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SUMMARY OF HYDROGEOLOGIC SITE CONDITIONS 300 JAMISON ROAD EAST AURORA, NEW YORK

July 1994

BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

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Table of Contents

Section 1 - Introduction

This report summarizes the hydrogeologic conditions observed and field activities completed in June 1994 at 300 Jamison Road in East Aurora, New York. This property is owned by Moog Inc., and approximately 100,000 square feet of the 125,000 square feet facility on the property is leased and occupied by Moog Controls Inc. (Moog Controls). The remaining approximately 25,000 square feet of the building is occupied by Moog Inc. The field activities discussed in this report were completed at the site by Blasland, Bouck & Lee (BB&L) and were undertaken as part of an Environmental Site Assessment (ESA) of the property completed at the request of an independent third party.

Section 2 - Site Overview

The approximately 15-acre property is located at 300 Jamison Road in a lightly industrialized area in East Aurora, Erie County, New York. Operations at the facility on the property include manufacturing, assembling, testing, and development of servovalves and servoactuators, which are used in various industrial applications to throttle hydraulic fluids and control motion. As shown on Figure 1, Jamison Road runs generally east-west, with the site property located south of the road and approximately 1,300 feet west of the intersection of Jamison Road and State Route 400. The building was constructed in four phases starting in approximately 1966 and ending in 1981. The first part of the building was designated as Building 11, with subsequent phases designate sequentially as 11A, 11B, and 11C (Figure 2). The facility is bounded on the east and west by an asphalt-paved parking lot, and a wooded area is located adjacent to the southern side of the building. An approximately 300-foot wide-strip of landscaped lawn, with a cooling pond, of approximately one-half acre in size, is located between the building and Jamison Road (Figure 2) on the north side of the building.

The facility is subdivided into office space and work areas, which include various machining departments, assembly and test areas, research and development, equipment/boiler room, chemical storage room, and shipping and receiving areas. Figure 3 shows the floor plan for the building complex including the Moog Controls and Moog Inc. operations.

Properties immediately to the east and west of the Moog Controls facility are zoned industrial and are Moog Inc. office and manufacturing facilities. The north side of Jamison Road is zoned residential, and residential properties were observed opposite the facility on the north side of Jamison Road.

Section 3 - Site Background/Operating History

Aerial photographs dating from 1938 to 1985 were reviewed and indicated the following:

- 1938: The site location and neighboring areas to the east and west are vegetated, but had been cleared in the past, presumably for agriculture. Two farms are present north of Jamison Road from the site. The area south of the site location is wooded. An intermittent stream channel is visible near what is now the western border of the site (ASCS, 1938).

- 1942: A grass landing strip is present to the south and southwest of the present site location, approximately 600 feet south of Jamison Road. A building, presumably related to the air strip, is present on Seneca Street at the west end of the air strip, southwest of the site (ASCS, 1942).

- 1951: Some 300 feet southwest of the site an area of approximately 600 feet from north to south, and 100 feet from east to west appears to be graded and possibly undergoing construction of some kind. What appears to be a hangar building is present west of the site and to the north of the west end of the air strip. The area directly south of the site is still wooded (ASCS, 1951).

- 1958: A Moog Inc. facility, occupying roughly six acres, is present on the corner of Jamison Road and Seneca Street. A water tower is visible in the photograph on what is currently Moog Inc. property. There are possibly two buildings in the area that appeared to be graded in the 1951 aerial photograph (ASCS, 1958).

- 1966: An initial portion of the Moog Controls facility appears to be under construction. A Moog Inc. building, approximately 400 feet west of the Moog Controls site, is present. The Moog Inc. wastewater treatment facility is present approximately 800 feet south of the adjacent Moog Inc. building. There is an increased number of residences on the north side of Jamison Road. State Route 400 is present for the first time and may be under construction (ASCS, 1966).

- 1978: The Moog Controls facility appears to include Plant 11, 11A, and 11B. The cooling pond may be present (ASCS, 1978).

- 1985: The Moog Controls facility appears generally as it does today, including Plant 11C and the cooling pond. The Moog Inc. wastewater treatment plant appears to have expanded to the west to include additional impoundment structures. An additional Moog Inc. building is present approximately 2200 feet to the east of the Moog Controls facility (ASCS, 1985).

According to Mr. Joseph Belczak, the Financial Manager of the Moog Controls facility, the building and property are owned by Moog Inc., the former parent company of Moog Controls. Moog Controls leases its floor space and utilities from Moog Inc. which still occupies approximately 25,000 square feet of the facility for research and development (Figure 3). The facility is referred to as the Plant 11 Complex. Plant 11 was constructed in March 1966, followed by the addition of Plant 11A in January 1976, Plant 11B in July 1978, and Plant 11C in March 1981. Figure 2 illustrates the relative locations of the plant buildings. From its construction in 1966 and until the construction of Plant 11A in 1976, Plant 11 was used as office space

only. From the mid-to-late 1970s through the present time, the facility has been used for manufacturing.

Moog Controls was incorporated in February 1988. Prior to February 1988, Moog Inc. manufactured servovalves in the current Moog Controls facility. Since that time, Moog Controls has manufactured servovalves and servoactuators. The general layout of the manufacturing process has not substantially changed at the facility since its initial development.

Section 4 - Environmental Setting

There is approximately 10 feet of elevation change (USGS, 1965) across the site property, with most of the site at an elevation of approximately 925 feet National Geodetic Vertical Datum (NGVD). A cooling pond is located north of the facility and south of Jamison Road. An intermittent stream, shown on Figure 1 and observed near the western boundary of the facility, flows to the north. The major streams in the area include, the East Branch of Cazenovia Creek and Buffalo Creek which flow north and west, respectively. Buffalo Creek empties into Lake Erie approximately 13 miles northwest of the site, south of Buffalo, New York and Cazenovia Creek enters Buffalo Creek approximately 10 miles northwest of the site.

Based on measurements in on-site monitoring wells installed during this assessment, ground-water flow is generally to the north-northwest across the site. The ground-surface topography, location of nearby surface-water bodies, and regional drainage systems, suggest that the basin-wide ground-water flow direction is to the northwest toward Cazenovia Creek and, to a lesser extent, north toward Buffalo Creek. The regional ground-water flow is likely to the northwest, toward Lake Erie.

The site is located within the Lake Erie Lowland physiographic region, with topography that is dominated by glacial lacustrine and moraine complexes. The surficial deposits near the site are till and lacustrine beach deposits (Cadwell, 1988). Field observations suggest that till deposits dominate the surficial deposits at the site. Lacustrine sand and gravel deposits were not observed during drilling activities. Soil boring logs from investigations completed during this assessment are presented as Appendix A.

Soils at the site consist of Darien silt loam, with 0 to 3 percent slopes. The Darien silt loam is deep and poorly drained. It developed in shaley till deposits and generally stretches across central Erie County in an east-west band. The soil is described in the Erie County Soil Survey (USDA, 1986) as:

> "...this soil has a surface layer of dark grayish brown silt loam 10 inches thick. The subsurface layer is mottled, grayish brown silt loam 3 inches thick. The subsoil is 21 inches thick. It is mottled, olive brown silty clay loam in the upper part and mottled, dark grayish brown silty clay loam in the lower part. The substratum to a depth of 60 inches or more is firm, dark grayish brown shaley silty clay loam."

This soil description is generally consistent with the observations made during soil sampling at the site. Detailed subsurface logs are provided in Appendix A.

The bedrock underlying the till deposits encountered at the site consists of Angola and Rhinestreet Shales of the Upper Devonian West Falls Groups (Rickard and Fisher, 1970). Weathered shale was encountered at approximately four to eight feet below grade during drilling activities at the site.

Section 5 - Field Sampling

Following a site visit completed in conjunction with the ESA, BB&L recommended to its client that a limited subsurface investigation be completed at the site. The recommendation was made on the following basis:

- The site currently has a 1,000 gallon underground storage tank (UST) for the storage of waste coolant. This UST was installed in 1990 and replaced an earlier 1,000 gallon UST installed in the early 1980s.
- An underground storage tank or tanks were present in the past elsewhere on the site.
- Degreasers as well as water-soluble coolants have been and are currently in use at the site.

Based on this recommendation, BB&L's client authorized the implementation of a Limited Field Sampling Program to generally characterize site conditions, with a concentration of activities in the current and former tank areas. The Limited Field Sampling Program involved the collection of subsurface soils, ground water, surface water, and sediments.

After review of the data generated during the Limited Field Sampling Program, additional sampling was recommended by BB&L in the vicinity of the current UST. This Additional Field Sampling Program involved the installation of six borings, four of which were completed as monitoring wells, and the collection of soil and ground-water samples. The work undertaken during completion of each phase of the Field Sampling Program is discussed separately below, while the analytical results are discussed together in Section 7.

5.1 Limited Field Sampling Program

During the Limited Field Sampling Program, the subsurface soil samples were collected at seven boring locations using Geoprobe sampling equipment. Originally, eight Geoprobe boring locations were planned, but due to soft ground at the MC-6 location, that location was not readily accessible, and the boring was not drilled. Ground-water samples were collected at five of the seven boring locations using a peristaltic pump. Surface-water and sediment samples were collected from two locations: the first where the storm water discharge enters the cooling pond, and the second from the intermittent stream that receives runoff from the site. Figure 2 shows the approximate sampling locations.

All field sampling equipment was decontaminated between sampling locations with an alconox and tap water rinse, a methanol rinse, and finally a distilled water rinse. New polyethylene tubing was used for each ground-water sample that was collected.

Subsurface soils were continuously sampled until bedrock was encountered or Geoprobe refusal, whichever came first, using a 2-inch (O.D.) diameter, 4-foot long Geoprobe sampler. The sampler was lined with a new acetate sleeve for each 4-foot interval. The soils were described by a BB&L geologist, according to the Burmister soil classification system of 1958. Soil samples were collected for chemical analysis based on

visual observations. Separate-soil samples were collected for headspace screening using a Century Organic Vapor Analyzer (OVA) Model 128 flame ionization detector (FID). The headspace results are presented on the soil boring logs in Appendix A. Due to field difficulties with the FID, it was not possible to perform the headspace analysis or field screening before analytical sample submission.

Ground-water samples were collected from the bottom of each Geoprobe soil boring that had sufficient water present. A mill-slotted screen (one-inch O.D.) was attached to the drive rods, which were re-driven to the full depth of the boring. High density polyethylene tubing was lowered into the rods, and the ground water was pumped out using a peristaltic pump.

Upon completion, the borehole was filled to grade using the remaining soils from the samples collected from that hole and bentonite chips.

The samples were submitted to General Testing of Rochester for analysis of volatile organic compounds (VOCs) using EPA Method 8010/8020 plus HCFC-141B and Freon-113, total petroleum hydrocarbons (TPH) by gas chromatography (GC), and polychlorinated biphenyls (PCBs) by EPA Method 8080. Freon 113 and HCFC-141B are not typically included with the suite of compounds analyzed under EPA Method 8010/8020. The analytical laboratory, however, had a standard for Freon 113, and BB&L provided a sample of the Genesolv 2000, HCFC-141B, to the laboratory. The laboratory was, therefore, able to calibrate their equipment to these compounds. Five ground-water samples were submitted for analysis of VOCs, and one of those samples (MC-7) was also submitted for TPH. Seven subsurface soil samples were analyzed for VOCs and TPH. Six of those samples were also analyzed for PCBs. The two sediment and surface-water samples were analyzed for VOCs, TPH, and PCBs. Complete analytical results are presented in Appendix B.

5.2 Additional Field Sampling Program

As previously discussed, an Additional Field Sampling Program was implemented following receipt and review of the data generated during the Limited Field Sampling Program. The Additional Field Work was focused primarily in the area around the existing waste coolant UST for two main reasons:

- The concentrations of VOCs observed in ground water in the area of the existing tank east of the site were several orders of magnitude higher than the concentrations observed in the area of the former USTs southwest of the facility.

- Moog Controls reportedly did not use the former USTs located to the southwest.

The Additional Field Sampling Program included the installation of monitoring wells and soil sampling, using the more traditional hollow-stem auger (HSA) sampling methods rather than Geoprobe sampling. The HSA methods were selected to allow for the installation of monitoring wells. The wells provide a ground-water sampling point and allow for a more accurate determination of ground-water levels at each of the monitoring points, which can then be used to determine ground-water gradients at the site.

Installation of the wells was accomplished with a CME-550 drill rig using a 4¼-inch ID HSA. Soil samples were obtained continuously from the ground surface to total depth with a standard 2-inch OD, 2-foot long split-spoon sampler. All down-hole tools were cleaned using a high pressure, hot water "steam cleaner" prior to use at each drilling locations and prior to departure from the site. The split-spoon sampler was cleaned, prior to obtaining each sample, with an alconox and tap water rinse, a methanol rinse, and a final distilled water rinse. Four 2-inch diameter PVC monitoring wells were installed at four of the six boring locations. The locations of the borings and monitoring wells are shown on Figure 2.

To facilitate horizontal extent characterization of VOCs observed in ground water at the site, monitoring wells MW-3 and MW-4 were installed first. Following their installation, the wells were purged and sampled, with the samples submitted for rapid turn-around analysis for VOCs by EPA Methods 8010/8020 plus Freon 113 and HCFC-141B. The results of this sampling would be used to determine the locations of additional wells to be installed downgradient of the tank area. If the concentrations of VOCs in water from these wells remained at or above level of concern, then an additional well or wells would be installed further downgradient. If, however, the concentrations, of VOCs were below the level of concern, additional investigations would be focused in the area between MW-3/MW-4 and the UST area.

While awaiting receipt of the analytical results for MW-3 and MW-4, the boring for MW-1 was completed. A monitoring well, however, was not installed at the MW-1 location, as water was apparently not encountered within the total depth of the boring. The augers were advanced to 10 feet below grade, or approximately 5 feet below the top of bedrock, at that location. The hole was left overnight with the augers in the hole, and by the next morning, no water had entered. Based on these observations, the bore hole was backfilled, and no well was installed. In an attempt to establish an upgradient monitoring point, boring MW-1A was installed approximately 100 feet north of MW-1, and again no water entered the augers during advancement of the boring. Based on this information and the apparent lack of water at the MW-1A location, this boring was also backfilled.

At the completion of boring MW-1A, a decision had not yet been made concerning the location of the additional well or well(s) downgradient of the UST area; therefore, MW-2 was installed as originally planned approximately 30 feet downgradient of the existing UST. During the installation of this monitoring well, the analytical results for MW-3 and MW-4 were received and reviewed. Based on the analytical results from these wells, which are discussed further in Section 7, below, an additional monitoring well was installed further downgradient of MW-4, since VOCs were observed in ground water from MW-4 at concentrations above New York State drinking water standards. VOCs were not detected in water from MW-3.

The logs for each of the borings and monitoring wells are included in Appendix A. During completion of the borings, soil samples were obtained for headspace screening with an FID, as was done during the Geoprobe sampling. The results of this screening and the visual appearance of the samples were used to select soil samples for chemical analysis. Results of the FID screening and the sample intervals selected for chemical analysis are shown on the subsurface logs in Appendix A. The following samples were submitted for analysis:

- MW-2, 4.0-7.0 ft for VOCs, semivolatile organic compounds (SVOCs) analysis, and TPH.

