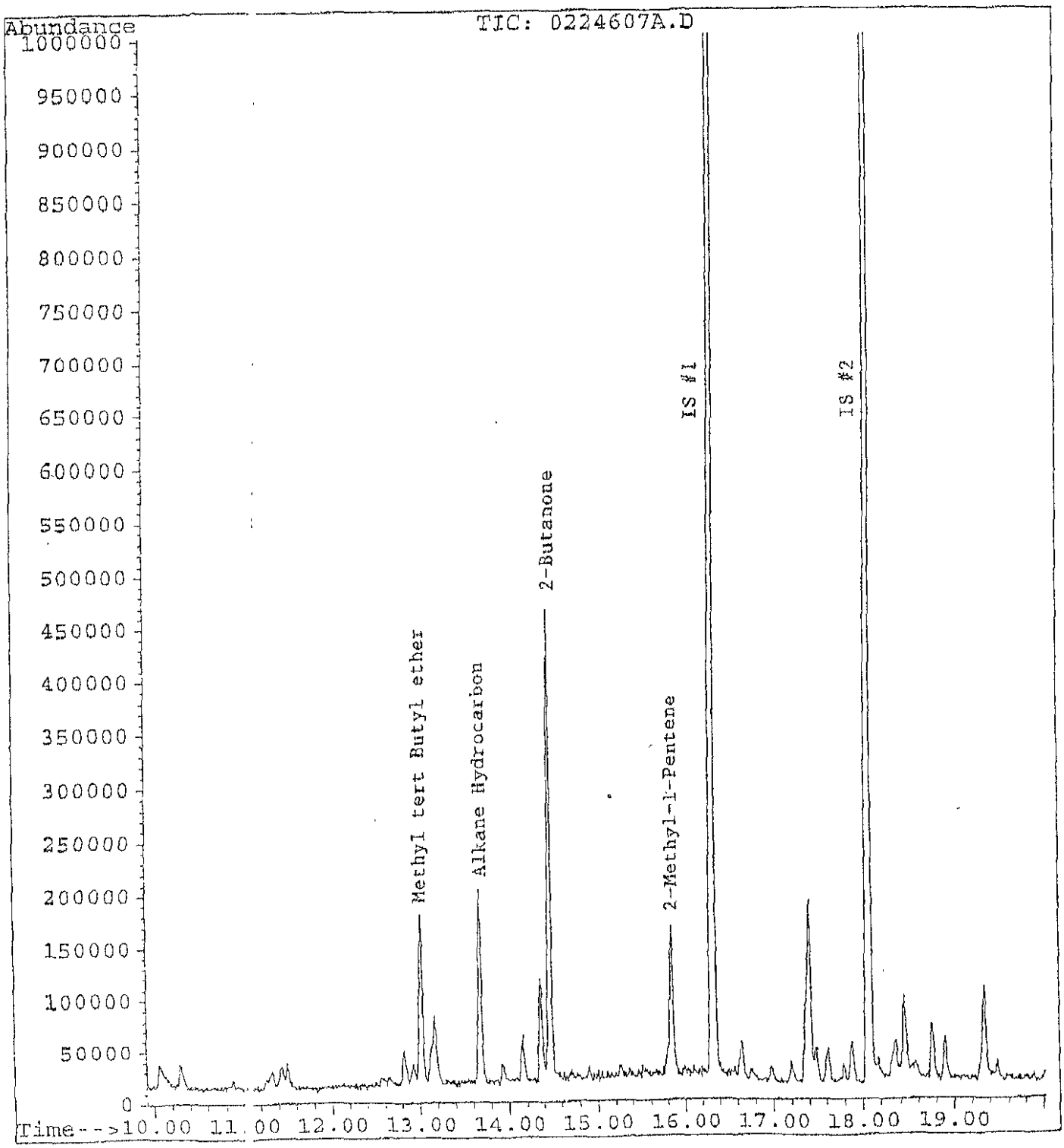
	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	0.9	ND	U
80-62-6	Trichloroethene	0.1	ND	0.7	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.7	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.9	ND	U
108-88-3	4-Methyl-2-pentanone	6.4	ND	26.8	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.5	ND	2.1	ND	U
79-00-5	Toluene	0.1	4.1	0.6	19.3	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.5	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.6	ND	U
111-65-9	2-Hexanone	0.1	ND	0.7	ND	U
124-48-1	1,3-Dichloropropane	0.5	ND	2.1	ND	U
106-93-4	Octane	0.1	ND	0.6	ND	U
127-18-4	Dibromochloromethane	0.6	ND	3.1	ND	U
[illegible]-90-7	1,2-Dibromoethane	0.1	ND	1.1	ND	U
[illegible]0-6	Tetrachloroethene	0.1	0.1	1.0	1.2	
[illegible]-41-4	Chlorobenzene	0.1	ND	0.9	ND	U
[illegible]-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.6	ND	U
108-94-1	Ethylbenzene	1.3	ND	9.0	ND	U
100-42-5	m & p-Xylene	0.1	2.5	0.6	11.4	
95-47-6	Styrene	0.1	0.2	0.6	0.9	
79-34-5	Bromoform	0.1	ND	0.6	ND	U
96-18-4	o-Xylene	0.3	1.0	2.7	10.1	
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.6	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.9	ND	U
98-82-8	t-1,4-Dichloro-2-butene	6.4	ND	39.5	ND	U
98-83-9	4-Ethyltoluene	6.4	ND	33.5	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	0.2	0.6	0.8	
95-63-6	Methylstyrene	0.1	ND	0.6	ND	U
541-73-1	1,2,4-Trimethylbenzene	6.4	ND	31.7	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.6	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.8	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.7	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.8	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.8	ND	U
87-68-3	1,2,4-Trichlorobenzene	6.4	ND	63.4	ND	U
87-61-6	Napthalene	0.1	ND	1.0	ND	U
87-68-3	Hexachlorobutadiene	1.3	ND	6.9	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06062MS1\0224607A.D
Operator : KB\SS\AT
Acquired : 6 Jun 102 6:19 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-114 CAN# 642 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06062MS1\0224607A.D
Operator : KB\SS\AT
Acquired : 6 Jun 102 6:19 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-114 CAN# 642 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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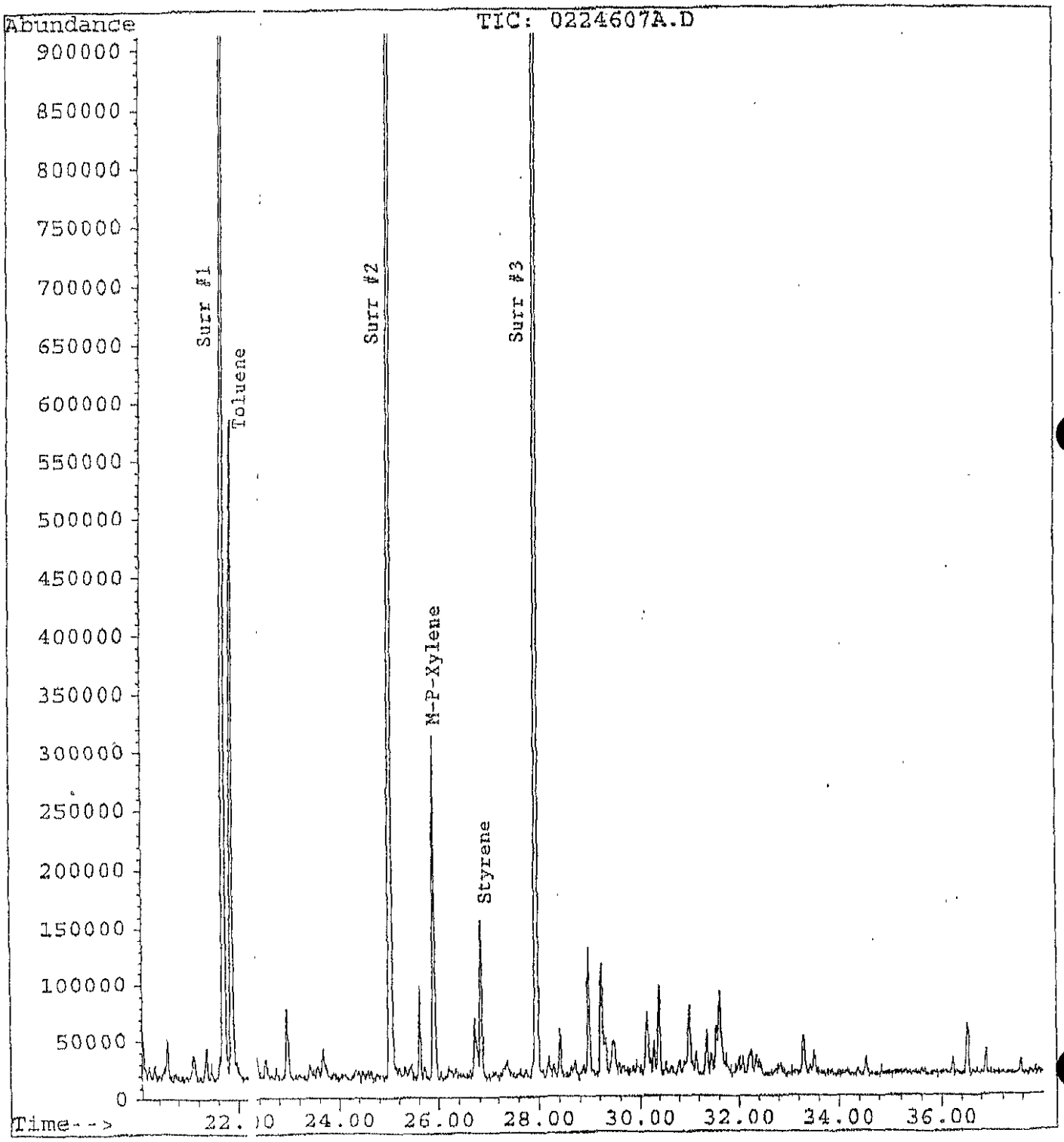
Operator : KB\SP\AT
Acquired : 6 Jun 102 6:19 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-114 CAN# 642 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 08

File: 0224608A.D
Client: ENVIRONMENTAL HEA TH CONSULTANTS
Description: CM0604-116 CAN# 79) 10ML
Sam_Type: SA
QC_Batch: 060702-MS1

Date Sampled: 06/04/02 Time:
Date Received: 06/05/02
Date Analyzed: 06/07/02 Time:
Dilution Factor: 84.00 Can#: 790
Analyst: KB/SS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	8.4	ND	42.9	ND	U
74-87-3	Chloromethane	8.4	ND	17.9	ND	U
76-14-2	Freon 114	8.4	ND	60.6	ND	U
75-01-4	Vinyl chloride	8.4	ND	22.2	ND	U
74-83-9	Bromomethane	8.4	ND	34.0	ND	U
75-00-3	Chloroethane	8.4	ND	22.9	ND	U
75-69-4	Trichlorofluoromethane	8.4	ND	48.7	ND	U
75-05-8	Acetonitrile	420.0	ND	728.1	ND	U
67-64-1	Acetone	67.2	ND	164.8	ND	U
4227-95-6	Methyl iodide	42.0	ND	251.8	ND	U
35-4	1,1-Dichloroethene	8.4	ND	34.4	ND	U
-13-1	Acrylonitrile	420.0	ND	941.1	ND	U
76-13-1	Freon 113	8.4	ND	66.5	ND	U
107-05-1	Allyl chloride	42.0	ND	135.7	ND	U
75-09-2	Methylene chloride	8.4	ND	30.1	ND	U
75-15-0	Carbon disulfide	84.0	ND	270.1	ND	U
156-60-5	trans-1,2-Dichloroethene	8.4	ND	34.4	ND	U
1634-04-4	Methyl tert butyl ether	8.4	ND	31.3	ND	U
107-12-0	Propionitrile	420.0	ND	976.9	ND	U
75-34-3	1,1-Dichloroethane	8.4	ND	35.1	ND	U
108-05-4	Vinyl acetate	42.0	ND	152.7	ND	U
78-93-3	2-Butanone	42.0	ND	127.9	ND	U
78-83-1	Isobutyl alcohol	4200.0	ND	13146.3	ND	U
126-98-7	Methacrylonitrile	420.0	ND	1189.9	ND	U
156-59-2	cis-1,2-Dichloroethene	8.4	ND	34.4	ND	U
594-20-7	2,2-Dichloropropane	8.4	ND	40.1	ND	U
67-66-3	Chloroform	8.4	ND	42.3	ND	U
71-55-6	1,1,1-Trichloroethane	8.4	ND	47.3	ND	U
107-06-2	1,2-Dichloroethane	8.4	ND	35.1	ND	U
563-58-6	1,1-Dichloropropene	8.4	ND	39.4	ND	U
71-43-2	Benzene	8.4	ND	27.7	ND	U
56-23-5	Carbon tetrachloride	8.4	ND	54.6	ND	U
142-82-5	n-Heptane	42.0	ND	177.7	ND	U
78-87-5	1,2-Dichloropropane	8.4	ND	40.1	ND	U

SDG : 202246

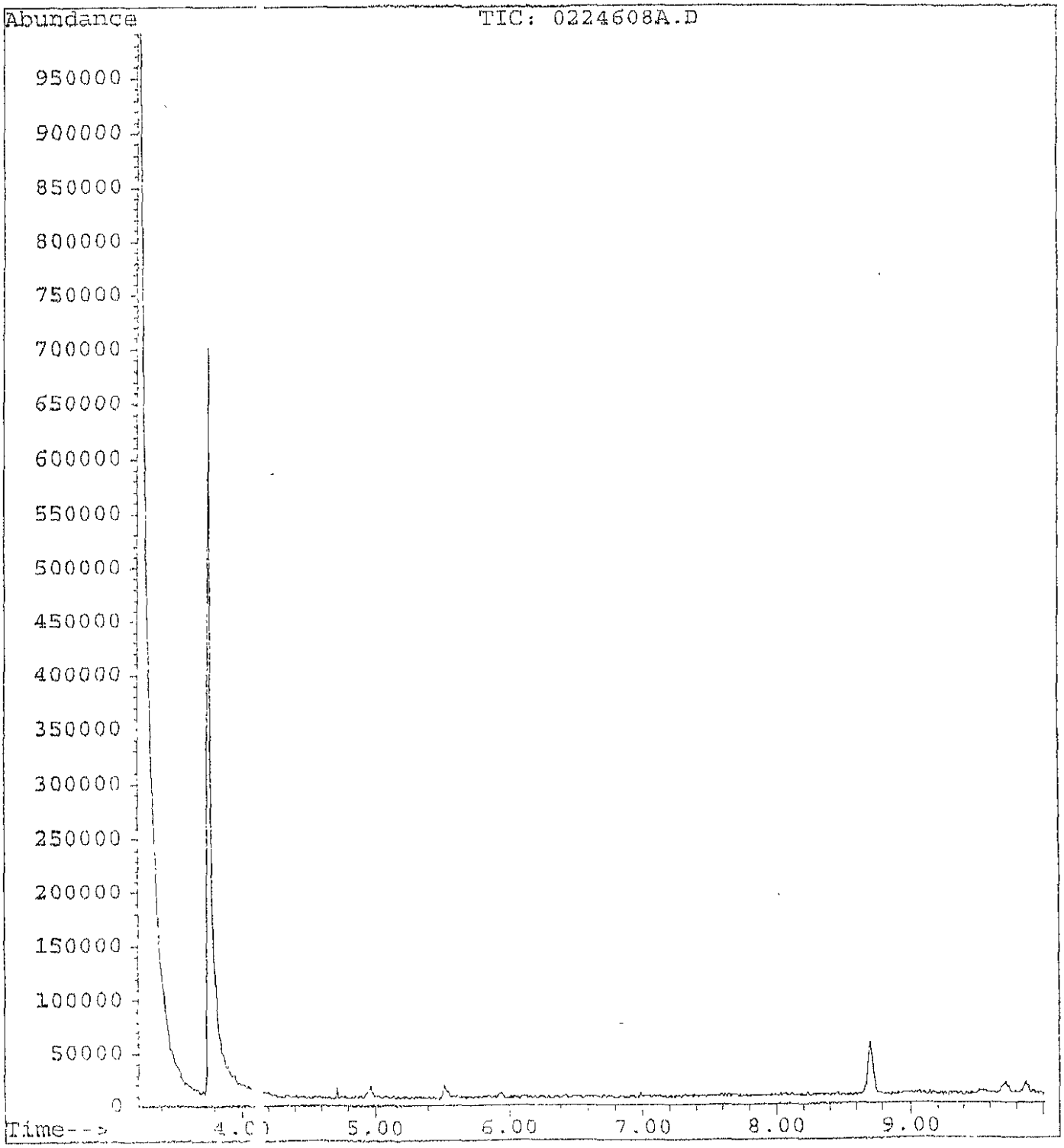
EPA TO-15

Laboratory Number: 08

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	8.4	ND	61.7	ND	U
80-62-6	Trichloroethene	8.4	ND	46.6	ND	U
110-75-87	Bromodichloromethane	8.4	ND	46.6	ND	U
108-10-1	Methyl methacrylate	8.4	ND	58.1	ND	U
108-88-3	4-Methyl-2-pentanone	420.0	ND	1775.8	ND	U
10061-02-6	cis-1,3-Dichloropropene	33.6	ND	142.1	ND	U
79-00-5	Toluene	8.4	32.1	39.4	150.5	
591-78-6	trans-1,3-Dichloropropene	8.4	ND	32.7	ND	U
142-28-9	1,1,2-Trichloroethane	8.4	ND	39.4	ND	U
111-65-9	2-Hexanone	8.4	ND	47.3	ND	U
124-48-1	1,3-Dichloropropane	33.6	ND	142.1	ND	U
106-93-4	Octane	8.4	ND	40.1	ND	U
127-18-4	Dibromochloromethane	42.0	ND	202.6	ND	U
108-90-7	1,2-Dibromoethane	8.4	ND	73.9	ND	U
630-20-6	Tetrachloroethene	8.4	ND	66.6	ND	U
[illegible]0-41-4	Chlorobenzene	8.4	ND	59.2	ND	U
[illegible]-38-3	1,1,1,2-Tetrachloroethane	8.4	ND	39.9	ND	U
100-94-1	Ethylbenzene	84.0	ND	595.4	ND	U
100-42-5	m & p-Xylene	8.4	18.5	37.7	82.8	
95-47-6	Styrene	8.4	ND	37.7	ND	U
79-34-5	Bromoform	8.4	ND	36.9	ND	U
96-18-4	o-Xylene	16.8	ND	179.3	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	8.4	ND	37.7	ND	U
103-65-1	1,2,3-Trichloropropane	8.4	ND	59.5	ND	U
98-82-8	t-1,4-Dichloro-2-butene	420.0	ND	2614.9	ND	U
98-83-9	4-Ethyltoluene	420.0	ND	2217.1	ND	U
98-06-6	1,3,5-Trimethylbenzene	8.4	ND	42.6	ND	U
95-63-6	Methylstyrene	8.4	ND	42.6	ND	U
541-73-1	1,2,4-Trimethylbenzene	420.0	ND	2096.1	ND	U
100-44-7	1,3-Dichlorobenzene	8.4	ND	42.6	ND	U
104-51-8	Benzyl chloride	8.4	ND	52.1	ND	U
95-50-1	1,4-Dichlorobenzene	8.4	ND	44.9	ND	U
78-00-2	1,2-Dichlorobenzene	8.4	ND	52.1	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	8.4	ND	52.1	ND	U
87-68-3	1,2,4-Trichlorobenzene	420.0	ND	4191.7	ND	U
87-61-6	Napthalene	8.4	ND	64.4	ND	U
87-68-3	Hexachlorobutadiene	84.0	ND	454.7	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06072MS1\0224608A.D
Operator : KB/SI
Acquired : 7 Jun 102 4:52 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-116 CAN# 790 10ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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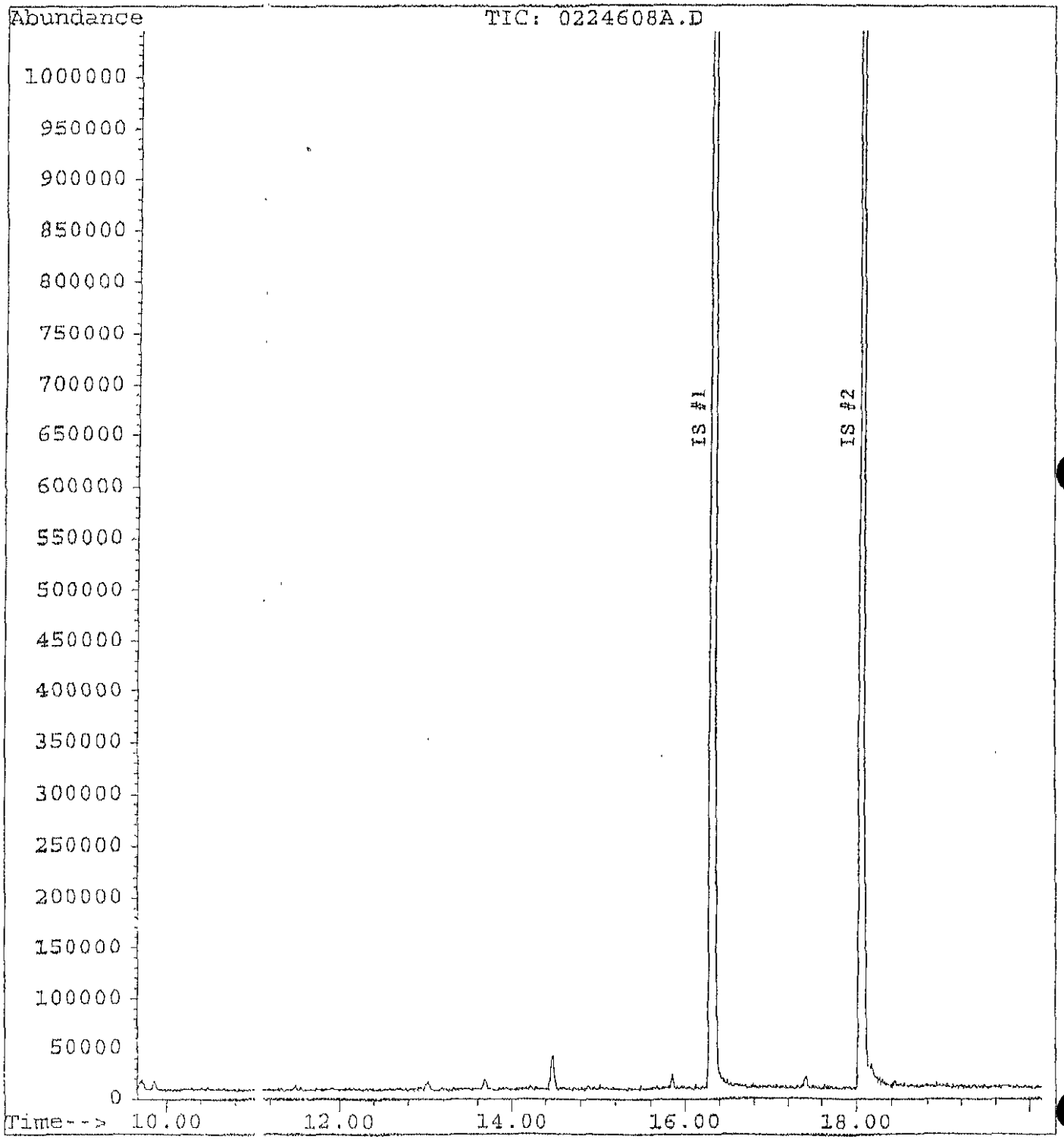
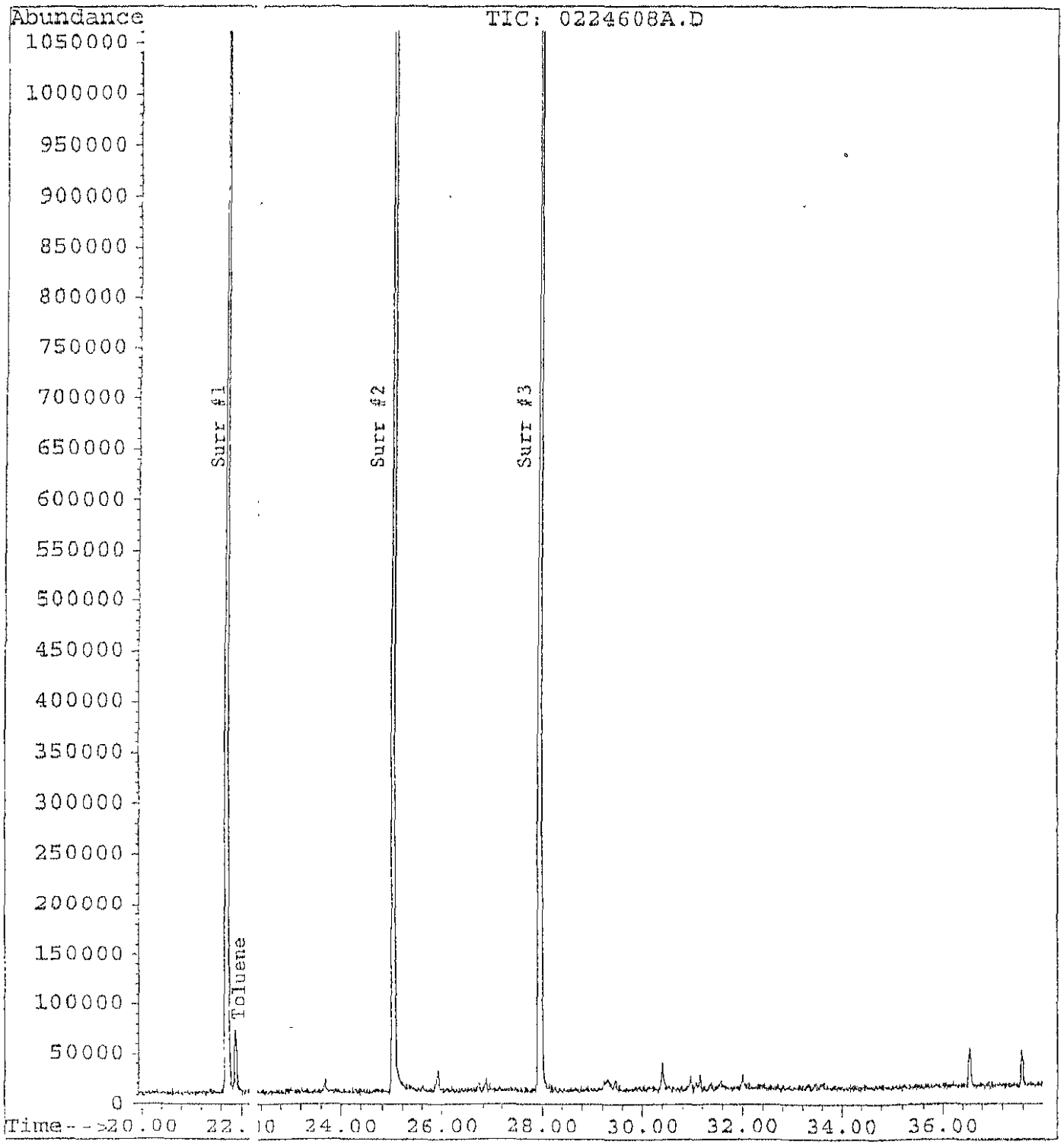
Operator : KB/SB
Acquired : 7 Jun 102 4:52 pm using AcqMethod TO15.M
Instrument : 59'0 - In
Sample Name: CM06'4-116 CAN# 790 10ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06072MS1\0224608A.D
Operator : KB/SS
Acquired : 7 Jun 102 4:52 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-116 CAN# 790 10ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 09

File: 0224609A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-120 CAN# 416 500ML Date Analyzed: 06/07/02 Time:
Sam_Type: SA Dilution Factor: 1.13 Can#: 416
QC_Batch: 060702-MS1 Analyst: KB/SS/KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	0.6	0.6	3.0	
74-87-3	Chloromethane	0.1	0.5	0.2	1.0	
76-14-2	Freon 114	0.1	ND	0.8	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.5	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.3	0.7	2.0	
75-05-8	Acetonitrile	5.7	ND	9.8	ND	U
67-64-1	Acetone	0.9	7.6	2.2	18.5	
4227-95-6	Methyl iodide	0.6	ND	3.4	ND	U
35-4	1,1-Dichloroethene	0.1	ND	0.5	ND	U
13-1	Acrylonitrile	5.7	ND	12.7	ND	U
76-13-1	Freon 113	0.1	ND	0.9	ND	U
107-05-1	Allyl chloride	0.6	ND	1.8	ND	U
75-09-2	Methylene chloride	0.1	0.3	0.4	1.1	
75-15-0	Carbon disulfide	1.1	ND	3.6	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.5	ND	U
1634-04-4	Methyl tert butyl ether	0.1	0.9	0.4	3.2	
107-12-0	Propionitrile	5.7	ND	13.1	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.5	ND	U
108-05-4	Vinyl acetate	0.6	ND	2.1	ND	U
78-93-3	2-Butanone	0.6	0.6	1.7	1.9	
78-83-1	Isobutyl alcohol	56.5	ND	176.8	ND	U
126-98-7	Methacrylonitrile	5.7	ND	16.0	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.5	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.5	ND	U
67-66-3	Chloroform	0.1	ND	0.6	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.6	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.5	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.5	ND	U
71-43-2	Benzene	0.1	0.3	0.4	1.0	
56-23-5	Carbon tetrachloride	0.1	ND	0.7	ND	U
142-82-5	n-Heptane	0.6	ND	2.4	ND	U
78-87-5	1,2-Dichloropropane	0.1	ND	0.5	ND	U