- MW-4, 4.0-7.0 ft for VOCs.

As with monitoring wells MW-3 and MW-4, ground water from monitoring wells MW-2 and MW-5 were purged and sampled for analysis of VOCs. Ground water from MW-2 was also analyzed for (SVOCs) by EPA Method 8270.

As part of the ground-water sampling program, depth to water in each of the monitoring wells was determined. Relative elevation of the ground water was then determined by referencing the depth to water measurements to relative ground-surface elevations which were determined at each well location using an automatic level. For this assessment, an arbitrary site datum of 100 feet was established. Ground-water elevation contours for the site, based on these measurements, are shown on Figure 4.

Following sampling of the monitoring wells, in-situ hydraulic conductivity testing was completed on monitoring wells MW-3 and MW-4. The results of these tests are provided in Appendix C.

Section 6 - Site Geology and Hydrogeology

Results of the Geoprobe investigation and boring and monitoring well installation program and subsequent data analysis indicate the following:

- The site is generally underlain by 4 to 8 feet of a relatively dense till that may have locally been reworked in the shallow subsurface during construction activities at the site.

- The till is underlain by a black to gray shale. The upper several feet of the shale appears to be weathered and less competent, providing a flow zone for ground water. The rock appears to become more competent with depth; however, our sampling program did not specifically evaluate the condition of the rock below the upper few feet.

- Ground-water levels are approximately 4 to 6 feet below grade, depending on location. Ground water was not encountered at the MW-1 location; however, ground water was encountered within 6 feet below grade at the MC-5 sampling location, approximately 5 to 10 feet away from boring MW-1. The lack of water at the MW-1 location may be the result of disturbance of the borehole wall caused during drilling of the borehole. Installation of a shallow well may be possible at this location given sufficient time for well development.

- The hydraulic conductivity of the interval screened at MW-3 and MW-4 is estimated to be 1.8×10^{-3} centimeters per second (cm/sec) and 4.4×10^{-3} cm/sec, respectively. Based on these data and the observed ground-water gradients at the site, ground-water flow velocities are estimated to be in the vicinity of 7 to 90 feet per year.

- Based on the ground-water elevations determined at the time of ground-water sampling, the ground-water flow direction at the site is generally to the north-northwest.

- Oily soils were observed at Geoprobe locations MC-1 and MC-2.

- Elevated FID readings from soil sample headspace screening were observed at MC-2, MW-2, MW-3, and MW-4. The highest soil headspace readings of 100 parts per million (ppm) were observed on weathered rock samples from MW-2 from 8 to 12 feet below grade. FID readings above 8 feet in soil samples from this boring decreased toward the ground surface.

Section 7 - Analytical Results and Discussion

The analytical results for the soil and ground-water analysis for both portions of the Field Sampling Program are included in Appendix B and are summarized in Tables 1 to 5. Table 6 provides an overall summary of all the analytical results, showing only the compounds that were detected. An overall general summary of the analytical results by location is provided in Figure 5.

Given these results and the geologic and hydrogeologic conditions found at the site as discussed above, a number of observations can be made as follows:

- VOCs, which are common degreasers or their breakdown products, are present in the subsurface at the site.

- The VOCs are present in ground water at concentrations ranging from single digit part per billion levels at the monitoring points north of the facility to approximately 16 parts per million total VOCs in the vicinity of the existing waste coolant UST. The existing UST was installed in 1990 and replaced another tank that had been installed in the early 1980s.

- A ground-water sample obtained from a Geoprobe borehole in an area generally upgradient of the existing tank contained no VOCs at or above the detection limit. This suggests that the VOCs observed in the vicinity of the tank have not originated from an upgradient, off-site source.

- The source area for the VOCs east and northeast of the facility, is assumed to be located within the vicinity of the existing waste coolant tank. The time of the release associated with the presence of VOCs in ground water and soil in this area is difficult to determine, however, several factors are known:

  - During removal of the older tank in 1990, soil staining was observed in the tank excavation.

  - HCFC-141B, also known by its trade name Genesolv 2000 or its chemical name dichlorofluoroethane, was not detected in any of the ground-water or soil samples analyzed at this site. HCFC-141B has been in use at the site only by Moog Controls.

- VOCs were also detected in the ground water from the area near the former Moog Inc. USTs at the southwestern corner of the facility. The concentration of VOCs at this location, however, were several orders of magnitude lower than the concentration of VOCs observed near the existing UST.

- Ground-water flow direction is generally to the north-northwest.

- The VOCs observed in ground water near the southwestern portion of the site are not thought to be related to the VOCs observed in the vicinity of the existing tanks to the east of the building for the following reasons:

  - Ground-water flow is generally to the north-northwest at this site; and

- The former tanks, fill lines, or access ports for these tanks are a possible source of the observed VOCs observed in this area.

- Ground-water samples from the northern, downgradient, area of the site either contain no detectable levels of solvents-based VOCs (MC-7 and MW-5) or only very low concentrations as in MC-8 with 1.1 ppb of 1-1, dichloroethane (DCA). Given these results, which are below NYSDEC Drinking Water Standards (Table 6), the impact to off-site areas from the shallow ground-water flow zone appears to be minimal, if any.

- Of the two surface-water and two sediment samples collected, there was only one detection: bromoform was detected at 4.3 micrograms per liter (ug/L) at SW-1. This low-level detection may represent laboratory cross-contamination.

- PCBs were not detected in any of the samples analyzed for these compounds and only low concentrations of two SVOCs were detected in one of the three samples analyzed. One of the two SVOCs, detected in ground water from MW-2, bis(2-Ethylhexyl) Phthalate can be attributed to possible laboratory contamination. The other compound 4-Chloro-3-methlyphenol may have been present in waste oil.

- A number of samples were analyzed for total petroleum hydrocarbons, however, TPH was detected only in the soil sample from MC-1 (4.0-7.0 feet) at a concentration of 71 parts per million, and in ground water from monitoring well MW-2 at a concentration of 790 parts per billion. The lack of reportable petroleum hydrocarbons in samples that appeared visibly oily, as was the case for the sample from MC-2, may only indicate that the analysis used was not sensitive to the particular type of oil present in the sample.

Section 8 - References

ASCS; 1938, 1942, 1951, 1958, 1966, 1978, 1985; Aerial Photographs of Erie county on file in the Erie County Agricultural Stabilization and Conservation Office.

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Rickard, L.V., and Fisher, D.W., editors, 1970, Geologic Map of New York, Niagara Sheet; New York State Museum and Science Service, Map and Chart Series No. 15.

USDA, 1986, Soil Survey of Erie County, New York, National Cooperative Soil Survey, United States Department of Agriculture, Soil Conservation Service.

USGS, 1965, U.S. Geological Survey 7.5 Minute Orchard Park Quadrangle Map (topographic), to a scale of 1:24,000.

Tables

TABLES

TABLE 1

MOOG CONTROLS INC./MOOG INC.
EAST AURORA, N.Y.
GROUND–WATER ANALYTICAL RESULTS
5/25/94

SAMPLE ID# CONCENTRATION	MC–2 (ug/L)	MC–3 (ug/L)	MC–5 (ug/L)	MC–7 (ug/L)	MC–8 (ug/L)
VOCs					
Chloromethane	250 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	250 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	110	1.0 U	1.0 U	1.0 U	1.0 U
1,1–Dichloroethene	50 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2–Dichloroethene (Total)	1600	1.0 U	1.0 U	1.0 U	1.0 U
1,1–Dichloroethane	1300	28.0	1.0 U	1.0 U	1.1
Chloroform	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1–Trichloroethane	2600	73.0	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2–Dichloroethane	50 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	3500	1.0 U	1.0 U	1.0 U	1.0 U
1,2–Dichloropropane	50 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50 U	1.0 U	1.0 U	1.0 U	1.0 U
2–Chloroethylvinyl Ether	100 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
1,3–Dichloropropene (Cis)	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3–Dichloropropene (Trans)	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2–Trichloroethane	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	3400	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2–Tetrachloroethane	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3–Dichlorobenzene	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4–Dichlorobenzene	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2–Dichlorobenzene	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Xylene (o,m,p)	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Dichlorofluoroethane	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Freon 113	3500	2.0	2.0 U	2.0 U	2.0 U
Total Volatiles	16010	103.0	0.0	0.0	1.1
TPH					
FUEL OIL #2	NA	NA	NA	20.0 U	NA

Notes:

Analytical results were not validated
U – not detected above method detection limit (MDL)
J – estimated
NA – not analyzed

TABLE 2

MOOG CONTROLS INC./MOOG INC.
EAST AURORA, N.Y.
SOIL ANALYTICAL RESULTS
5/25/94

SAMPLE ID#	MC-1	MC-2	MC-3	MC-4	MC-5	MC-7	MC-8	TRIP BLANK	FIELD BLANK
CONCENTRATION	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/L)	(ug/L)
DEPTH (FT)	4.0-7.0	4.0-5.5	4.0-5.5	4-6.5	4.0-8.0	3.0-4.0	5.0-7.0	--	--
VOCs									
Chloromethane	30U	5.8U	6.0U	6.1U	5.6U	5.9U	6.0U	5.0U	5.0U
Bromomethane	30U	5.8U	6.0U	6.1U	5.6U	5.9U	6.0U	5.0U	5.0U
Vinyl Chloride	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Chloroethane	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Methylene Chloride	6.0U	1.2U	1.2U	1.3 ✓	1.1U	1.2U	1.2U	1.0U	1.0U
Trichlorofluoromethane	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,1-Dichloroethene	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,1-Dichloroethane	6.0U	9.1 ✓	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,2-Dichloroethene (Total)	70	49 ✓	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
Chloroform	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,2-Dichloroethane	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,1,1-Trichloroethane	6.0U	4.5	1.2U	5.4 ✓	1.1U	1.2U	1.2U	1.0U	1.0U
Carbon Tetrachloride	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
Bromodichloromethane	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,2-Dichloropropane	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,3-Dichloropropene (Cis)	6.0U	1.2U	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
Trichloroethene	12	27 ✓	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
1,3-Dichloropropene (Trans)	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Dibromochloromethane	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
1,1,2-Trichloroethane	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
2-Chloroethylvinyl Ether	12UJ	2.3UJ	2.4UJ	2.4UJ	2.2UJ	2.4UJ	2.4UJ	2.0UJ	2.0UJ
Bromoform	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
1,1,2,2-Tetrachloroethane	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Tetrachloroethene	120	81 ✓	1.2U	1.2U	1.1U	1.2U	1.2U	1.0U	1.0U
Chlorobenzene	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
1,3-Dichlorobenzene (m)	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
1,2-Dichlorobenzene (o)	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
1,4-Dichlorobenzene (p)	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Benzene	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Toluene	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Ethylbenzene	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Total Xylene (o,m,p)	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Dichlorofluoroethane	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Freon 113	12U	2.3U	2.4U	2.4U	2.2U	2.4U	2.4U	2.0U	2.0U
Total Volatiles	82	180.6	0.00	6.70	0.00	0.00	0.00	0.00	0.00
TPH								NA	
FUEL OIL #2	71000								
as n-dodecane		2300U	2400U	2400U	2200U	2400U	2400U		20U
PCBs									
PCB_1016	300U	280U	300U	300U	280U	NA	300U	NA	NA
PCB_1221	300U	280U	300U	300U	280U	NA	300U	NA	NA
PCB_1232	300U	280U	300U	300U	280U	NA	300U	NA	NA
PCB_1242	300U	280U	300U	300U	280U	NA	300U	NA	NA
PCB_1248	300U	280U	300U	300U	280U	NA	300U	NA	NA
PCB_1254	300U	280U	300U	300U	280U	NA	300U	NA	NA
PCB_1260	300U	280U	300U	300U	280U	NA	300U	NA	NA

Notes:

Analytical results were not validated
U - not detected above method detection limit (MDL)
J - estimated
NA - not analyzed

TABLE 3

MOOG CONTROLS INC./MOOG INC.
EAST AURORA, N.Y.
SURFACE WATER/SEDIMENT ANALYTICAL RESULTS
May 1994

SAMPLE ID# / CONCENTRATION / COMPOUND	SW-1 (ug/L)	SW-2 (ug/L)	SED-1 (ug/kg)	SED-2 (ug/kg)
VOCs				
Chloromethane	5.0 U	5.0 U	6.3 U	9.3 U
Vinyl Chloride	2.0 U	2.0 U	2.5 U	3.7 U
Bromomethane	5.0 U	5.0 U	6.3 U	9.3 U
Chloroethane	2.0 U	2.0 U	2.5 U	3.7 U
Trichlorofluoromethane	1.0 U	1.0 U	1.3 U	1.9 U
1,1-Dichloroethene	1.0 U	1.0 U	1.3 U	1.9 U
Methylene Chloride	1.0 U	1.0 U	1.3 U	1.9 U
1,2-Dichloroethene (Total)	1.0 U	1.0 U	1.3 U	1.9 U
1,1-Dichloroethane	1.0 U	1.0 U	1.3 U	1.9 U
Chloroform	1.0 U	1.0 U	1.3 U	1.9 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.3 U	1.9 U
Carbon Tetrachloride	1.0 U	1.0 U	1.3 U	1.9 U
1,2-Dichloroethane	1.0 U	1.0 U	1.3 U	1.9 U
Trichloroethene	1.0 U	1.0 U	1.3 U	1.9 U
1,2-Dichloropropane	1.0 U	1.0 U	1.3 U	1.9 U
Bromodichloromethane	1.0 U	1.0 U	1.3 U	1.9 U
2-Chloroethylvinyl Ether	2.0 UJ	2.0 UJ	2.5 UJ	3.7 UJ
1,3-Dichloropropene (Cis)	1.0 U	1.0 U	1.3 U	1.9 U
1,3-Dichloropropene (Trans)	2.0 U	2.0 U	2.5 U	3.7 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.5 U	3.7 U
Tetrachloroethene	1.0 U	1.0 U	1.3 U	1.9 U
Dibromochloromethane	2.0 U	2.0 U	2.5 U	3.7 U
Chlorobenzene	2.0 U	2.0 U	2.5 U	3.7 U
Bromoform	4.3	2.0 U	2.5 U	3.7 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.5 U	3.7 U
1,3-Dichlorobenzene	2.0 U	2.0 U	2.5 U	3.7 U
1,4-Dichlorobenzene	2.0 U	2.0 U	2.5 U	3.7 U
1,2-Dichlorobenzene	2.0 U	2.0 U	2.5 U	3.7 U
Benzene	2.0 U	2.0 U	2.5 U	3.7 U
Toluene	2.0 U	2.0 U	2.5 U	3.7 U
Ethylbenzene	2.0 U	2.0 U	2.5 U	3.7 U
Total Xylene (o,m,p)	2.0 U	2.0 U	2.5 U	3.7 U
Dichlorofluoroethane	2.0 U	2.0 U	2.5 U	3.7 U
Freon 113	2.0 U	2.0 U	2.5 U	3.7 U
Total Volatiles	4.3	0.0	0.0	0.0
TPH				
FUEL OIL #2 as n-dodecane	20.0 U	20.0 U	2500.0 U	3700.0 U
PCBs				
PCB_1016	NA	NA	320.0 U	460.0 U
PCB_1221	NA	NA	320.0 U	460.0 U
PCB_1232	NA	NA	320.0 U	460.0 U
PCB_1242	NA	NA	320.0 U	460.0 U
PCB_1248	NA	NA	320.0 U	460.0 U
PCB_1254	NA	NA	320.0 U	460.0 U
PCB_1260	NA	NA	320.0 U	460.0 U