SDG : 202246

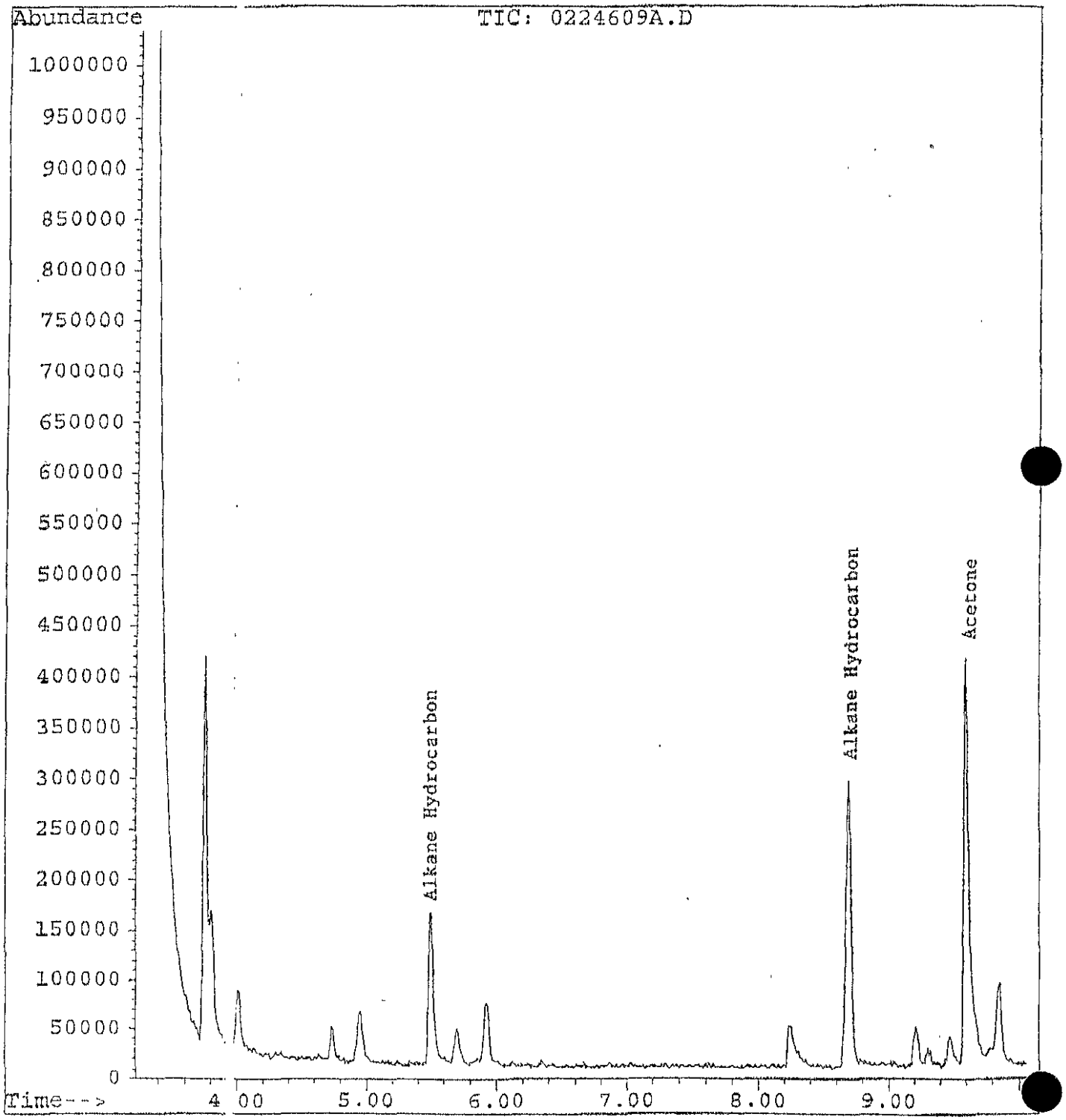
EPA TO-15

Laboratory Number: 09

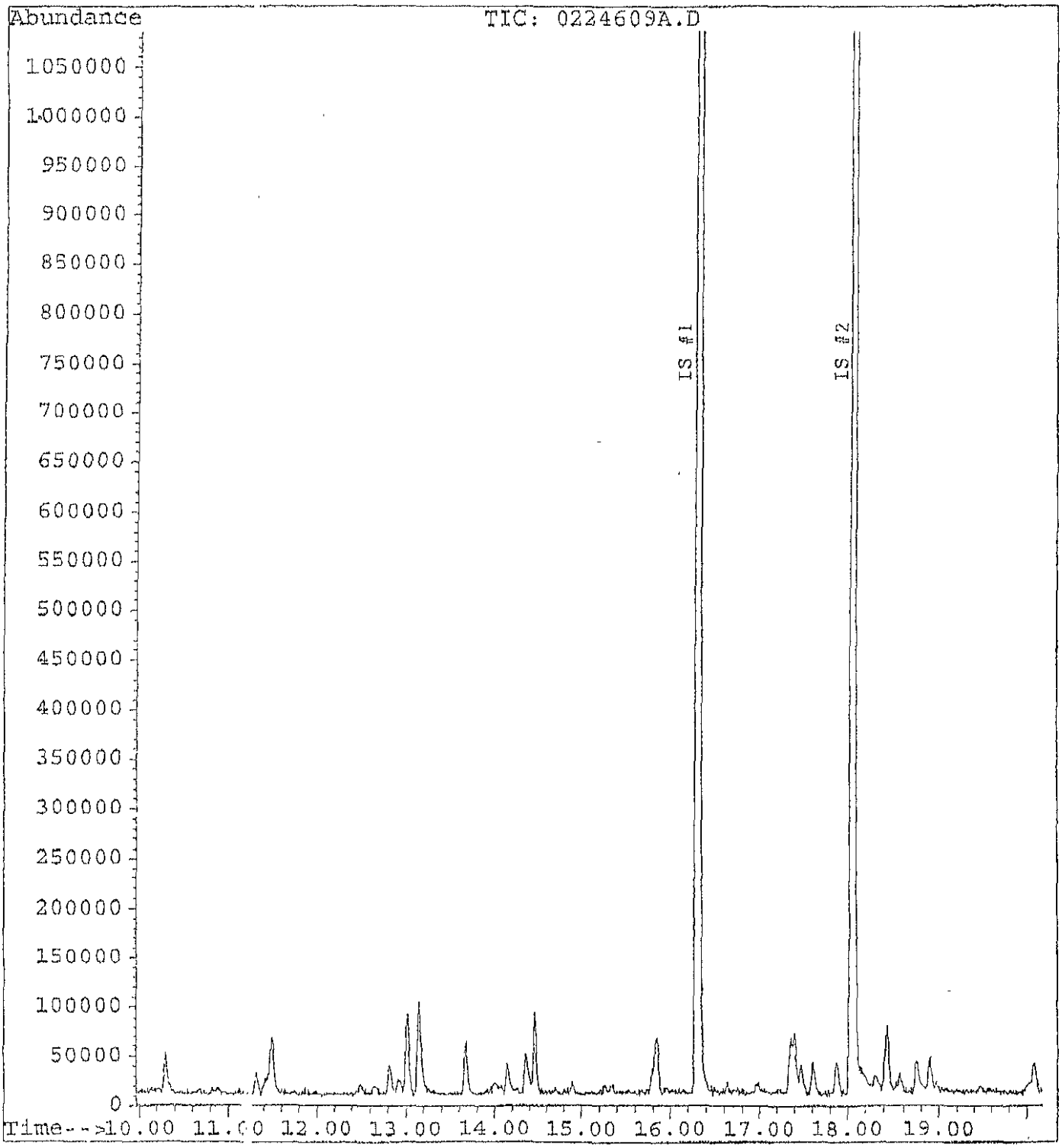
	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	0.8	ND	U
80-62-6	Trichloroethene	0.1	ND	0.6	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.6	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.8	ND	U
108-88-3	4-Methyl-2-pentanone	5.7	ND	23.9	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.5	ND	1.9	ND	U
79-00-5	Toluene	0.1	1.0	0.5	4.6	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.4	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.5	ND	U
111-65-9	2-Hexanone	0.1	ND	0.6	ND	U
124-48-1	1,3-Dichloropropane	0.5	ND	1.9	ND	U
106-93-4	Octane	0.1	ND	0.5	ND	U
127-18-4	Dibromochloromethane	0.6	ND	2.7	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	1.0	ND	U
630-20-6	Tetrachloroethene	0.1	0.2	0.9	1.4	
10-41-4	Chlorobenzene	0.1	ND	0.8	ND	U
8-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.5	ND	U
108-94-1	Ethylbenzene	1.1	ND	8.0	ND	U
100-42-5	m & p-Xylene	0.1	0.5	0.5	2.3	
95-47-6	Styrene	0.1	ND	0.5	ND	U
79-34-5	Bromoform	0.1	ND	0.5	ND	U
96-18-4	o-Xylene	0.2	ND	2.4	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.5	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.8	ND	U
98-82-8	t-1,4-Dichloro-2-butene	5.7	ND	35.2	ND	U
98-83-9	4-Ethyltoluene	5.7	ND	29.8	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.6	ND	U
95-63-6	Methylstyrene	0.1	ND	0.6	ND	U
541-73-1	1,2,4-Trimethylbenzene	5.7	ND	28.2	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.6	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.7	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.6	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.7	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.7	ND	U
87-68-3	1,2,4-Trichlorobenzene	5.7	ND	56.4	ND	U
87-61-6	Napthalene	0.1	ND	0.9	ND	U
87-68-3	Hexachlorobutadiene	1.1	ND	6.1	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm

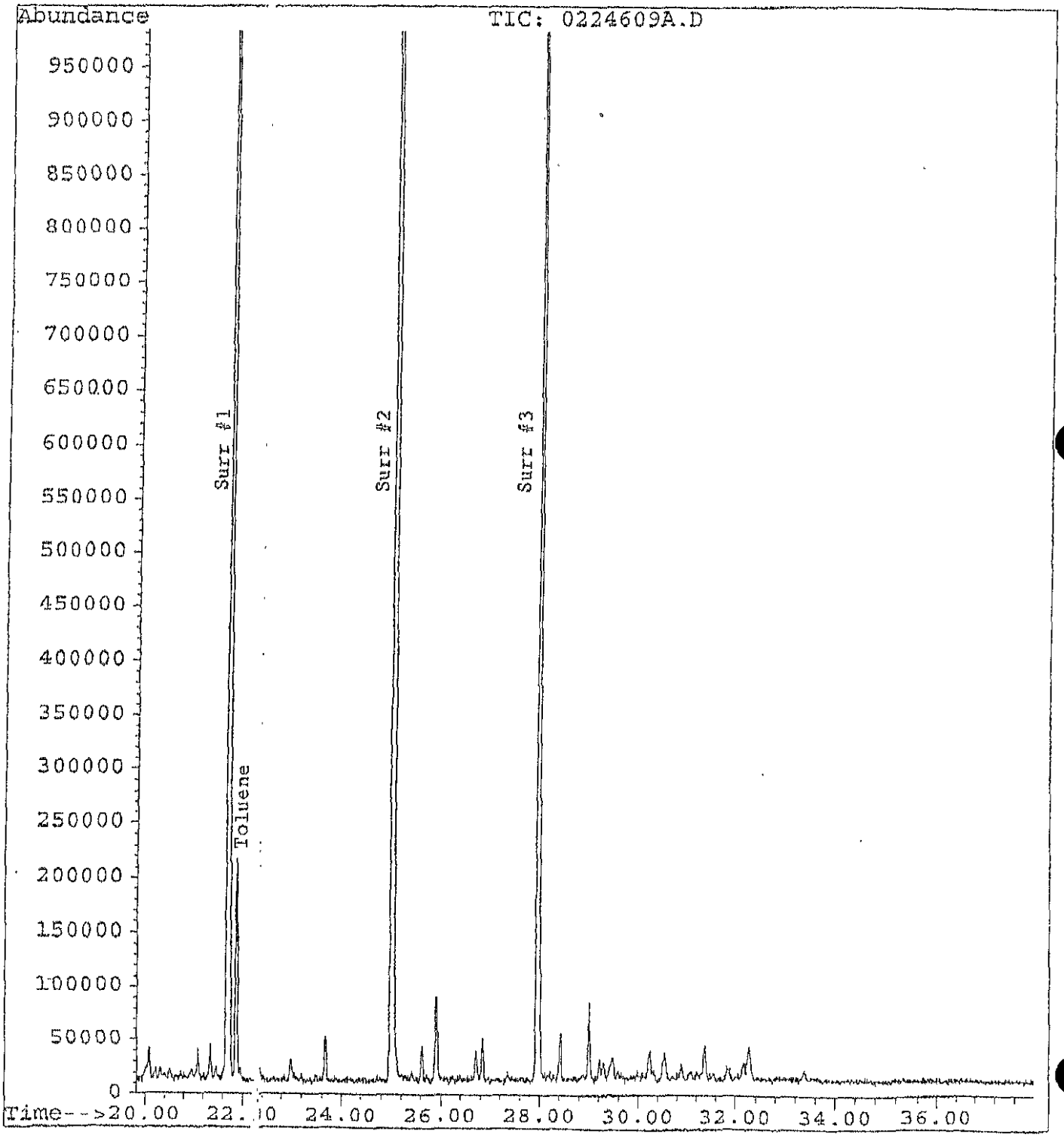
File : C:\MSCHEM\1\DATA\06072MS1\0224609A.D
Operator : KB/SS/KS
Acquired : 7 Jun 102 6:10 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM(604-120 CAN# 416 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06072MS1\0224609A.D
Operator : KB/SS/KS
Acquired : 7 Jan 102 6:10 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-120 CAN# 416 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06072MS1\0224609A.D
Operator : KB/SB/KS
Acquired : 7 Jun 102 6:10 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-120 CAN# 416 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 10

File:	0224610A.D	Date Sampled:	06/04/02	Time:	
Client:	ENVIRONMENTAL HE. LTH CONSULTANTS	Date Received:	06/05/02		
Description:	CM0604-121 CAN #6 49 500mL	Date Analyzed:	06/10/02	Time:	
Sam_Type:	SA	Dilution Factor:	1.37	Can#:	649
QC_Batch:	061002-MS1	Analyst:	SS/KS		

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluorometh ne	0.1	0.8	0.7	3.9	
74-87-3	Chloromethane	0.1	0.7	0.3	1.5	
76-14-2	Freon 114	0.1	ND	1.0	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.4	ND	U
74-83-9	Bromomethane	0.1	ND	0.6	ND	U
75-00-3	Chloroethane	0.1	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.4	0.8	2.4	
75-05-8	Acetonitrile	6.9	ND	11.9	ND	U
67-64-1	Acetone	1.1	10.1	2.7	24.8	
7-95-6	Methyl iodide	0.7	ND	4.1	ND	U
35-4	1,1-Dichloroethene	0.1	ND	0.6	ND	U
107-13-1	Acrylonitrile	6.9	ND	15.3	ND	U
76-13-1	Freon 113	0.1	ND	1.1	ND	U
107-05-1	Allyl chloride	0.7	ND	2.2	ND	U
75-09-2	Methylene chloride	0.1	1.9	0.5	6.7	
75-15-0	Carbon disulfide	1.4	ND	4.4	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.6	ND	U
1634-04-4	Methyl tert butyl ether	0.1	1.1	0.5	3.9	
107-12-0	Propionitrile	6.9	ND	15.9	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.6	ND	U
108-05-4	Vinyl acetate	0.7	ND	2.5	ND	U
78-93-3	2-Butanone	0.7	ND	2.1	ND	U
78-83-1	Isobutyl alcohol	68.5	ND	214.4	ND	U
126-98-7	Methacrylonitrile	6.9	ND	19.4	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.6	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.7	ND	U
67-66-3	Chloroform	0.1	ND	0.7	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.8	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.6	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.6	ND	U
71-43-2	Benzene	0.1	0.3	0.5	1.1	
56-23-5	Carbon tetrachloride	0.1	ND	0.9	ND	U
142-82-5	n-Heptane	0.7	ND	2.9	ND	U
-87-5	1,2-Dichloropropane	0.1	ND	0.7	ND	U

ENVIRONMENTAL
Analytical Service, Inc

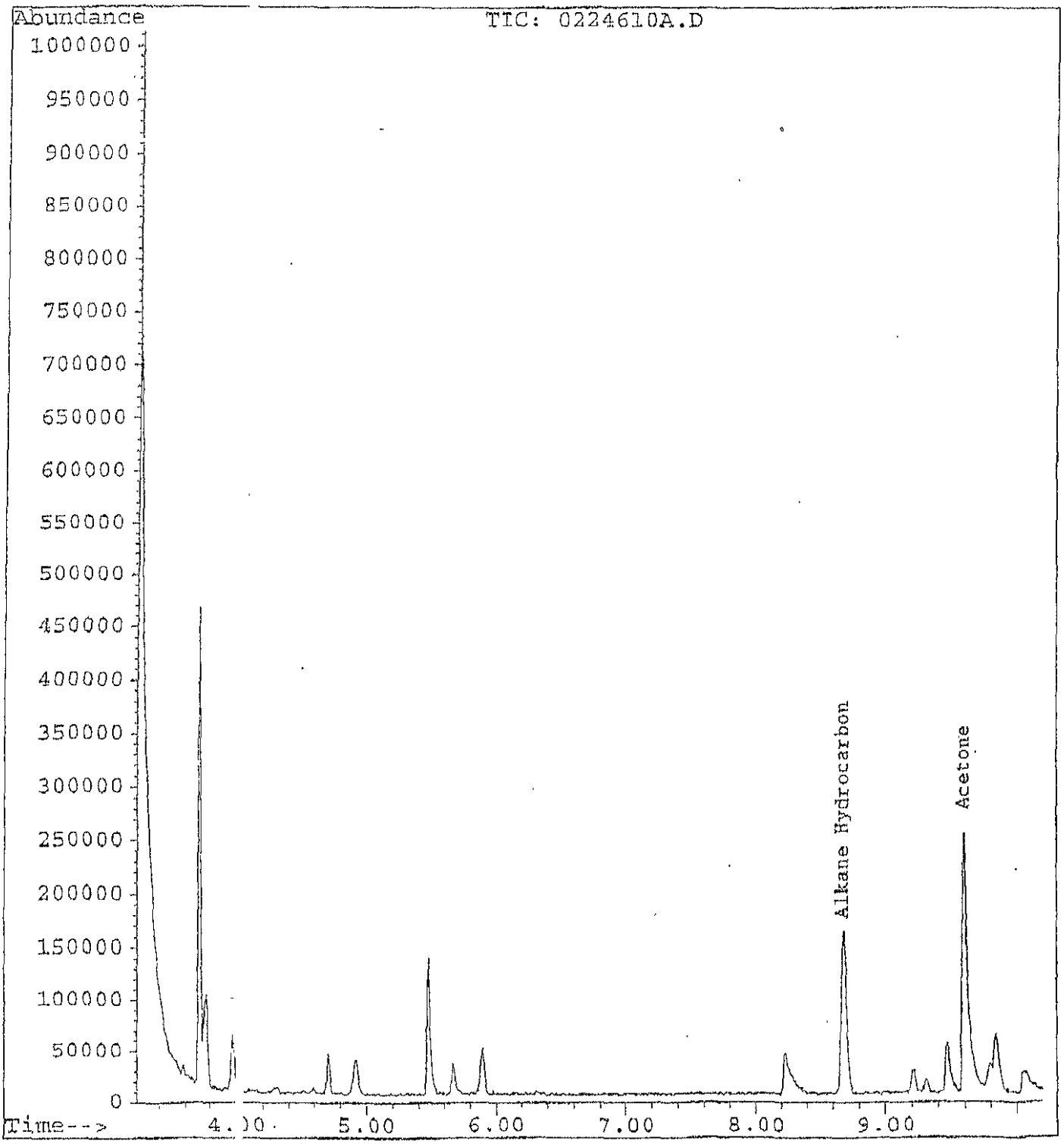
SDG : 202246

EPA TO-15 Laboratory Number. 10

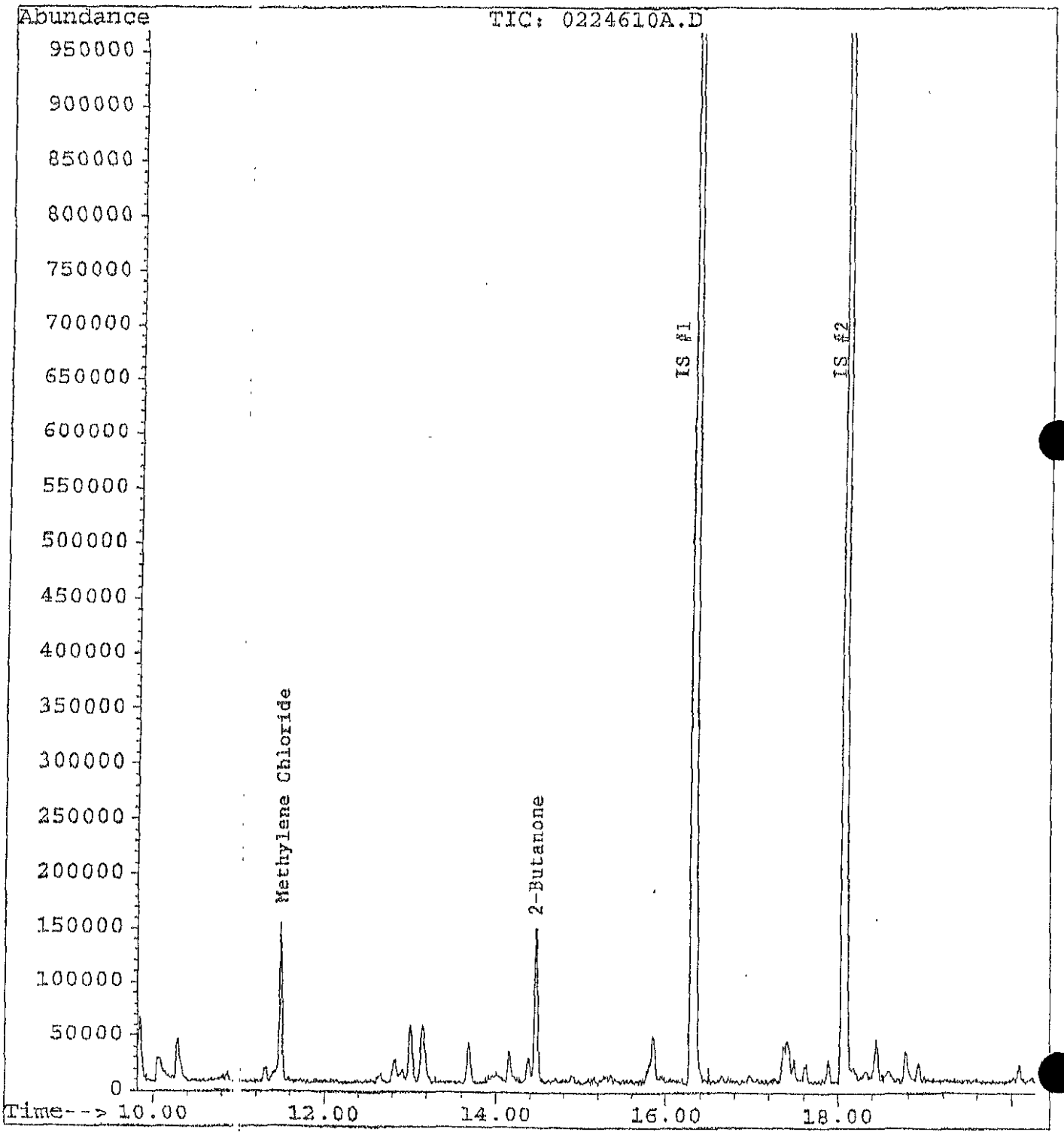
	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	1.0	ND	U
80-62-6	Trichloroethene	0.1	ND	0.8	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.8	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.9	ND	U
108-88-3	4-Methyl-2-pentanone	6.9	ND	29.0	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.5	ND	2.3	ND	U
79-00-5	Toluene	0.1	1.9	0.6	8.9	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.5	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	0.1	0.6	0.7	
111-65-9	2-Hexanone	0.1	ND	0.8	ND	U
124-48-1	1,3-Dichloropropane	0.5	ND	2.3	ND	U
106-93-4	Octane	0.1	ND	0.7	ND	U
127-18-4	Dibromochloromethane	0.7	ND	3.3	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	1.2	ND	U
0-20-6	Tetrachloroethene	0.1	ND	1.1	ND	U
0-41-4	Chlorobenzene	0.1	ND	1.0	ND	U
108-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.7	ND	U
108-94-1	Ethylbenzene	1.4	ND	9.7	ND	U
100-42-5	m & p-Xylene	0.1	0.7	0.6	3.3	
95-47-6	Styrene	0.1	ND	0.6	ND	U
79-34-5	Bromoform	0.1	ND	0.6	ND	U
96-18-4	o-Xylene	0.3	ND	2.9	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.6	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	1.0	ND	U
98-82-8	t-1,4-Dichloro-2-butene	6.9	ND	42.6	ND	U
98-83-9	4-Ethyltoluene	6.9	ND	36.2	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.7	ND	U
95-63-6	Methylstyrene	0.1	ND	0.7	ND	U
541-73-1	1,2,4-Trimethylbenzene	6.9	ND	34.2	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.7	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.9	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.7	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.9	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.9	ND	U
87-68-3	1,2,4-Trichlorobenzene	6.9	ND	68.4	ND	U
87-61-6	Napthalene	0.1	ND	1.0	ND	U
87-68-3	Hexachlorobutadiene	1.4	ND	7.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

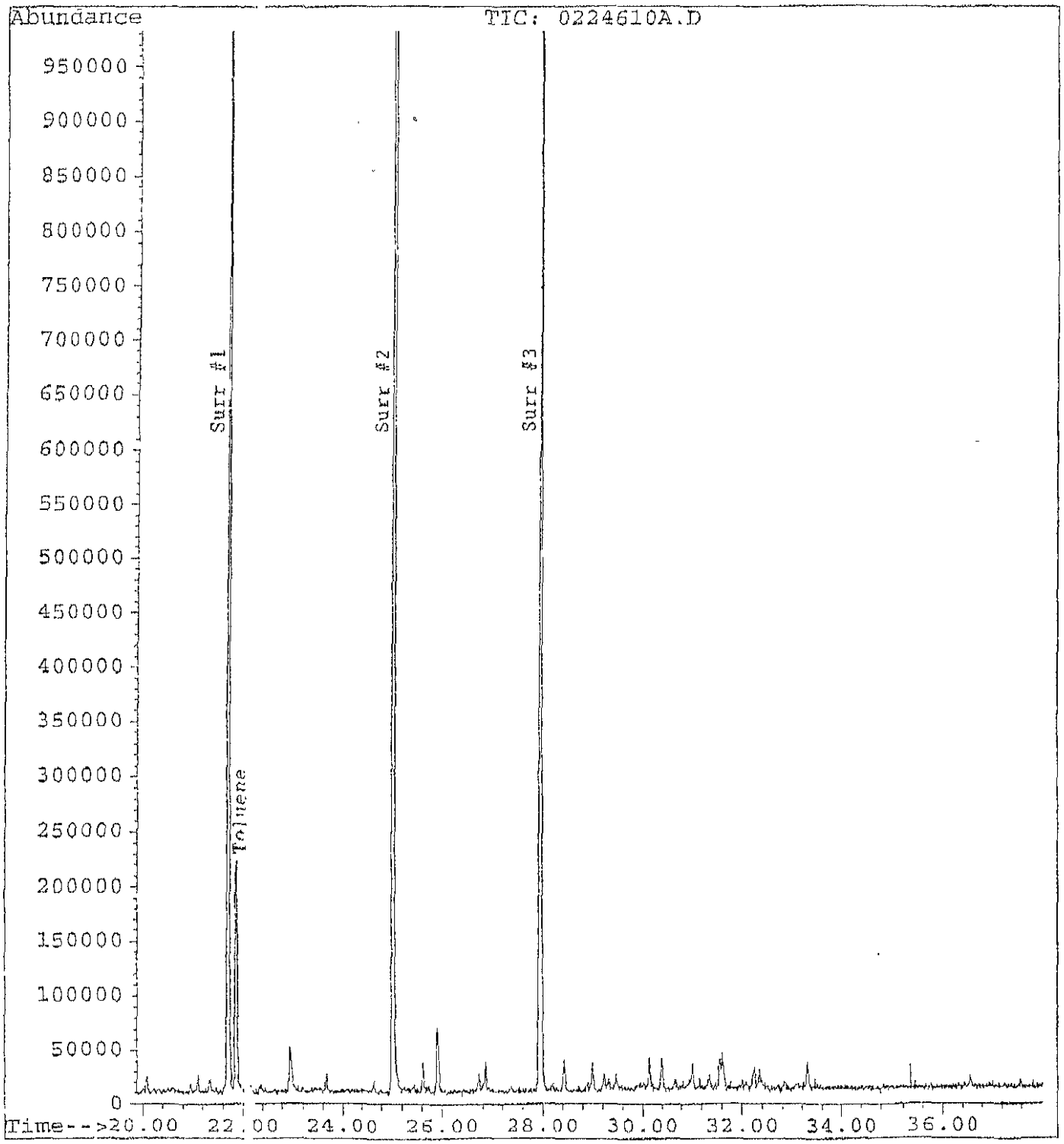
File : C:\MSCHEM\1\DATA\06102MS1\0224610A.D
Operator : SS/LS
Acquired : 10 Jun 102 3:26 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0004-121 CAN #649 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06102MS1\0224610A.D
Operator : SS/CS
Acquired : 10 Jun 102 3:26 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0504-121 CAN #649 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06102MS1\0224610A.D
Operator : SS/KS
Acquired : 10 Jun 102 3:26 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-121 CAN #649 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 11

File:	0224611A.D	Date Sampled:	06/04/02	Time:	
Client:	ENVIRONMENTAL HEALTH CONSULTANTS	Date Received:	06/05/02		
Description:	CM0604-122 CAN# 756 500ML	Date Analyzed:	06/07/02	Time:	
Sam_Type:	SA	Dilution Factor:	1.58	Can#:	756
QC_Batch:	060702-MS1	Analyst:	KB/SS/KS		

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.2	0.6	0.8	3.2	
74-87-3	Chloromethane	0.2	0.5	0.3	1.1	
76-14-2	Freon 114	0.2	ND	1.1	ND	U
75-01-4	Vinyl chloride	0.2	ND	0.4	ND	U
74-83-9	Bromomethane	0.2	ND	0.6	ND	U
75-00-3	Chloroethane	0.2	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.2	0.4	0.9	2.2	
75-05-8	Acetonitrile	7.9	ND	13.7	ND	U
67-64-1	Acetone	1.3	12.2	3.1	29.9	
27-95-6	Methyl Iodide	0.8	ND	4.7	ND	U
35-4	1,1-Dichloroethene	0.2	ND	0.6	ND	U
107-13-1	Acrylonitrile	7.9	ND	17.7	ND	U
76-13-1	Freon 113	0.2	ND	1.3	ND	U
107-05-1	Allyl chloride	0.8	ND	2.6	ND	U
75-09-2	Methylene chloride	0.2	0.3	0.6	1.0	
75-15-0	Carbon disulfide	1.6	ND	5.1	ND	U
156-60-5	trans-1,2-Dichloroethene	0.2	ND	0.6	ND	U
1634-04-4	Methyl tert butyl ether	0.2	0.7	0.6	2.7	
107-12-0	Propionitrile	7.9	ND	18.4	ND	U
75-34-3	1,1-Dichloroethane	0.2	ND	0.7	ND	U
108-05-4	Vinyl acetate	0.8	ND	2.9	ND	U
78-93-3	2-Butanone	0.8	ND	2.4	ND	U
78-83-1	Isobutyl alcohol	79.0	ND	247.3	ND	U
126-98-7	Methacrylonitrile	7.9	ND	22.4	ND	U
156-59-2	cis-1,2-Dichloroethene	0.2	ND	0.6	ND	U
594-20-7	2,2-Dichloropropane	0.2	ND	0.8	ND	U
67-66-3	Chloroform	0.2	ND	0.8	ND	U
71-55-6	1,1,1-Trichloroethane	0.2	ND	0.9	ND	U
107-06-2	1,2-Dichloroethane	0.2	ND	0.7	ND	U
563-58-6	1,1-Dichloropropene	0.2	ND	0.7	ND	U
71-43-2	Benzene	0.2	0.3	0.5	0.9	
56-23-5	Carbon tetrachloride	0.2	ND	1.0	ND	U
142-82-5	n-Heptane	0.8	ND	3.3	ND	U
-87-5	1,2-Dichloropropane	0.2	ND	0.8	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