Notes:

Analytical results were not validated
U - not detected above method detection limit (MDL)
J - estimated
NA - not analyzed

TABLE 4

MOOG CONTROLS INC./MOOG INC.
EAST AURORA, N.Y.
GROUND-WATER ANALYTICAL RESULTS
JUNE 1994

SAMPLE ID#	MW-2	MW-3	MW-4	MW-5
CONCENTRATION	(ug/L)	(ug/L)	(ug/L)	(ug/L)
COMPOUND				
VOCs				
Chloromethane	250 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	100 U	5.0 U	5.0 U	2.0 U
Bromomethane	250 U	2.0 U	2.0 U	5.0 U
Chloroethane	100 U	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	91	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	50 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	50 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (Total)	1,900	1.0 U	59.0	1.0 U
1,1-Dichloroethane	4,300	1.0 U	2.0	1.0 U
Chloroform	50 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	4,700	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	50 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	50 U	1.0 U	1.0 U	1.0 U
Trichloroethene	980	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	50 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50 U	2.0 U	2.0 U	1.0 U
2-Chloroethylvinyl Ether	100 UJ	1.0 U	1.0 U	2.0 UJ
1,3-Dichloropropene (Cis)	50 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (Trans)	100 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	100 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	860	2.0 UJ	2.0 UJ	1.0 U
Dibromochloromethane	100 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	100 U	2.0 U	2.0 U	2.0 U
Bromoform	100 U	1.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	100 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	100 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	100 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	100 U	2.0 U	2.0 U	2.0 U
Benzene	100 U	2.0 U	2.0 U	2.0 U
Toluene	100 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	100 U	2.0 U	2.0 U	2.0 U
Total Xylene (o,m,p)	100 U	2.0 U	2.0 U	2.4
Dichlorofluoroethane	100 U	2.0 U	2.0 U	2.0 U
Freon 113	1,200	2.0 U	2.0 U	2.0 U
Total Volatiles	14031.0	0.0	61.0	2.4
TPH				
FUEL OIL #2	790.0	NA	NA	20.0 U
PCBs	NA	NA	NA	NA
SVOCs				
Pyridine	10.0 U	NA	NA	NA
N-Nitrosodimethylamine	5.0 U	NA	NA	NA
Aniline	5.0 U	NA	NA	NA
Phenol	10.0 U	NA	NA	NA
bis(-2-Chloroethyl) Ether	5.0 U	NA	NA	NA
2-Chlorophenol	10.0 U	NA	NA	NA
1,3-Dichlorobenzene	5.0 U	NA	NA	NA
1,4-Dichlorobenzene	5.0 U	NA	NA	NA
1,2-Dichlorobenzene	5.0 U	NA	NA	NA
Benzyl Alcohol	5.0 U	NA	NA	NA
2,2'-oxybis(1-Chloropropane)	5.0 U	NA	NA	NA
2-Methylphenol	10.0 U	NA	NA	NA
N-Nitroso-Di-n-propylamine	5.0 U	NA	NA	NA
Hexachloroethane	5.0 U	NA	NA	NA
4-Methylphenol	10.0 U	NA	NA	NA
Nitrobenzene	5.0 U	NA	NA	NA
Isophorone	5.0 U	NA	NA	NA
2-Nitrophenol	10.0 U	NA	NA	NA
Benzoic Acid	50.0 U	NA	NA	NA
2,4-Dimethylphenol	10.0 U	NA	NA	NA
bis(-2-Chloroethoxy) Methane	5.0 U	NA	NA	NA

TABLE 4

MOOG CONTROLS INC./MOOG INC.
EAST AURORA, N.Y.
GROUND-WATER ANALYTICAL RESULTS
JUNE 1994

SAMPLE ID# / CONCENTRATION / COMPOUND	MW-2 (ug/L)	MW-3 (ug/L)	MW-4 (ug/L)	MW-5 (ug/L)
SVOCs (Cont.)				
2,4-Dichlorophenol	10.0 U	NA	NA	NA
1,2,4-Trichlorobenzene	5.0 U	NA	NA	NA
Naphthalene	5.0 U	NA	NA	NA
4-Chloroaniline	5.0 U	NA	NA	NA
Hexachlorobutadiene	5.0 U	NA	NA	NA
2-Methylnaphthalene	5.0 U	NA	NA	NA
4-Chloro-3-methylphenol	13.0	NA	NA	NA
Hexachlorocyclopentadiene	5.0 U	NA	NA	NA
2,4,5-Trichlorophenol	10.0 U	NA	NA	NA
2,4,6-Trichlorophenol	10.0 U	NA	NA	NA
2-Chloronaphthalene	5.0 U	NA	NA	NA
2-Nitroaniline	5.0 U	NA	NA	NA
Dimethyl Phthalate	5.0 U	NA	NA	NA
Acenaphthylene	5.0 U	NA	NA	NA
3-Nitroaniline	5.0 U	NA	NA	NA
Acenaphthene	5.0 U	NA	NA	NA
2,4-Dinitrophenol	20.0 U	NA	NA	NA
Dibenzofuran	5.0 U	NA	NA	NA
4-Nitrophenol	20.0 U	NA	NA	NA
2,4-Dinitrotoluene	5.0 U	NA	NA	NA
2,6-Dinitrotoluene	5.0 U	NA	NA	NA
Diethylphthalate	5.0 U	NA	NA	NA
4-Chlorophenyl-phenylether	5.0 U	NA	NA	NA
Fluorene	5.0 U	NA	NA	NA
4-Nitroaniline	5.0 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	20.0 U	NA	NA	NA
1,2 Diphenylhydrazine	5.0 U	NA	NA	NA
N-Nitrosodiphenylamine	5.0 U	NA	NA	NA
4-Bromophenyl-phenylether	5.0 U	NA	NA	NA
Hexachlorobenzene	5.0 U	NA	NA	NA
Pentachlorophenol	20.0 U	NA	NA	NA
Phenanthrene	5.0 U	NA	NA	NA
Anthracene	5.0 U	NA	NA	NA
Carbazole	5.0 U	NA	NA	NA
Di-n-Butylphthalate	5.0 U	NA	NA	NA
Fluoranthene	5.0 U	NA	NA	NA
Benzidine	50.0 U	NA	NA	NA
Pyrene	5.0 U	NA	NA	NA
Butyl benzyl phthalate	5.0 U	NA	NA	NA
3,3'-Dichlorobenzidine	5.0 U	NA	NA	NA
Benzo(a)Anthracene	5.0 U	NA	NA	NA
bis(2-Ethylhexyl)Phthalate	16.0	NA	NA	NA
Chrysene	5.0 U	NA	NA	NA
Di-n-octyl phthalate	5.0 U	NA	NA	NA
Benzo(b)fluoranthene	5.0 U	NA	NA	NA
Benzo(k)fluoranthene	5.0 U	NA	NA	NA
Benzo(a)Pyrene	5.0 U	NA	NA	NA
Ideno(1,2,3-cd)Pyrene	5.0 U	NA	NA	NA
Dibenz(a,h)anthracene	5.0 U	NA	NA	NA
Benzo(g,h,i)Perylene	5.0 U	NA	NA	NA

Notes:

Analytical results were not validated.
U - Not detected above method detection limit (MDL).
J - Estimated.
NA - Not analyzed.
PCBs - Polychlorinated Biphenyls.
VOCs - Volatile Organic Compounds.
TPH - Total Petroleum Hydrocarbons.
SVOCs - Semivolatile Organic Compounds.

TABLE 5

MOOG CONTROLS INC./MOOG INC.
EAST AURORA, N.Y.
SOIL ANALYTICAL RESULTS
JUNE 1994

SAMPLE ID#	MW-2	MW-4
CONCENTRATION	ug/kg	ug/kg
DEPTH	4.0-7.0	8.0-10.0
VOCs		
Chloromethane	5.6 U	6.6 U
Bromomethane	5.6 U	6.6 U
Vinyl Chloride	2.2 U	2.7 U
Chloroethane	2.2 U	2.7 U
Methylene Chloride	1.1 U	1.3 U
Trichlorofluoromethane	1.1 U	1.3 U
1,1-Dichloroethene	1.1 U	1.3 U
1,1-Dichloroethane	1.1 U	1.3 U
1,2-Dichloroethene (Total)	1.1 U	1.3 U
Chloroform	1.1 U	1.3 U
1,2-Dichloroethane	1.1 U	1.3 U
1,1,1-Trichloroethane	1.1 U	1.3 U
Carbon Tetrachloride	1.1 U	1.3 U
Bromodichloromethane	1.1 U	1.3 U
1,2-Dichloropropane	1.1 U	1.3 U
1,3-Dichloropropene (Cis)	1.1 U	1.3 U
Trichloroethene	1.1 U	1.3 U
1,3-Dichloropropene (Trans)	2.2 U	2.7 U
Dibromochloromethane	2.2 U	2.7 U
1,1,2-Trichloroethane	2.2 U	2.7 U
2-Chloroethylvinyl Ether	2.2 UJ	2.7 UJ
Bromoform	2.2 U	2.7 U
1,1,2,2-Tetrachloroethane	2.2 U	2.7 U
Tetrachloroethene	1.1 U	1.3 U
Chlorobenzene	2.2 U	2.7 U
1,3-Dichlorobenzene	2.2 U	2.7 U
1,2-Dichlorobenzene	2.2 U	2.7 U
1,4-Dichlorobenzene	2.2 U	2.7 U
Benzene	2.2 U	2.7 U
Toluene	2.2 U	2.7 U
Ethylbenzene	2.2 U	2.7 U
Total Xylene (o,m,p)	2.2 U	2.7 U
Dichlorofluoroethane	2.2 U	2.7 U
Freon 113	2.2 U	2.7 U
Total Volatiles	0.00	0.00
TPH		
FUEL OIL #2		
as n-dodecane	2,200 U	NA
PCBs	NA	NA
SVOCs		
Pyridine	740 U	NA
N-Nitrosodimethylamine	370 U	NA
Aniline	370 U	NA
Phenol	740 U	NA
bis(-2-Chloroethyl) Ether	370 U	NA
2-Chlorophenol	740 U	NA
1,3-Dichlorobenzene	370 U	NA
1,4-Dichlorobenzene	370 U	NA
1,2-Dichlorobenzene	370 U	NA
Benzyl Alcohol	370 U	NA
2,2'-oxybis(1-Chloropropane)	370 U	NA
2-Methylphenol	740 U	NA
N-Nitroso-Di-n-propylamine	370 U	NA
Hexachloroethane	370 U	NA
4-Methylphenol	740 U	NA
Nitrobenzene	370 U	NA
Isophorone	370 U	NA
	370 U	NA

TABLE 5

MOOG CONTROLS INC./MOOG INC.
EAST AURORA, N.Y.
SOIL ANALYTICAL RESULTS
JUNE 1994

SAMPLE ID#	MW-2	MW-4
CONCENTRATION	ug/kg	ug/kg
DEPTH	4.0-7.0	8.0-10.0
SVOCs (Cont.)		
2-Nitrophenol	740 U	NA
Benzoic Acid	3700 U	NA
2,4-Dimethylphenol	740 U	NA
bis(-2-Chloroethoxy) Methane	370 U	NA
2,4-Dichlorophenol	740 U	NA
1,2,4-Trichlorobenzene	370 U	NA
Naphthalene	370 U	NA
4-Chloroaniline	370 U	NA
Hexachlorobutadiene	370 U	NA
2-Methylnaphthalene	370 U	NA
4-Chloro-3-methylphenol	740 U	NA
Hexachlorocyclopentadiene	370 U	NA
2,4,5-Trichlorophenol	740 U	NA
2,4,6-Trichlorophenol	740 U	NA
2-Chloronaphthalene	370 U	NA
2-Nitroaniline	370 U	NA
Dimethyl Phthalate	370 U	NA
Acenaphthylene	370 U	NA
3-Nitroaniline	370 U	NA
Acenaphthene	370 U	NA
2,4-Dinitrophenol	1500 U	NA
Dibenzofuran	370 U	NA
4-Nitrophenol	1500 U	NA
2,4-Dinitrotoluene	370 U	NA
2,6-Dinitrotoluene	370 U	NA
Diethylphthalate	370 U	NA
4-Chlorophenyl-phenylether	370 U	NA
Fluorene	370 U	NA
4-Nitroaniline	370 U	NA
4,6-Dinitro-2-methlyphenol	1500 U	NA
1,2 Diphenylhydrazine	370 U	NA
N-Nitrosodiphenylamine	370 U	NA
4-Bromophenyl-phenylether	370 U	NA
Hexachlorobenzene	370 U	NA
Pentachlorophenol	1500 U	NA
Phenanthrene	370 U	NA
Anthracene	370 U	NA
Carbazole	370 U	NA
Di-n-Butylphthalate	370 U	NA
Fluoranthene	370 U	NA
Benzidine	3700 U	NA
Pyrene	370 U	NA
Butyl benzyl phthalate	370 U	NA
3,3'-Dichlorobenzidine	370 U	NA
Benzo(a)Anthracene	370 U	NA
bis(2-Ethylhexyl)phthalate	370 U	NA
Chrysene	370 U	NA
Di-n-octyl phthalate	370 U	NA
Benzo(b)fluoranthene	370 U	NA
Benzo(k)fluoranthene	370 U	NA
Benzo(a)Pyrene	370 U	NA
Ideno(1,2,3-cd)Pyrene	370 U	NA
Dibenz(a,h)anthracene	370 U	NA
Benzo(g,h,i)Perylene	370 U	NA

Notes:

Analytical results were not validated.
U - Not detected above method detection limit (MDL).
J - Estimated.
NA - Not analyzed.
VOCs - Volatile Organic Compounds.
TPH - Total Petroleum Hydrocarbons.
SVOCs - Semivolatile Organic Compounds.
PCBs - Polychlorinated Biphenyls.