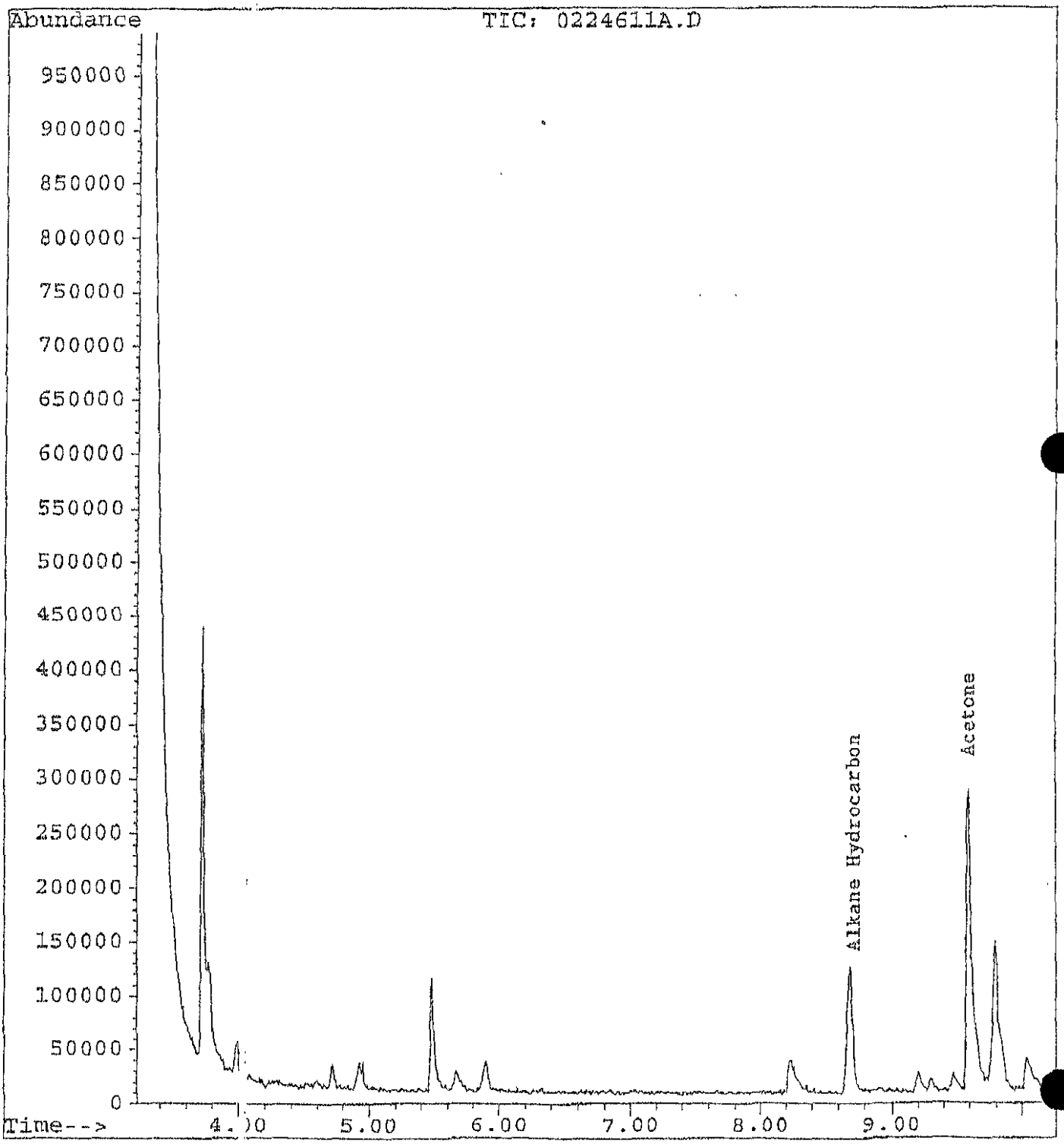
SDG : 202246

EPA TO-15 Laboratory Number: 11

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.2	ND	1.2	ND	U
80-62-6	Trichloroethene	0.2	ND	0.9	ND	U
110-75-87	Bromodichloromethane	0.2	ND	0.9	ND	U
108-10-1	Methyl methacrylate	0.2	ND	1.1	ND	U
108-88-3	4-Methyl-2-pentanone	7.9	ND	33.4	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.6	ND	2.7	ND	U
79-00-5	Toluene	0.2	1.2	0.7	5.6	
591-78-6	trans-1,3-Dichloropropene	0.2	ND	0.6	ND	U
142-28-9	1,1,2-Trichloroethane	0.2	ND	0.7	ND	U
111-65-9	2-Hexanone	0.2	ND	0.9	ND	U
124-48-1	1,3-Dichloropropane	0.6	ND	2.7	ND	U
106-93-4	Octane	0.2	ND	0.8	ND	U
127-18-4	Dibromochloromethane	0.8	ND	3.8	ND	U
108-90-7	1,2-Dibromoethane	0.2	ND	1.4	ND	U
0-20-6	Tetrachloroethene	0.2	ND	1.3	ND	U
0-41-4	Chlorobenzene	0.2	ND	1.1	ND	U
108-38-3	1,1,1,2-Tetrachloroethane	0.2	ND	0.8	ND	U
108-94-1	Ethylbenzene	1.6	ND	11.2	ND	U
100-42-5	m & p-Xylene	0.2	1.0	0.7	4.4	
95-47-6	Styrene	0.2	ND	0.7	ND	U
79-34-5	Bromoform	0.2	ND	0.7	ND	U
96-18-4	o-Xylene	0.3	0.3	3.4	3.5	
110-57-6	1,1,2,2-Tetrachloroethane	0.2	ND	0.7	ND	U
103-65-1	1,2,3-Trichloropropane	0.2	ND	1.1	ND	U
98-82-8	t-1,4-Dichloro-2-butene	7.9	ND	49.2	ND	U
98-83-9	4-Ethyltoluene	7.9	ND	41.7	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.2	ND	0.8	ND	U
95-63-6	Methylstyrene	0.2	ND	0.8	ND	U
541-73-1	1,2,4-Trimethylbenzene	7.9	ND	39.4	ND	U
100-44-7	1,3-Dichlorobenzene	0.2	ND	0.8	ND	U
104-51-8	Benzyl chloride	0.2	ND	1.0	ND	U
95-50-1	1,4-Dichlorobenzene	0.2	ND	0.8	ND	U
78-00-2	1,2-Dichlorobenzene	0.2	ND	1.0	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.2	ND	1.0	ND	U
87-68-3	1,2,4-Trichlorobenzene	7.9	ND	78.8	ND	U
87-61-6	Napthalene	0.2	ND	1.2	ND	U
87-68-3	Hexachlorobutadiene	1.6	ND	8.6	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06072MS1\0224611A.D
Operator : KB/SS/KS
Acquired : 7 Jun 102 8:14 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-122 CAN# 756 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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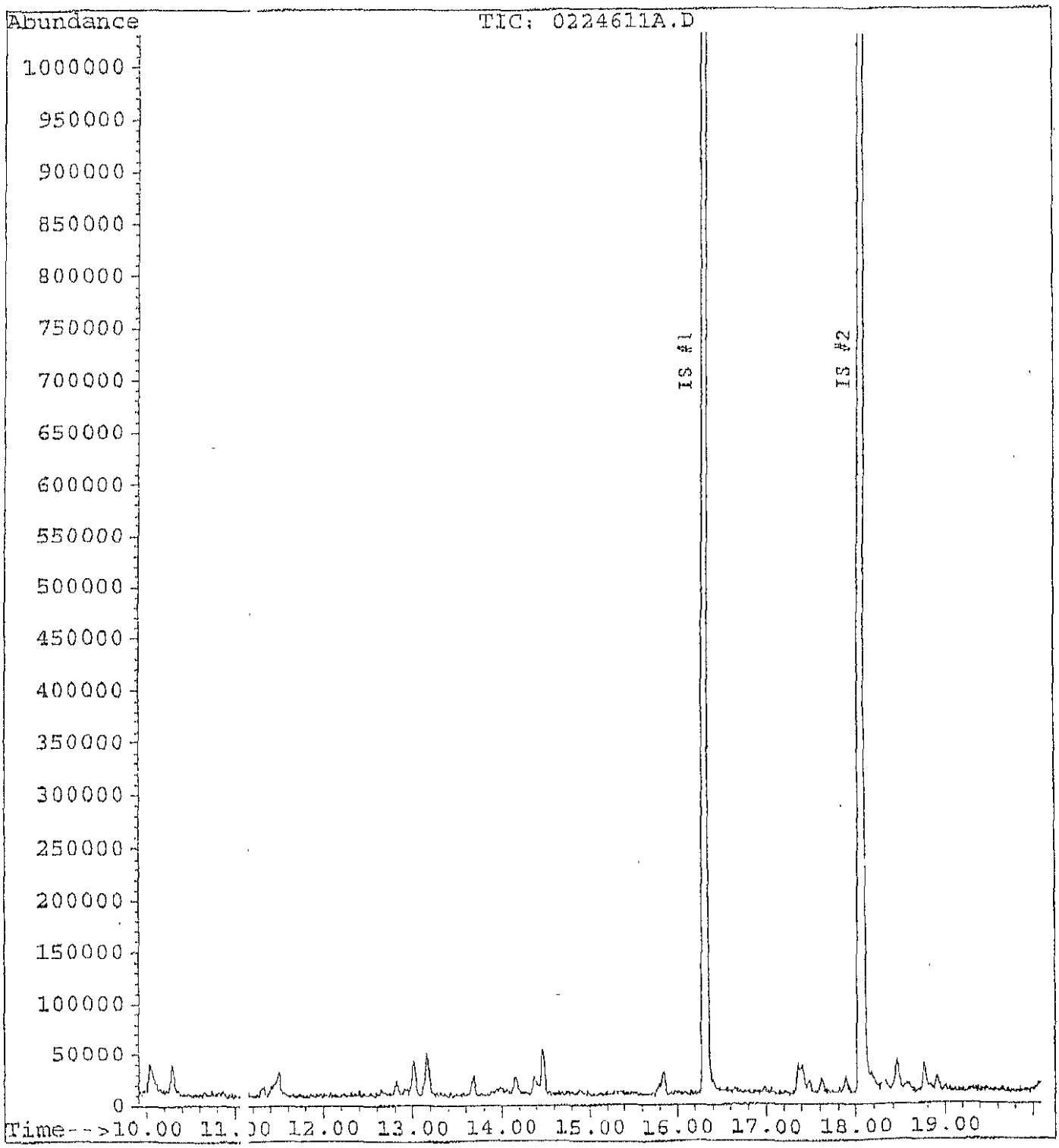
Operator : KB/SS/KS
Acquired : 7 Jun 102 8:14 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-122 CAN# 756 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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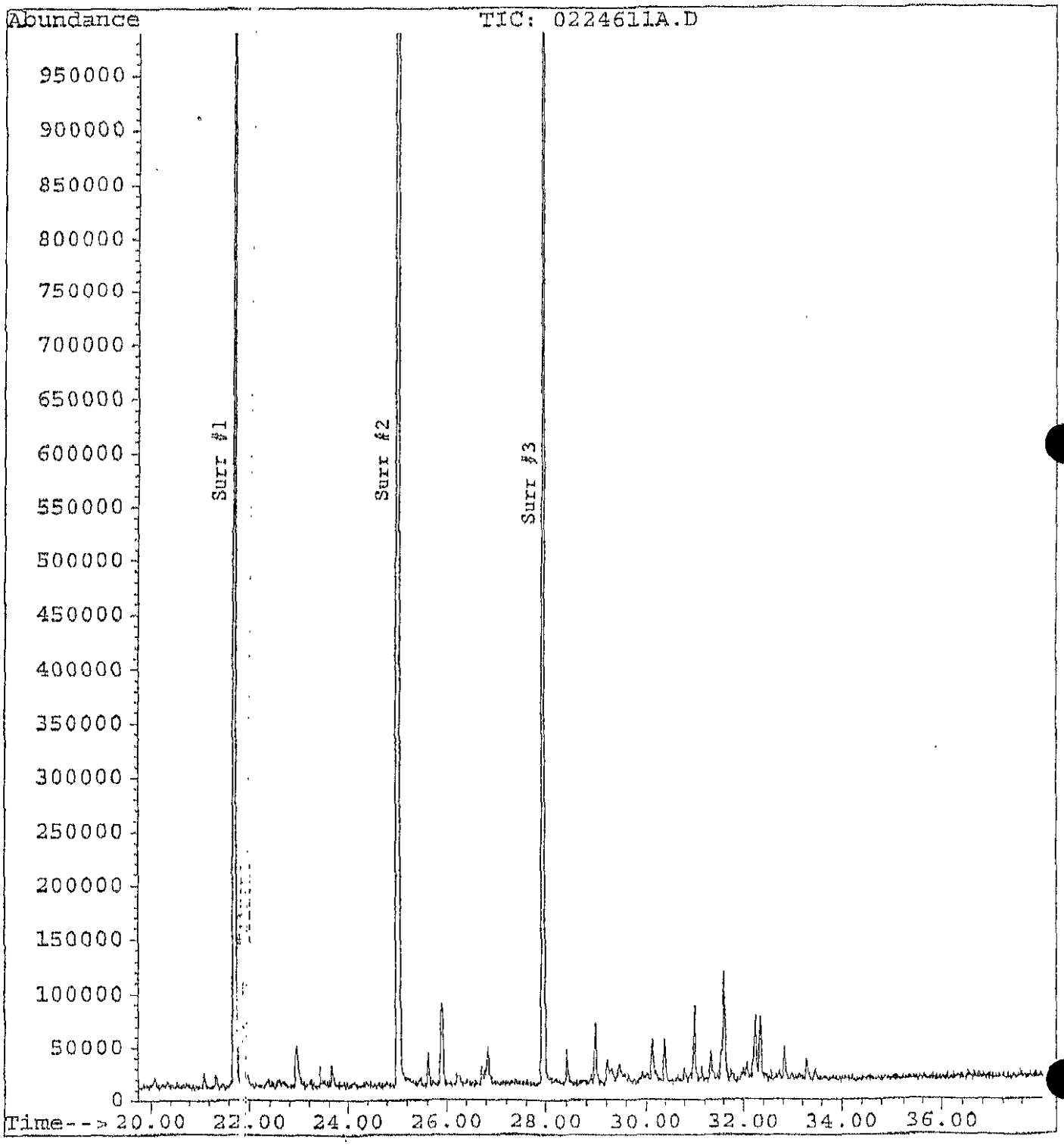
Operator : KB/SS/KS
Acquired : 7 Jun 102 8:14 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-122 CAN# 756 500ML
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 12

File: 0224612A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEA .TH CONSULTANTS Date Received: 06/05/02
Description: CM0604-123 CAN #7(7 500mL Date Analyzed: 06/10/02 Time:
Sam_Type. SA Dilution Factor: 1.18 Can#: 707
QC_Batch: 061002-MS1 Analyst: SS/KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	0.7	0.6	3.7	
74-87-3	Chloromethane	0.1	0.8	0.3	1.6	
76-14-2	Freon 114	0.1	ND	0.9	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.3	ND	U
74-83-9	Bromomethane	0.1	ND	0.5	ND	U
75-00-3	Chloroethane	0.1	ND	0.3	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.4	0.7	2.5	
75-05-8	Acetonitrile	5.9	ND	10.2	ND	U
67-64-1	Acetone	0.9	8.4	2.3	20.7	
7-95-6	Methyl iodide	0.6	ND	3.5	ND	U
5-4	1,1-Dichloroethene	0.1	ND	0.5	ND	U
107-13-1	Acrylonitrile	5.9	ND	13.2	ND	U
76-13-1	Freon 113	0.1	0.1	0.9	0.9	
107-05-1	Allyl chloride	0.6	ND	1.9	ND	U
75-09-2	Methylene chloride	0.1	0.6	0.4	2.2	
75-15-0	Carbon disulfide	1.2	1.5	3.8	4.9	
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.5	ND	U
1634-04-4	Methyl tert butyl ether	0.1	1.0	0.4	3.8	
107-12-0	Propionitrile	5.9	ND	13.7	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.5	ND	U
108-05-4	Vinyl acetate	0.6	ND	2.1	ND	U
78-93-3	2-Butanone	0.6	ND	1.8	ND	U
78-83-1	Isobutyl alcohol	59.0	ND	184.7	ND	U
126-98-7	Methacrylonitrile	5.9	ND	16.7	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.5	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.6	ND	U
67-66-3	Chloroform	0.1	ND	0.6	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.7	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.5	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.6	ND	U
71-43-2	Benzene	0.1	0.3	0.4	1.0	
56-23-5	Carbon tetrachloride	0.1	ND	0.8	ND	U
142-82-5	n-Heptane	0.6	ND	2.5	ND	U
37-5	1,2-Dichloropropane	0.1	ND	0.6	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

SDG : 202246

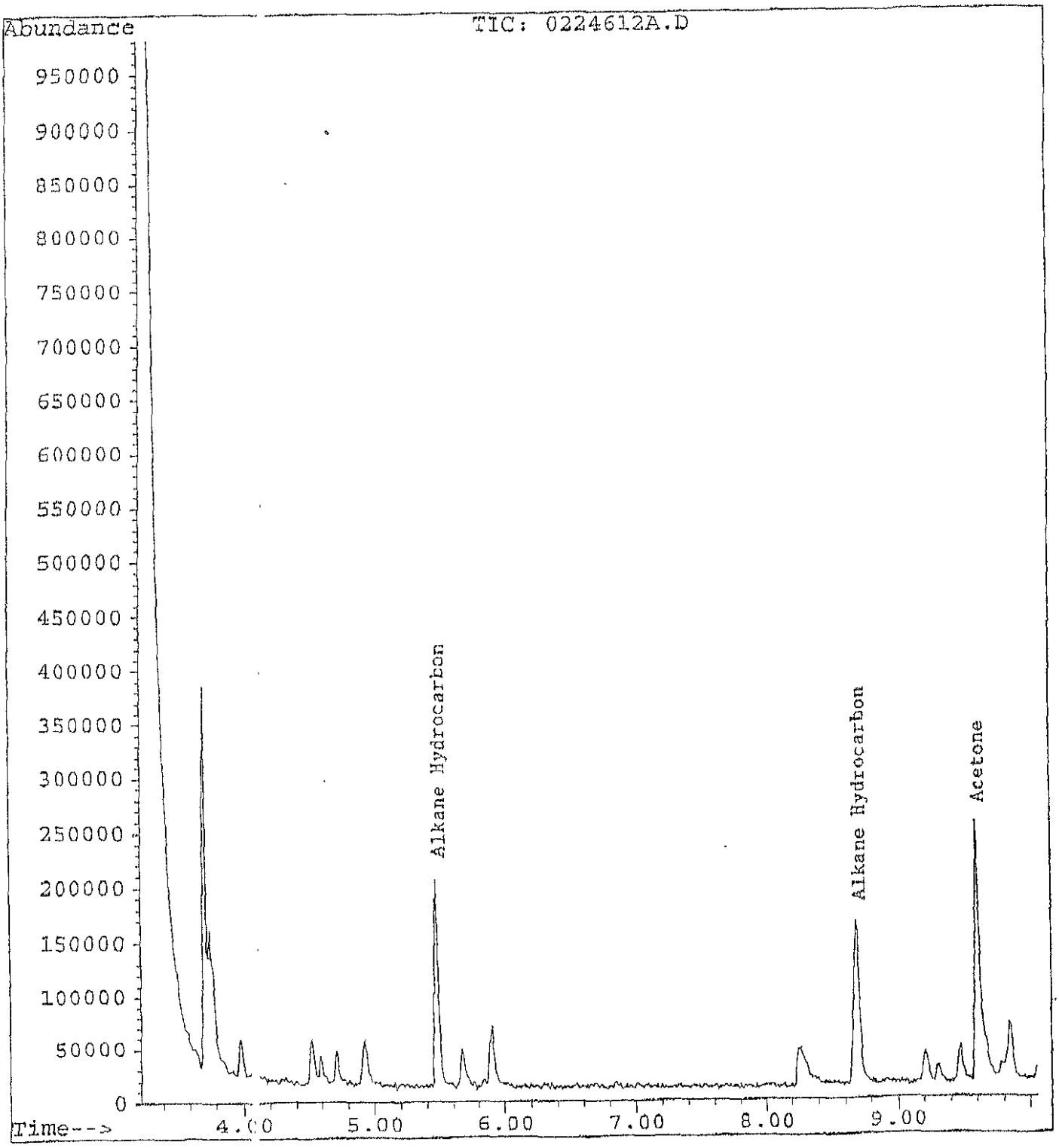
EPA TO-15

Laboratory Number: 12

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	0.9	ND	U
80-62-6	Trichloroethene	0.1	ND	0.7	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.7	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.8	ND	U
108-88-3	4-Methyl-2-pentanone	5.9	ND	24.9	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.5	ND	2.0	ND	U
79-00-5	Toluene	0.1	1.4	0.6	6.4	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.5	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.6	ND	U
111-65-9	2-Hexanone	0.1	1.1	0.7	5.9	
124-48-1	1,3-Dichloropropane	0.5	ND	2.0	ND	U
106-93-4	Octane	0.1	ND	0.6	ND	U
127-18-4	Dibromochloromethane	0.6	ND	2.8	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	1.0	ND	U
[illegible]-20-6	Tetrachloroethene	0.1	0.1	0.9	1.0	
[illegible]0-41-4	Chlorobenzene	0.1	ND	0.8	ND	U
108-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.6	ND	U
108-94-1	Ethylbenzene	1.2	ND	8.4	ND	U
100-42-5	m & p-Xylene	0.1	0.7	0.5	3.3	
95-47-6	Styrene	0.1	ND	0.5	ND	U
79-34-5	Bromoform	0.1	ND	0.5	ND	U
96-18-4	o-Xylene	0.2	0.3	2.5	2.7	
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.5	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.8	ND	U
98-82-8	t-1,4-Dichloro-2-butene	5.9	ND	36.7	ND	U
98-83-9	4-Ethyltoluene	5.9	ND	31.1	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.6	ND	U
95-63-6	Methylstyrene	0.1	ND	0.6	ND	U
541-73-1	1,2,4-Trimethylbenzene	5.9	ND	29.4	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	0.1	0.6	0.6	
104-51-8	Benzyl chloride	0.1	ND	0.7	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	0.2	0.6	1.0	
78-00-2	1,2-Dichlorobenzene	0.1	0.1	0.7	0.8	
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.7	ND	U
87-68-3	1,2,4-Trichlorobenzene	5.9	ND	58.9	ND	U
87-61-6	Napthalene	0.1	ND	0.9	ND	U
87-68-3	Hexachlorobutadiene	1.2	ND	6.4	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06102MS1\0224612A.D
Operator : SS/KS
Acquired : 10 Jun 102 4:33 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-123 CAN #707 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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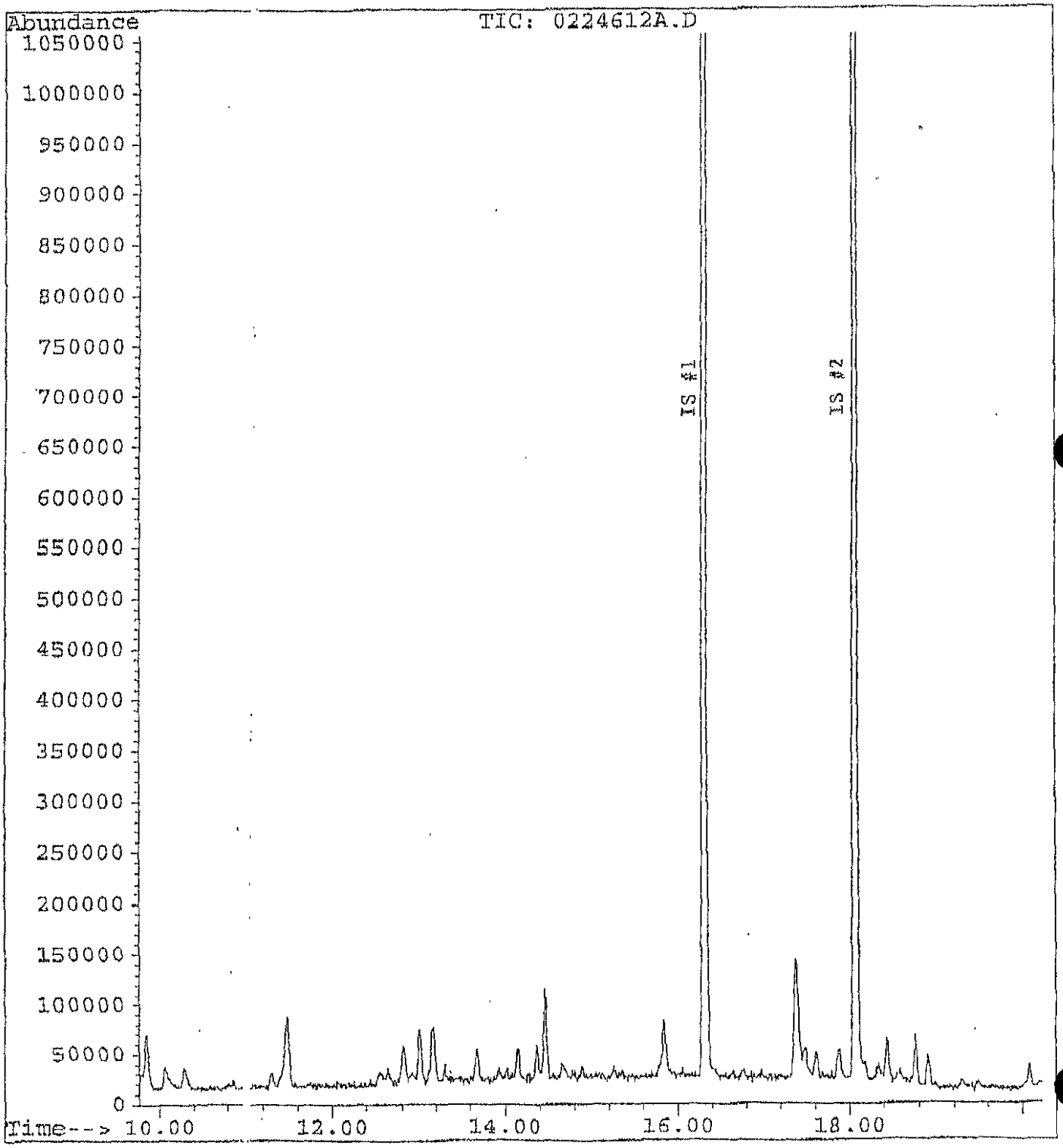
Operator : SS/KS
Acquired : 10 Jun 102 4:33 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-123 CAN #707 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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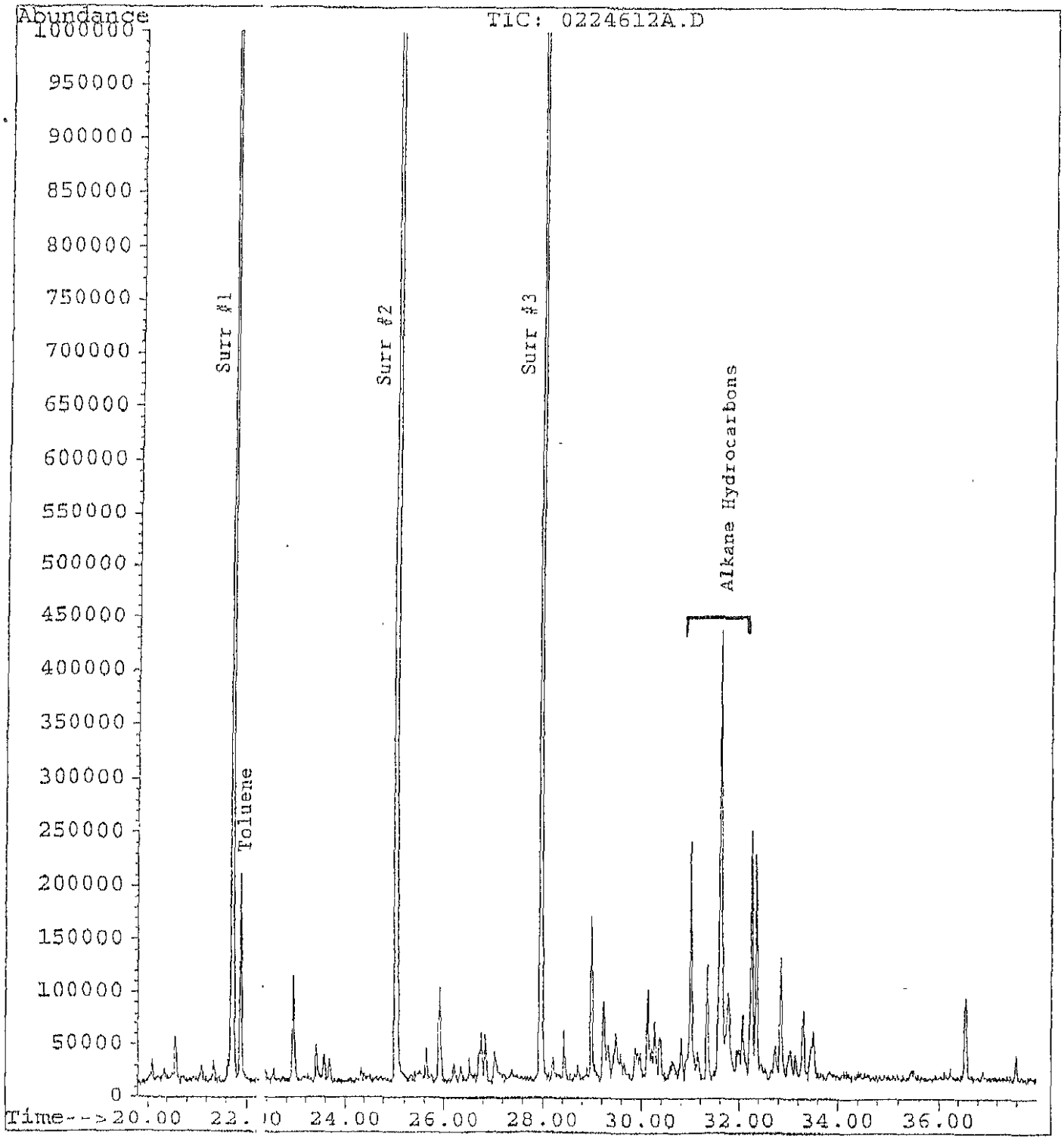
Operator : SS/KS
Acquired : 10 Jun 102 4:33 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-123 CAN #707 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 13

File: 0224613A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-128 CAN #213 500mL Date Analyzed: 06/10/02 Time:
Sam_Type: SA Dilution Factor: 1.33 Can#: 213
QC_Batch: 061002-MS1 Analyst: SS/KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	0.6	0.7	3.2	
74-87-3	Chloromethane	0.1	0.5	0.3	1.1	
76-14-2	Freon 114	0.1	ND	1.0	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.4	ND	U
74-83-9	Bromomethane	0.1	ND	0.5	ND	U
75-00-3	Chloroethane	0.1	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.3	0.8	1.7	
75-05-8	Acetonitrile	6.7	ND	11.5	ND	U
67-64-1	Acetone	1.1	5.0	2.6	12.2	
7-95-6	Methyl iodide	0.7	ND	4.0	ND	U
35-4	1,1-Dichloroethene	0.1	ND	0.5	ND	U
107-13-1	Acrylonitrile	6.7	ND	14.9	ND	U
76-13-1	Freon 113	0.1	ND	1.1	ND	U
107-05-1	Allyl chloride	0.7	ND	2.1	ND	U
75-09-2	Methylene chloride	0.1	0.2	0.5	0.6	
75-15-0	Carbon disulfide	1.3	ND	4.3	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.5	ND	U
1634-04-4	Methyl tert butyl ether	0.1	0.9	0.5	3.3	
107-12-0	Propionitrile	6.7	ND	15.5	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.6	ND	U
108-05-4	Vinyl acetate	0.7	ND	2.4	ND	U
78-93-3	2-Butanone	0.7	ND	2.0	ND	U
78-83-1	Isobutyl alcohol	66.5	ND	208.1	ND	U
126-98-7	Methacrylonitrile	6.7	ND	18.8	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.5	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.6	ND	U
67-66-3	Chloroform	0.1	ND	0.7	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.7	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.6	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.6	ND	U
71-43-2	Benzene	0.1	0.2	0.4	0.8	
56-23-5	Carbon tetrachloride	0.1	ND	0.9	ND	U
142-82-5	n-Heptane	0.7	ND	2.8	ND	U
-87-5	1,2-Dichloropropane	0.1	ND	0.6	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