TABLE 6

MOOG CONTROLS INC.
EAST AURORA, N.Y.
SUMMARY OF ANALYTICAL RESULTS*

Compounds	1,2 DCE	1,1 DCA	1,1,1 TCA	TCE	PCE	Freon 11	Freon 113	Xylene	4Cl3Me	2EPh
Ground Water										
MC-2	1600	1300	2600	3500	3400	110	3500			
MC-3		28	73				2			
MC-5										
MC-7										
MC-8		1.1								
MW-2	1900	4300	4700	980	860	91	1200		13	18
MW-3										
MW-4	59	2								
MW-5								2.4		
Drinking Water Standards	5	5	5	5	5	5	5	5	NA	NA

Compounds		1,2 DCE	1,1 DCA	1,1,1 TCA	TCE	PCE	MeCl	TPH
Soil	Depth	300	200	800	700	1400	100	
MC-1	(4'-7')	70			12	120		71000
MC-2	(4'-6.5')	49	8.1	4.5	27	91		
MC-3	(4'-6')							
MC-4	(4'-6.5')			5.4			1.3	
MC-5	(4'-6')							
MC-7	(3'-4')							
MC-8	(5'-7')							
MW-2	(4'-7')							
MW-4	(8'-10')							

Compounds	Brfm
Sediment	
SED-1	
SED-2	
Surface Water	
SW-1	4.3
SW-2	

Notes:

Analytical results were not validated.
Groundwater, surface water and drinking water standard concentrations are expressed in ug/L.
Soil and sediment concentrations are expressed in ug/kg.
* Only the compounds that were detected are shown.

References:

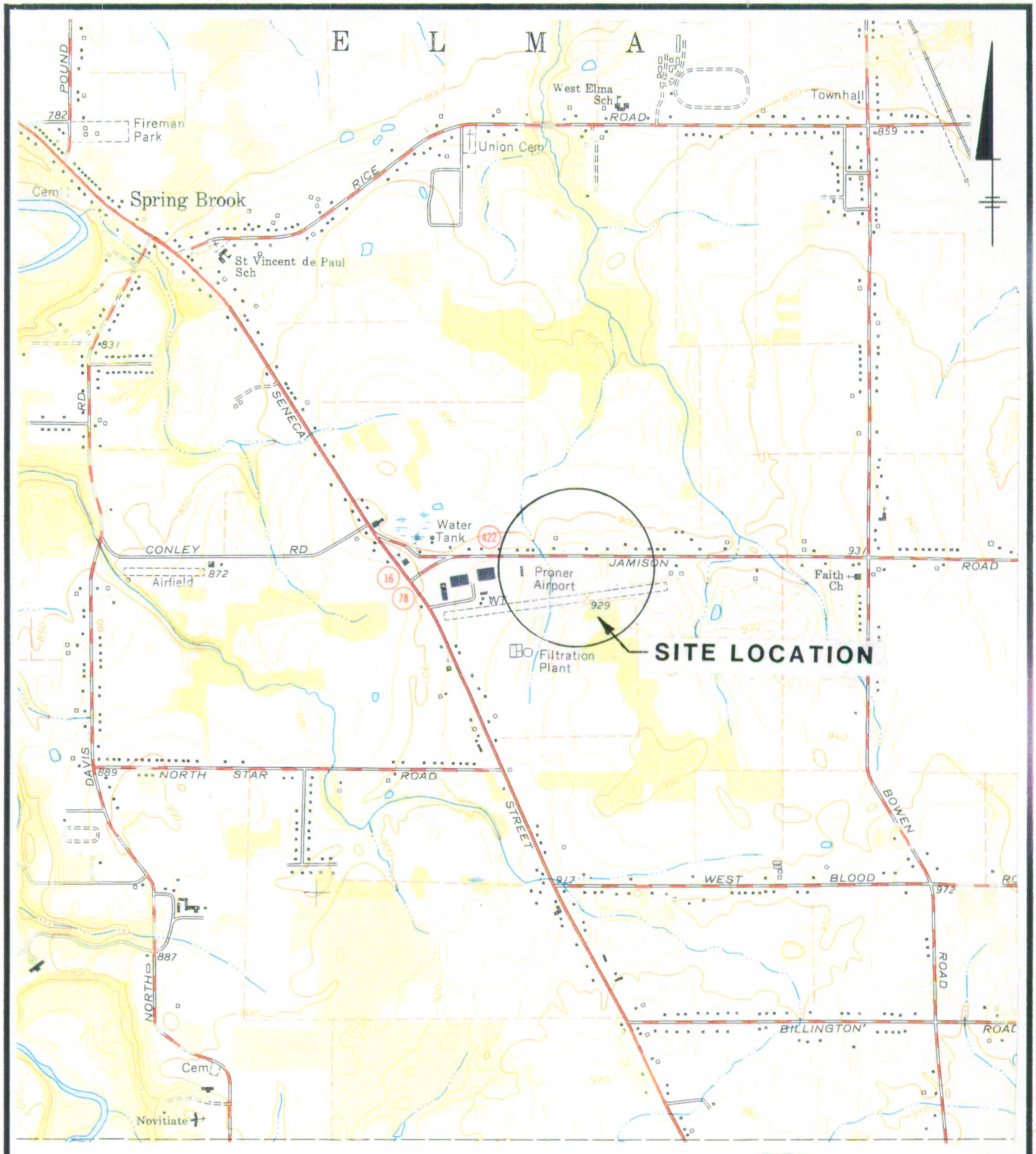
Drinking water standards: NYSDEC Technical and Operational Guidance Series 1.1.1 for class GA groundwater.

Key:

1,2 DCE = 1,2 Dichloroethene
1,1 DCA = 1,1 Dichloroethane
1,1,1 TCA = 1,1,1 Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
Freon 11 = Trichlorofluoromethane
Freon 113 = 1,1,2-Trichloro-1,2,2 Trifluorpethane
4Cl3Me = 4-Chloro-3-methylphenol
2EPh = bis(2-Ethylhexyl)Phthalate
MeCl = Methylene Chloride
TPH = Fuel Oil #2
Brfm = Bromoform

Figures

FIGURES



NOTE : BASE MAP PREPARED FROM ORCHARD PARK USGS 7.5 MIN. QUADRANGLE, DATED 1965, @ 1" = 2000'.

QUADRANGLE LOCATION

SCALE

2000' 1000' 0' 2000'

1 inch = 2000 ft.

OPTIONAL L: OR X:
5/13/94- DIV 54- RCB
3071580

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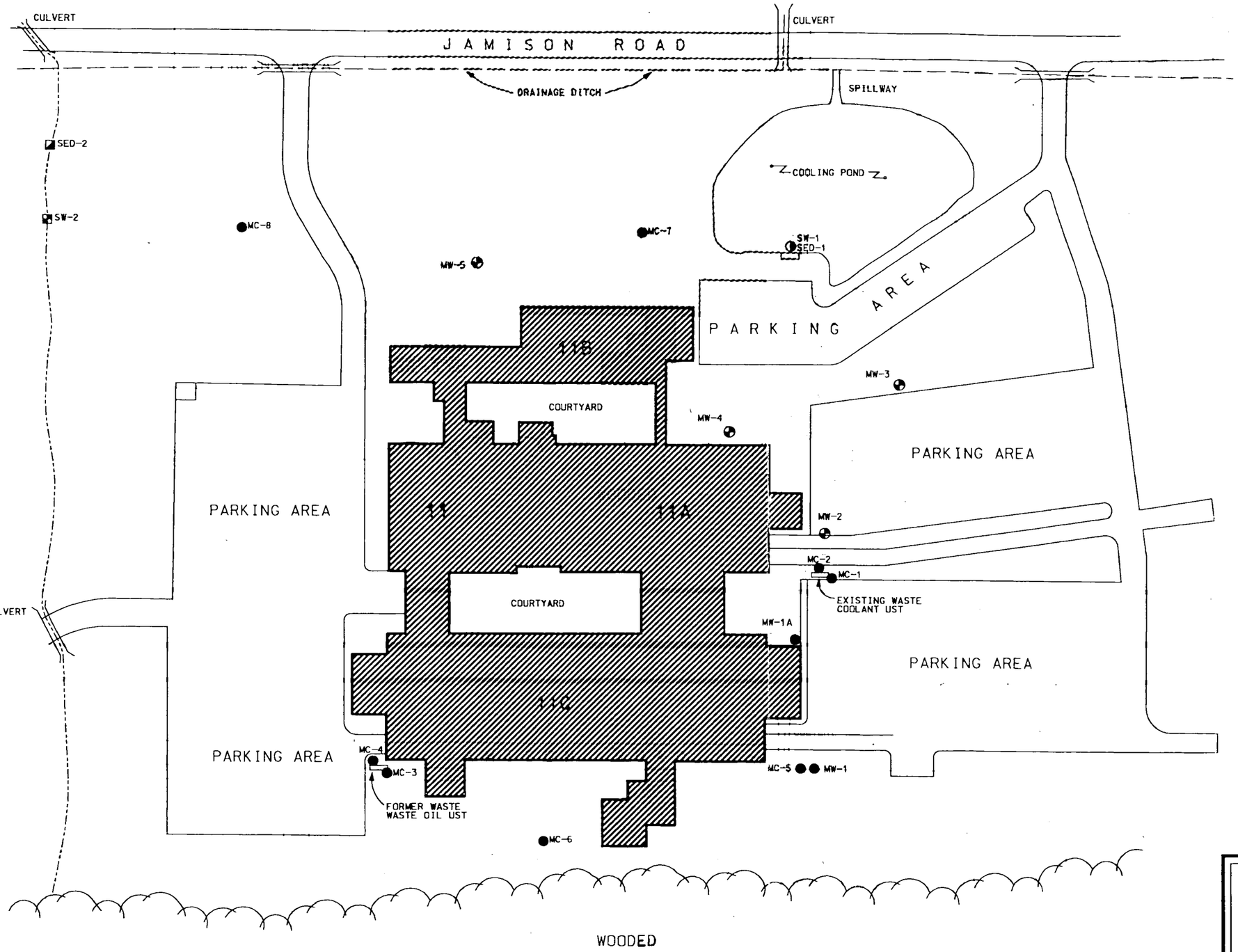
ENGINEERS & SCIENTISTS

MOOG CONTROLS INC./ MOOG INC.
300 JAMISON ROAD
EAST AURORA, N.Y.

LOCATION MAP

FIGURE 1



LEGEND

MW-3	MONITORING WELL
MC-1	GEOPROBE BORING
SED-2	SURFACE WATER SAMPLE
SW-2	SEDIMENT SOIL SAMPLE
SW-1 / SED-1	SURFACE WATER & SEDIMENT SOIL SAMPLE
----------	INTERMITTENT STREAM

NOTES:

1. BASE MAP DIGITIZED FROM PHOTOCOPY SUPPLIED BY MOOG INC. ON MAY 9, 1994, AT AN APPROXIMATE SCALE OF 1 in. = 120 ft. SUBSEQUENTLY ENLARGED TO AN APPROXIMATE SCALE OF 1 in. = 100 ft.
2. THE LOCATION OF FEATURES SUCH AS BORINGS, SAMPLES, AND UNDERGROUND STORAGE TANKS (USTs) ARE APPROXIMATE ONLY, AND BASED ON FIELD OBSERVATIONS.

SCALE:

100' 50' 0' 100'

Approx. scale 1 inch = 100 ft.

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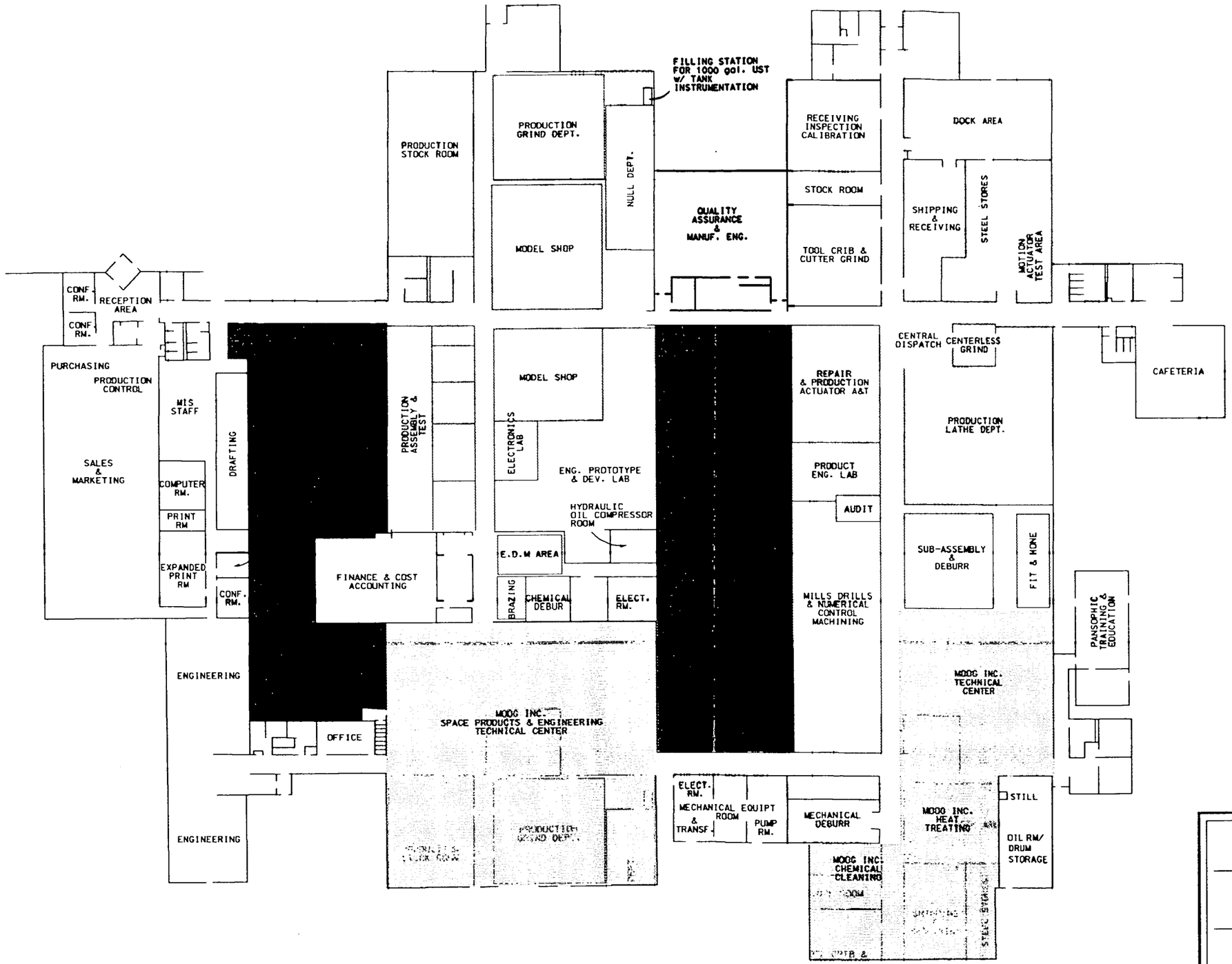
MOOG CONTROLS INC./ MOOG INC.
300 JAMISON ROAD
EAST AURORA, N.Y.

SITE MAP

FIGURE 2

LEVELS 1-29,40 ON *.OFF
6/94 Div 54 - NLH/RCB
f:/projects.dgn/wlp/3071501/30715bm1.dgn



NOTES:

1. FLOOR PLAN DIGITIZED FROM PHOTOCOPY SUPPLIED BY MOOG CONTROLS ON MAY 9, 1994. LATEST REVISION JULY 16,1993. AT AN APPROXIMATE SCALE OF 1 in. = 45 ft.
2. FLOOR PLAN FOR MAIN FLOOR. BASEMENT AREA NOT SHOWN.