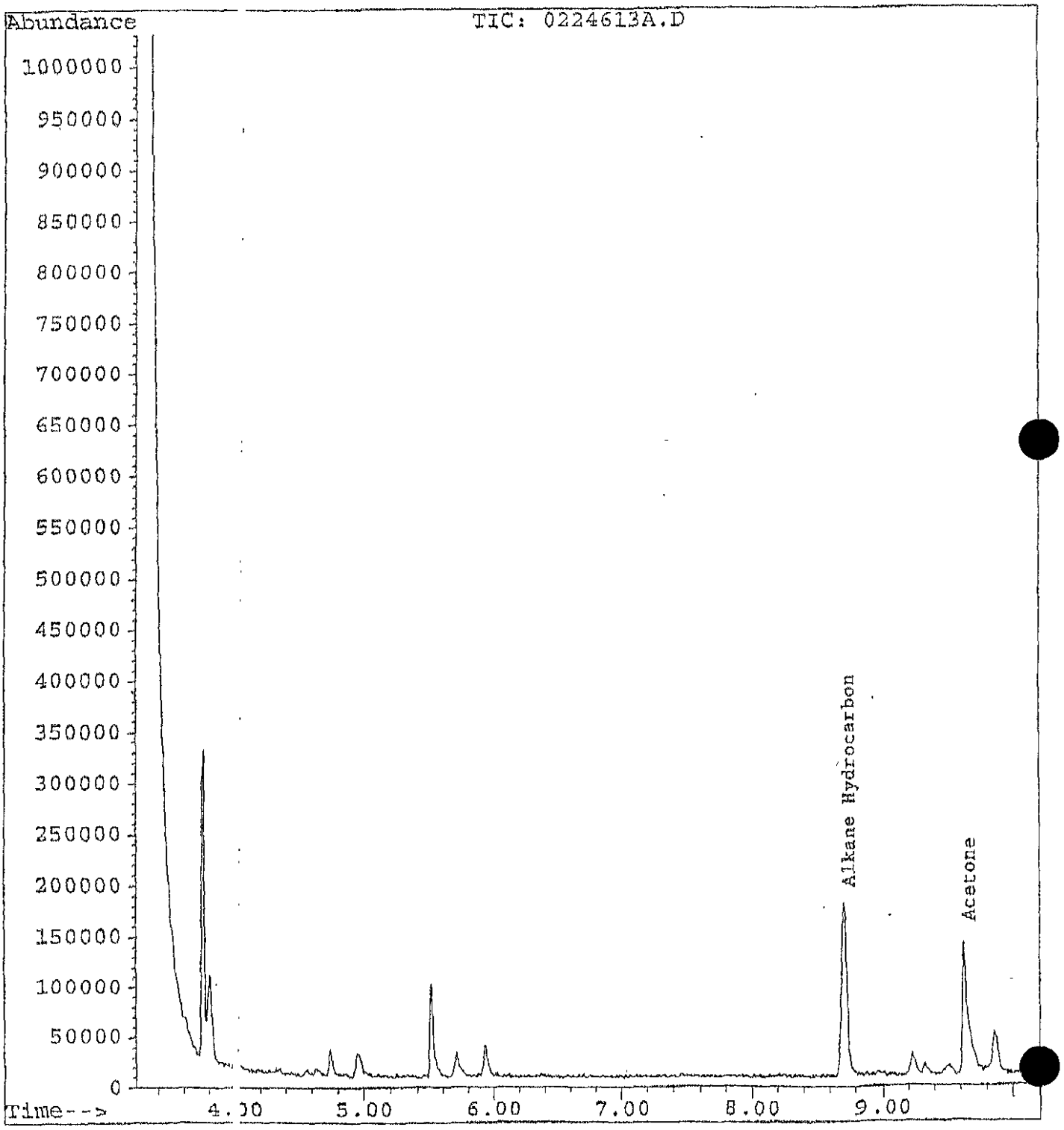
SDG . 202246

EPA TO-15 Laboratory Number: 13

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	1.0	ND	U
80-62-6	Trichloroethene	0.1	ND	0.7	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.7	ND	U
108-10-1	Methyl methacrylate	0.1	ND	0.9	ND	U
108-88-3	4-Methyl-2-pentanone	6.7	ND	28.1	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.5	ND	2.3	ND	U
79-00-5	Toluene	0.1	1.3	0.6	6.1	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.5	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.6	ND	U
111-65-9	2-Hexanone	0.1	ND	0.7	ND	U
124-48-1	1,3-Dichloropropane	0.5	ND	2.3	ND	U
106-93-4	Octane	0.1	ND	0.6	ND	U
127-18-4	Dibromochloromethane	0.7	ND	3.2	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	1.2	ND	U
[illegible]-20-6	Tetrachloroethene	0.1	ND	1.1	ND	U
[illegible]-41-4	Chlorobenzene	0.1	ND	0.9	ND	U
108-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.6	ND	U
108-94-1	Ethylbenzene	1.3	ND	9.4	ND	U
100-42-5	m & p-Xylene	0.1	0.4	0.6	2.0	
95-47-6	Styrene	0.1	ND	0.6	ND	U
79-34-5	Bromoform	0.1	ND	0.6	ND	U
96-18-4	o-Xylene	0.3	ND	2.8	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.6	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	0.9	ND	U
98-82-8	t-1,4-Dichloro-2-butene	6.7	ND	41.4	ND	U
98-83-9	4-Ethyltoluene	6.7	ND	35.1	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.7	ND	U
95-63-6	Methylstyrene	0.1	ND	0.7	ND	U
541-73-1	1,2,4-Trimethylbenzene	6.7	ND	33.2	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.7	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.8	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.7	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.8	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.8	ND	U
87-68-3	1,2,4-Trichlorobenzene	6.7	ND	66.4	ND	U
87-61-6	Napthalene	0.1	ND	1.0	ND	U
87-68-3	Hexachlorobutadiene	1.3	ND	7.2	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06102MS1\0224613A.D
Operator : SS/MS
Acquired : 10 Jun 102 5:27 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0204-128 CAN #213 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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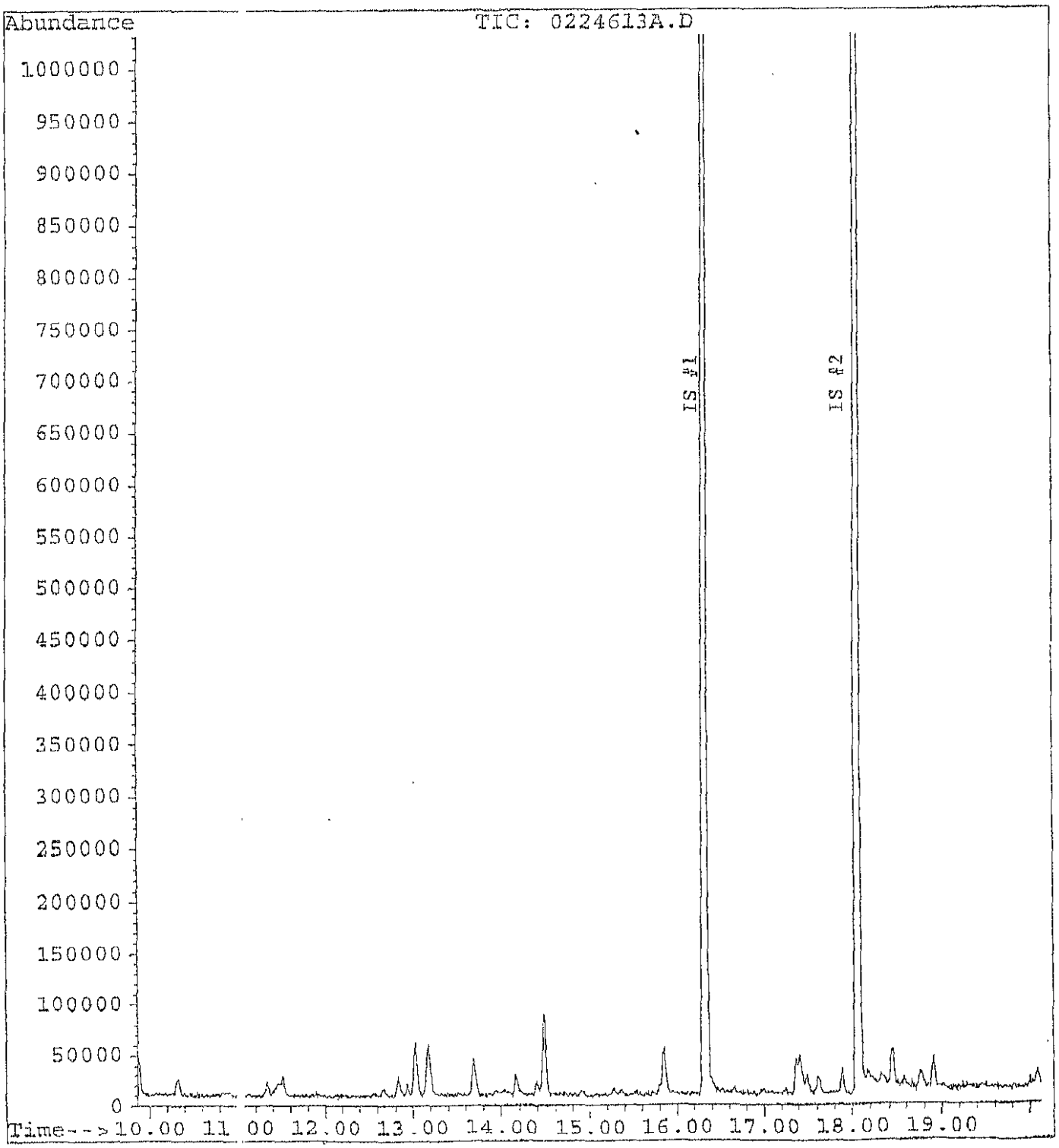
Operator : SS/TS
Acquired : 10 Jun 102 5:27 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0304-128 CAN #213 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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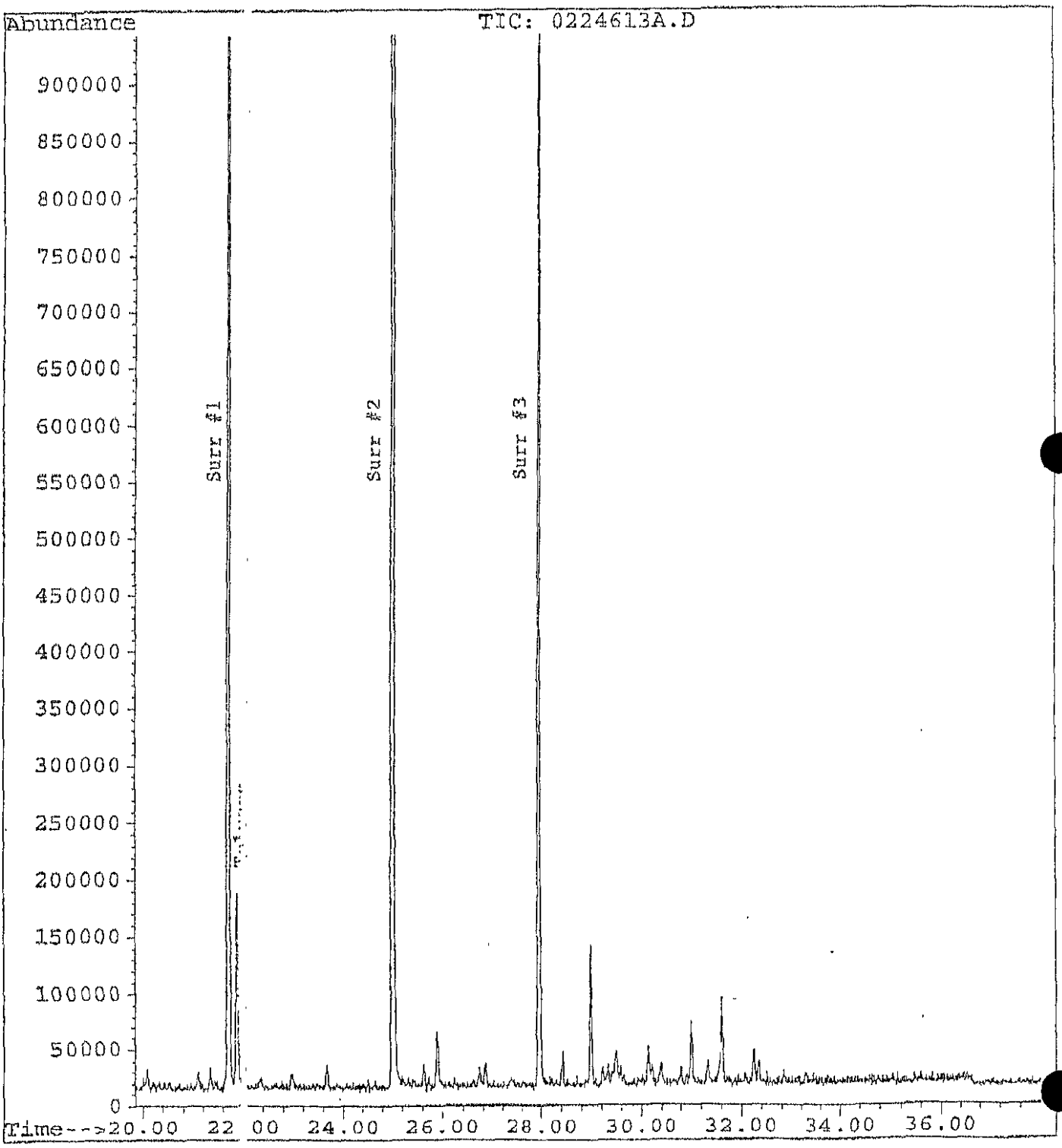
Operator : SS/MS
Acquired : 10 Jun 102 5:27 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-128 CAN #213 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 14

File: 0224614A.D
Client: ENVIRONMENTAL HEALTH CONSULTANTS
Description: CM0604-129 CAN #179 500mL
Sam_Type: SA
QC_Batch: 061002-MS1

Date Sampled: 06/04/02 Time:
Date Received: 06/05/02
Date Analyzed: 06/10/02 Time:
Dilution Factor: 1.54 Can#: 179
Analyst: SS/KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.2	0.9	0.8	4.8	
74-87-3	Chloromethane	0.2	0.8	0.3	1.7	
76-14-2	Freon 114	0.2	ND	1.1	ND	U
75-01-4	Vinyl chloride	0.2	ND	0.4	ND	U
74-83-9	Bromomethane	0.2	ND	0.6	ND	U
75-00-3	Chloroethane	0.2	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.2	0.5	0.9	2.8	
75-05-8	Acetonitrile	7.7	ND	13.3	ND	U
67-64-1	Acetone	1.2	10.7	3.0	26.3	
74-95-6	Methyl iodide	0.8	ND	4.6	ND	U
75-35-4	1,1-Dichloroethene	0.2	ND	0.6	ND	U
107-13-1	Acrylonitrile	7.7	ND	17.3	ND	U
76-13-1	Freon 113	0.2	0.2	1.2	1.3	
107-05-1	Allyl chloride	0.8	ND	2.5	ND	U
75-09-2	Methylene chloride	0.2	0.2	0.6	0.9	
75-15-0	Carbon disulfide	1.5	ND	5.0	ND	U
156-60-5	trans-1,2-Dichloroethene	0.2	ND	0.6	ND	U
1634-04-4	Methyl tert butyl ether	0.2	1.2	0.6	4.6	
107-12-0	Propionitrile	7.7	ND	17.9	ND	U
75-34-3	1,1-Dichloroethane	0.2	ND	0.6	ND	U
108-05-4	Vinyl acetate	0.8	ND	2.8	ND	U
78-93-3	2-Butanone	0.8	ND	2.3	ND	U
78-83-1	Isobutyl alcohol	77.0	ND	241.0	ND	U
126-98-7	Methacrylonitrile	7.7	ND	21.8	ND	U
156-59-2	cis-1,2-Dichloroethene	0.2	ND	0.6	ND	U
594-20-7	2,2-Dichloropropane	0.2	ND	0.7	ND	U
67-66-3	Chloroform	0.2	ND	0.8	ND	U
71-55-6	1,1,1-Trichloroethane	0.2	ND	0.9	ND	U
107-06-2	1,2-Dichloroethane	0.2	ND	0.6	ND	U
563-58-6	1,1-Dichloropropene	0.2	ND	0.7	ND	U
71-43-2	Benzene	0.2	0.4	0.5	1.4	
56-23-5	Carbon tetrachloride	0.2	ND	1.0	ND	U
142-82-5	n-Heptane	0.8	ND	3.3	ND	U
78-87-5	1,2-Dichloropropane	0.2	ND	0.7	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

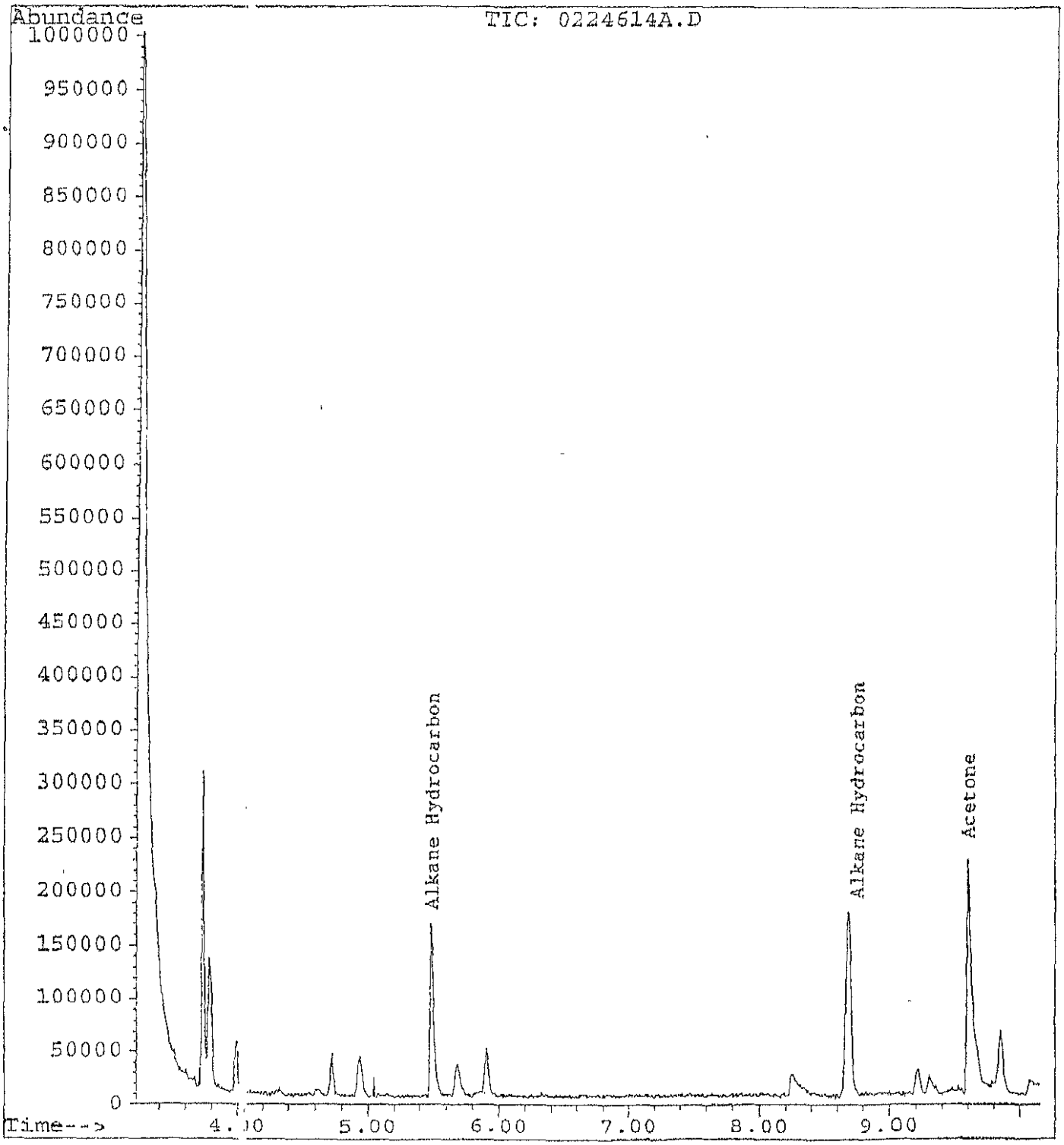
SDG : 202246

EPA TO-15 Laboratory Number: 14

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.2	ND	1.1	ND	U
80-62-6	Trichloroethene	0.2	ND	0.9	ND	U
110-75-87	Bromodichloromethane	0.2	ND	0.9	ND	U
108-10-1	Methyl methacrylate	0.2	ND	1.1	ND	U
108-88-3	4-Methyl-2-pentanone	7.7	ND	32.6	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.6	ND	2.6	ND	U
79-00-5	Toluene	0.2	6.7	0.7	31.2	
591-78-6	trans-1,3-Dichloropropene	0.2	ND	0.6	ND	U
142-28-9	1,1,2-Trichloroethane	0.2	0.5	0.7	2.3	
111-65-9	2-Hexanone	0.2	ND	0.9	ND	U
124-48-1	1,3-Dichloropropane	0.6	ND	2.6	ND	U
106-93-4	Octane	0.2	ND	0.7	ND	U
127-18-4	Dibromochloromethane	0.8	ND	3.7	ND	U
108-90-7	1,2-Dibromoethane	0.2	ND	1.4	ND	U
0-20-6	Tetrachloroethene	0.2	ND	1.2	ND	U
0-41-4	Chlorobenzene	0.2	ND	1.1	ND	U
108-38-3	1,1,1,2-Tetrachloroethane	0.2	ND	0.7	ND	U
108-94-1	Ethylbenzene	1.5	ND	10.9	ND	U
100-42-5	m & p-Xylene	0.2	3.0	0.7	13.4	
95-47-6	Styrene	0.2	0.3	0.7	1.6	
79-34-5	Bromoform	0.2	ND	0.7	ND	U
96-18-4	o-Xylene	0.3	0.8	3.3	8.9	
110-57-6	1,1,2,2-Tetrachloroethane	0.2	ND	0.7	ND	U
103-65-1	1,2,3-Trichloropropane	0.2	ND	1.1	ND	U
98-82-8	t-1,4-Dichloro-2-butene	7.7	ND	47.9	ND	U
98-83-9	4-Ethyltoluene	7.7	ND	40.6	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.2	0.2	0.8	0.8	
95-63-6	Methylstyrene	0.2	ND	0.8	ND	U
541-73-1	1,2,4-Trimethylbenzene	7.7	ND	38.4	ND	U
100-44-7	1,3-Dichlorobenzene	0.2	ND	0.8	ND	U
104-51-8	Benzyl chloride	0.2	ND	1.0	ND	U
95-50-1	1,4-Dichlorobenzene	0.2	ND	0.8	ND	U
78-00-2	1,2-Dichlorobenzene	0.2	ND	1.0	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.2	ND	1.0	ND	U
87-68-3	1,2,4-Trichlorobenzene	7.7	ND	76.8	ND	U
87-61-6	Napthalene	0.2	ND	1.2	ND	U
87-68-3	Hexachlorobutadiene	1.5	ND	8.3	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06102MS1\0224614A.D
Operator : SS/KS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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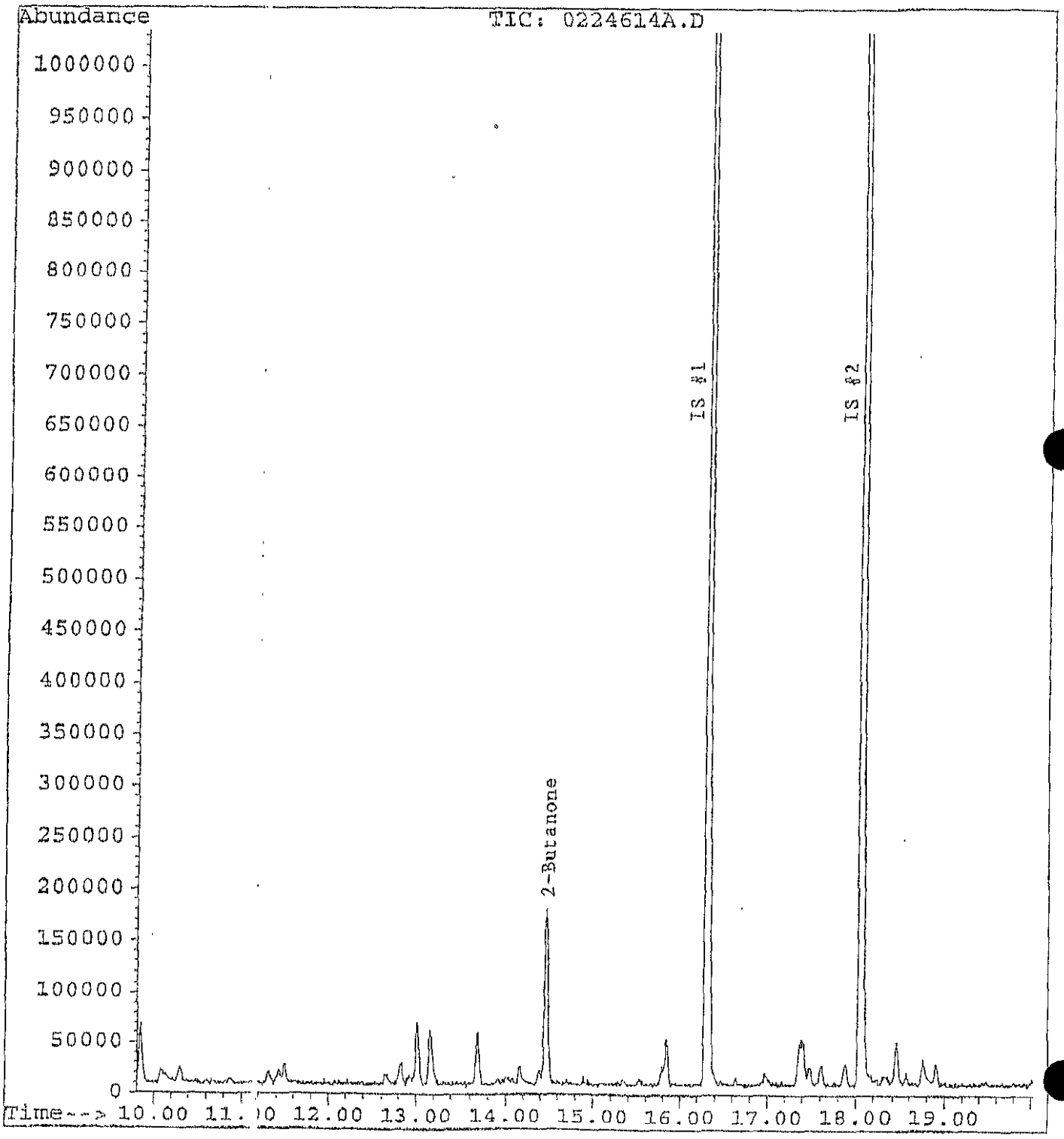
Operator : SS/KS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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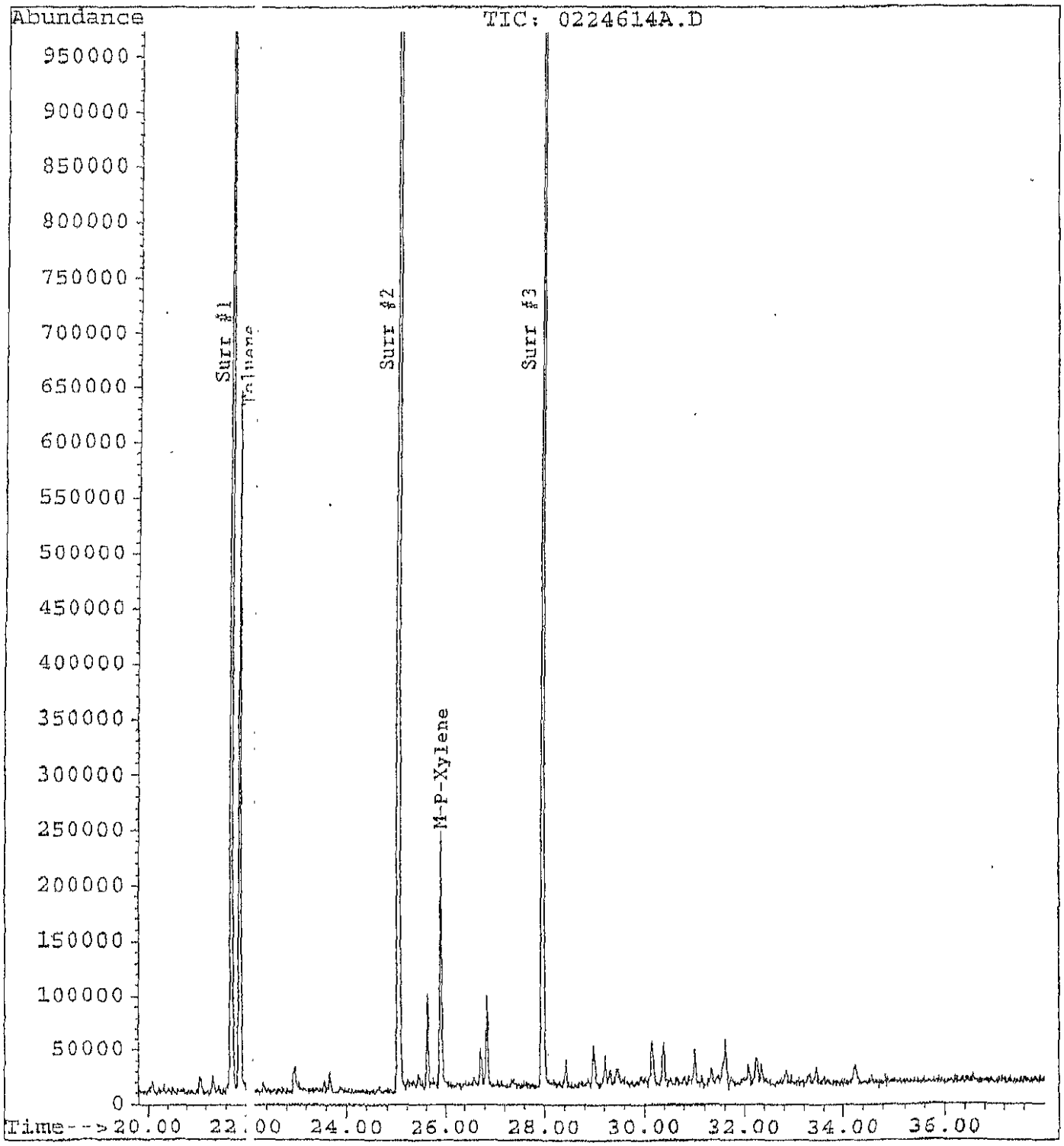
Operator : SS/KS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

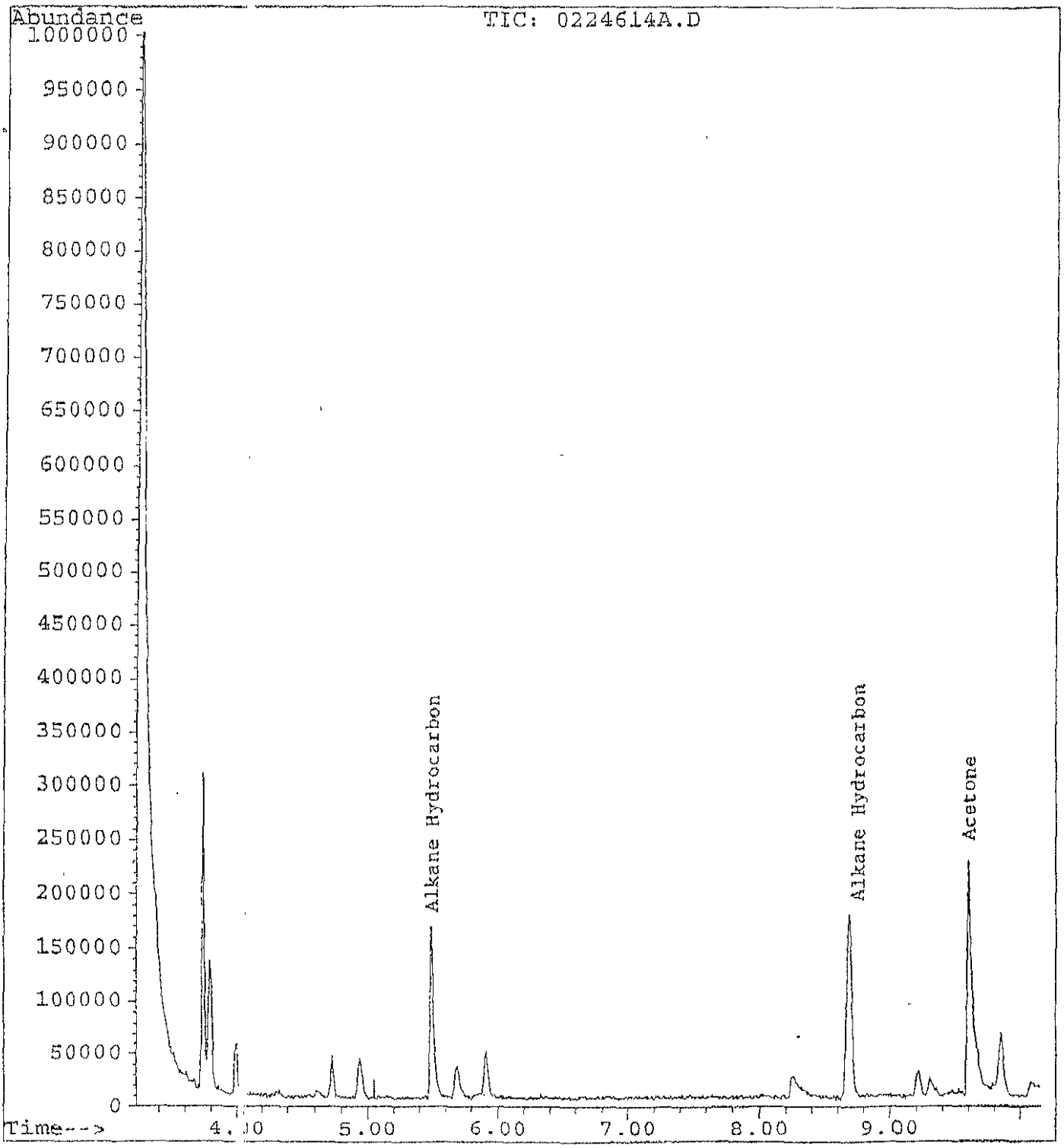
SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 15

File: 0224615A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-OUTDOOR CAN #616 500mL Date Analyzed: 06/10/02 Time:
Sam_Type: SA Dilution Factor: 1.40 Can#: 616
QC_Batch: 061002-MS1 Analyst: SS/KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	0.8	0.7	4.2	
74-87-3	Chloromethane	0.1	0.7	0.3	1.5	
76-14-2	Freon 114	0.1	ND	1.0	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.4	ND	U
74-83-9	Bromomethane	0.1	ND	0.6	ND	U
75-00-3	Chloroethane	0.1	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.4	0.8	2.5	
75-05-8	Acetonitrile	7.0	ND	12.1	ND	U
67-64-1	Acetone	1.1	9.0	2.7	22.0	
[illegible]27-95-6	Methyl iodide	0.7	ND	4.2	ND	U
[illegible]5-4	1,1-Dichloroethene	0.1	ND	0.6	ND	U
107-13-1	Acrylonitrile	7.0	ND	15.7	ND	U
76-13-1	Freon 113	0.1	0.2	1.1	1.3	
107-05-1	Allyl chloride	0.7	ND	2.3	ND	U
75-09-2	Methylene chloride	0.1	0.9	0.5	3.3	
75-15-0	Carbon disulfide	1.4	ND	4.5	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.6	ND	U
1634-04-4	Methyl tert butyl ether	0.1	0.6	0.5	2.2	
107-12-0	Propionitrile	7.0	ND	16.3	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.6	ND	U
108-05-4	Vinyl acetate	0.7	ND	2.5	ND	U
78-93-3	2-Butanone	0.7	2.0	2.1	6.1	
78-83-1	Isobutyl alcohol	70.0	ND	219.1	ND	U
126-98-7	Methacrylonitrile	7.0	ND	19.8	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.6	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.7	ND	U
67-66-3	Chloroform	0.1	ND	0.7	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.8	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.6	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.7	ND	U
71-43-2	Benzene	0.1	0.4	0.5	1.4	
56-23-5	Carbon tetrachloride	0.1	ND	0.9	ND	U
142-82-5	n-Heptane	0.7	ND	3.0	ND	U
[illegible]87-5	1,2-Dichloropropane	0.1	ND	0.7	ND	U

File : C:\HSCHEM\1\DATA\06102MS1\0224614A.D
Operator : SS/HS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0404-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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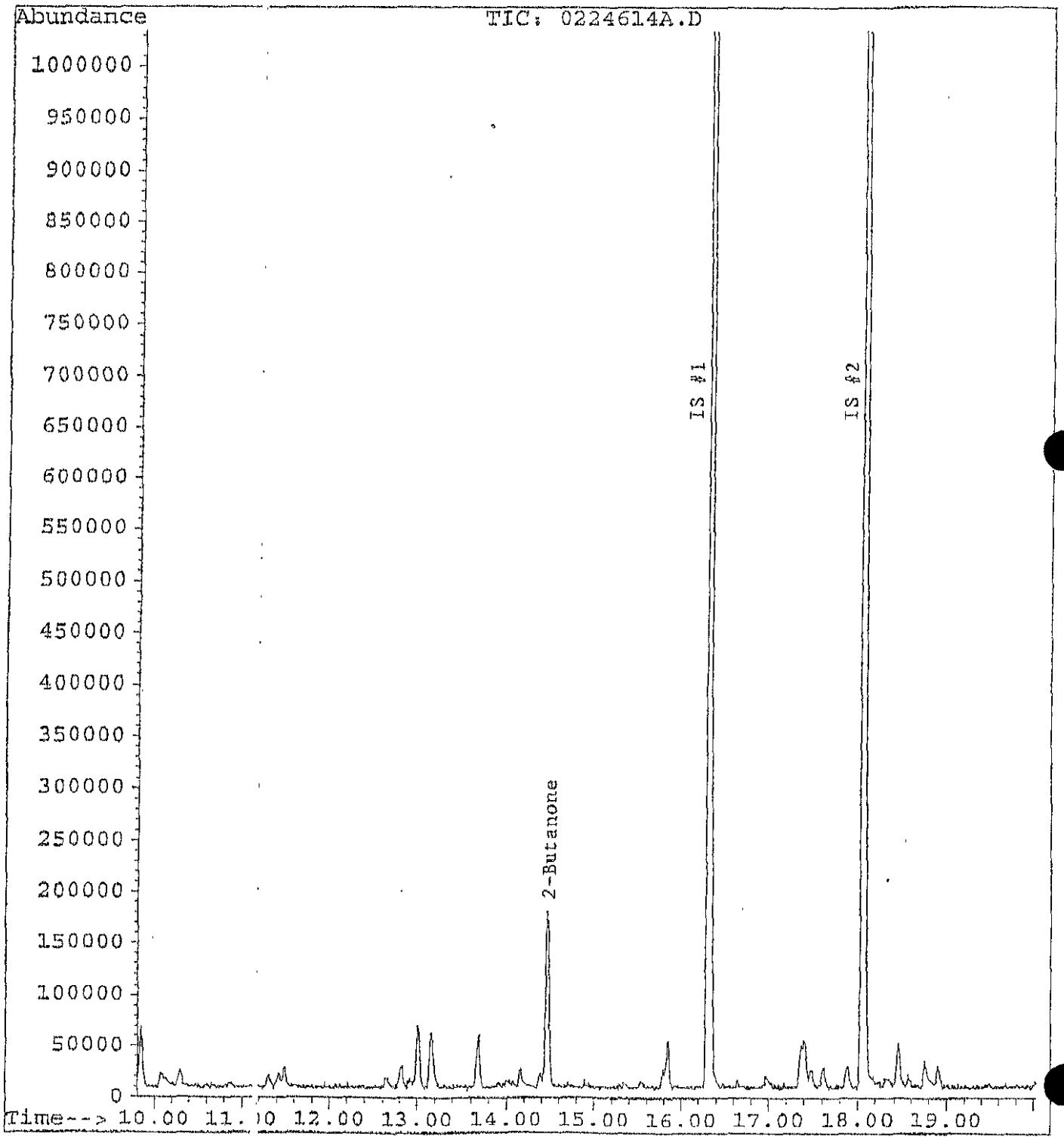
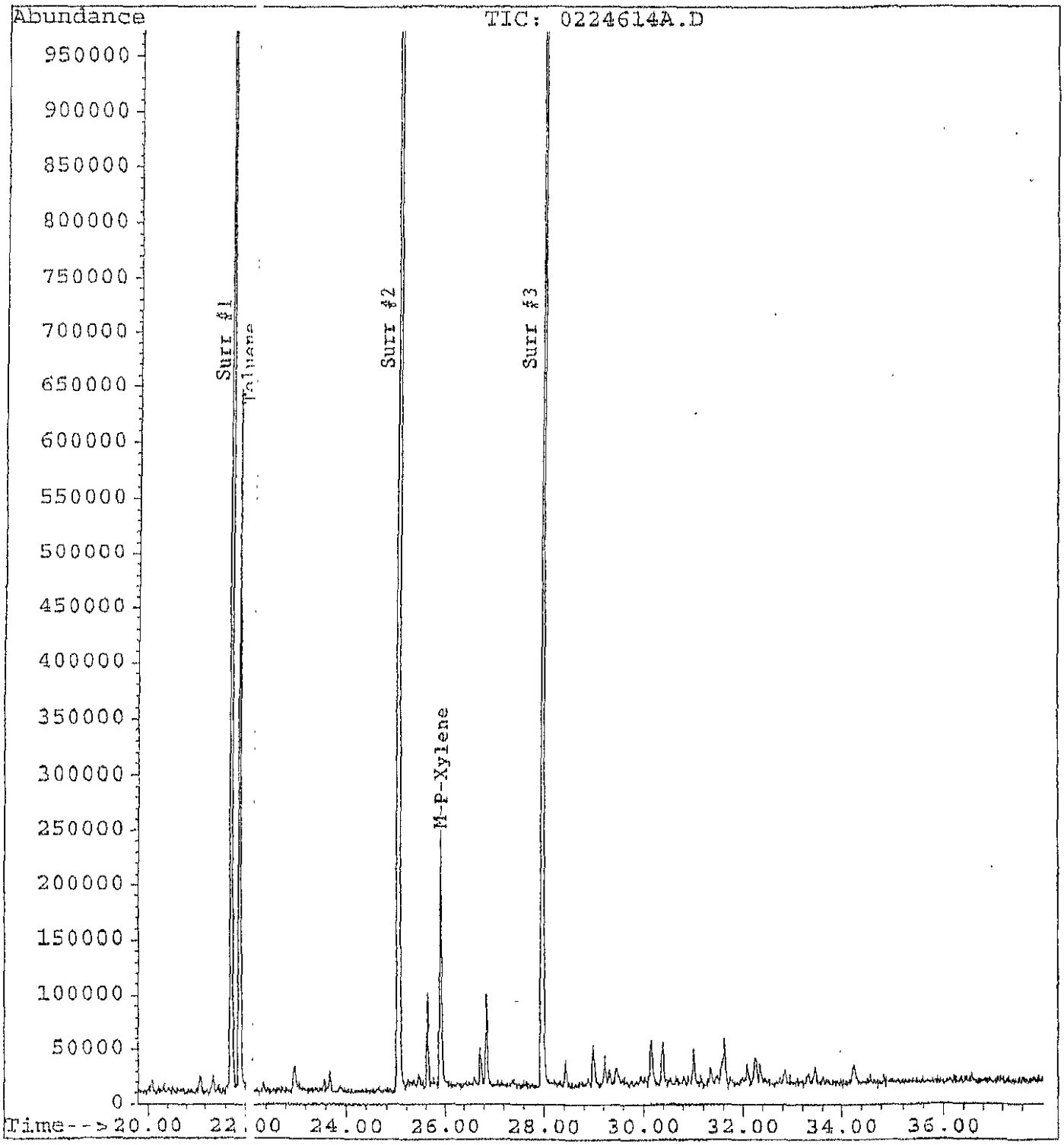
Operator : SS/KS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06102MS1\0224614A.D
Operator : SS/KS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 15

File: 0224615A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-OUTDOOR CAN #616 500mL Date Analyzed: 06/10/02 Time:
Sam_Type: SA Dilution Factor: 1.40 Can#: 616
QC_Batch: 061002-MS1 Analyst: SS/KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	0.8	0.7	4.2	
74-87-3	Chloromethane	0.1	0.7	0.3	1.5	
76-14-2	Freon 114	0.1	ND	1.0	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.4	ND	U
74-83-9	Bromomethane	0.1	ND	0.6	ND	U
75-00-3	Chloroethane	0.1	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.4	0.8	2.5	
75-05-8	Acetonitrile	7.0	ND	12.1	ND	U
67-64-1	Acetone	1.1	9.0	2.7	22.0	
[illegible]27-95-6	Methyl iodide	0.7	ND	4.2	ND	U
[illegible]5-4	1,1-Dichloroethene	0.1	ND	0.6	ND	U
107-13-1	Acrylonitrile	7.0	ND	15.7	ND	U
76-13-1	Freon 113	0.1	0.2	1.1	1.3	
107-05-1	Allyl chloride	0.7	ND	2.3	ND	U
75-09-2	Methylene chloride	0.1	0.9	0.5	3.3	
75-15-0	Carbon disulfide	1.4	ND	4.5	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.6	ND	U
1634-04-4	Methyl tert butyl ether	0.1	0.6	0.5	2.2	
107-12-0	Propionitrile	7.0	ND	16.3	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.6	ND	U
108-05-4	Vinyl acetate	0.7	ND	2.5	ND	U
78-93-3	2-Butanone	0.7	2.0	2.1	6.1	
78-83-1	Isobutyl alcohol	70.0	ND	219.1	ND	U
126-98-7	Methacrylonitrile	7.0	ND	19.8	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.6	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.7	ND	U
67-66-3	Chloroform	0.1	ND	0.7	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.8	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.6	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.7	ND	U
71-43-2	Benzene	0.1	0.4	0.5	1.4	
56-23-5	Carbon tetrachloride	0.1	ND	0.9	ND	U
142-82-5	n-Heptane	0.7	ND	3.0	ND	U
[illegible] 87-5	1,2-Dichloropropane	0.1	ND	0.7	ND	U

ENVIRONMENTAL
Analytical Service, Inc.

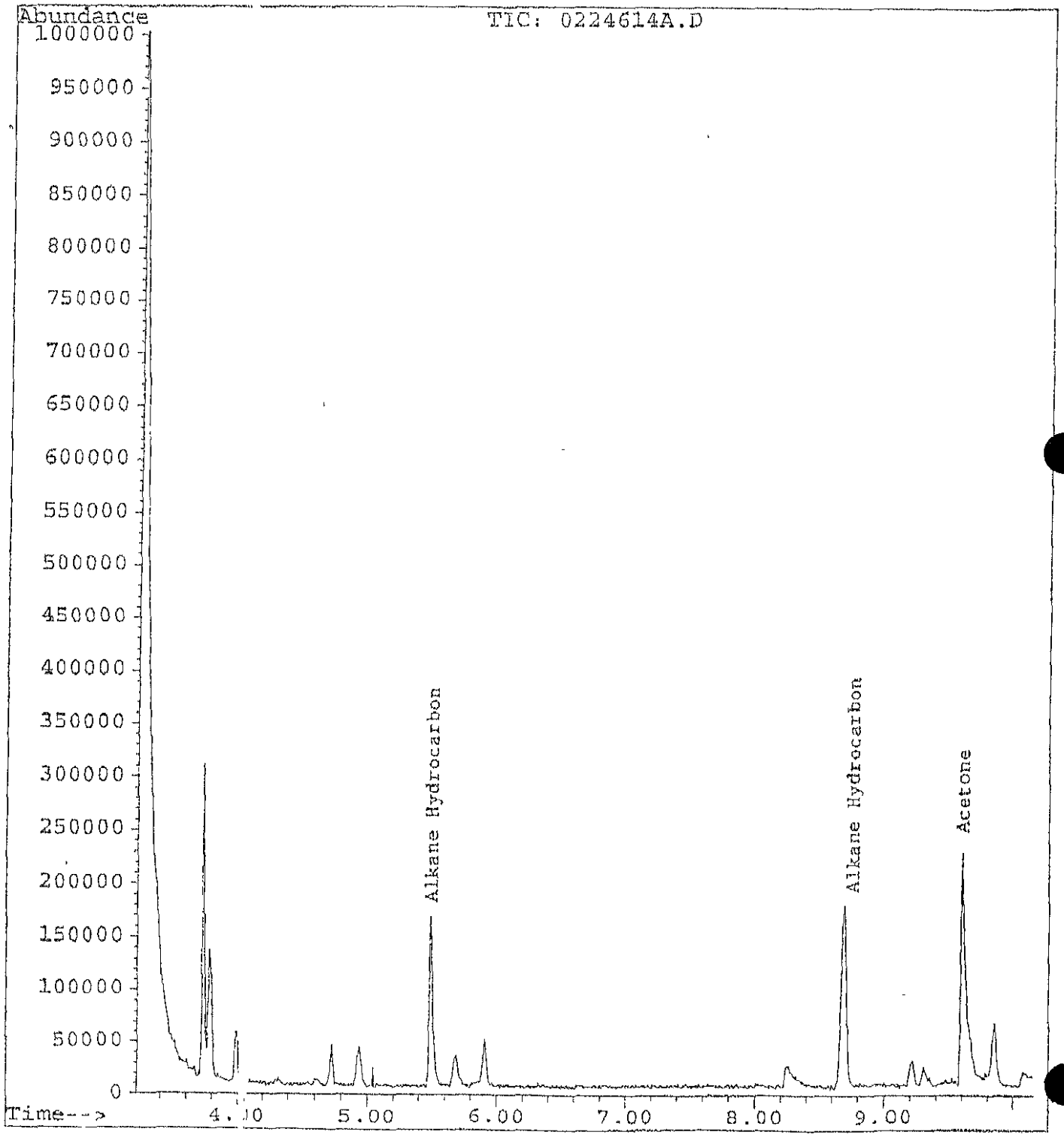
SDG : 202246

EPA TO-15 Laboratory Number: 15

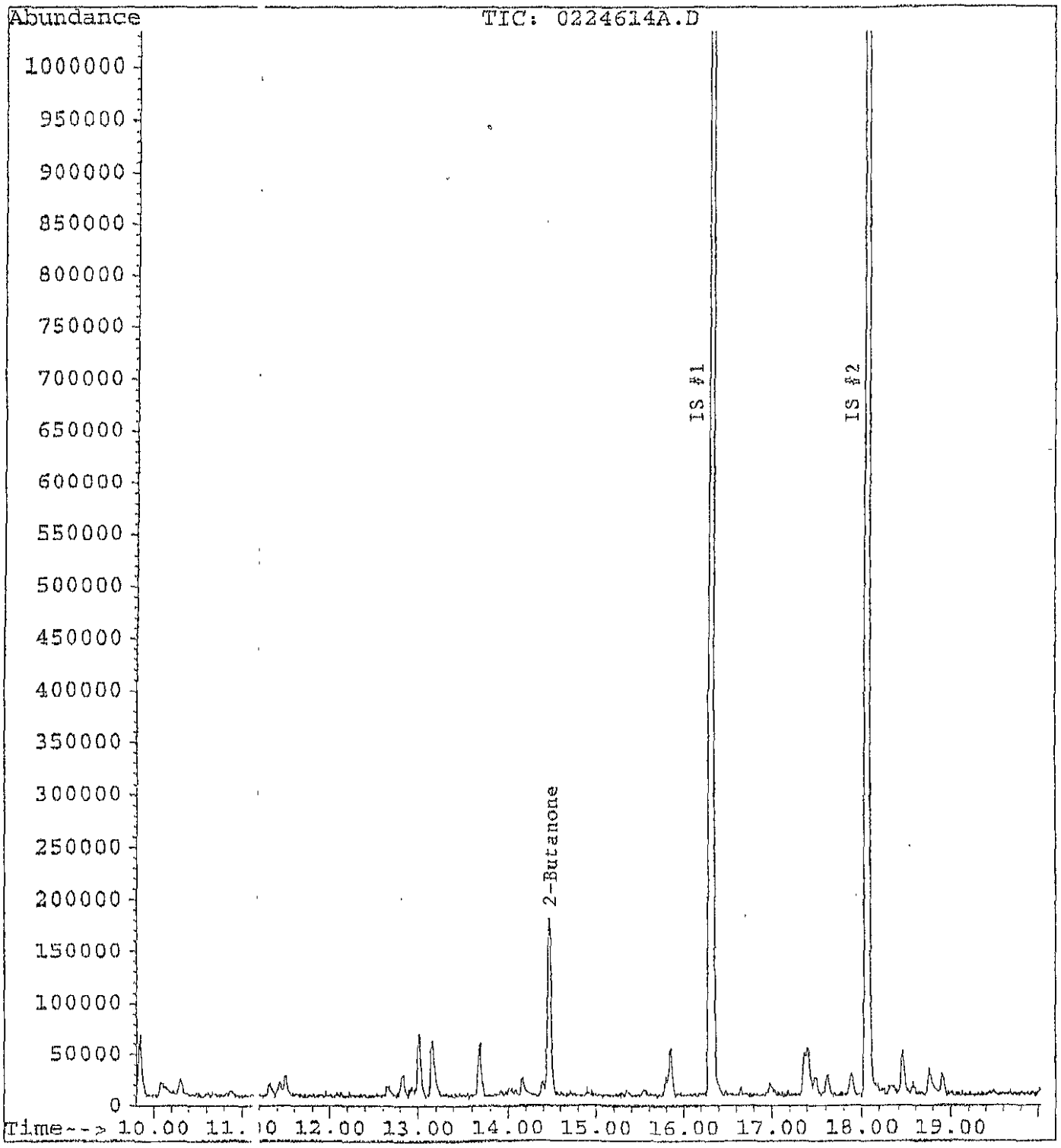
	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	1.0	ND	U
80-62-6	Trichloroethene	0.1	ND	0.8	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.8	ND	U
108-10-1	Methyl methacrylate	0.1	ND	1.0	ND	U
108-88-3	4-Methyl-2-pentanone	7.0	ND	29.6	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.6	ND	2.4	ND	U
79-00-5	Toluene	0.1	0.7	0.7	3.3	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.5	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.7	ND	U
111-65-9	2-Hexanone	0.1	ND	0.8	ND	U
124-48-1	1,3-Dichloropropane	0.6	ND	2.4	ND	U
106-93-4	Octane	0.1	ND	0.7	ND	U
127-18-4	Dibromochloromethane	0.7	ND	3.4	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	1.2	ND	U
30-20-6	Tetrachloroethene	0.1	ND	1.1	ND	U
00-41-4	Chlorobenzene	0.1	ND	1.0	ND	U
108-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.7	ND	U
108-94-1	Ethylbenzene	1.4	ND	9.9	ND	U
100-42-5	m & p-Xylene	0.1	0.4	0.6	1.8	
95-47-6	Styrene	0.1	ND	0.6	ND	U
79-34-5	Bromoform	0.1	ND	0.6	ND	U
96-18-4	o-Xylene	0.3	ND	3.0	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.6	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	1.0	ND	U
98-82-8	t-1,4-Dichloro-2-butene	7.0	ND	43.6	ND	U
98-83-9	4-Ethyltoluene	7.0	ND	37.0	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.7	ND	U
95-63-6	Methylstyrene	0.1	ND	0.7	ND	U
541-73-1	1,2,4-Trimethylbenzene	7.0	ND	34.9	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.7	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.9	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.7	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.9	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.9	ND	U
87-68-3	1,2,4-Trichlorobenzene	7.0	ND	69.9	ND	U
87-61-6	Napthalene	0.1	ND	1.1	ND	U
87-68-3	Hexachlorobutadiene	1.4	ND	7.6	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06102MS1\0224614A.D
Operator : SS/MS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0004-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06102MS1\0224614A.D
Operator : SS/KS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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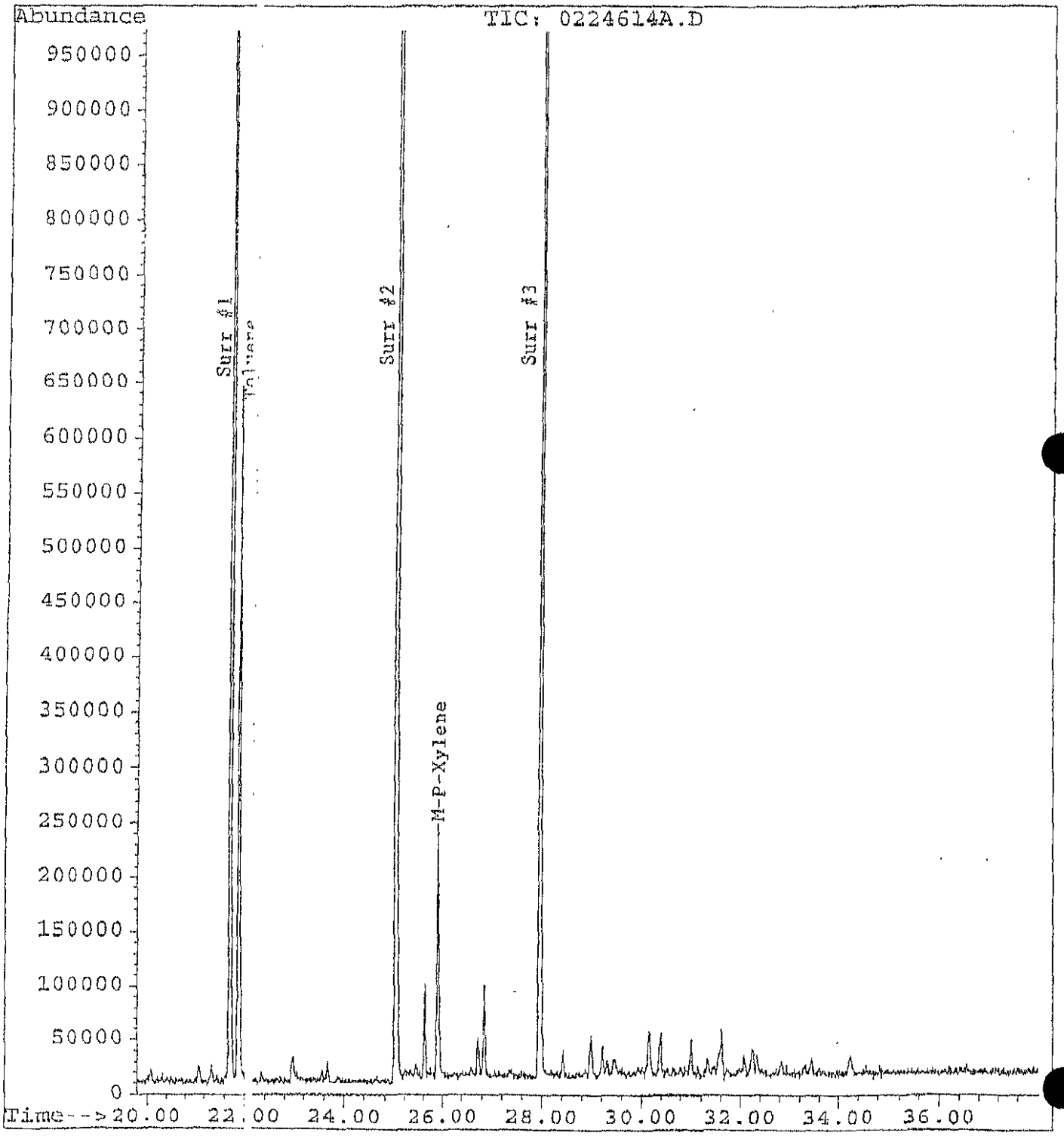
Operator : SS/KS
Acquired : 10 Jun 102 6:29 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-129 CAN #179 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



ENVIRONMENTAL
Analytical Service, Inc.