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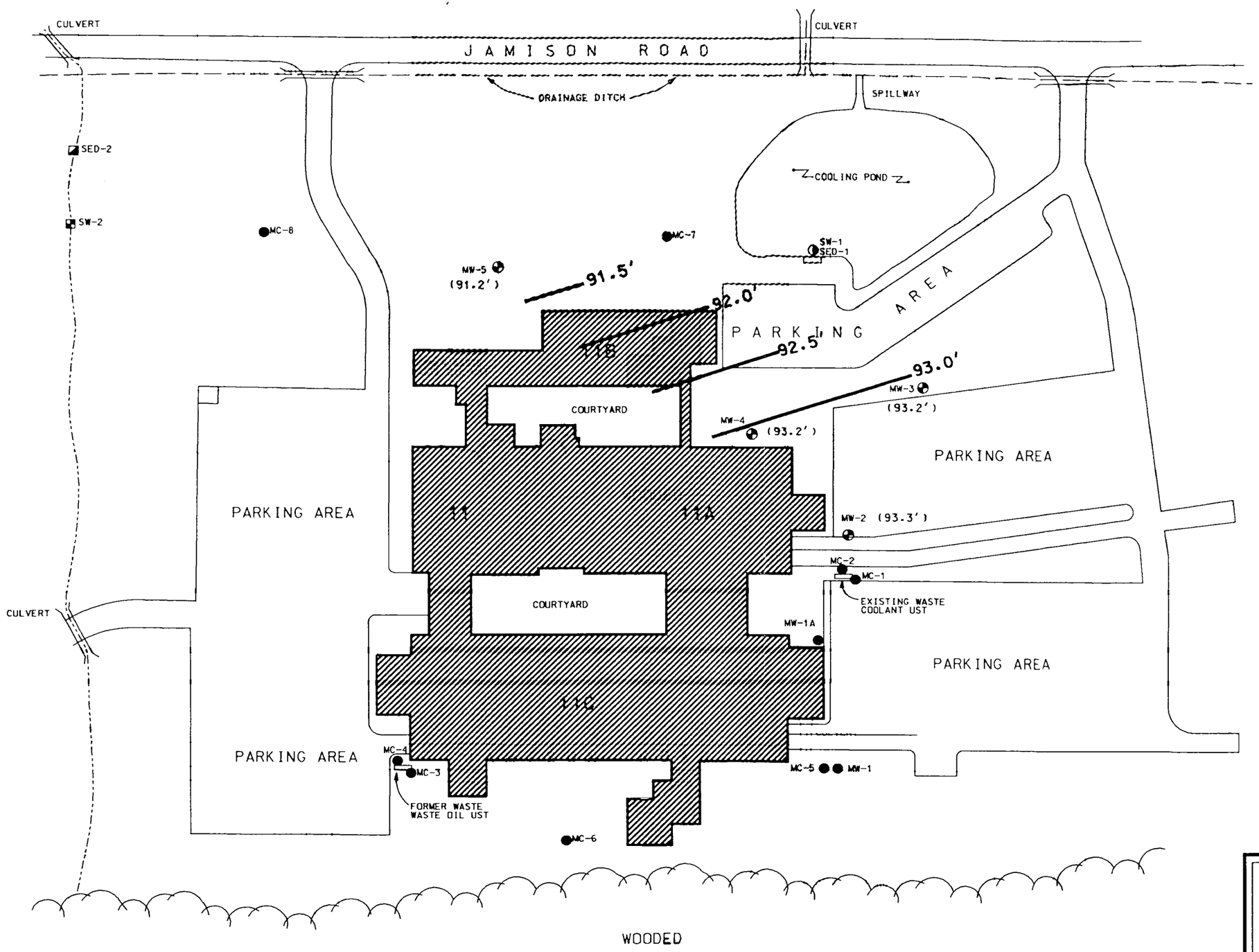
300 JAMISON ROAD
EAST AURORA, N.Y.

PLANT II COMPLEX FLOOR PLAN

FIGURE 3

5/94 DIV54 - NLH
F:/PROJECTS.DGN/WP/30715BLD.DGN



LEGEND

MW-3	MONITORING WELL
MC-1	GEOPROBE BORING
SED-2	SURFACE WATER SAMPLE
SW-2	SEDIMENT SOIL SAMPLE
SW-1 SED-1	SURFACE WATER & SEDIMENT SOIL SAMPLE
	INTERMITTENT STREAM
(93.2')	GROUND-WATER ELEVATION
93.0'	GROUND-WATER ELEVATION CONTOUR LINE

NOTES:

1. BASE MAP DIGITIZED FROM PHOTOCOPY SUPPLIED BY MOOG INC. ON MAY 9, 1994, AT AN APPROXIMATE SCALE OF 1 in. = 120 ft. SUBSEQUENTLY ENLARGED TO AN APPROXIMATE SCALE OF 1 in. = 100 ft.
2. THE LOCATION OF FEATURES SUCH AS BORINGS, SAMPLES, AND UNDERGROUND STORAGE TANKS (USTs) ARE APPROXIMATE ONLY, AND BASED ON FIELD OBSERVATIONS.
3. GROUND-WATER ELEVATIONS ARE REFERENCED TO AN ASSUMED SITE DATUM.

SCALE:

100' 50' 0' 100'

Approx. scale 1 inch = 100 ft.

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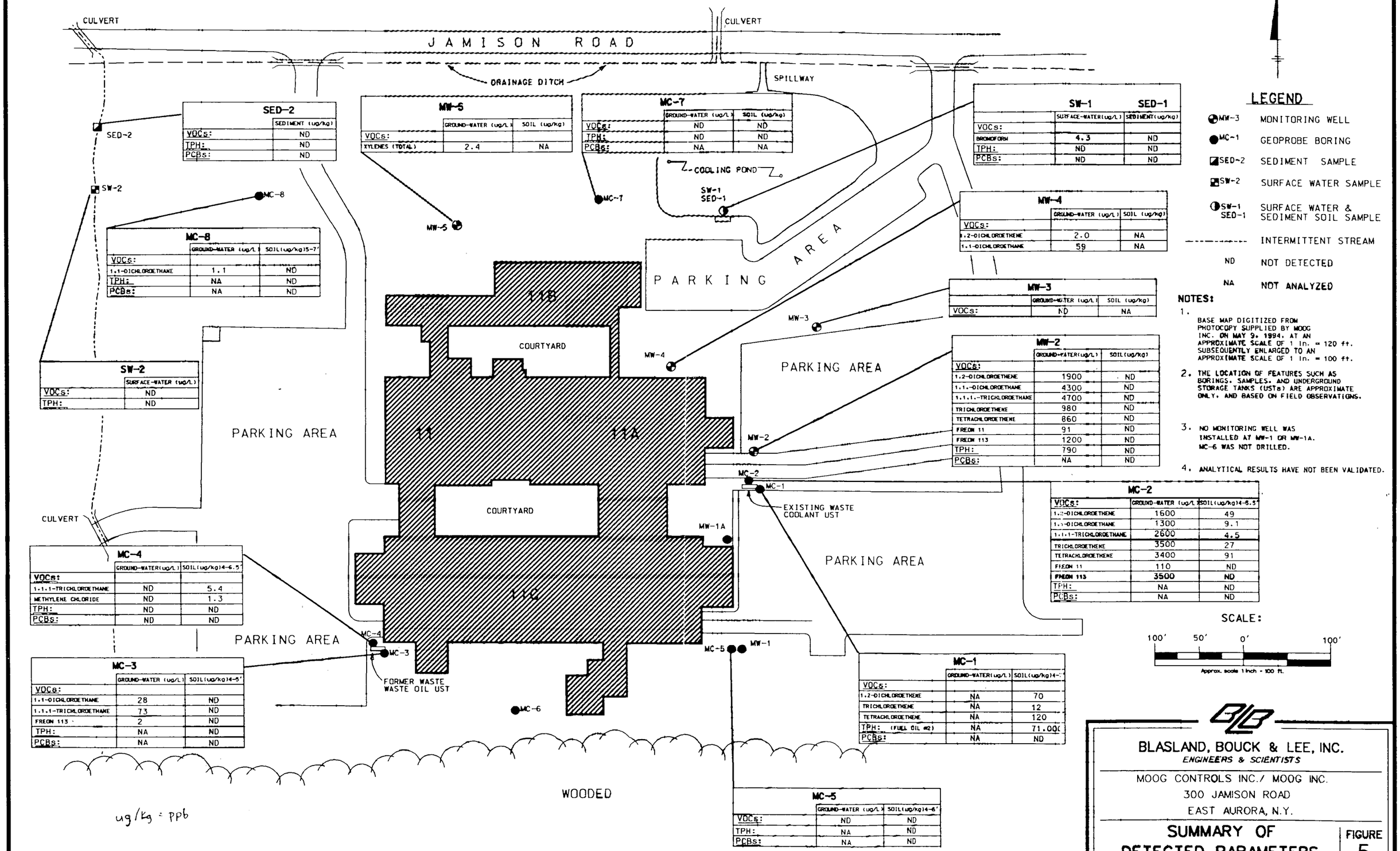
MOOG CONTROLS INC./ MOOG INC.
300 JAMISON ROAD
EAST AURORA, N.Y.

GROUND-WATER ELEVATION CONTOURS, JUNE 2 & 3, 1994

FIGURE 4

LEVELS 1-29,40,42 ON 26 +.OFF
6/94 Div 54 - RCB
f:/projects.dgn/wip/3071501/30715GWELDGN



SED-2	SEDIMENT (ug/kg)
VOCs:	ND
TPH:	ND
PCBs:	ND

MW-5	GROUND-WATER (ug/L)	SOIL (ug/kg)
VOCs:		
XYLENES (TOTAL)	2.4	NA

MC-7	GROUND-WATER (ug/L)	SOIL (ug/kg)
VOCs:	ND	ND
TPH:	ND	ND
PCBs:	NA	NA

	SW-1	SED-1
	SURFACE-WATER(ug/L)	SEDIMENT(ug/kg)
VOCs:		
BROMOFORM	4.3	ND
TPH:	ND	ND
PCBs:	ND	ND

MC-8	GROUND-WATER (ug/L)	SOIL(ug/kg)5-7'
VOCs:		
1,1-DICHLOROETHANE	1.1	ND
TPH:	NA	ND
PCBs:	NA	ND

MW-4	GROUND-WATER (ug/L)	SOIL (ug/kg)
VOCs:		
1,2-DICHLOROETHENE	2.0	NA
1,1-DICHLOROETHANE	59	NA

SW-2	SURFACE-WATER (ug/L)
VOCs:	ND
TPH:	ND

MW-3	GROUND-WATER (ug/L)	SOIL (ug/kg)
VOCs:	ND	NA

MW-2	GROUND-WATER(ug/L)	SOIL(ug/kg)
VOCs:		
1,2-DICHLOROETHENE	1900	ND
1,1-DICHLOROETHANE	4300	ND
1,1,1-TRICHLOROETHANE	4700	ND
TRICHLOROETHENE	980	ND
TETRACHLOROETHENE	860	ND
FREON 11	91	ND
FREON 113	1200	ND
TPH:	790	ND
PCBs:	NA	ND

MC-2	GROUND-WATER (ug/L)	SOIL(ug/kg)4-6.5'
VOCs:		
1,2-DICHLOROETHENE	1600	49
1,1-DICHLOROETHANE	1300	9.1
1,1,1-TRICHLOROETHANE	2600	4.5
TRICHLOROETHENE	3500	27
TETRACHLOROETHENE	3400	91
FREON 11	110	ND
FREON 113	3500	ND
TPH:	NA	ND
PCBs:	NA	ND

MC-4	GROUND-WATER(ug/L)	SOIL(ug/kg)4-6.5'
VOCs:		
1,1,1-TRICHLOROETHANE	ND	5.4
METHYLENE CHLORIDE	ND	1.3
TPH:	ND	ND
PCBs:	ND	ND

MC-3	GROUND-WATER (ug/L)	SOIL(ug/kg)4-5'
VOCs:		
1,1-DICHLOROETHANE	28	ND
1,1,1-TRICHLOROETHANE	73	ND
FREON 113	2	ND
TPH:	NA	ND
PCBs:	NA	ND

MC-1	GROUND-WATER(ug/L)	SOIL(ug/kg)4-7'
VOCs:		
1,2-DICHLOROETHENE	NA	70
TRICHLOROETHENE	NA	12
TETRACHLOROETHENE	NA	120
TPH: (FUEL OIL #2)	NA	71,000
PCBs:	NA	ND

MC-5	GROUND-WATER (ug/L)	SOIL(ug/kg)4-6'
VOCs:	ND	ND
TPH:	NA	ND
PCBs:	NA	ND

LEGEND

- MW-3 — MONITORING WELL
- MC-1 — GEOPROBE BORING
- SED-2 — SEDIMENT SAMPLE
- SW-2 — SURFACE WATER SAMPLE
- SW-1 / SED-1 — SURFACE WATER & SEDIMENT SOIL SAMPLE
- ---------- — INTERMITTENT STREAM
- ND — NOT DETECTED
- NA — NOT ANALYZED

NOTES:

1. BASE MAP DIGITIZED FROM PHOTOCOPY SUPPLIED BY MOOG INC. ON MAY 9, 1994, AT AN APPROXIMATE SCALE OF 1 in. = 120 ft. SUBSEQUENTLY ENLARGED TO AN APPROXIMATE SCALE OF 1 in. = 100 ft.
2. THE LOCATION OF FEATURES SUCH AS BORINGS, SAMPLES, AND UNDERGROUND STORAGE TANKS (USTs) ARE APPROXIMATE ONLY, AND BASED ON FIELD OBSERVATIONS.
3. NO MONITORING WELL WAS INSTALLED AT MW-1 OR MW-1A. MC-6 WAS NOT DRILLED.
4. ANALYTICAL RESULTS HAVE NOT BEEN VALIDATED.

SCALE:

100' 50' 0' 100'

Approx. scale 1 inch = 100 ft.

ug/kg = ppb

BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

MOOG CONTROLS INC./ MOOG INC.
300 JAMISON ROAD
EAST AURORA, N.Y.

SUMMARY OF DETECTED PARAMETERS

FIGURE 5

6/94 54 - NLH,RCB,PGL
M:/projects.dgn/wlb/3071501/30715bm2.dgn

Appendices

APPENDICES

A Subsurface Logs

B Analytical Data

C In-situ Hydraulic Conductivity Test Results

APPENDIX A

Subsurface Logs

Date Start/Finish: 05/18/94 – 05/18/94 **Drilling Company:** Nittany Geoscience, Inc. **Driller's Name:** Steve Keller **Drilling Method:** Geoprobe **Bit Size:** N/A-in. **Auger Size :** N/A-in. **Rig Type:** Van-mounted **Spoon Size:** 2-in. **Hammer Weight:** N/A-lb **Height of Fall:** N/A-in.	**Northing:** N/A **Easting:** N/A **Borehole Depth:** 8 ft. **Ground Surface Elev.:** 925 ft. **Geologist:** Lynette B. Mokry	**Boring No.** MC-1 **Site:** Moog Controls, Inc. East Aurora, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
gs elevation 925 ft											
	925									GROUND SURFACE	
		(0-4')		N/A	N/A	3.0	4.0 10 3.0			*TOPSOIL* from 0-3" *FILL* Brown Clayey SILT, stiff, dry. Brown and/or tan Clayey SILT, trace medium to fine Gravel (shale and slag), occaisional black staining.	Filled boring with cuttings and bentonite chips
5	920	(4-8')*		N/A	N/A	2.3	1.5 2.5			*WEATHERED SHALE* Tan Clayey SILT, little medium to fine Gravel (shale), wet, stiff. Strong organic odor from 3 to 8 ft. Occaisional black staining from 1.5 to 8 ft.	
10	915									*SHALE* Refusal, black SHALE bedrock, wet to saturated, dense. End of Boring @ 8.0 ft. bgs	
15	910									Notes: * *Analytical soil sample collected from 4.0 to 7.0 ft. bgs.* *Not enough water in hole to collect ground-water sample.* *Grade elevation is approximate.* *Geoprobe location immediately south of existing UST location and east of Plant Building IIA*	

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Remarks:
Soil descriptions after Burmister, 1958.
bgs – below ground surface.
N/A – not applicable.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 05/16/94 – 05/16/94
Drilling Company: Nittany Geoscience, Inc.
Driller's Name: Steve Keller
Drilling Method: Geoprobe
Bit Size: N/A-in. Auger Size: N/A-in.
Rig Type: Van-mounted
Spoon Size: 2-in.
Hammer Weight: N/A-lb
Height of Fall: N/A-in.

Northing: N/A
Easting: N/A
Borehole Depth: 5.5 ft.
Ground Surface Elev.: 925 ft.

Geologist: Lynette B. Mokry

Boring No. MC-2
Site:

Moog Controls, Inc.
East Aurora, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
gs elevation 925 ft											
	925									GROUND SURFACE	
										TOPSOIL from 0–3"	
							3.2			*FILL* Tan with black-stained Clayey SILT, moist, stiff.	Filled boring with cuttings and bentonite chips
		(0–4')		N/A	N/A	3.5	10				
										WEATHERED SHALE Tan Clayey SILT, little medium to fine Gravel (shale), wet, stiff.	
5	920	(4–5.5')*		N/A	N/A	1.5				Strong organic odor from 3 to 5.5 ft.	
										SHALE Refusal, *SHALE* bedrock, saturated, dense.	
										End of Boring @ 5.5 ft. bgs	
10	915									Notes: * *Analytical soil sample collected from 4.0 to 5.5 ft. bgs.* *Ground-water sample collected using peristaltic pump at approximately 5.3 ft. bgs.* *Grade elevation is approximate.* *Geoprobe location immediately north of existing UST location and east of Plant Building IIA*	
15	910										

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ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs – below ground surface.
N/A – not applicable.

Saturated Zones

Date / Time	Elevation	Depth

Project: 307.15
Script: DAN-bore
Date: 06/23/94

Date Start/Finish: 05/16/94 – 05/16/94 **Drilling Company:** Nittany Geoscience, Inc. **Driller's Name:** Steve Keller **Drilling Method:** Geoprobe **Bit Size:** N/A-in. **Auger Size :** N/A-in. **Rig Type:** Van-mounted **Spoon Size:** 2-in. **Hammer Weight:** N/A-lb **Height of Fall:** N/A-in.	**Northing:** N/A **Easting:** N/A **Borehole Depth:** 5.5 ft. **Ground Surface Elev.:** 925 ft. **Geologist:** Lynette B. Mokry	**Boring No.** MC-3 **Site:** Moog Controls, Inc. East Aurora, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 in.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
gs elevation 925 ft											
	925									GROUND SURFACE	
		(0-2')		N/A	N/A	1.0	1.0			*TOPSOIL* from 0-4" Brown fine SAND, little Silt, roots, moist. *FILL* Tan coarse to fine SAND, some medium to fine Gravel, dry.	Filled boring with cuttings and bentonite chips
		(2-5.5')*		N/A	N/A	1.3				Orange-brown fine SAND, little Silt, dry to moist. Becomes wet at approximately 3.5 ft.	
5	920						3.5				
										SHALE Refusal, *SHALE* bedrock, saturated. End of Boring @ 5.5 ft. bgs	
10	915										
15	910										

Notes:
** Analytical soil sample collected from 4.0 to 5.0 ft. bgs.*
Ground-water sample collected using peristaltic pump from approximately 5.3 ft. bgs.
Grade elevation is approximate.
Geoprobe location immediately south of former UST location in southwest corner of Plant Building IIC

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ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs – below ground surface.
N/A – not applicable.

Saturated Zones

Date / Time	Elevation	Depth

Project: 307.15
Script: DAN-bore
Date: 08/23/94

Date Start/Finish: 05/18/94 - 05/18/94
Drilling Company: Nittany Geoscience, Inc.
Driller's Name: Steve Keller
Drilling Method: Geoprobe
Bit Size: N/A-in. Auger Size: N/A-in.
Rig Type: Van-mounted
Spoon Size: 2-in.
Hammer Weight: N/A-lb
Height of Fall: N/A-in.

Northing: N/A
Easting: N/A
Borehole Depth: 8.5 ft.
Ground Surface Elev.: 925 ft.

Geologist: Lynette B. Mokry

Boring No. MC-4
Site:

Moog Controls, Inc.
East Aurora, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
gs elevation 925 ft.											
	925									GROUND SURFACE	
		(0-4')		N/A	N/A	3.5	N/A			*TOPSOIL* from 0-3" Brown medium to fine (+) SAND, little Clayey Silt, moist to dry.	Filled boring with cuttings and bentonite chips
5	920	(4-8.5')*		N/A	N/A	2.0	N/A			Gray and orange-brown mottled CLAY & SILT, dry, firm. Orange-brown fine SAND, little (+) Clayey Silt, wet. Slight organic odor from 3-8.5 ft.	
										SHALE Refusal, *SHALE* bedrock, dense. End of Boring @ 8.5 ft. bgs	
10	915										
15	910										

Notes:
* *Analytical soil sample collected from 4.0 to 8.5 ft. bgs.*
Grade elevation is approximate.
Geoprobe location immediately north of former UST location in southwest corner of Plant Building 11C

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Remarks:
Soil descriptions after Burmister, 1958.
bgs - below ground surface.
N/A - not applicable.

Saturated Zones		
Date / Time	Elevation	Depth

Project: 3071.5
Script: DAN-bore
Date: 08/23/94

Date Start/Finish: 05/17/94 - 05/17/94 Drilling Company: Nittany Geoscience, Inc. Driller's Name: Steve Keller Drilling Method: Geoprobe Bit Size: N/A-in. Auger Size: N/A-in. Rig Type: Van-mounted Spoon Size: 2-in. Hammer Weight: N/A-lb Height of Fall: N/A-in.	Northing: N/A Easting: N/A Borehole Depth: 7.5 ft. Ground Surface Elev.: 925 ft. Geologist: Lynette B. Mokry	Boring No. MC-5 Site: Moog Controls, Inc. East Aurora, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
gs elevation 925 ft											
	925									GROUND SURFACE	
							0.8			Tan and/or brown fine SAND, little Clayey Silt, moist to wet.	Filled boring with cuttings and bentonite chips
		(0-4')		N/A	N/A	3.4	0.7			*TILL* Tan fine SAND, some Clayey Silt, some medium to fine Gravel (Shale fragments), dry. Tan fine SAND, some (+) medium Gravel (Shale fragments), little Clayey Silt, wet.	
5	920	(4-7.5')*		N/A	N/A	2.8	0.3				
							0.2			*SHALE* SHALE bedrock, saturated to wet. Refusal @ 7.5 ft. End of Boring @ 7.5 ft. bgs	
10	915										
15	910										

Notes:
* *Analytical soil sample collected from 4.0 to 8 ft. bgs.*
Ground-water sample collected using peristaltic pump at approximately 7.4 ft. bgs.
Grade elevation is approximate.
Geoprobe location southeast of Plant Building IIC, near loading dock.

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs - below ground surface.
N/A - not applicable.

Saturated Zones		
Date / Time	Elevation	Depth

Date Start/Finish: 05/17/94 - 05/17/94
Drilling Company: Nittany Geoscience, Inc.
Driller's Name: Steve Keller
Drilling Method: Geoprobe
Bit Size: N/A-in. Auger Size : N/A-in.
Rig Type: Van-mounted
Spoon Size: 2-in.
Hammer Weight: N/A-lb
Height of Fall: N/A-in.

Northing: N/A
Easting: N/A
Borehole Depth: 7.5 ft.
Ground Surface Elev.: 925 ft.

Geologist: Lynette B. Mokry

Boring No. MC-7

Site:

Moog Controls, Inc.
East Aurora, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
gs elevation 925 ft.											
	925									GROUND SURFACE	
							0.0			Orange-brown fine SAND, little Silt, moist.	
		(0-4')*		N/A	N/A	4.0				*TILL* Orange-brown fine SAND, some (+) Clay & Silt, trace medium Gravel (Shale fragments), moist.	Filled boring with cuttings and bentonite chips
							0.0			@ 3 ft., a 2" lens of coarse to medium SAND, well-sorted.	
5	920						0.2			@ 3.17 ft., becomes orange-brown fine SAND, some Clayey Silt, some medium Gravel (Shale fragments), wet.	
		(4-7.5')		N/A	N/A	3.0				*WEATHERED SHALE* Black medium GRAVEL (Shale fragments), little Clayey Silt, saturated, with increasing competence with depth.	
							0.0			*SHALE* SHALE bedrock, saturated.	
10	915									Refusal @ 7.5 ft. End of Boring @ 7.5 ft. bgs	
15	910										

Notes:
** Analytical soil sample collected from 3.0 to 4.0 ft. bgs. Ground-water sample collected using peristaltic pump at approximately 7.4 ft. bgs. Grade elevation is approximate. Geoprobe location approx. 70 ft. north of Plant Building 11B, and approx. 70 ft. west of pond.*

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1858.
bgs - below ground surface.
N/A - not applicable.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 05/17/94 - 05/17/94 Drilling Company: Nittany Geoscience, Inc. Driller's Name: Steve Keller Drilling Method: Geoprobe Bit Size: N/A-in. Auger Size: N/A-in. Rig Type: Van-mounted Spoon Size: 2-in. Hammer Weight: N/A-lb Height of Fall: N/A-in.	Northing: N/A Easting: N/A Borehole Depth: 8 ft. Ground Surface Elev.: 925 ft. Geologist: Lynette B. Mokry	Boring No. MC-8 Site: Moog Controls, Inc. East Aurora, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
gs elevation 925 ft.											
	925									GROUND SURFACE	
		(0-4')		N/A	N/A	4.0	0.0 0.0			Orange-brown fine SAND, little (-) Silt, moist. *TILL* Orange-brown and/or tan fine SAND, little to some Clayey Silt, trace medium Gravel (Shale fragments), moist to wet.	Filled boring with cuttings and bentonite chips
5	920	(4-8')*		N/A	N/A	3.0	0.0 0.0			*WEATHERED SHALE* Orange-brown and/or dark gray fine SAND, some Clay, some medium Gravel (Shale fragments), wet. Black medium GRAVEL (Shale fragments), little Clayey Silt, slightly weathered, wet. *SHALE* Refusal, SHALE bedrock, saturated. End of Boring @ 8.0 ft. bgs	
10	915										
15	910										

Notes:
* *Analytical soil sample collected from 5.0 to 7.0 ft. bgs.*
Ground-water sample collected using peristaltic pump at approximately 7.8 ft. bgs.
Grade elevation is approximate.
Geoprobe location northwest of Plant Building 11B.

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs - below ground surface.
N/A - not applicable.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 08/02/94 - 08/02/94 **Drilling Company:** SJB Services, Inc. **Driller's Name:** Jeff Leavelle **Drilling Method:** Hollow-stem Auger **Bit Size:** N/A-in. **Auger Size :** 4.25 ID-in. **Rig Type:** CME-550, ATV **Spoon Size:** 2-in.	**Northing:** N/A **Easting:** N/A **Well Casing Elev.:** **Corehole Depth:** **Borehole Depth:** 10 ft. **Ground Surface Elev.:** ft. **Geologist:** Lynette B. Mokry	**Well No.** MW-1 **Site:** Moog Controls, Inc. East Aurora, New York

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation ft									GROUND SURFACE	
	(0-2')		2-2 18-24	20	1.3	1.0			*TOPSOIL* from 0-5" Black and/or dark brown fine SAND, some Clayey Silt, moist.	
	(2-4')		30-50 32-28	82	1.5	1.0			Black medium to fine GRAVEL (angular Shale fragments), some Clayey Silt, moist. Brown and/or tan fine SAND and mf GRAVEL (Shale), dry.	Filled in boring with soil cuttings.
5	(4-8')		32-31 38-28	87	1.5	1.0			*TILL* Brown medium to fine (+) SAND, little (-) Silt, trace medium to fine Gravel (Shale, limestone), dry.	
	(8-8')		25-23 24-50/4"	47	1.4	2.0			*WEATHERED SHALE* Black medium to fine GRAVEL (weathered Shale fragments), little fine Sand, trace Clay & Silt, dry. Black medium to fine GRAVEL (Shale), trace fine Sand, trace Clay & Silt, moist.	
	(8-10')		50/4"	N/A	0.2	N/A			*MUDSTONE* Gray MUDSTONE, competent. End of Boring @ 10.0 ft. bgs	
10										
15										

Notes:
No ground-water in hole after drilling, so no well was set.
Grade elevation is approximate.
Boring location immediately south of Plant Building IIC loading dock, and 5 ft. east of boring MC-5 location.

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs - below ground surface.
N/A - not applicable.

Water Levels

Date / Time	Elevation	Depth

Date Start/Finish: 08/03/94 – 08/03/94 Drilling Company: SJB Services, Inc. Driller's Name: Jeff Leavelle Drilling Method: Hollow-stem Auger Bit Size: N/A-in. Auger Size: 4.25 ID-in. Rig Type: CME-550, ATV Spoon Size: 2-in.	Northing: N/A Easting: N/A Well Casing Elev.: Corehole Depth: Borehole Depth: 10 ft. Ground Surface Elev.: ft. Geologist: Lynette B. Mokry	Well No. MW-1A Site: Moog Controls, Inc. East Aurora, New York

DEPTH ELEVATION	Sample Run Number	Sample/Int./Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation ft									GROUND SURFACE	
	(0-2')		2-4 6-11	80	L4	0.0			*TOPSOIL* from 0-7" Brown fine SAND, little Silt, trace medium to fine Gravel (Shale fragments), moist.	
	(2-4')		10-9 8-12	17	L5	0.0			Brown medium to fine SAND, little Clayey Silt, trace medium to fine Gravel (Shale fragments), dry. Brown fine SAND, some medium to fine Gravel (Shale fragments), moist to dry.	Filled in boring with cement/bentonite grout.
5	(4-6')		8-9 9-10	18	L3	L0			*WEATHERED SHALE* Black medium to fine GRAVEL (weathered Shale fragments), some (-) Clay & Silt, moist to dry. Light brown SILT, thinly-bedded, dry to moist, firm.	
	(6-8')		12-12 12-20	24	L0	L0			*SHALE* Black medium to fine GRAVEL (Angular Shale fragments), little Clayey Silt, damp to wet.	
	(8-10')		15-50/3"	N/A	L25	0.0			End of Boring @ 9.5 ft. bgs	
10									Notes: *No ground-water in hole after drilling, so no well was set.* *Grade elevation is approximate.* *Boring location north of Plant Building #C.*	
15										

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs – below ground surface.
N/A – not applicable.