ANALYTICAL REPORT

SDG: 202246

Analytical Method: EPA TO-15 Laboratory Number: 15

File: 0224615A.D Date Sampled: 06/04/02 Time:
Client: ENVIRONMENTAL HEALTH CONSULTANTS Date Received: 06/05/02
Description: CM0604-OUTDOOR CAN #616 500mL Date Analyzed: 06/10/02 Time:
Sam_Type: SA Dilution Factor: 1.40 Can#: 616
QC_Batch: 061002-MS1 Analyst: SS/KS

CAS #	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
75-71-8	Dichlorodifluoromethane	0.1	0.8	0.7	4.2	
74-87-3	Chloromethane	0.1	0.7	0.3	1.5	
76-14-2	Freon 114	0.1	ND	1.0	ND	U
75-01-4	Vinyl chloride	0.1	ND	0.4	ND	U
74-83-9	Bromomethane	0.1	ND	0.6	ND	U
75-00-3	Chloroethane	0.1	ND	0.4	ND	U
75-69-4	Trichlorofluoromethane	0.1	0.4	0.8	2.5	
75-05-8	Acetonitrile	7.0	ND	12.1	ND	U
67-64-1	Acetone	1.1	9.0	2.7	22.0	
[illegible]27-95-6	Methyl iodide	0.7	ND	4.2	ND	U
[illegible]5-4	1,1-Dichloroethene	0.1	ND	0.6	ND	U
107-13-1	Acrylonitrile	7.0	ND	15.7	ND	U
76-13-1	Freon 113	0.1	0.2	1.1	1.3	
107-05-1	Allyl chloride	0.7	ND	2.3	ND	U
75-09-2	Methylene chloride	0.1	0.9	0.5	3.3	
75-15-0	Carbon disulfide	1.4	ND	4.5	ND	U
156-60-5	trans-1,2-Dichloroethene	0.1	ND	0.6	ND	U
1634-04-4	Methyl tert butyl ether	0.1	0.6	0.5	2.2	
107-12-0	Propionitrile	7.0	ND	16.3	ND	U
75-34-3	1,1-Dichloroethane	0.1	ND	0.6	ND	U
108-05-4	Vinyl acetate	0.7	ND	2.5	ND	U
78-93-3	2-Butanone	0.7	2.0	2.1	6.1	
78-83-1	Isobutyl alcohol	70.0	ND	219.1	ND	U
126-98-7	Methacrylonitrile	7.0	ND	19.8	ND	U
156-59-2	cis-1,2-Dichloroethene	0.1	ND	0.6	ND	U
594-20-7	2,2-Dichloropropane	0.1	ND	0.7	ND	U
67-66-3	Chloroform	0.1	ND	0.7	ND	U
71-55-6	1,1,1-Trichloroethane	0.1	ND	0.8	ND	U
107-06-2	1,2-Dichloroethane	0.1	ND	0.6	ND	U
563-58-6	1,1-Dichloropropene	0.1	ND	0.7	ND	U
71-43-2	Benzene	0.1	0.4	0.5	1.4	
56-23-5	Carbon tetrachloride	0.1	ND	0.9	ND	U
142-82-5	n-Heptane	0.7	ND	3.0	ND	U
[illegible]87-5	1,2-Dichloropropane	0.1	ND	0.7	ND	U

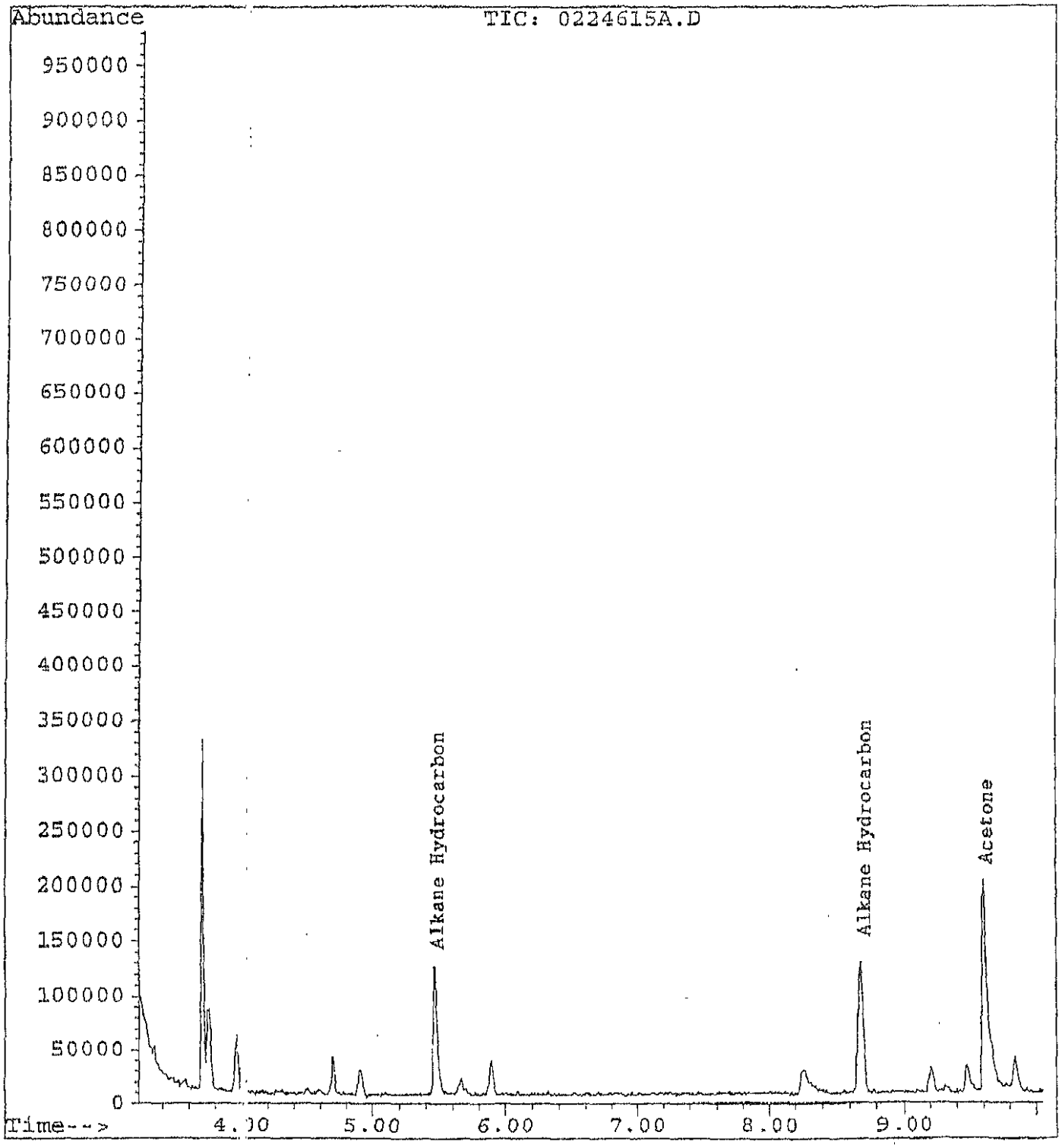
SDG : 202246

EPA TO-15 Laboratory Number: 15

	Compound	MDL ppbV	Amount ppbV	MDL ug/m3*	Amount ug/m3*	Flag
79-01-6	Dibromomethane	0.1	ND	1.0	ND	U
80-62-6	Trichloroethene	0.1	ND	0.8	ND	U
110-75-87	Bromodichloromethane	0.1	ND	0.8	ND	U
108-10-1	Methyl methacrylate	0.1	ND	1.0	ND	U
108-88-3	4-Methyl-2-pentanone	7.0	ND	29.6	ND	U
10061-02-6	cis-1,3-Dichloropropene	0.6	ND	2.4	ND	U
79-00-5	Toluene	0.1	0.7	0.7	3.3	
591-78-6	trans-1,3-Dichloropropene	0.1	ND	0.5	ND	U
142-28-9	1,1,2-Trichloroethane	0.1	ND	0.7	ND	U
111-65-9	2-Hexanone	0.1	ND	0.8	ND	U
124-48-1	1,3-Dichloropropane	0.6	ND	2.4	ND	U
106-93-4	Octane	0.1	ND	0.7	ND	U
127-18-4	Dibromochloromethane	0.7	ND	3.4	ND	U
108-90-7	1,2-Dibromoethane	0.1	ND	1.2	ND	U
30-20-6	Tetrachloroethene	0.1	ND	1.1	ND	U
00-41-4	Chlorobenzene	0.1	ND	1.0	ND	U
108-38-3	1,1,1,2-Tetrachloroethane	0.1	ND	0.7	ND	U
108-94-1	Ethylbenzene	1.4	ND	9.9	ND	U
100-42-5	m & p-Xylene	0.1	0.4	0.6	1.8	
95-47-6	Styrene	0.1	ND	0.6	ND	U
79-34-5	Bromoform	0.1	ND	0.6	ND	U
96-18-4	o-Xylene	0.3	ND	3.0	ND	U
110-57-6	1,1,2,2-Tetrachloroethane	0.1	ND	0.6	ND	U
103-65-1	1,2,3-Trichloropropane	0.1	ND	1.0	ND	U
98-82-8	t-1,4-Dichloro-2-butene	7.0	ND	43.6	ND	U
98-83-9	4-Ethyltoluene	7.0	ND	37.0	ND	U
98-06-6	1,3,5-Trimethylbenzene	0.1	ND	0.7	ND	U
95-63-6	Methylstyrene	0.1	ND	0.7	ND	U
541-73-1	1,2,4-Trimethylbenzene	7.0	ND	34.9	ND	U
100-44-7	1,3-Dichlorobenzene	0.1	ND	0.7	ND	U
104-51-8	Benzyl chloride	0.1	ND	0.9	ND	U
95-50-1	1,4-Dichlorobenzene	0.1	ND	0.7	ND	U
78-00-2	1,2-Dichlorobenzene	0.1	ND	0.9	ND	U
120-82-1	1,2-Dibromo-3-chloropropane	0.1	ND	0.9	ND	U
87-68-3	1,2,4-Trichlorobenzene	7.0	ND	69.9	ND	U
87-61-6	Napthalene	0.1	ND	1.1	ND	U
87-68-3	Hexachlorobutadiene	1.4	ND	7.6	ND	U

Notes: ND = Not detected at or above the listed minimum detection limit (MDL).
Reported results are to be interpreted to two significant figures.
*ug/m3 calculated assuming conditions at 60 F and 1 atm.

File : C:\MSCHEM\1\DATA\06102MS1\0224615A.D
Operator : SS/KS
Acquired : 10 Jun 102 7:18 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0504-OUTDOORS CAN #616 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



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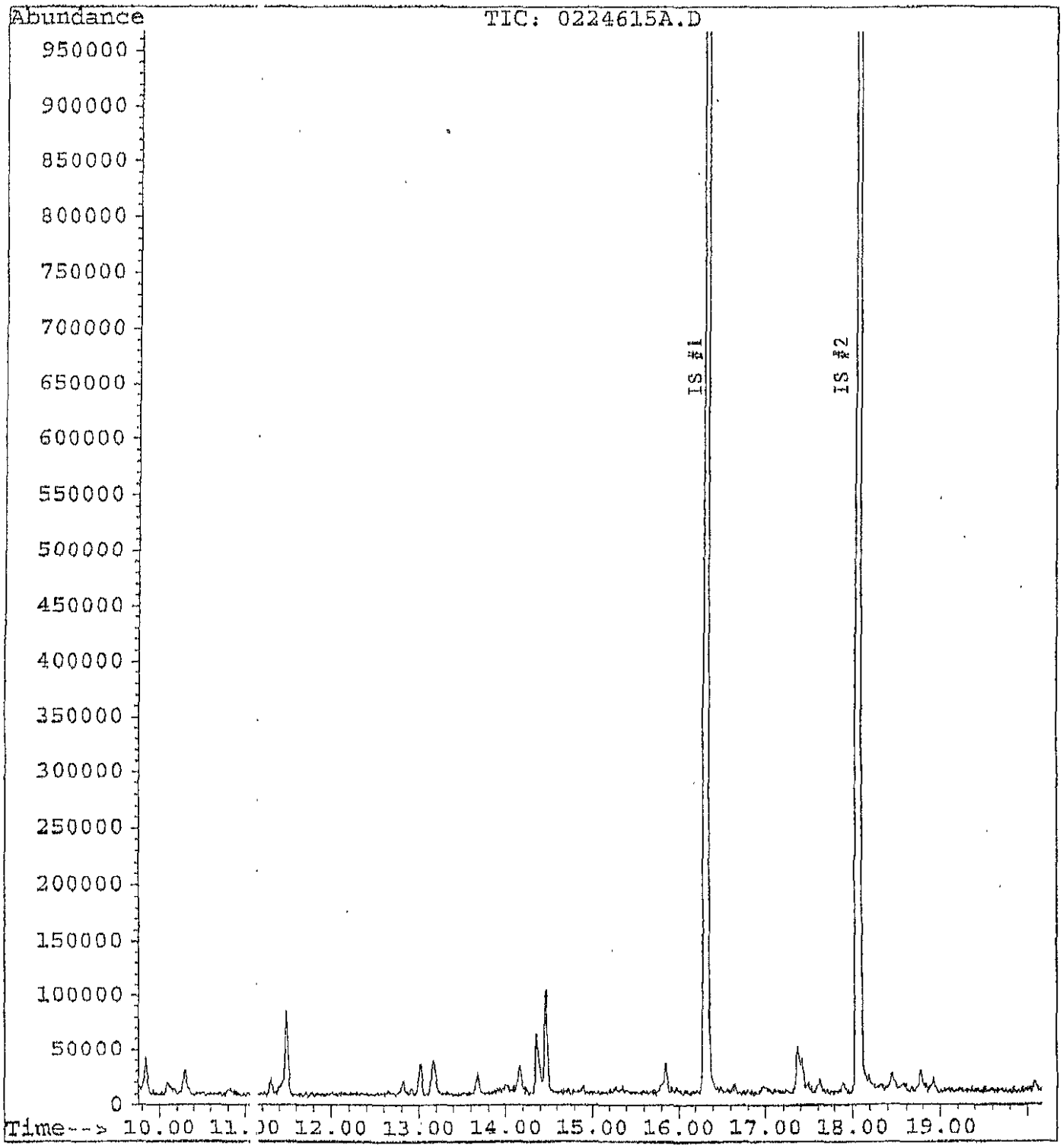
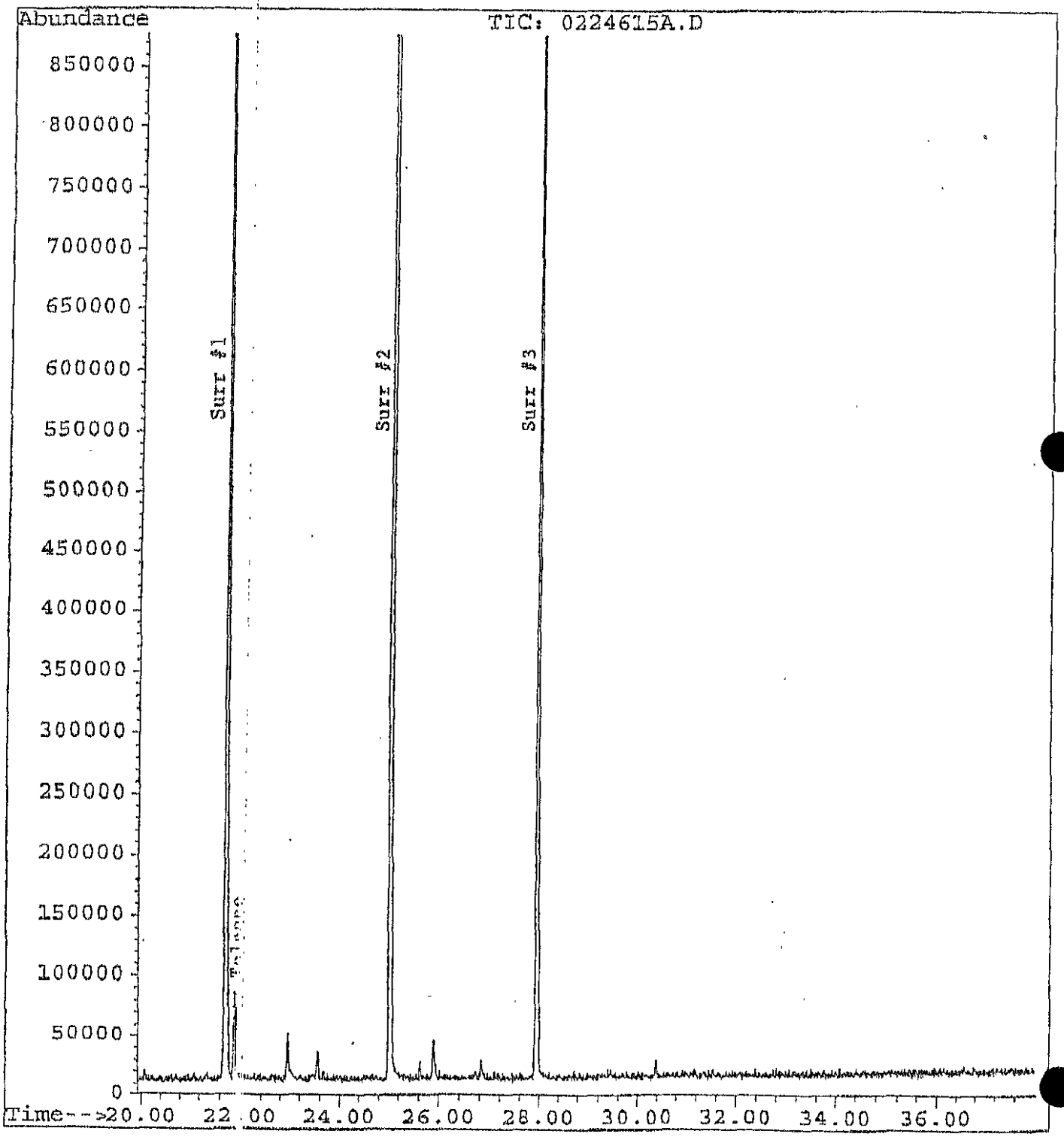
Operator : SS/KS
Acquired : 10 Jun 102 7:18 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0604-OUTDOORS CAN #616 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



File : C:\MSCHEM\1\DATA\06102MS1\0224615A.D
Operator : SS/KS
Acquired : 10 Jun 102 7:18 pm using AcqMethod TO15.M
Instrument : 5970 - In
Sample Name: CM0304-OUTDOORS CAN #616 500mL
Misc Info : ENVIRONMENTAL HEALTH CONSULTANTS
Vial Number: 1



Forensic Analytical

Final Report

Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017237
Date Received: 05/31/02
Date Analyzed: 06/03/02
Date Printed: 06/03/02
First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Particulate	Relative Density
CM0529-C1	40024683	05/29/02	Major	
Cladosporium				Trace
HYPHAE				Trace
Rust				Trace
room 104				
few insect setae present				
CM0529-C2	40024684	05/29/02	Abundant	
Cladosporium				Trace
HYPHAE				Trace
room 105				
CM0529-C3	40024685	05/29/02	Major	
Cladosporium				Trace
HYPHAE				Trace
room 106				
CM0529-C4	40024686	05/29/02	Major	
Cladosporium				Trace
HYPHAE				Trace
room 114				

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical

Final Report

San Francisco • Los Angeles • [illegible]

Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017237
Date Received: 05/31/02
Date Analyzed: 06/03/02
Date Printed: 06/03/02
First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Particulate	Relative Density
CM0529-C5	40024687	05/29/02	Abundant	
Aspergillus/Penicillium				Trace
Cladosporium				Trace
HYPHAE				Trace
room 120				
few moth wing scales present				
CM0529-C6	40024688	05/29/02	Abundant	
Cladosporium				Trace
HYPHAE				Trace
room 121				
CM0529-C7	40024689	05/29/02	Abundant	
Alternaria				Trace
HYPHAE				Trace
POLLEN				Trace
room 122				
CM0529-C8	40024690	05/29/02	Abundant	
POLLEN				Trace
Rust				Trace
room 128				

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical

Final Report

San Francisco • Los Angeles • Pal

Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017237
Date Received: 05/31/02
Date Analyzed: 06/03/02
Date Printed: 06/03/02
First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Particulate	Relative Density
CM0529-C9	40024691	05/29/02	Major	
POLLEN				Trace

room 129

NOTE: Non-viable Fungal structures are quantified as follows, from lowest to highest: 'Trace', 'Minor', 'Major', and 'Abundant'. These values are qualitative, and are meant to show relative quantities only. The amount of hyphae present can indicate the amount of fungal growth.

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
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Date Received: 05/31/02
Date Analyzed: 06/03/02
Date Printed: 06/03/02
First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Summary

	40024683 CM0529-C1	40024684 CM0529-C2	40024685 CM0529-C3	40024686 CM0529-C4
Alternaria	-	-	-	-
Aspergillus/Penicillium	-	-	-	-
Cladosporium	Trace	Trace	Trace	Trace
HYPHAE	Trace	Trace	Trace	Trace
POLLEN	-	-	-	-
Rust	Trace	-	-	-

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID:	1699
Report Number:	F017237
Date Received:	05/31/02
Date Analyzed:	06/03/02
Date Printed:	06/03/02
First Reported:	06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Summary	40024687 CM0529-C5	40024688 CM0529-C6	40024689 CM0529-C7	40024690 CM0529-C8
Alternaria	-	-	Trace	-
Aspergillus/Penicillium	Trace	-	-	-
Cladosporium	Trace	Trace	-	-
HYPHAE	Trace	Trace	Trace	-
POLLEN	-	-	Trace	Trace
Rust	-	-	-	Trace

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Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

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Date Analyzed:	06/03/02
Date Printed:	06/03/02
First Reported:	06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Summary

	40024691 CM0529-C9
Alternaria	-
Aspergillus/Penicillium	-
Cladosporium	-
HYPHAE	-
POLLEN	Trace
Rust	-

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Forensic Analytical

1 of 2

Microbial Analysis Request Form

Company: Environmental Health Consultants

Client ID#: 1699

Street: P.O. Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: Milpitas Job:

Comments:

P.O. #: 020370 Date: 5/29/02

Turn Around Time Requested: 24 HRS DUE TIME: : am/pm

DUE DATE Requested: 5/30/02

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing Penicillium	Cladosporium	Fusarium
CM0529-C1	19:02	Room 104					NVAB				
-C2	19:14	Room 105									
-C3	19:18	Room 106									
-C4	19:24	Room 114									
-C5	19:30	Room 120									
-C6	19:45	Room 122									
-C7	19:55	Room 122									

Sampled by: I Fanelli Date: 5/29/02 Time: : am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 5/30/02 2:38	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No
Received by:	**Received by:**	**Received by:**
Date / Time: 5/31 7:19	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

Forensic Analytical

2 of 2

Microbial Analysis Request Form

Company: Environmental Health Consultants

Client ID#: 1699

Street: P.O. Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: Milpitas Job:

Comments:

P.O. #: 020370 Date: 5/29/02

Turn Around Time Requested: 24 Hrs DUE TIME: : am/pm

DUE DATE Requested: 6/3/02

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY: Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing: Penicillium	Cladosporium	Fusarium
2N0529-C8	19:55	Room 128					NVB				
↓ -C9	20:00	Room 129					↓				

Sampled by: I Fanelli Date: 5/29/02 Time: : am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☑ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Irene Fanelli		
Date / Time: 5/30/02	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No
Received by:	Received by:	Received by:
Date / Time: 5/31 7:9am	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 9454[illegible]61 / Telephone: (510)887-8828 * (800)827-3274 / Fax: (510)887-4218
Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, Califor[illegible]0221 / Telephone: (310)763-2374 * (888)813-9417 / Fax: (310)763-8684

Forensic Analytical

Final Report

• Los Angeles •

Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017236
Date Received: 05/31/02
Date Analyzed: 06/03/02
Date Printed: 06/03/02
First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-A1	40024652	05/30/02	163.8	2+	22	7		**150**
Ascospores						1	14.3	22
Basidiospores						1	14.3	22
Cladosporium						5	71.4	110
room 101								
)530-A2	40024653	05/30/02	178.7	3+	20	7		**140**
Ascospores						1	14.3	20
Cladosporium						5	71.4	100
Epicoccum						1	14.3	20
room 104								
CM0530-A3	40024654	05/30/02	178.7	3+	20	8		**160**
Basidiospores						2	25.0	40
Cladosporium						5	62.5	100
Oidium						1	12.5	20
room 105								

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
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First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-A4	40024655	05/30/02	148.9	3+	24	5		120
Alternaria						1	20.0	24
Cladosporium						3	60.0	73
HYPHAL FRAGMENTS						1	N/A	24
Penicillium / Aspergillus						1	20.0	24
room 106								
530-A5	40024656	05/30/02	148.9	3+	24	68		1600
Alternaria						2	2.9	48
Ascospores						1	1.5	24
Basidiospores						4	5.9	97
Cladosporium						61	89.7	1500
room 107								
CM0530-A6	40024657	05/30/02	148.9	3+	24	17		410
Basidiospores						2	11.8	48
Botrytis						1	5.9	24
Cladosporium						13	76.5	310
Ulocladium						1	5.9	24
room 108								

109

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical

Final Report

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Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
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First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-A7	40024658	05/30/02	148.9	2+	24	27		**650**
Basidiospores						1	3.7	24
Cladosporium						24	88.9	580
Penicillium / Aspergillus						2	7.4	48
room 114								
[illegible]530-A8	40024659	05/30/02	148.9	2+	24	3		**73**
Basidiospores						1	33.3	24
Cladosporium						2	66.7	48
room 116								
CM0530-A9	40024660	05/30/02	163.8	2+	22	11		**240**
Basidiospores						1	9.1	22
Cladosporium						7	63.6	150
HYPHAL FRAGMENTS						1	N/A	22
Myxomycete						1	9.1	22
Penicillium / Aspergillus						2	18.2	44
room 120								

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Non-Viable Air Microbiological Analysis

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Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

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First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-A10	40024661	05/30/02	163.8	2+	22	6		130
Cladosporium						5	83.3	110
HYPHAL FRAGMENTS						1	N/A	22
Trichocladium						1	16.7	22
room 121								
CM0530-A11	40024662	05/30/02	163.8	2+	22	7	-	
Alternaria						1	14.3	22
Basidiospores						1	14.3	22
Cladosporium						5	71.4	110
room 122								
CM0530-A12	40024663	05/30/02	178.7	2+	20	25		500
Basidiospores						2	8.0	40
Botrytis						1	4.0	20
Cladosporium						15	60.0	300
Penicillium / Aspergillus						7	28.0	140
room 123								

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Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
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First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-A13	40024664	05/30/02	178.7	3+	20	32		640
Ascospores						8	25.0	160
Basidiospores						2	6.3	40
Cladosporium						21	65.6	420
Penicillium / Aspergillus						1	3.1	20
room 128								
0530-A14	40024665	05/30/02	163.8	3+	22	19		420
Cladosporium						13	68.4	290
Penicillium / Aspergillus						4	21.1	88
Rust/smuts						1	5.3	22
Ulocladium						1	5.3	22
room 129								

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Non-Viable Air Microbiological Analysis

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Irene Fanelli

PO Box 117910
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Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-A15	40024666	05/30/02	223.4	3+	16	128		2100
Alternaria						2	1.6	32
Ascospores						4	3.1	64
Basidiospores						1	0.8	16
Cladosporium						110	85.9	1800
Myxomycete						1	0.8	16
Penicillium / Aspergillus						2	1.6	32
Rust/smuts						4	3.1	
Stemphyllium						1	0.8	16
Torula						2	1.6	32
Ulocladium						1	0.8	16
parking lot								
CM0530-A16	40024667	05/30/02	163.8	3+	22	80		1800
Alternaria						3	3.7	66
Basidiospores						8	10.0	180
Cladosporium						62	77.5	1400
HYPHAL FRAGMENTS						2	N/A	44
Penicillium / Aspergillus						5	6.3	110
Rust/smuts						2	2.5	44
courtyard								

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Final Report

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Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

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Date Analyzed: 06/03/02
Date Printed: 06/03/02
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Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-B1	40024668	05/30/02	148.9	0+	24	1		**24**
Cladosporium						1	100.0	24
room 101								
CM0530-B2	40024669	05/30/02	178.7	3+	20	9		**180**
Alternaria						2	22.2	40
Ascospores						1	11.1	20
Cladosporium						3	33.3	60
Penicillium / Aspergillus						2	22.2	40
Rust/smuts						1	11.1	20
room 104								
CM0530-B3	40024670	05/30/02	148.9	2+	24	5		**120**
Basidiospores						1	20.0	24
Cladosporium						3	60.0	73
Rust/smuts						1	20.0	24
room 105								

A. David Sime, Ph.D.

A. David Sime. Microbiology Laboratory Supervisor. Hayward Laboratory

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Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017236
Date Received: 05/31/02
Date Analyzed: 06/03/02
Date Printed: 06/03/02
First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-B4	40024671	05/30/02	148.9	2+	24	7		170
Alternaria						1	14.3	24
Cladosporium						4	57.1	97
Rust/smuts						1	14.3	24
Stachybotrys						1	14.3	24
room 106								
1530-B5	40024672	05/30/02	178.7	2+	20	78		1600
Alternaria						4	5.1	81
Ascospores						3	3.8	60
Basidiospores						5	6.4	100
Cladosporium						56	71.8	1100
HYPHAL FRAGMENTS						3	N/A	60
Penicillium / Aspergillus						6	7.7	120
Rust/smuts						2	2.6	40
Torula						2	2.6	40
room 107								

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Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-B6	40024673	05/30/02	163.8	3+	22	36		790
Alternaria						2	5.6	44
Ascospores						2	5.6	44
Basidiospores						5	13.9	110
Bipolaris / Dreschlera						1	2.8	22
Cladosporium						10	27.8	220
HYPHAL FRAGMENTS						4	N/A	88
Penicillium / Aspergillus						10	27.8	220
Rust/smuts						5	13.9	110
Trichocladium						1	2.8	22
room 108								
109								
CM0530-B7	40024674	05/30/02	148.9	3+	24	8		190
Ascospores						2	25.0	48
Basidiospores						2	25.0	48
Cladosporium						2	25.0	48
HYPHAL FRAGMENTS						3	N/A	73
Myxomycete						1	12.5	24
Rust/smuts						1	12.5	24
room 114								

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Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m
CM0530-B8	40024675	05/30/02	148.9	1+	24	3		7
Cladosporium						2	66.7	4
HYPHAL FRAGMENTS						1	N/A	2
Penicillium / Aspergillus						1	33.3	2
room 116								
CM0530-B9	40024676	05/30/02	163.8	3+	22	19		[illegible]
Ascospores						1	5.3	2
Basidiospores						3	15.8	6
Chaetomium						2	10.5	4
Cladosporium						10	52.6	22
HYPHAL FRAGMENTS						3	N/A	66
Penicillium / Aspergillus						2	10.5	44
Rust/smuts						1	5.3	22
room 120								

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Job ID / Site: Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-B10	40024677	05/30/02	119.1	3+	30	10		**300**
Basidiospores						1	10.0	30
Cladosporium						8	80.0	240
HYPHAL FRAGMENTS						2	N/A	60
Rust/smuts						1	10.0	30
room 121								
530-B11	40024678	05/30/02	238.2	3+	15	24		**360**
Alternaria						1	4.2	15
Basidiospores						1	4.2	15
Chaetomium						1	4.2	15
Cladosporium						19	79.2	290
HYPHAL FRAGMENTS						1	N/A	15
Rust/smuts						2	8.3	30
room 122								

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Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-B12	40024679	05/30/02	148.9	3+	24	56		1400
Alternaria						1	1.8	24
Ascospores						2	3.6	48
Basidiospores						10	17.9	240
Chaetomium						2	3.6	48
Cladosporium						39	69.6	940
HYPHAL FRAGMENTS						2	N/A	48
Rust/smuts						1	1.8	[illegible]
Torula						1	1.8	24
room 123								
CM0530-B13	40024680	05/30/02	163.8	3+	22	19		420
Alternaria						1	5.3	22
Penicillium / Aspergillus						18	94.7	400
room 128								

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Sample Number	Lab Number	Date Collected	Volume (L)	Density	LOD	Spore Count	% Of Total	Spores/m3
CM0530-B14	40024681	05/30/02	148.9	3+	24	5		**120**
Cladosporium						1	20.0	24
HYPHAL FRAGMENTS						1	N/A	24
Rust/smuts						4	80.0	97
room 129								
NK	40024682	05/30/02	0.0	0+	0	0		**0**
blank								

Aspergillus & Penicillium spores have similar morphologies and cannot be differentiated by non-viable methods. Pollen spores are not included in the total count.