Water Levels

Date / Time	Elevation	Depth

Date Start/Finish: 06/03/94 - 06/03/94
Drilling Company: SJB Services, Inc.
Driller's Name: Jeff Leavelle
Drilling Method: Hollow-stem Auger
Bit Size: N/A-in. Auger Size: 4.25 ID-in.
Rig Type: CME-550, ATV
Spoon Size: 2-in.

Northing: N/A
Easting: N/A
Well Casing Elev.:
Corehole Depth:
Borehole Depth: 10 ft.
Ground Surface Elev.: ft.

Geologist: Lynette B. Mokry

Well No. MW-2
Site:

Moog Controls, Inc.
East Aurora, New York

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation ft									GROUND SURFACE	8" dia. water-tight flush-mount protector
	(0-2')		2-3 5-8	8	1.1	1.0			*TOPSOIL* from 0-13" Brown medium to fine (+) SAND, little (-) Silt, moist to dry.	Concrete pad Morie No. 3 sand drain
	(2-4')		34-50/3"	N/A	0.7	2.0			*FILL* Gray coarse to fine SAND, little coarse to fine Gravel, dry.	2" dia. PVC riser, Sch. 40 Bentonite pellet seal
5	(4-6')*		30-18 12-12	28	1.3	21.0			Brown coarse to medium SAND, some coarse to fine Gravel (Slag), dry. *TILL* Brown SILT, dry, very firm, slight odor.	Morie No. 0 sand
	(6-8')*		8-15 12-18	27	1.0	10.0			Gray-brown medium to fine (+) SAND, little Clay & Silt, little medium to fine Gravel (Shale fragments), dry.	2" dia. PVC screen, 10-slot
	(8-10')		8-18 27-25	45	1.8	100.0			*WEATHERED SHALE* Black medium to fine GRAVEL (Shale fragments), slightly weathered, fissile, odor.	
10	(10-12')		30-50/3"	N/A	0.7	100.0			*SHALE* Black medium GRAVEL (Shale fragments), competent, odor, dry. End of Boring @ 11 ft. bgs Notes: *Ground-water sample collected.* ** Soil sample collected from 4-7 ft.* *Grade elevation is approximate.* *Monitoring well location north of existing UST and east of Plant Building 11A.*	
15										

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1968.
bgs - below ground surface.
N/A - not applicable.

Water Levels

Date / Time	Elevation	Depth

Project: 307.15
Script: DAN-well
Date: 06/23/94

Date Start/Finish: 06/02/94 – 06/02/94 Drilling Company: SJB Services, Inc. Driller's Name: Jeff Leavelle Drilling Method: Hollow-stem Auger Bit Size: N/A-in. Auger Size: 4.25 ID-in. Rig Type: CME-550, ATV Spoon Size: 2-in.	Northing: N/A Easting: N/A Well Casing Elev.: Corehole Depth: Borehole Depth: 10 ft. Ground Surface Elev.: ft. Geologist: Lynette B. Mokry	Well No. MW-3 Site: Moog Controls, Inc. East Aurora, New York

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation ft									GROUND SURFACE	Locking 4" dia. aluminum protective casing
	(0-2')		2-3 4-7	7	0.8	17.0			*TOPSOIL* from 0-8" Brown and/or dark brown medium to fine (+) SAND, little Silt, moist.	Concrete pad 2" dia. PVC riser, Sch. 40
	(2-4')		2-7 4-3	11	0.4	17.0			*FILL* Brown medium to fine (+) SAND, some (-) Clayey Silt, trace medium Gravel (Slag), moist.	Bentonite pellet seal
5	(4-6')		3-3 4-8	7	1.2	20.0			*TILL* Olive-brown fine SAND, some Clayey Silt, moist to wet.	Morie No. 0 sand
	(6-8')		N/A	N/A	1.3	7.0			Orange and/or tan Clayey SILT, dry to moist, firm. *WEATHERED SHALE* Brown and/or black fine SAND, some Clayey Silt, little medium Gravel (Shale fragments), moist.	2" dia. PVC screen, 10-slot
	(8-10')		8-10 12-50/3"	22	1.4	8.0			*SHALE* Black medium GRAVEL (Shale fragments), saturated.	
10									End of Boring @ 9.8 ft. bgs	
15									Notes: *Ground-water sample collected.* *Grade elevation is approximate.* *Monitoring well location east of Plant Building 118*	

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs – below ground surface.
N/A – not applicable.

Water Levels

Date / Time	Elevation	Depth

Date Start/Finish: 06/02/94 - 06/02/94 **Drilling Company:** SJB Services, Inc. **Driller's Name:** Jeff Leavelle **Drilling Method:** Hollow-stem Auger **Bit Size:** N/A-in. **Auger Size :** 4.25 10-in. **Rig Type:** CME-550, ATV **Spoon Size:** 2-in.	**Northing:** N/A **Easting:** N/A **Well Casing Elev.:** **Corehole Depth:** **Borehole Depth:** 18 ft. **Ground Surface Elev.:** ft. **Geologist:** Lynette B. Mokry	**Well No.** MW-4 **Site:** Moog Controls, Inc. East Aurora, New York

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation ft									GROUND SURFACE	Locking 4" dia. aluminum protective casing
	(0-2')		1-5 8-7	13	1.1	1.0			*TOPSOIL* from 0-8" Brown and/or dark brown medium to fine (+) SAND, little Clay & Silt, moist to damp.	Concrete pad
	(2-4')		5-10 8-8	18	1.3	21.0			@ 0.5 ft., grades to medium to fine SAND, little medium to fine Gravel (Shale, limestone), little Silt, moist to dry. Brown SILT, thinnly-bedded, dry, firm.	2" dia. PVC riser, Sch. 40
5	(4-8')*		4-3 8-7	9	1.4	30.0				Bentonite pellet seal
	(8-8')		9-8 10-10	18	1.5	45.0			*TILL* Gray-brown fine SAND and Clayey SILT, trace medium to fine Gravel (sub-rounded limestone), saturated to wet.	Morie No. 0 sand
	(8-10')*		2-10 13-8	23	0.5	9.0			Brown fine SAND and Clayey SILT, damp to wet, firm. *WEATHERED SHALE* Gray-brown medium to fine GRAVEL (weathered Shale fragments), damp.	2" dia. PVC screen, 10-slot
10	(10-12")		7-12 14-28	26	1.5	4.0			Black and/or dark brown fine SAND, some medium to fine Gravel (angular Shale fragments), little Clayey Silt, damp.	
	(12-14")		33-22 18-50/3"	38	1.5	4.0			*SHALE* Black medium GRAVEL (Shale fragments), saturated. End of Boring @ 13.8 ft. bgs	
15										

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1958.
bgs - below ground surface.
N/A - not applicable.

Water Levels

Date / Time	Elevation	Depth

Moog Controls, Inc.
East Aurora, New York

Well No. MW-4

Total Depth = 18 ft.

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
20									Notes: Ground-water sample collected. * Total organic carbon analysis from 4-8 ft. Volatile organic analysis from 8-10 ft. Grade elevation is approximate. Monitoring well location immediately north of Plant Building IIA	
25										
30										
35										

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Water Levels

Date / Time	Elevation	Depth

Date Start/Finish: 08/03/94 - 08/03/94
Drilling Company: SJB Services, Inc.
Driller's Name: Jeff Leavelle
Drilling Method: Hollow-stem Auger
Bit Size: N/A-in. Auger Size: 4.25 ID-in.
Rig Type: CME-550, ATV
Spoon Size: 2-in.

Northing: N/A
Easting: N/A
Well Casing Elev.:
Corehole Depth:
Borehole Depth: 10 ft.
Ground Surface Elev.: ft.

Geologist: Lynette B. Mokry

Well No. MW-5
Site:

Moog Controls, Inc.
East Aurora, New York

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation ft										8" dia. water-tight flush-mount protector
									GROUND SURFACE	
	(0-2')		3-3 7-5	10	1.4	1.0			*TOPSOIL* from 0 - 17". Brown medium to fine (+) SAND, little Silt, moist.	Concrete pad Morie No. 3 sand drain 2" dia. PVC riser, Sch. 40 Bentonite pellet seal
	(2-4')		8-10 10-8	20	1.5	2.0			*TILL* Brown medium to fine (+) SAND, little Clayey Silt, trace medium to fine (+) Gravel (Angular shale and sub-rounded hematitic sandstone), dry to moist.	
5	(4-6')*		8-8 10-17	18	1.4	4.0				Morie No. 0 sand
	(6-8')		18-17 18-15	38	1.8	1.0			Brown and/or tan medium to fine SAND, little medium to fine Gravel (Angular shale and sub-rounded hematitic sandstone), trace (+) Clayey Silt, damp to wet.	2" dia. PVC screen, 10-slot
	(8-10')		14-10 12-8	22	0.5	2.0			*SHALE* Black medium to fine GRAVEL (Shale fragments), saturated. End of Boring @ 10.5 ft. bgs	
10	(10-12')		15-50/6"	N/A	0.5	4.0				
15										

Notes:
Ground-water sample collected.
** Total organic carbon analysis from 4-6 ft.*
Grade elevation is approximate.
Monitoring well location north of Plant Building 11B.

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Soil descriptions after Burmister, 1956.
bgs - below ground surface.
N/A - not applicable.

Water Levels		
Date / Time	Elevation	Depth

Project: 307.15
Script: DAN-well
Date: 08/23/94

APPENDIX B

Analytical Data

General Testing Corporation

A Full Service Environmental Laboratory

JUNE 8 1994

Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Re: Moog Controls

Dear Ms. Lynette Mokry

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 06/03/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019
1201 E. Fayette Street, Suite 42 • Syracuse, NY 13210 • Tele: (315) 471-0936 • Fax: (315) 471-0943

General Testing Corporation

A Full Service Environmental Laboratory

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02042 Date: JUNE 8 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls

Received : 06/02/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-001	-002	-003	-004			
Location:		MW-3	MW-4	TRIP BLANK	LAB METH BLANK			
Date Collected:		06/02/94	06/02/94	06/02/94	--			
Time Collected:	PQL	13:15	15:10	NA	--			
Date Analyzed:		06/02/94	06/02/94	06/02/94	06/02/94			
Chloromethane	5	5.0 U	5.0 U	5.0 U	5.0 U			
Bromomethane	5	5.0 U	5.0 U	5.0 U	5.0 U			
Vinyl Chloride	2	2.0 U	2.0 U	2.0 U	2.0 U			
Chloroethane	2	2.0 U	2.0 U	2.0 U	2.0 U			
Methylene Chloride	1	1.0 U	1.0 U	1.0 U	1.0 U			
Trichlorofluoromethane	1	1.0 U	1.0 U	1.0 U	1.0 U			
1,1-Dichloroethene	1	1.0 U	1.0 U	1.0 U	1.0 U			
1,1-Dichloroethane	1	1.0 U	59	1.0 U	1.0 U			
Total 1,2-Dichloroethene	1	1.0 U	2.0	1.0 U	1.0 U			
Chloroform	1	1.0 U	1.0 U	1.0 U	1.0 U			
1,2-Dichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U			
1,1,1-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U			
Carbon Tetrachloride	1	1.0 U	1.0 U	1.0 U	1.0 U			
Bromodichloromethane	1	1.0 U	1.0 U	1.0 U	1.0 U			
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U			
1,3-Dichloropropene-Trans	2	2.0 U	2.0 U	2.0 U	2.0 U			
Trichloroethene	1	1.0 U	1.0 U	1.0 U	1.0 U			
1,3-Dichloropropene (Cis)	1	1.0 U	1.0 U	1.0 U	1.0 U			
Dibromochloromethane	2	2.0 U	2.0 U	2.0 U	2.0 U			
1,1,2-Trichloroethane	2	2.0 U	2.0 U	2.0 U	2.0 U			
2-Chloroethylvinyl Ether	2	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ			
Bromoform	2	2.0 U	2.0 U	2.0 U	2.0 U			
1,1,2,2-Tetrachloroethane	2	2.0 U	2.0 U	2.0 U	2.0 U			
Tetrachloroethene	1	1.0 U	1.0 U	1.0 U	1.0 U			
Chlorobenzene	2	2.0 U	2.0 U	2.0 U	2.0 U			
1,3-Dichlorobenzene	2	2.0 U	2.0 U	2.0 U	2.0 U			
1,2-Dichlorobenzene	2	2.0 U	2.0 U	2.0 U	2.0 U			
1,4-Dichlorobenzene	2	2.0 U	2.0 U	2.0 U	2.0 U			
Benzene	2	2.0 U	2.0 U	2.0 U	2.0 U			
Toluene	2	2.0 U	2.0 U	2.0 U	2.0 U			
Ethylbenzene	2	2.0 U	2.0 U	2.0 U	2.0 U			
Total Xylene (o,m,p)	2	2.0 U	2.0 U	2.0 U	2.0 U			
Freon 113	2	2.0 U	2.0 U	2.0 U	2.0 U			
Dichlorofluoroethane	2	2.0 U	2.0 U	2.0 U	2.0 U			
Total Volatiles		ND	61.00	ND	ND			

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02042 Date: JUNE 8 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference:
Moog Controls

Received : 06/02/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-001	-002	-003	-004			
Location:		MW-3	MW-4	TRIP BLANK	LAB METH BLANK			
Date Collected:		06/02/94	06/02/94	06/02/94	--			
Time Collected:	LIMITS	13:15	15:10	NA	--			
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	89	86	90	80			
1-Chloro-3-Fluorobenzene	60-121%	104	91	96	92			
ChloroFluorobenzene(PID)	60-140%	96	89	98	90			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

MAY 26 1994

Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Re: Moog Controls, Inc.

Dear Ms. Lynette Mokry

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 05/25/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019
1201 E. Fayette Street, Suite 42 • Syracuse, NY 13210 • Tele: (315) 471-0936 • Fax: (315) 471-0943

General Testing Corporation

CASE NARRATIVE

COMPANY: Blasland Bouck Engineers PC
Moog Controls, Inc.
JOB #: R94/01778

VOLATILE ORGANICS

BBE soil and water samples were analyzed for priority pollutant volatiles, Dichlorofluoroethane, and Freon 113 by methods 8010/8020 from SW-846.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

All matrix spike, matrix spike duplicate, reference check standard recoveries, and % RPD data were within QC limits.

The Laboratory Blanks were free of contamination.

The Field Blank (R94/1778-018) and Trip Blank (R94/01778-019) were free of contamination.

All required analysis holding times were met.