TNTC = Too Numerous To Count

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Summary	40024652 CM0530-A1 Spores/m3	40024653 CM0530-A2 Spores/m3	40024654 CM0530-A3 Spores/m3	40024655 CM0530-A4 Spores/m3
Alternaria	-	-	-	24
Ascospores	22	20	-	-
Basidiospores	22	-	40	-
Bipolaris / Dreschlera	-	-	-	-
Botrytis	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	110	100	100	73
E[illegible]ccum	-	20	-	-
H[illegible]AL FRAGMENTS	-	-	-	24
Myxomycete	-	-	-	-
Oidium	-	-	20	-
Penicillium / Aspergillus	-	-	-	24
Rust/smuts	-	-	-	-
Stachybotrys	-	-	-	-
Stemphyllium	-	-	-	-
Torula	-	-	-	-
Trichocladium	-	-	-	-
Ulocladium	-	-	-	-
Total	150	140	160	120

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Summary	40024656 CM0530-A5 Spores/m3	40024657 CM0530-A6 Spores/m3	40024658 CM0530-A7 Spores/m3	40024659 CM0530-A8 Spores/m3
Alternaria	48	-	-	-
Ascospores	24	-	-	-
Basidiospores	97	48	24	24
Bipolaris / Dreschlera	-	-	-	-
Botrytis	-	24	-	-
Chaetomium	-	-	-	-
Cladosporium	1500	310	580	48
[illegible]ecum	-	-	-	-
[illegible]AL FRAGMENTS	-	-	-	-
Myxomycete	-	-	-	-
Oidium	-	-	-	-
Penicillium / Aspergillus	-	-	48	-
Rust/smuts	-	-	-	-
Stachybotrys	-	-	-	-
Stemphyllium	-	-	-	-
Torula	-	-	-	-
Trichocladium	-	-	-	-
Ulocladium	-	24	-	-
Total	1600	410	650	73

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Summary	40024660 CM0530-A9 Spores/m3	40024661 CM0530-A10 Spores/m3	40024662 CM0530-A11 Spores/m3	40024663 CM0530-A12 Spores/m3
Alternaria	-	-	22	-
Ascospores	-	-	-	-
Basidiospores	22	-	22	40
Bipolaris / Dreschlera	-	-	-	-
Botrytis	-	-	-	20
Chaetomium	-	-	-	-
Cladosporium	150	110	110	300
Er[illegible]ccum	-	-	-	-
H[illegible]AL FRAGMENTS	22	22	-	-
My[illegible]omycete	22	-	-	-
Oidium	-	-	-	-
Penicillium / Aspergillus	44	-	-	140
Rust/smuts	-	-	-	-
Stachybotrys	-	-	-	-
Stemphyllium	-	-	-	-
Torula	-	-	-	-
Trichocladium	-	22	-	-
Ulocladium	-	-	-	-
Total	240	130	150	500

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Summary	40024664 CM0530-A13 Spores/m3	40024665 CM0530-A14 Spores/m3	40024666 CM0530-A15 Spores/m3	40024667 CM0530-A16 Spores/m3
Alternaria	-	-	32	66
Ascospores	160	-	64	-
Basidiospores	40	-	16	180
Bipolaris / Dreschlera	-	-	-	-
Botrytis	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	420	290	1800	1400
E[illegible]rcum	-	-	-	-
H[illegible]AL FRAGMENTS	-	-	-	44
Myxomycete	-	-	16	-
Oidium	-	-	-	-
Penicillium / Aspergillus	20	88	32	110
Rust/smuts	-	22	64	44
Stachybotrys	-	-	-	-
Stemphyllium	-	-	16	-
Torula	-	-	32	-
Trichocladium	-	-	-	-
Ulocladium	-	22	16	-
Total	640	420	2100	1800

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Summary	40024668 CM0530-B1 Spores/m3	40024669 CM0530-B2 Spores/m3	40024670 CM0530-B3 Spores/m3	40024671 CM0530-B4 Spores/m3
Alternaria	-	40	-	24
Ascospores	-	20	-	-
Basidiospores	-	-	24	-
Bipolaris / Dreschlera	-	-	-	-
Botrytis	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	24	60	73	97
E[illegible]ccum	-	-	-	-
h[illegible]AL FRAGMENTS	-	-	-	-
Myxomycete	-	-	-	-
Oidium	-	-	-	-
Penicillium / Aspergillus	-	40	-	-
Rust/smuts	-	20	24	24
Stachybotrys	-	-	-	24
Stemphyllium	-	-	-	-
Torula	-	-	-	-
Trichocladium	-	-	-	-
Ulocladium	-	-	-	-
Total	24	180	120	170

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Summary	40024672 CM0530-B5 Spores/m3	40024673 CM0530-B6 Spores/m3	40024674 CM0530-B7 Spores/m3	40024675 CM0530-B8 Spores/m3
Alternaria	81	44	-	-
Ascospores	60	44	48	-
Basidiospores	100	110	48	-
Bipolaris / Dreschlera	-	22	-	-
Botrytis	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	1100	220	48	48
E[illegible]ccum	-	-	-	-
H[illegible]AL FRAGMENTS	60	88	73	24
Myxomycete	-	-	24	-
Oidium	-	-	-	-
Penicillium / Aspergillus	120	220	-	24
Rust/smuts	40	110	24	-
Stachybotrys	-	-	-	-
Stemphyllium	-	-	-	-
Torula	40	-	-	-
Trichocladium	-	22	-	-
Ulocladium	-	-	-	-
Total	1600	790	190	73

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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[illegible] Road, Suite 309, Hayward, California 94545-2761 • Telephone 510/887-8828 800/827-FASI Fax 510/887-4218

Forensic Analytical

Final Report

San Francisco • Los Angeles •

Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017236
Date Received: 05/31/02
Date Analyzed: 06/03/02
Date Printed: 06/03/02
First Reported: 06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Summary	40024676 CM0530-B9 Spores/m3	40024677 CM0530-B10 Spores/m3	40024678 CM0530-B11 Spores/m3	40024679 CM0530-B12 Spores/m3
Alternaria	-	-	15	24
Ascospores	22	-	-	48
Basidiospores	66	30	15	240
Bipolaris / Dreschlera	-	-	-	-
Botrytis	-	-	-	-
Chaetomium	44	-	15	48
Cladosporium	220	240	290	940
Er[illegible]cum	-	-	-	-
H[illegible]AL FRAGMENTS	66	60	15	48
Myxomycete	-	-	-	-
Oidium	-	-	-	-
Penicillium / Aspergillus	44	-	-	-
Rust/smuts	22	30	30	24
Stachybotrys	-	-	-	-
Stemphyllium	-	-	-	-
Torula	-	-	-	24
Trichocladium	-	-	-	-
Ulocladium	-	-	-	-
Total	420	300	360	1400

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical

Final Report

San Francisco • Los Angeles • Pa

Non-Viable Air Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID:	1699
Report Number:	F017236
Date Received:	05/31/02
Date Analyzed:	06/03/02
Date Printed:	06/03/02
First Reported:	06/03/02

Job ID / Site: Milpitas

FASI Job ID: 1699-41

Summary	40024680 CM0530-B13 Spores/m3	40024681 CM0530-B14 Spores/m3	40024682 BLANK N/A
Alternaria	22	-	-
Ascospores	-	-	-
Basidiospores	-	-	-
Bipolaris / Dreschlera	-	-	-
Botrytis	-	-	-
Chaetomium	-	-	-
Cladosporium	-	24	-
Epicoccum	-	-	-
[illegible]AL FRAGMENTS	-	24	-
M[illegible]omycete	-	-	-
Oidium	-	-	-
Penicillium / Aspergillus	400	-	-
Rust/smuts	-	97	-
Stachybotrys	-	-	-
Stemphyllium	-	-	-
Torula	-	-	-
Trichocladium	-	-	-
Ulocladium	-	-	-
Total	420	120	0

Laboratory results are reported to two significant figures for each genus/species count as well as for each total count. For this reason, summation of individual concentrations may not equal the total reported concentration.

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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[illegible] Hayward, California [illegible] • Telephone [illegible]10 887-8828 800-827-FASI Fax [illegible]10 887-4218

EMPIRICAL Analytical

1 of 5

Microbial Analysis Request Form

Company: Environmental Health Consultants

Client ID#: 1695

Street: P.O. Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: Milpitas Job:

Comments:

P.O. #: 020370 Date: 5/30/02

Turn Around Time Requested: 24 Hr DUE TIME: : am/pm

DUE DATE Requested: 6/3/02

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY Time On/Off	Avg. LPM	Total Time (MINS.)	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing Penicillium	Cladosporium	Fusarium
CM0530-A1	5/30/02	Room 101		14.89	11	163.79	NVA				
A2		Room 104			12	178.68					
A3		Room 105			12	178.68					
A4		Room 106			10	148.90					
A5		Room 107			10	148.90					
A6		Room ~~108~~ 109			10	148.90					
A7		Room 114			10	148.90					

Sampled by: I Fanelli Date: 5/30/02 Time: : am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 5/30/02 2955	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No
Received by: Carline B. Ellis	Received by:	Received by:
Date / Time: 5/31/02 716am	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94545-2761 / Telephone: (510)887-8828 * (800)827-3274 / Fax: (510)887-4218
Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310)763-2374 * (888)813-9417 / Fax (310)763-8684

Forensic Analytical 2055 Microbial Analysis Request Form

Company: Environmental Health Consultants Client ID#: 1699

Street: P.O. Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: MILPITAS Job:

Comments:

P.O. #: 020370 Date: 5/30/02

Turn Around Time Requested: 24 HR DUE TIME: : am/pm

DUE DATE Requested: 6/3/02

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY Time On/Off	Avg. LPM	Total Time (MINS)	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing Penicillium	Cladosporium	Fusarium
CM0530-A8	5/30/02	Room 116		14.89	10	148.90	NVA				
A9		Room 120			11	163.79					
A10		Room 121			11						
A11		Room 122			11						
A12		Room 123			12	178.68					
A13		Room 128			12						
A14		Room 129			11	163.79					

Sampled by: I Fanelli Date: 5/30/02 Time: : am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 5/30/02 2:35	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No
Received by:	Received by:	Received by:
Date / Time: 5/30/02 7:16pm	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94545-2761 / Telephone: (510)887-8828 * (800)827-3274 / Fax: (510)887-4218
Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310)763-2374 * (888)813-9417 / Fax: (310)763-8684

Forensic Analytical

3 of 5

Microbial Analysis Request Form

Company: Environmental Health Consultants

Client ID#: 1699

Street: P.O. Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: MILPITAS Job:

Comments:

P.O. #: 020370 Date: 5/30/02

Turn Around Time Requested: DUE TIME: : am/pm

DUE DATE Requested: 6/3/02

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY Time On/Off	Avg. LPM	Total Time (MINS)	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing Penicillium	Cladosporium	Fusarium
CM0530-A15	5/30/02	PARKING LOT		14.89	15	223.35	NVA				
A16		COURTYARD			11	163.79					
B1		Room 101			10	148.90					
B2		Room 104			12	178.68					
B3		Room 105			10	148.90					
B4		Room 106			10	148.90					
B5		Room 107			12	178.68					

Sampled by: I. Fanelli Date: 5/30/02 Time: : am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 5/30/02 2355	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No
Received by:	Received by:	Received by:
Date / Time: 5/31/02 7:16 am	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94[illegible]2761 / Telephone: (510)887-8828 * (800)827-3274 / Fax: (510)887-4218
Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, Calif[illegible]90221 / Telephone: (310)763-2374 * (888)813-9417 / Fax: (310)763-8684

Forensic Analytical

4 of 5

Microbial Analysis Request Form

Company: Er[illegible]nental Health Consultants

Client ID#: 1699

Street: P.O. Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: Job:

Comments:

P.O. #: 020370 Date: 5 / 30 / 02

Turn Around Time Requested: 24 Hrs. DUE TIME: : am/pm

DUE DATE Requested: 6 / 3 / 02

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY: Time On/Off	Avg. LPM	Total Time (MINS)	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing: Penicillium	Cladosporium	Fusarium
CMU530-B6	5/30/02	Room ~~108~~ 109 (as)		14.89	11	163.79	NVA				
B7		Room 114			10	148.90					
B8		Room 116			10						
B9		Room 120			11	163.79					
B10		Room 121			8	119.12					
B11		Room 122			16	238.24					
B12		Room 123			10	148.90					

Sampled by: I Fanelli Date: 5 / 30 / 02 Time: : am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Irene Fanelli Date / Time: 5/30/02 2:35 Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No
Received by:	**Received by:**	**Received by:**
Date / Time: 5/31/02 7:16 am Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No

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Forensic Analytical

5 of 5

Microbial Analysis Request Form

Company: E[illegible]ental Health Consultants

Client ID#: 169.

Street: P.O. Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: Job:

Comments:

P.O. #: 020370 Date: 5/30/02

Turn Around Time Requested: 24 Hrs. DUE TIME: : am/pm

DUE DATE Requested: 6/3/02

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY: Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing: Penicillium	Cladosporium	Fusarium
CM0530-B13	5/30/02	Room 128		14.89	11	163.79	NVA				
B14	↓	Room 129		↓	10	148.90	↓				
CM0530 Blank											

Sampled by: I Fanelli Date: 5/30/02 Time: : am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Irene Fanelli Date / Time: 5/30/02 2355 Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No
Received by:	**Received by:**	**Received by:**
Date / Time: 5/31/02 7/6 am Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No	Date / Time: Condition Acceptable? ☐ Yes ☐ No

Environmental Health Consultants
P.O. Box 117910 Burlingame, CA 94011-7910 (650) 347-9205

FAX TRANSMITTAL

DATE: 6/12/02

PROJ. #:

TO: Report Amendment

FAX #: (510) 732-0270

FROM: Angela Singer

OUR PHONE NUMBER: (650) 347-9205

OUR FAX NUMBER: (650) 347-1526

NUMBER OF PAGES: 3 (including cover)

COMMENTS:

We put the wrong room number on the COC for samples A6 + B6, they should be 109. Please send an amended copy as soon as someone can. Thank you very much. — Angela

Metals Analysis of HUD Wipes

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: M049279
Date Received: 06/05/02
Date Analyzed: 06/06/02
Date Printed: 06/06/02
First Reported: 06/06/02

Job ID / Site: Job#020370 - Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Analyte	Area ft2	Result	Result Units	Reporting Limit	Method Reference
CM0604-W1	30143431	Pb	1.0	< 20	ug/ft2	20	HUD Apd. 14.2
CM0604-W2	30143432	Pb	1.0	< 20	ug/ft2	20	HUD Apd. 14.2
CM0604-W3	30143433	Pb	1.0	< 20	ug/ft2	20	HUD Apd. 14.2
CM0604-W4	30143434	Pb		< 20	ug	20	HUD Apd. 14.2

Note to clients performing work related to the Lead Based Paint Hazard Reduction Act Sample results for wipes not meeting ASTM E 1792 are not recognized within the National Lead Laboratory Accreditation Program.
Forensic Analytical can not determine whether or not wipes submitted to us for analysis meet the ASTM standard We recommend to our clients that they document the brand of wipe that they use for each submission on their sample request form.

David Bowden, Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical

Analysis Request Form

Client Name & Address:

#1699 Environmental Health Consultants

1050 Edwards Road, 94010

Burlingame, CA 94011-7910

Contact: Irene Fanelli

Phone #: (650) 347-9205 ext.

Fax #: (650) 347-1526

Site: Milpitas

Job: 020370

P.O. #: 020370 Date: 6/4/02

Turn Around Time: ____hr/ 12hr / 24hr / 48 hr / ext: ____

Due Date: / / Due Time: ____ : ____ am/pm

☐ PLM: ☐ Standard / ☐ Point Count ☐ PCM: NIOSH 7400

☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402

☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield

☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Wt %

☐ TEM Microvac

☐ Special Project:

☒ Metals Analysis: Method

Matrix: Wipe

Analytes: Lead (Total)

Comments:

Sample ID	Date/ Time	Sample Location/Description	FOR AIR SAMPLES ONLY: Type	Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume
CM0604-W1	6/4/02	~~[illegible]~~ Room 107	A P C				144 in²
CM0604-W2		Room 116	A P C				144 in²
CM0604-W3		Room 123	A P C				144 in²
M0604-~~Blank~~ W0		Blank	A P C				—
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled by: Angela Singer Date: 6/4/02 Time: :

Shipped via: ☒ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 6/4/02 18:00	Date / Time:	Date / Time:
Received by: Melissa Ochoa	**Received by:**	**Received by:**
Date / Time: 6/5/02 11AM	Date / Time:	Date / Time:
Condition Acceptable? ☒ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

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Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310)763-2374 / Fax: (310)763-8684
St. Paul Office: 800 Transfer Road, Suite 7A, St. Paul, Minnesota 55114 / Telephone: (612)644-1007 / Fax: (612)644-1011

Metals Analysis of Bulks

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: M049308
Date Received: 06/05/02
Date Analyzed: 06/06/02
Date Printed: 06/06/02
First Reported: 06/06/02

Job ID / Site: Job#020370 - Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit	Method Reference
CM0604-PB1	30143522	Pb	250	mg/kg	50	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
CM0604-PB2	30143523	Pb	170	mg/kg	90	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
604-PB3	30143524	Pb	170	mg/kg	40	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
CM0604-PB4	30143525	Pb	150	mg/kg	30	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
CM0604-PB5	30143526	Pb	980	mg/kg	50	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
CM0604-PB6	30143527	Pb	240	mg/kg	40	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
CM0604-PB7	30143528	Pb	250	mg/kg	30	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						
604-PB8	30143529	Pb	150	mg/kg	40	EPA 3050B/7420
Comment: Insufficient sample size for repeatable analysis.						

Metals Analysis of Bulks

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: M049308
Date Received: 06/05/02
Date Analyzed: 06/06/02
Date Printed: 06/06/02
First Reported: 06/06/02

Job ID / Site: Job#020370 - Milpitas

FASI Job ID: 1699-41

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit	Method Reference

David Bowden, Laboratory Supervisor, Hayward Laboratory

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3777 Depot Road Suite 409 Hayward California 94545-2761 • Telephone: 510/887-8828 800/827-FASI Fax 510/887-4218

Forensic Analytical

Analysis Request Form

Client Name & Address:

1699 Environmental Health Consultants

1050 Edwards Road, 94010

Burlingame, CA 94011-7910

Contact: Irene Fanelli

Phone #: (650) 347-9205 ext. 888 pager 581 5128

Fax #: (650) 347-1526

Site: Milpitas

Job: 020370

P.O. #: 020370 Date: 6/4/02

Turn Around Time: ____hr/ 12hr / 24hr / 48 hr / ext: ____

Due Date: / / Due Time: ____ : ____ am/pm

☐ PLM: ☐ Standard / ☐ Point Count ☐ PCM: NIOSH 7400

☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402

☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield

☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Wt %

☐ TEM Microvac

☐ Special Project:

☑ Metals Analysis: Method

Matrix: Dust/Bulk

Analytes: Lead (Total)

Comments:

Sample ID	Date/ Time	Sample Location/Description	FOR AIR SAMPLES ONLY Type	Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume
CM0604-Pb1	6/4/02	Room 104-Traffic	A P C				
CM0604-Pb2		Room 104-Non-Traffic	A P C				
CM0604-Pb3		Room 114	A P C				
M0604-Pb4		Room 120	A P C				
CM0604-Pb5		Room 121	A P C				
CM0604-Pb6		Room 122	A P C				
CM0604-Pb7		Room 128	A P C				
CM0604-Pb8		Room 129	A P C				
			A P C				
			A P C				

Sampled by: Irene S. Fanelli Date: 6/4/02 Time: :

Shipped via: ☑ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 6/4/02 18:00	Date / Time:	Date / Time:
Received by: Melissa Carrera	Received by:	Received by:
Date / Time: 6/5/02	Date / Time:	Date / Time:
Condition Acceptable? ☑ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94545 / Telephone: (510)887-8828 (800)827-FASI / Fax: (510)887-4218
Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310)763-2374 / Fax: (310)763-8684
St. Paul Office: 800 Transfer Road, Suite 7A, St. Paul, Minnesota 55114 / Telephone: (612)644-1007 / Fax: (612)644-1011

Forensic Analytical

San Francisco • Los Angeles • Pa

Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017539
Date Received: 06/07/02
Date Analyzed: 06/07/02
Date Printed: 06/07/02
First Reported: 06/07/02

Job ID / Site: JOB# 020370 - Milpitas

FASI Job ID: 1699-45

Sample Number	Lab Number	Date Collected	Particulate	Relative Density
CM0607-B1	40025256	06/07/02	Abundant	
Chaetomium				Minor
HYPHAE				Minor
Trichocladium				Minor

room 120; sw ceiling corner

NOTE: Non-viable Fungal structures are quantified as follows, from lowest to highest: 'Trace', 'Minor', 'Major', and 'Abundant'. These values are qualitative, and are meant to show relative quantities only. Amount of hyphae present can indicate the amount of fungal growth.

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical

San Francisco • Los Angeles • Pa

Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID:	1699
Report Number:	F017539
Date Received:	06/07/02
Date Analyzed:	06/07/02
Date Printed:	06/07/02
First Reported:	06/07/02

Job ID / Site: JOB# 020370 - Milpitas

FASI Job ID: 1699-45

Summary

	40025256 CM0607-B1
Chaetomium	Minor
HYPHAE	Minor
Trichocladium	Minor

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical 1699-45 Microbial Ana' Request Fo

Company: EHCI

Client ID#: 1699

Street: PO Box 117910 City: Burlingame State: CA Zip: 94011-7910

Contact: Irene Fanelli Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: Milpitas Job: 020370

Comments:

P.O. #: 020370 Date: 6/7/02

Turn Around Time: ASAP Extended:

DUE DATE: 6/7/02 DUE TIME: 17:00 am/pm

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturin Penicillium	Cladosporium
CM 0607-B1	6/7/02	Room 120 - SW ceiling corner								

Sampled by: Irene Fanelli Date: 6/7/02 Time: 11:30 am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Irene Fanelli		
Date / Time: 6/7/02 1251	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No
Received by:	Received by:	Received by:
Date / Time: 6/7/02 1253pm	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

Forensic Analytical

San Francisco • Los Angeles • Par

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Environmental Hlth Conslt
Project Manager

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: B040524
Date Received: 06/12/02
Date Analyzed: 06/12/02
Date Printed: 06/13/02
First Reported: 06/13/02

Job ID / Site: JOB# 020370 - Milpitas

FASI Job ID: 1699-45

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CM0611-B1	10164948						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				

Total Composite Values of Fibrous Components: **Asbestos:(ND)**
Cellulose (35%) Fibrous Glass (45%)
Comment: Collected on 06/11/2002

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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2777 Depot Road Suite 109 Hayward California 94545-2761 • Telephone 510/887-8828 800 82 FASI Fax 510 887-4218

Forensic Analytical

Analysis Request Form

Client Name & Address:

1699 Environmental Health Consultants

1050 Edwards Road, 94010

Burlingame, CA 94011-7910

Contact: Irene Fanelli

Phone #: (650) 347-9205 ext.

Fax #: (650) 347-1526

Site: Milpitas

Job: 020370

P.O. #: 020370 Date: 6/11/02

Turn Around Time: same day hr/ 12hr / 24hr / 48 hr / ext:

Due Date: / / Due Time: : am/pm

☒ PLM: ☐ Standard / ☐ Point Count ☐ PCM: NIOSH 7400

☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402

☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield

☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Wt %

☐ TEM Microvac

☐ Special Project:

☐ Metals Analysis: Method

Matrix:

Analytes:

Comments:

Sample ID	Date/ Time	Sample Location/Description	FOR AIR SAMPLES ONLY Type	Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume
CM0611-B1	6/11/02	Ceiling Tile	A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled by: Angela Singer Date: 6/11/02 Time: :

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 6/12/02 7:15 am	Date / Time:	Date / Time:
Received by: Melissa Correa	**Received by:**	**Received by:**
Date / Time: 6/12/02 @ 730A	Date / Time:	Date / Time:
Condition Acceptable? ☒ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94545 / Telephone: (510)887-8828 (800)827-FASI / Fax: (510)887-4218
Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310)763-2374 / Fax: (310)763-8684
St. Paul Office: 800 Transfer Road, Suite 7A, St. Paul, Minnesota 55114 / Telephone: (612)644-1007 / Fax: (612)644-1011

Forensic Analytical

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Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: B040592
Date Received: 06/13/02
Date Analyzed: 06/13/02
Date Printed: 06/13/02
First Reported: 06/13/02

Job ID / Site: Job: 020370, Senior Center

FASI Job ID: 1699-41

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CM0613-102B-A1	10165301						
Layer: Off-White Skimcoat/Joint Compound			**ND**				
Layer: Drywall Tape			**ND**				

Total Composite Values of Fibrous Components: **Asbestos:(ND)**
Cellulose (25%)

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Client Name & Address: # RUSH

EHCE

PO Box 117910

Burlingame, CA 94011-7910

Contact: Irene S Fanelli

Phone #: ext. 650 347-9205

Fax #: 650 347 1526

Site: Senior Ctr.

Job: 020370

P.O. #: 020370 Date: 6/13/02

Turn Around Time: 6 hr/ 12hr / 24hr / 48 hr / ext:

Due Date: 6/13/02 Due Time: 5:00 am/pm

☒ PLM: ☐ Standard / ☐ Point Count ☐ PCM: NIOSH 7400

☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402

☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield

☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Wt %

☐ TEM Microvac

☐ Special Project:

☐ Metals Analysis: Method

Matrix:

Analytes:

Comments:

Sample ID	Date/ Time	Sample Location/Description	FOR AIR SAMPLES ONLY Type	Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume
CM0613-102B-A1		Rm 102B Wall Sys.	A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled by: Irene S. Fanelli Date: 6/13/02 Time: 11:00

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 6/13/02 12:55	Date / Time:	Date / Time:
Received by:	Received by:	Received by:
Date / Time: 6/13/02 1255pm	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

Forensic Analytical

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Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: F017856
Date Received: 06/17/02
Date Analyzed: 06/17/02
Date Printed: 06/17/02
First Reported: 06/17/02

Job ID / Site: JOB# 020370, Milpitas

FASI Job ID: 1699-45

Sample Number	Lab Number	Date Collected	Particulate	Relative Density
CM0617-S1	40025905	06/17/02	Abundant	

no sample location indicated
No spores or sporulating structures present.

NOTE: Non-viable Fungal structures are quantified as follows, from lowest to highest: 'Trace', 'Minor', 'Major', and 'Abundant'. These values are qualitative, and are meant to show relative quantities only. The amount of hyphae present can indicate the amount of fungal growth.

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical

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Non-Viable Bulk Microbiological Analysis

Environmental Hlth Conslt
Irene Fanelli

PO Box 117910
Burlingame, CA 94011-7910

Client ID:	1699
Report Number:	F017856
Date Received:	06/17/02
Date Analyzed:	06/17/02
Date Printed:	06/17/02
First Reported:	06/17/02

Job ID / Site: *JOB# 020370, Milpitas*

FASI Job ID: 1699-45

Summary

A. David Sime, Ph.D.

A. David Sime, Microbiology Laboratory Supervisor, Hayward Laboratory

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Forr Analytical

Microbial Analysis Req Form

Company: EHCI

Client ID#: 16919-45

Street: P.O. BOX 117110

City: Burlingame State: CA Zip: 94011

Contact: Irene Fanucci

Phone #: (650) 347-9205 Fax #: (650) 347-1526

Site: Milpitas

Job: 020370

Comments:

P.O. #: 020370 Date: 06 / 17 / 02

Turn Around Time: Same day Extended:

DUE DATE: 6 / 17 / 02 DUE TIME: 5 : 00 am/pm

Sample ID	Date/ Time	Sample Location/Substrate	FOR AIR SAMPLES ONLY Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume	Analysis Requested (See Codes on Back)	Media Type (MEA, DG18, Cellulose, CMA, Other)	Sub-culturing Penicillium	Cladosporium	Fusarium
CM06	7-51	6/17/02					NVB				

Sampled by: Chrysta Singer Date: 06 / 17 / 02 Time: 13 : 00 am/pm

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 06/17/02 13:54	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No
Received by:	Received by:	Received by:
Date / Time: 6/17/02 1550pm	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

Forensic Analytical **Final Report**

San Francisco • Los Angeles • Minneapolis / St Paul

Metals Analysis of HUD Wipes

Environmental Hlth Conslt
Project Manager

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: M049566
Date Received: 06/17/02
Date Analyzed: 06/18/02
Date Printed: 06/18/02
First Reported: 06/18/02

Job ID / Site: JOB# 020370 - Milpitas

FASI Job ID: 1699-45

Sample Number	Lab Number	Analyte	Area ft2	Result	Result Units	Reporting Limit	Method Reference
CM0617-W120	30144665	Pb	1.0	140	ug/ft2	20	HUD Apd. 14.2
CM0617-W121	30144666	Pb	1.0	140	ug/ft2	20	HUD Apd. 14.2
CM0617-WBLANK	30144667	Pb		< 20	ug	20	HUD Apd. 14.2

Note to clients performing work related to the Lead Based Paint Hazard Reduction Act: Sample results for wipes not meeting ASTM E 1792 are not recognized within the National Lead Laboratory Accreditation Program.
Forensic Analytical can not determine whether or not wipes submitted to us for analysis meet the ASTM standard. We recommend to our clients that they document the brand of wipe that they use for each submission on their sample request form

David Bowden, Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical 1699-45 Analysis Request Form

Client Name & Address:

1699 EHCI
P.O. Box 117910
Burlingame, CA 94011

Contact: Irene Fanelli

Phone #: (650) 347-9205 ext.

Fax #: (650) 347-1526

Site: Milpitas

Job: 020370

P.O. #: 020370 **Date:** 6/17/02

Turn Around Time: Same day hr / 12hr / 24hr / 48 hr / ext: by end

Due Date: 6/17/02 **Due Time:** 5:00 am/

☐ PLM: ☐ Standard / ☐ Point Count ☐ PCM: NIOSH 7400

☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402
☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield
☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Wt %
☐ TEM Microvac

☐ Special Project:

☒ Metals Analysis: Method Lead

Matrix: Wipe

Analytes:

Comments:

Sample ID	Date/ Time	Sample Location/Description	FOR AIR SAMPLES ONLY Type	Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume
CM0617-W120	6/17/02	Return Interior Rm 120	A P C				144
CM0617-W121	6/17/02	Return Exterior Rm 121	A P C				144
CM0617-B120	6/17/02	Bulk Fiberglass	A P C				—
CM0617-WBLK	6/17/02		A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled by: Angela Singer Date: 06/17/02 Time: 13:00

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by:	Relinquished by:	Relinquished by:
Date / Time: 06/17/02 13:00	Date / Time:	Date / Time:
Received by:	Received by:	Received by:
Date / Time: 6/17/02 1:55pm	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

Metals Analysis of Bulks

Environmental Hlth Conslt
Project Manager

PO Box 117910
Burlingame, CA 94011-7910

Client ID: 1699
Report Number: M049567
Date Received: 06/17/02
Date Analyzed: 06/18/02
Date Printed: 06/18/02
First Reported: 06/18/02

Job ID / Site: JOB# 020370 - Milpitas

FASI Job ID: 1699-45

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit	Method Reference
CM0617-B120	30144668	Pb	28	mg/kg	6	EPA 3050B/7420

David Bowden, Laboratory Supervisor, Hayward Laboratory

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Forensic Analytical 1699-93 Analysis Request Form

Client Name & Address:	P.O. #: 020370 Date: 6/17/02
# 1699 EHCI	Turn Around Time: Same day hr / 12hr / 24hr / 48 hr / ext: by end 6/1
P.O. Box 117910	Due Date: 6/17/02 Due Time: 5:00 am/
Burlingame, CA 94011	☐ PLM: ☐ Standard / ☐ Point Count ☐ PCM: NIOSH 7400
Contact: Irene Fanelli	☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402
Phone #: ext. (650) 347-9205	☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield
	☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Wt %
	☐ TEM Microvac
Fax #: (650) 347-1526	☐ Special Project:
Site: Milpitas	☒ Metals Analysis: Method Lead
Job: 020370	Matrix: Wipe
	Analytes:

Comments:

Sample ID	Date/ Time	Sample Location/Description	FOR AIR SAMPLES ONLY Type	Time On/Off	Avg. LPM	Total Time	Sample Area or Air Volume
CM0617-W120	6/17/02	Return Interior Rm 120	A P C				144
CM0617-W121	6/17/02	Return Exterior Rm 121	A P C				144
CM0617-B120	6/17/02	Bulk Fiberglass	A P C				—
CM0617-WBLK	6/17/02		A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled by: Angela Singer Date: 06/17/02 Time: 13:00

Shipped via: ☐ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:

Relinquished by: [signature]	Relinquished by:	Relinquished by:
Date / Time: 06/17/02 13:40	Date / Time:	Date / Time:
Received by: [signature]	Received by:	Received by:
Date / Time: 6/17/02 1:55pm	Date / Time:	Date / Time:
Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No	Condition Acceptable? ☐ Yes ☐ No

Expanded Mold Sampling
Environmental Services
CIP-8134-1

Environmental Health Consultants

P.O. Box 117910 Burlingame, CA 94011-7910 (650) 347-9205

June 14, 2002

DRAFT COPY

Mr. Michael Boitnott
City of Milpitas
1210 Great Mall Drive
Milpitas, CA 95035

EXPANDED MOLD SAMPLING
CITY OF MILPITAS - SENIOR CENTER
MILPITAS, CALIFORNIA

1.0 INTRODUCTION

This report presents the results of the follow-up mold air sampling and bulk sampling, lead in carpet bulk sampling, lead wipe sampling from vinyl flooring, and visual inspection completed at the Senior Center in Milpitas, California. The purposes of the survey were to follow-up upon the initial mold sampling, and determine if there were other areas that had been impacted with mold. Rooms 110, 117 and 130 were not sampled during this phase of the work since these rooms are already scheduled for remediation and or renovation.

Additional indoor air quality (IAQ) evaluations have been initiated in the building. Direct reading instruments measuring temperature, humidity and carbon dioxide levels in the building during normal air conditions have been completed. Analysis for volatile organic compounds has also been accomplished. The results of these evaluations are being reported under separate cover.

2.0 FIELD INVESTIGATION

Ms. Irene Fanelli, CIH and Ms. Judith Hosner of Environmental Health Consultants, Inc. (EHCI) conducted the field investigation on May 29, 2002. Mold spore samples were collected in air samples and in settled dust on carpeted floors. An additional bulk sample of the ceiling plaster in Room 120 was collected by Ms. Fanelli and Mr. Boitnott of the City of Milpitas on June 7, 2002. The lead wipe and bulk samples were collected by Ms. Fanelli and Ms. Angela Singer on June 4, 2002. A second additional sample was collected in Rooms 102A and 102B on June 13, 2002, after visual inspection of these rooms revealed the extensive presence of mold on the ceiling and walls of Rooms 102A – 102D.

DRAFT

3.0 PRINCIPLE FINDINGS

3.1 Mold

3.1.1 Spores in Settled Dust in Carpet

Mold spores were found at trace levels in the carpet in all but two of the carpeted rooms. The carpeted rooms include Rooms 104, 105, 106, 114, 120, 121, 122, 128 and 129. **Mold spores were found in the carpet in all of the rooms except Rooms 128 and 129.** Mold spores in these samples were identified to the Genus level and included Cladosporium, Aspergillus/Penicillium and Alternaria.

3.1.2 Airborne Spores Under Normal Room Conditions

Air samples were collected under normal room conditions with the air conditioning set on "fan only", when operable, and then with an oscillating fan set on "high", sweeping across the floor to provide a disturbed condition sample. Air samples were collected in Rooms 101, 104, 105, 106, 107, 109, 114, 116, 120, 121, 122, 123, 128 and 129. All of the rooms except 105 and 106 open directly to outdoors, to either a courtyard or exterior corridor.

The normal room condition sampling showed that all of the rooms except **Room 107** were found to have total spore concentrations well below that of the outdoor control samples. The airborne spore concentration in **Room 107** was 1600 spores per cubic meter of air (spores/m^3), as compared to 1800 and 2100 spores/m^3 for the outdoor samples.

The normal room condition sampling showed that **Room 109** had Ulocladium at a concentration of 24 spores/m^3 compared to 16 spores/m^3 in an outdoor sample. **Room 120**, had Myxomycete at a concentration of 22 spores/m^3, compared to 16 spores/m^3 in an outdoor sample. **Room 123** had Aspergillus/Penicillium at a concentration of 140 spores/m^3, compared to 32 and 110 spores/m^3 in the outdoor samples. **Room 128** had Ascospores present in a concentration of 160 spores/m^3, compared to 64 spores/m^3 in an outdoor sample. **Room 129** had Ulocladium at a concentration of 22 spores/m^3, compared to 16 spores/m^3 in an outdoor sample.

3.1.3 Airborne Spores Under Disturbed Room Conditions

The disturbed room condition sampling showed that all of the rooms except **Rooms 107 and 123** were found to have total spore concentrations well below that of the outdoor control samples. The result for **Room 107** was 1600 spores/m^3, as compared to 1800 and 2100 spores/m^3 for the outdoor samples. The result for **Room 123** was 1400 spores/m^3 as compared to 1800 and 2100 spores/m^3 for the outdoor samples. All of the mold genera identified in the samples from **Room 107** were also found in the outdoor samples.

The disturbed room condition sampling showed that **Room 107** had Alternaria at 81 spores/m^3 compared to 32 and 66 spores/m^3 in the outdoor samples; Aspergillus/Penicillium at a concentration of 120 spores/m^3 compared to 32 and 110 spores/m^3 in the outdoor samples; and Torula at a concentration of 40 spores/m^3 compared to 32 spores/m^3 in an outdoor sample. **Room**

109 had Aspergillus/Penicillium at a concentration of 220 spores/m^3 compared to 32 and 110 spores/m^3 in the outdoor samples. **Room 114**, had Myxomycete at a concentration of 24 spores/m^3 compared to 16 spores/m^3 in an outdoor sample. **Room 123** had Basidiospores and at a concentration of 240 spores/m^3 compared to 16 and 180 spores/m^3 in the outdoor samples. **Room 128** had Aspergillus/Penicillium at a concentration of 400 spores/m^3 compared to 32 and 110 spores/m^3 in the outdoor samples.

3.1.4 Airborne Spore Genera Found Inside and Not Outside

In **Room 104**, Epicoccum was found at a concentration of 20 spores/m^3, when it was not found outdoors. In **Room 105**, Oidium was found at a concentration of 20 spores/m^3, when it was not found outdoors. In **Room 106**, Stachybotrys was found at a concentration of 24 spores/m^3, when it was not found outdoors. In **Room 109**, Bipolaris/Dreschlera was found at a concentration of 22 spores/m^3, Botrytis was found at a concentration of 24 spores/m^3, and Trichocladium was found at a concentration of 22 spores/m^3, when they were not found outdoors. In **Room 120**, Chaetomium was found at a concentration of 44 spores/m^3, when it was not found outdoors. In **Room 121**, Trichocladium was found at a concentration of 22 spores/m^3, when it was not found outdoors. In **Room 122**, Chaetomium was found at a concentration of 15 spores/m^3, when it was not found outdoors. In **Room 123**, Botrytis and Chaetomium were found at concentrations of 20 and 48 spores/m^3, respectively, when they were not found outdoors.

In summary, only Rooms 101 (the auditorium) and 116 were found to have neither an amplified level of spores over outdoors for any genus of mold, nor any genus of mold indoors that was not found outdoors.

3.2 Lead

All of the settled dust samples were found to contain lead. The wipe samples were all found to contain lead at less than the level of detection for the analytical method.

In Room 104, the traffic area sample revealed a higher level of lead than in the non-traffic area sample. The remaining rooms were sampled in areas that represented a combination of the two conditions. Rooms 114, 120, 122, 128 and 129 had sample results similar to both of the lead levels found in Room 104. Room 121 had a sample result substantially higher than the other rooms. This condition was probably at least partially due to the paint debris on the floor resulting from removal of a ceiling tile to obtain access to the space above the ceiling for visual investigation. The sample collection was directed away from the visible debris, but may have included some dust from the ceiling tile.

3.3 Visual Inspection

A visual inspection of the various areas of the building revealed that the plaster ceiling above the t-bar ceiling is degrading and falling apart at variable rates throughout the building. In addition, the paint on the plaster ceiling is delaminating from the substrate at differing rates throughout the building. In Rooms 123, 128 and 129, the ceiling consists of 12 X 12-inch ceiling tiles that fit together by a tongue and groove method, up against plywood sheeting. This ceiling system is also failing and has visible water staining distributed throughout.

A cursory inspection of Room 120 revealed an area of ceiling in the southwest corner where there is visible water damage. The area is currently dry with visible bubbling of the paint on the plaster. The bulk sample collected on June 7th revealed Chaetomium, Trichocladium and hyphae present on the ceiling. The mold was reported as minor. The Forensic laboratory reports non-viable bulk analysis in relative quantitative terms of trace, minor, major and abundant.

Further visual inspection conducted on June 11, 2002 revealed the apparent presence of mold on the drywall and ceiling texture of the four center closets (Rooms 102A – 102D) along the southern exterior of Room 101. Bulk samples were collected on June 13, 2002. The results showed abundant growth of Penicillium.

During inspection of the area above the drop ceiling in Room 122, a condensate line from the air conditioning system was noted to be slowly leaking water onto the top of the air supply diffuser.

4.0 SAMPLING

The settled mold spore samples were collected using 25-mm extended cowl filter cassettes attached to a vacuum pump. The samples were collected by removing the cap from the cassette and vacuuming non-traffic areas of carpet. Care was taken to prevent handling the open end of the cassette. The amount of sample collected was judged by visual evaluation of the dust loading in the cassette. At the end of the sample collection, the cap was replaced on the cassette. Each cassette was individually numbered for distinct identification. The samples were delivered under Chain-of-Custody documentation to the Forensic Analytical Laboratory in Hayward, California.

The airborne spore samples were collected on Zefon Air-O-Cell cassettes. Each cassette was placed in line with a vacuum pump calibrated to deliver a flowrate of approximately 15 liters per minute. The samples were run for approximately 10 minutes each. Care was taken to avoid contamination by touching the front of the cassette. Each sample was sealed at the completion of the sample collection. Each cassette was individually numbered for distinct identification. Two outdoor control locations were sampled for comparison to the inside samples. A blank cassette was provided to the laboratory for evaluation for possible background spore presence in the media. The samples were delivered under Chain-of-Custody documentation to the Forensic Analytical Laboratory in Hayward, California.

The Forensic Laboratory in Hayward is a successful participant in the American Industrial Hygiene Association Environmental Microbiology Proficiency Analytical Testing (EMPAT) program.

A total of four wipe samples and eight settled dust samples were collected for lead analysis as part of the field investigation. These settled dust samples were collected in containers that preserved their existing condition at the time of sampling. Samples Pb1 and Pb2 were collected in Room 104, to represent traffic and non-traffic areas, respectively. The two samples were collected in order to see if there was a substantial difference in the lead levels, such that they may be due to lead being tracked in from outside soil. The wipe samples were placed in secure containers for

transport to the laboratory. The samples were delivered under Chain-of-Custody documentation to the Forensic Analytical Laboratory in Hayward, California.

The Forensic Laboratory in Hayward is accredited by the American Industrial Hygiene Association and the State of California, for lead analysis.

5.0 LABORATORY ANALYSIS

The carpet settled dust samples were evaluated for spores and identified to the Genus Level. The air samples were evaluated for identification of spores at the Genus level and quantified in units of spores/m^3 of air.

Table 1 provides the results of the carpet mold bulk sampling. Table 2 provides the results of the mold air sampling. Table 3 provides the results of the lead wipe samples. Table 4 provides the results of the lead carpet dust bulk samples.

The lead bulk samples were analyzed in accordance with USEPA Method 3050B/7420. The wipe samples were analyzed in accordance with HUD Apd. 14.2.

All of the laboratory reports for samples collected during this work are included in Appendix A.

6.0 DISCUSSION

There are currently no regulatory limits for microbiological agents in buildings. Typically, concern is raised when there are amplified levels of mold present indoors over that outdoors. In addition, concern is raised when there are molds present indoors that are not present outdoors, or where the relative ranking of various genera of mold are different between indoors and outdoors.

The conditions at the Senior Center show there are slightly amplified levels of individual molds inside over outside. In addition, although they are present in low quantities, there are different molds present inside that were not found outside.

7.0 RECOMMENDATIONS

The recommendations listed below are in addition to those provided in our initial report dated 5/18/02.

- Remove, dispose and replace the carpeting throughout the building. This work must be completed in compliance with the Cal-OSHA Lead-In-Construction Standard (8 CCR 1532.1). Prior to disposal, additional analysis will be necessary to determine if the carpet is hazardous waste under Californian and/or federal hazardous waste disposal criteria, based upon the presence of lead. After removal of the carpet, each floor must be inspected for the presence of moisture or prior water damage. Any mold or moisture-impacted flooring should be removed and replaced.

- Remove and dispose of the plaster ceilings that are damaged throughout the building. This work must be completed in compliance with the Cal-OSHA Lead-In-Construction Standard (8 CCR 1532.1). Loose peeling paint should be segregated for disposal as hazardous waste. Once demolition of the ceiling and removal of carpeting is complete, the rooms must be inspected for the presence of water damage and/or mold, and then decontaminated by HEPA vacuuming all surfaces followed by wet-wiping all room surfaces for removal of lead dust and mold. This work will be done by a lead/mold abatement contractor. The rooms will be maintained under negative pressure during this work in order to prevent the possible spread of mold spores.

- Remove and dispose of the 12 X 12-inch ceiling tiles in Rooms 123, 128 and 129. Once demolition of the ceiling tiles is complete, the rooms must be inspected for the presence of water damage and/or mold, and then decontaminated by HEPA vacuuming all surfaces followed by wet-wiping all room surfaces for removal of lead dust and mold. This work must be done by a lead/mold abatement contractor. The rooms will be maintained under negative pressure during this work in order to prevent the possible spread of mold spores.

- Remove and dispose of the sheetrock walls and ceilings in Room 102A – 102D. This work must be done by a lead/mold abatement contractor. The area must be maintained under a negative pressure enclosure throughout the work.

- The fabric furnishings and papers remaining outside of closed file cabinets in Rooms 107, 120 and 123 should be removed and discarded. Porous items stored out in the open in Rooms 107, 120 and 123, and in rooms 102A – 102D should be removed and discarded.

- The building should remain unoccupied throughout the duration of the remedial and re-construction work activities so as to protect the public and building employees from safety and health hazards associated with the work.

- Additional detailed inspection of the building will be completed by Ms. Fanelli and Mr. Boitnott, as construction activities progress, in an effort to identify any additional areas where water damage and/or the presence of mold may be detected. Appropriate remedial measures will be determined at that time.

- Further evaluation of the ventilation systems will be made to determine if abatement efforts are needed.

8.0 LIMITATIONS

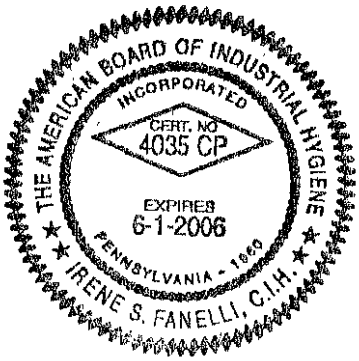
This report has been prepared to aid the City of Milpitas in identifying and addressing mold and lead-containing materials during proposed construction activities at the Senior Center in Milpitas, California. The conclusions and recommendations describe only the conditions present at the time of our survey, in areas that were observed. Other conditions may exist in inaccessible areas. Further, the condition of materials may change gradually or suddenly, depending upon use, maintenance, or accidents. If there are changes in the levels of activity in material conditions, we should be notified so that we can observe the conditions and if appropriate, provide additional recommendations.

We appreciate the opportunity to assist you with this project and look forward to working with you in the future. If we can answer any questions, or be of further assistance, please contact us at (650) 347-9205.

Sincerely,
ENVIRONMENTAL HEALTH CONSULTANTS, INC.

Irene S. Fanelli

Irene S. Fanelli, CIH
President
Certified Asbestos Consultant # 97-2132



APPENDIX A

LABORATORY REPORTS

Table 1
Non-Viable Bulk Sample Results
City of Milpitas - Senior Center
May 29, 2002

SAMPLE NUMBER	SAMPLE LOCATION	Alternaria	Aspergillus/ Penicillium	Cladosporium	Hyphae
CM 0529-C1	Room 104	--	--	Trace	Trace
CM 0529-C2	Room 105	--	--	Trace	Trace
CM 0529-C3	Room 106	--	--	Trace	Trace
CM 0529-C4	Room 114	--	--	Trace	Trace
CM 0529-C5	Room 120	--	Trace	Trace	Trace
CM 0529-C6	Room 121	--	--	Trace	Trace
CM 0529-C7	Room 122	Trace	--	--	Trace
CM 0529-C8	Room 128	--	--	--	--
CM 0529-C9	Room 129	--	--	--	--

Notes
Non-Viable Fungal Structures are quantified as follows, from lowest to highest:
Trace, Minor, Major, Abundant
These values are qualitative, and are meant to show relative quantities only.

Table 2
Non-Viable Air Sample Results
City of Milpitas - Senior Center
May 30, 2002

SAMPLE NUMBER	SAMPLE LOCATION	Alternaria	Ascospores	Basidiospores	Bipolaris/ Dreschlera	Botrytis	Chaetomium	Cladosporium	Epicoccum	Myxomycete	Oidium	Penicillium/ Aspergillus	Stachybotrys	Stemphyllium	Torula	Trichocladium	Ulocladium	Total spores/m^3
CM0530-A1		–	22	22	–	–	–	110	–	–	–	–	–	–	–	–	–	150
CM0530-B1	Room 101	–	–	–	–	–	–	24	–	–	–	–	–	–	–	–	–	24
CM0530-A2		–	20	–	–	–	–	100	20	–	–	–	–	–	–	–	–	140
CM0530-B2	Room 104	40	20	–	–	–	–	60	–	–	–	40	–	–	–	–	–	180
CM0530-A3		–	–	40	–	–	–	100	–	–	20	–	–	–	–	–	–	160
CM0530-B3	Room 105	–	–	24	–	–	–	73	–	–	–	–	–	–	–	–	–	120
CM0530-A4		24	–	–	–	–	–	73	–	–	–	24	–	–	–	–	–	120
CM0530-B4	Room 106	24	–	–	–	–	–	97	–	–	–	–	24	–	–	–	–	170
CM0530-A5		48	24	97	–	–	–	1500	–	–	–	–	–	–	–	–	–	1600
CM0530-B5	Room 107	81	60	100	–	–	–	1100	–	–	–	120	–	–	40	–	–	1600
CM0530-A6		–	–	48	–	24	–	310	–	–	–	–	–	–	–	–	24	410
CM0530-B6	Room 109	44	44	110	22	–	–	220	–	–	–	220	–	–	–	22	–	790
CM0530-A7		–	–	24	–	–	–	580	–	–	–	48	–	–	–	–	–	650
CM0530-B7	Room 114	–	48	48	–	–	–	48	–	24	–	–	–	–	–	–	–	190
CM0530-A8		–	–	24	–	–	–	48	–	–	–	–	–	–	–	–	–	73
CM0530-B8	Room 116	–	–	–	–	–	–	48	–	–	–	24	–	–	–	–	–	73
CM0530-A9		–	–	22	–	–	–	150	–	22	–	44	–	–	–	–	–	240
CM0530-B9	Room 120	–	22	66	–	–	44	220	–	–	–	44	–	–	–	–	–	420
CM0530-A10		–	–	–	–	–	–	110	–	–	–	–	–	–	–	22	–	130
CM0530-B10	Room 121	–	–	30	–	–	–	240	–	–	–	–	–	–	–	–	–	300
CM0530-A11		22	–	22	–	–	–	110	–	–	–	–	–	–	–	–	–	150
CM0530-B11	Room 122	15	–	15	–	–	15	290	–	–	–	–	–	–	–	–	–	360
CM0530-A12		–	–	40	–	20	–	300	–	–	–	140	–	–	–	–	–	500
CM0530-B12	Room 123	24	48	240	–	–	48	940	–	–	–	–	–	–	24	–	–	1400
CM0530-A13		–	160	40	–	–	–	420	–	–	–	20	–	–	–	–	–	640
CM0530-B13	Room 128	22	–	–	–	–	–	–	–	–	–	400	–	–	–	–	–	420
CM0530-A14		–	–	–	–	–	–	290	–	–	–	88	–	–	–	–	22	420
CM0530-B14	Room 129	–	–	–	–	–	–	24	–	–	–	–	–	–	–	–	–	120
CM0530-A15	Parking Lot	32	64	16	–	–	–	1800	–	16	–	32	–	16	32	–	16	2100
CM0530-A16	Courtyard	66	–	180	–	–	–	1400	–	–	–	110	–	–	–	–	–	1800

Notes
A - undistrubed samples taken while HVAC fan was on
B - disturbed samples taken while floor fan was on in addition to HVAC fan
All results reported in units of spores/m^3 (per cubic meter)

Table 3
Wipe Sample Results
City of Milpitas - Senior Center
June 4, 2002

Date	Sample Number	Lead (ug/ft^2)[1]	Sample Location
06/04/02	CM0604-W1	< 20	Room 107
06/04/02	CM0604-W2	< 20	Room 116
06/04/02	CM0604-W3	< 20	Room 123
06/04/02	CM0604-W4	< 20	Blank

Notes

1. ug/ft^2 = micrograms per square foot

Table 4
Carpet Dust Bulk Sample Results
City of Milpitas - Senior Center
June 4, 2002

Date	Sample Number	Lead (mg/kg)[1]	Sample Location
06/04/02	CM0604-PB1	250	Room 104 - Traffic
06/04/02	CM0604-PB2	170	Room 104 - Non-Traffic
06/04/02	CM0604-PB3	170	Room 114
06/04/02	CM0604-PB4	150	Room 120
06/04/02	CM0604-PB5	980	Room 121
06/04/02	CM0604-PB6	240	Room 122
06/04/02	CM0604-PB7	250	Room 128
06/04/02	CM0604-PB8	150	Room 129

Notes

1. mg/kg = milligrams per kilogram

ENVIRONMENTAL SERVICES
CIP- 8134-1

Environmental Health Consultants

P.O. Box 117910 Burlingame, CA 94011-7910 (650) 347-9205

May 18, 2002

Mr. Michael Boitnott
City of Milpitas
1210 Great Mall Drive
Milpitas, CA 95035

LIMITED ASBESTOS AND LEAD SURVEY
CITY OF MILPITAS - SENIOR CENTER
MILPITAS, CALIFORNIA

Introduction

This report presents the results of the asbestos and lead bulk sample survey conducted at the Senior Center in Milpitas, California. Work on this project was performed with the standards of care and diligence normally practiced by recognized consulting firms in performing services of similar nature.

Field Investigation

Ms. Irene Fanelli of Environmental Health Consultants, Inc. (EHCI) conducted the field investigation on April 20, 2002. An additional sample of the drywall system in Room 110 was taken on April 26, 2002. Additional wall system samples were collected on May 10, 2002 in rooms where renovation is proposed to occur. The purpose of the survey was to determine if Asbestos Containing Materials (ACM), were present in building components that would be impacted during renovations of the restrooms, various meeting rooms and Room 117, where water damage had occurred. The field investigation included the identification and sampling of materials to determine their asbestos content. Thirty-one (31) samples of suspect ACM were obtained from various locations and analyzed by an independent laboratory.

Lead or other metals samples were collected on April 20 and 24, 2002. The lead survey was again limited to building materials expected to be impacted during renovation of the restrooms or repairs to Room 117. Paint samples were analyzed for lead, cadmium and arsenic. Ceramic tile samples were analyzed for lead.

Principle Findings

According to the laboratory results, the following material(s) sampled contained detectable amounts of asbestos:

- Brown Ceramic Tile Mastic on the North Wall of Room 111 (3% Chrysotile);
- Joint Compound on the East Wall of Room 110 (3% Chrysotile);
- Joint Compound in the Shower Stall of Room 110 (3% Chrysotile).

According to the laboratory results, the following materials contained lead or other metals:

- Wall tiles in both of the main restrooms;
- Wall tiles in the shower stall in Room 110;
- Window trim paint;
- Wall paint

Sampling

A total of 31 bulk samples were collected for asbestos analysis and 11 samples were collected for metals analysis as part of the field investigation. These samples were secured in containers that preserved their existing condition at the time of sampling. The samples were collected in a manner that reduced the potential for any health and safety exposures and deposited in secure containers for transport to the laboratory. Table 1 contains the asbestos sampling descriptions and results. Table 2 contains bulk lead samples and Table 3 contains the paint sample metals analysis. A Floor Plan of the building is attached as Figure 1.

The Environmental Protection Agency (EPA) considers a material to be asbestos-containing only if it contains more than one percent (>1%) asbestos as determined by visual area estimation (NESHAP regulations — 40 CFR 61 Part M, dated November 20, 1990). The regulations further indicate that regulated asbestos-containing materials (RACM) be further analyzed by point counting when the results indicate less than ten percent asbestos content by visual area estimation, including trace amounts of asbestos. Point counting is not required if the owner/operator elects to assume the amount of asbestos in a material is greater than one percent regardless of the amount determined by visual area estimation, and the material is treated as asbestos-containing. **The California Division of Occupational Safety and Health (Cal-OSHA) has defined asbestos-containing construction material (ACCM) as any manufactured construction material which contains more than one-tenth of one percent (>0.1%) asbestos.** Because of the Cal-OSHA designation of materials containing less than 1% asbestos as ACCM's, it is necessary to remove these materials using controlled procedures and employing proper personal protection. A certified professional who understands the regulations and is accredited to design removal/demolition projects involving ACCM's should plan the proper control measures for these materials, based on the Owner's requirements.

Cal-OSHA has a regulation (8 CCR 1532.1) covering lead in construction activities. The rule specifies work practices, allowable exposure levels, exposure monitoring, personnel protection requirements, training and medical monitoring requirements. Under the regulation, demolition and paint preparation activities are considered "Trigger Activities". As such, prescribed levels of protection as well as other requirements will apply to the restroom renovation, paint preparation and wall demolition prior to installing wainscot and chair rail in the various meeting rooms.

Laboratory Analysis

The bulk suspect ACM samples were analyzed using Polarized Light Microscopy (PLM). This technique characterizes the materials' refractive indices, fiber morphology, birefringence, extinction angle, and sign of elongation, and dispersion staining colors to detect synthetic and natural minerals. The bulk samples were sent under proper chain of custody to Forensic Analytical Services (Forensic) located in Hayward, California. Forensic is a successful participant in the National Laboratory Accreditation Program and accredited in California by the Department of Health Services. A copy of the original bulk sample laboratory report is included with this report as Appendix A.

The metals samples were analyzed by Atomic Absorption Spectroscopy. The samples were sent under chain-of-custody to Forensic Analytical Services (Forensic) located in Hayward, California.

Recommendations

The EPA does not mandate the removal of ACM in buildings unless they will be disturbed by renovation or demolition activities, or if they are damaged. However, the EPA has indicated that there are no longer any grounds for completely deferring action once asbestos is identified in a building.

Even when asbestos is identified in a building and exists under ideal conditions (restricted access by occupants or employees, minimal vibration, no physical damage such as water damage or vandalism, no forced or natural airstreams over exposed ACM, etc.), the minimum corrective actions that should be taken consist of an Operations and Maintenance (O&M) Program and periodic reassessment of the material as described in 40 CFR-761 (EPA-AHERA regulation).

In addition to the preceding general considerations, California Health & Safety Code Sections 25915 – 25919.7 require the owner of any building constructed prior to 1979 who knows that asbestos containing construction materials are present therein, provide detailed written notice summarizing the information in their possession to all building tenants, employees, and to parties with whom the owner has privity of contract (e.g. lessees, contractors, custodial service providers). Copies of the Code Sections referenced above are attached to this report.

It is our understanding that the areas surveyed are scheduled by the City of Milpitas to be renovated and/or demolished in the future. Since these activities will disturb the ACM and lead-

containing materials described in this report, it is our recommendation that these materials be removed by a licensed abatement contractor in accordance with local, state, and federal regulations.

Limitations

This report has been prepared to aid the City of Milpitas in identifying and addressing asbestos and lead-containing materials during proposed construction activities at the Senior Center in Milpitas, California. The conclusions and recommendations describe only the conditions present at the time of our survey, in areas that were observed. Other conditions may exist in inaccessible areas. Further, the condition of materials may change gradually or suddenly, depending upon use, maintenance, or accidents. If there are changes in the levels of activity in material conditions, we should be notified so that we can observe the conditions and if appropriate, provide additional recommendations.

We appreciate the opportunity to assist you with this project and look forward to working with you in the future. If we can answer any questions, or be of further assistance, please contact us at (650) 347-9205.

Sincerely,
ENVIRONMENTAL HEALTH CONSULTANTS, INC.

Irene S. Fanelli
President
Certified Asbestos Consultant # 97-2132

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERT. NO
4035 CP
EXPIRES
6-1-2006
PENNSYLVANIA - 1960
IRENE S. FANELLI, C.I.H.

Table 1
Bulk Asbestos Results
City of Milpitas - Senior Center
Milpitas, California

Sample Number	Sample Location	Sample Description	Sample Results
CM 0420-A1	Room 117 - South Wall above 2nd Shelf	Plaster	ND
CM 0420-A2	Room 117 - Ceiling, Southeast Corner	Plaster	ND
CM 0420-A3	Room 117 - South Wall	Plaster	ND
CM 0420-A4	Room 117 - Ceiling	Drywall/Joint Compound	ND
CM 0420-A5	Room 117 - Ceiling	Tar/Felt	ND
CM 0420-A6	Room 117 - South Wall	Plaster	ND
CM 0420-A7	Room 111 (Ladies Room) - Ceiling, Southeast Corner	Drywall/Joint Compound	ND
CM 0420-A8	Room 111 (Ladies Room) - North Wall	Drywall/Joint Compound	ND
CM 0420-A9	Room 111 (Ladies Room) - South Wall	4" x 4" White Tile/ Grout/Mastic	ND
CM 0420-A10	Room 111 (Ladies Room) - North Stall Wall	White Cove Tile/Grout /Mastic	ND
CM 0420-A11	Room 111 (Ladies Room) - North Wall	4" x 4" Yellow Tile/ Grout	ND
		Brown Quickset Mastic	3 % Chrysotile
CM 0420-A12	Room 111 (Ladies Room)	1" x 1" Yellow Floor Tile/Grout/Mastic	ND
CM 0420-A13	Room 111 (Ladies Room)	White Tile/Grout/ Mastic	ND
CM 0420-A14	Room 130 - South Stall Wall	Joint Compound/Tile/ Grout/Mastic	ND
CM 0420-A15	Room 107 - West Wall above Drop Ceiling	Stucco	ND

Table 1
Bulk Asbestos Results
City of Milpitas - Senior Center
Milpitas, California

Sample Number	Sample Location	Sample Description	Sample Results
CM 0420-A16	Room 107 - West Wall above Drop Ceiling	Moisture Barrier behind Stucco	ND
CM 0420-A17	Room 110 - East Wall above Light Switch	Drywall	ND
		Joint Compound	**3 % Chrysotile**
CM 0420-A18	Room 110 - West Wall	Plaster	ND
CM 0420-A19	Room 110 - West Wall of Shower Stall	Drywall/Joint Compound	ND
CM 0420-A20	Room 110 - Floor of Shower Stall	1" x 1" Gray Tile/ Grout	ND
CM 0420-A21	Room 110 - Floor of Shower Stall	Gray Thinset	ND
CM 0420-A22	Room 110 - Wall of Shower Stall	Green & Gray Tile/ Grout/Mastic	ND
CM 0420-A23	Exterior Stucco - South Wall, West Corner	Stucco	ND
CM 0426-A1	Room 110 - Wall of Shower Stall	Drywall	ND
		Joint Compound	**3 % Chrysotile**
CM 0510-1	Room 108 - Exterior Wall	Plaster	ND
CM 0510-2	Souuth Wall Left of Doorway	Drywall/Joint Compound	ND
CM 0510-3	Room 129 - North Wall	Drywall/Joint Compound	ND
CM 0510-4	Room 116 - South Wall	Drywall/Joint Compound	ND
CM 0510-5	Room 101 - South Wall	Drywall/Joint Compound	ND
CM 0510-6	Room 120 - West Wall	Plaster	ND
CM 0510-7	Room 121 - West Wall	Plaster	ND

Table 2
Lead Results
City of Milpitas - Senior Center
Milpitas, California

Sample Number	Sample Location	Sample Description	Sample Results (mg/kg)[1]
CM 0420-PB2	Room 111	1" x 1" Yellow Floor Tile	< 5
CM 0420-PB3	Room 111	1" x 1" White Floor Tile	< 6
CM 0420-PB4	Room 111	4" x 4" Yellow Wall Tile	**590**
CM 0420-PB5	Room 130	4" x 4" Yellow Replacement Wall Tile	**500**
CM 0420-PB6	Room 110 - Shower Stall	1" x 1" Gray Floor Tile	< 6
CM 0420-PB7	Room 110 - Shower Stall	4" x 4" Gray/Green Wall Tile	**6,500**
CM 0420-PB9	Room 111	4" x 4" White Wall Tile	**25**
CM 0420-PB10	Room 111	White Base Cove Tile	< 6

Notes
1. mg/kg = milligrams of lead per kilogram of sample

Table 3
Bulk Metals Results
City Of Milpitas - Senior Center
Milpitas, California

Sample Number	Sample Location	Sample Description	Arsenic (mg/kg)[1]	Cadmium (mg/kg)	Lead (mg/kg)
CM 0420-PB1	Room 117	Wall Paint	< 8	6	**920**
CM 0420-PB8	Room 107 - West Wall	Paint & Stucco	< 8	4	**370**
CM 0424-B1	Room 130	Window Trim Paint	< 8	4	**1,400**

Notes
1. mg/kg = milligrams of metal per kilogram of sample