The Chloroethylvinylether results have also been flagged with a "J" as being estimated due to very erratic results obtained from the GC purge and trap system. None has been detected in any of the samples.

Sample R94/01778-013 was analyzed at a 1/50 dilution to bring target analytes within the calibration of the method.

No other analytical or QC problems were encountered.

PCB ANALYSIS

BBE soil samples were analyzed for PCBs using method 8080 from SW-846. The samples were extracted using method 3550 microsonication technique employing 2 grams of sample.

The surrogate standard recoveries for Tetrachloro-m-xylene were within QC advisory limits for all samples.

All samples were cleaned up using acid and sulfur cleanups prior to analysis.

No analytical or QC problems were encountered.

General Testing Corporation

PETROLEUM HYDROCARBONS

BBE soil and water samples were analyzed for Petroleum Hydrocarbons using NYSDOH method 310-13. Ten grams of solid sample was extracted with 10 mls of Hexane and analyzed by GC/FID.

The sample R94/01778-005 exhibited a hydrocarbon peak pattern that resembled Fuel Oil #2/Diesel Fuel and was quantitated as such. All other samples could not be identified and were quantitated as Dodecane.

No analytical or QC problems were encountered with this analysis.

General Testing Corporation

A Full Service Environmental Laboratory

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYTICAL UNITS - %

Sample:	-001	-002	-003	-004	-005	-006	-007	-008
Location:	SED-1	MC-4	MC-3	MC-2	MC-1	MC-5	MC-8	MC-7
Date Collected:	05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94	05/17/94
Time Collected:	14:15	15:40	16:20	18:15	18:00	08:40	10:05	11:15
Date Analyzed:	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94
Solids, %	79.4	82.2	82.9	86.9	83.6	90.0	83.6	84.4

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYTICAL UNITS - %

Sample:	-009							
Location:	SED-2							
Date Collected:	05/17/94							
Time Collected:	NA							
Date Analyzed:	05/19/94							
Solids, %	53.8							

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 **Date:** MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 **ANALYTICAL RESULTS - ug/kg Dry Wt.**

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		SED-1	MC-4	MC-3	MC-2	MC-1	MC-5	MC-8
Date Collected:		05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94
Time Collected:	PQL	14:15	15:40	16:20	18:15	18:00	08:40	10:05
Date Analyzed:		05/24/94	05/24/94	05/24/94	05/24/94	05/24/94	05/24/94	05/24/94
Dilution:		1	1	1	1	5	1	1
Chloromethane	5.0	6.3 U	6.1 U	6.0 U	5.8 U	30 U	5.6 U	6.0 U
Bromomethane	5.0	6.3 U	6.1 U	6.0 U	5.8 U	30 U	5.6 U	6.0 U
Vinyl Chloride	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Chloroethane	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Methylene Chloride	1.0	1.3 U	1.3	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
Trichlorofluoromethane	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
1,1-Dichloroethene	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
1,1-Dichloroethane	1.0	1.3 U	1.2 U	1.2 U	9.1	6.0 U	1.1 U	1.2 U
Total 1,2-Dichloroethene	1.0	1.3 U	1.2 U	1.2 U	49	70	1.1 U	1.2 U
Chloroform	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
1,2-Dichloroethane	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
1,1,1-Trichloroethane	1.0	1.3 U	5.4	1.2 U	4.5	6.0 U	1.1 U	1.2 U
Carbon Tetrachloride	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
Bromodichloromethane	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
1,2-Dichloropropane	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
1,3-Dichloropropene-Trans	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Trichloroethene	1.0	1.3 U	1.2 U	1.2 U	27	12	1.1 U	1.2 U
1,3-Dichloropropene (Cis)	1.0	1.3 U	1.2 U	1.2 U	1.2 U	6.0 U	1.1 U	1.2 U
Dibromochloromethane	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
1,1,2-Trichloroethane	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
2-Chloroethylvinyl Ether	2.0	2.5 UJ	2.4 UJ	2.4 UJ	2.3 UJ	12 UJ	2.2 UJ	2.4 UJ
Bromoform	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
1,1,2,2-Tetrachloroethane	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Tetrachloroethene	1.0	1.3 U	1.2 U	1.2 U	91	120	1.1 U	1.2 U
Chlorobenzene	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
1,3-Dichlorobenzene	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
1,2-Dichlorobenzene	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
1,4-Dichlorobenzene	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Benzene	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Toluene	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Ethylbenzene	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Total Xylene (o,m,p)	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Freon 113	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U
Dichlorofluoroethane	2.0	2.5 U	2.4 U	2.4 U	2.3 U	12 U	2.2 U	2.4 U

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job Number: R94/01778 Date: 26 MAY , 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-001	-002	-003	-004	-005	-006	-007
Location:	SED-1	MC-4	MC-3	MC-2	MC-1	MC-5	MC-8
Date Collected:	05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94
Time Collected:	14:15	15:40	16:20	18:15	18:00	08:40	10:05
SURROGATE STANDARD RECOVERIES							
% Recovery							
Bromochloromethane (Acceptance Limits: 66-128%)	66	103	97	88	85	84	80
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-108%)	67	104	97	91	97	71	68
ChloroFluorobenzene(PID) (Acceptance Limits: 60-140%)	80	119	101	102	102	88	84

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009	-020				
Location:		MC-7	SED-2	LAB BLANK				
Date Collected:		05/17/94	05/17/94	--				
Time Collected:	PQL	11:15	NA	--				
Date Analyzed:		05/25/94	05/25/94	05/24/94				
Dilution:		1	1	1				
Chloromethane	5.0	5.9 U	9.3 U	5.0 U				
Bromomethane	5.0	5.9 U	9.3 U	5.0 U				
Vinyl Chloride	2.0	2.4 U	3.7 U	2.0 U				
Chloroethane	2.0	2.4 U	3.7 U	2.0 U				
Methylene Chloride	1.0	1.2 U	1.9 U	1.0 U				
Trichlorofluoromethane	1.0	1.2 U	1.9 U	1.0 U				
1,1-Dichloroethene	1.0	1.2 U	1.9 U	1.0 U				
1,1-Dichloroethane	1.0	1.2 U	1.9 U	1.0 U				
Total 1,2-Dichloroethene	1.0	1.2 U	1.9 U	1.0 U				
Chloroform	1.0	1.2 U	1.9 U	1.0 U				
1,2-Dichloroethane	1.0	1.2 U	1.9 U	1.0 U				
1,1,1-Trichloroethane	1.0	1.2 U	1.9 U	1.0 U				
Carbon Tetrachloride	1.0	1.2 U	1.9 U	1.0 U				
Bromodichloromethane	1.0	1.2 U	1.9 U	1.0 U				
1,2-Dichloropropane	1.0	1.2 U	1.9 U	1.0 U				
1,3-Dichloropropene-Trans	2.0	2.4 U	3.7 U	2.0 U				
Trichloroethene	1.0	1.2 U	1.9 U	1.0 U				
1,3-Dichloropropene (Cis)	1.0	1.2 U	1.9 U	1.0 U				
Dibromochloromethane	2.0	2.4 U	3.7 U	2.0 U				
1,1,2-Trichloroethane	2.0	2.4 U	3.7 U	2.0 U				
2-Chloroethylvinyl Ether	2.0	2.4 UJ	3.7 UJ	2.0 UJ				
Bromoform	2.0	2.4 U	3.7 U	2.0 U				
1,1,2,2-Tetrachloroethane	2.0	2.4 U	3.7 U	2.0 U				
Tetrachloroethene	1.0	1.2 U	1.9 U	1.0 U				
Chlorobenzene	2.0	2.4 U	3.7 U	2.0 U				
1,3-Dichlorobenzene	2.0	2.4 U	3.7 U	2.0 U				
1,2-Dichlorobenzene	2.0	2.4 U	3.7 U	2.0 U				
1,4-Dichlorobenzene	2.0	2.4 U	3.7 U	2.0 U				
Benzene	2.0	2.4 U	3.7 U	2.0 U				
Toluene	2.0	2.4 U	3.7 U	2.0 U				
Ethylbenzene	2.0	2.4 U	3.7 U	2.0 U				
Total Xylene (o,m,p)	2.0	2.4 U	3.7 U	2.0 U				
Freon 113	2.0	2.4 U	3.7 U	2.0 U				
Dichlorofluoroethane	2.0	2.4 U	3.7 U	2.0 U				

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job Number: R94/01778 Date: 26 MAY , 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-008	-009	-020
Location:	MC-7	SED-2	LAB BLANK
Date Collected:	05/17/94	05/17/94	--
Time Collected:	11:15	NA	--
SURROGATE STANDARD RECOVERIES			
% Recovery			
Bromochloromethane (Acceptance Limits: 66-128%)	82	75	89
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-108%)	86	76	99
ChloroFluorobenzene(PID) (Acceptance Limits: 60-140%)	87	91	108

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference

Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		SED-1	MC-4	MC-3	MC-2	MC-1	MC-5	MC-8
Date Collected:		05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94
Time Collected:	PQL	14:15	15:40	16:20	18:15	18:00	08:40	10:05
Date Extracted:		05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94
Date Analyzed:		05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94
Dilution:		1	1	1	1	1	1	1
PCB 1016	250	320 U	300 U	300 U	290 U	300 U	280 U	300 U
PCB 1221	250	320 U	300 U	300 U	290 U	300 U	280 U	300 U
PCB 1232	250	320 U	300 U	300 U	290 U	300 U	280 U	300 U
PCB 1242	250	320 U	300 U	300 U	290 U	300 U	280 U	300 U
PCB 1248	250	320 U	300 U	300 U	290 U	300 U	280 U	300 U
PCB 1254	250	320 U	300 U	300 U	290 U	300 U	280 U	300 U
PCB 1260	250	320 U	300 U	300 U	290 U	300 U	280 U	300 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		106	107	107	108	108	110	108

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY EPA METHOD 8080 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009	-020				
Location:		MC-7	SED-2	LAB BLANK				
Date Collected:		05/17/94	05/17/94	--				
Time Collected:	PQL	11:15	NA	--				
Date Extracted:			05/19/94	05/19/94				
Date Analyzed:			05/19/94	05/19/94				
Dilution:			1	1				
PCB 1016	250		460 U	250 U				
PCB 1221	250		460 U	250 U				
PCB 1232	250		460 U	250 U				
PCB 1242	250		460 U	250 U				
PCB 1248	250		460 U	250 U				
PCB 1254	250		460 U	250 U				
PCB 1260	250		460 U	250 U				
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)			109	105				

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

METHOD 310-13 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		SED-1	MC-4	MC-3	MC-2	MC-1	MC-5	MC-8
Date Collected:	----------	05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94
Time Collected:	PQL	14:15	15:40	16:20	18:15	18:00	08:40	10:05
Petroleum Hydrocarbons, GC								
Date Extracted:		05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94
Date Analyzed:		05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94	05/19/94
Dilution:		1	1	1	1	1	1	1
as n-Dodecane	2000	2500 U	2400 U	2400 U	2300 U		2200 U	2400 U
Fuel Oil #2/Diesel						71000		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

METHOD 310-13 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009	-020				
Location:		MC-7	SED-2	LAB BLANK				
Date Collected:	----------	05/17/94	05/17/94	--				
Time Collected:	PQL	11:15	NA	--				
Petroleum Hydrocarbons, GC								
Date Extracted:		05/19/94	05/19/94	05/19/94				
Date Analyzed:		05/19/94	05/20/94	05/19/94				
Dilution:		1	1	1				
as n-Dodecane	2000	2400 U	3700 U	2000 U				
Fuel Oil #2/Diesel								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-011	-012	-013	-014	-015	-016	-017
Location:		SW-1	MC-3	MC-2	MC-5	MC-8	MC-7	SW-2
Date Collected:		05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94
Time Collected:	PQL	14:15	16:20	18:25	08:45	10:05	11:20	13:00
Date Analyzed:		05/24/94	05/25/94	05/25/94	05/25/94	05/24/94	05/24/94	05/24/94
Dilution:		1	1	50	1	1	1	1
Chloromethane	5.0	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	5.0	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0	1.0 U	1.0 U	110	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0	1.0 U	28	1300	1.0 U	1.1	1.0 U	1.0 U
Total 1,2-Dichloroethene	1.0	1.0 U	1.0 U	1600	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0	1.0 U	73	2600	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene-Trans	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichloroethene	1.0	1.0 U	1.0 U	3500	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (Cis)	1.0	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethylvinyl Ether	2.0	2.0 UJ	2.0 UJ	100 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Bromoform	2.0	4.3	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	1.0	1.0 U	1.0 U	3400	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Xylene (o,m,p)	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U
Freon 113	2.0	2.0 U	2.0	3500	2.0 U	2.0 U	2.0 U	2.0 U
Dichlorofluoroethane	2.0	2.0 U	2.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-011	-012	-013	-014	-015	-016	-017
Location:		SW-1	MC-3	MC-2	MC-5	MC-8	MC-7	SW-2
Date Collected:		05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94
Time Collected:	LIMITS	14:15	16:20	18:25	08:45	10:05	11:20	13:00
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	72	83	97	93	89	78	111
1-Chloro-3-Fluorobenzene	60-121%	76	86	104	101	84	73	100
ChloroFluorobenzene(PID)	60-140%	82	96	110	106	97	86	111

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael F. Ramos
Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-018	-019	-021	-022			
Location:		FIELD BLANK	TRIP BLANK	LAB METH BLANK	LAB METH BLANK			
Date Collected:		05/17/94	05/17/94	--	--			
Time Collected:	PQL	11:40	NA	--	--			
Date Analyzed:		05/24/94	05/24/94	05/24/94	05/25/94			
Dilution: :		1	1	1	1			
Chloromethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U			
Bromomethane	5.0	5.0 U	5.0 U	5.0 U	5.0 U			
Vinyl Chloride	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Chloroethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Methylene Chloride	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
Trichlorofluoromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
1,1-Dichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
1,1-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
Total 1,2-Dichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
Chloroform	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
1,2-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
1,1,1-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
Carbon Tetrachloride	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
Bromodichloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
1,2-Dichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
1,3-Dichloropropene-Trans	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Trichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
1,3-Dichloropropene (Cis)	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
Dibromochloromethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
1,1,2-Trichloroethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
2-Chloroethylvinyl Ether	2.0	2.0 UJ	2.0 UJ	2.0 UJ	2.0 U			
Bromoform	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
1,1,2,2-Tetrachloroethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Tetrachloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U			
Chlorobenzene	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
1,3-Dichlorobenzene	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
1,2-Dichlorobenzene	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
1,4-Dichlorobenzene	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Benzene	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Toluene	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Ethylbenzene	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Total Xylene (o,m,p)	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Freon 113	2.0	2.0 U	2.0 U	2.0 U	2.0 U			
Dichlorofluoroethane	2.0	2.0 U	2.0 U	2.0 U	2.0 U			

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-018	-019	-021	-022			
Location:		FIELD BLANK	TRIP BLANK	LAB METH BLANK	LAB METH BLANK			
Date Collected:		05/17/94	05/17/94	--	--			
Time Collected:	LIMITS	11:40	NA	--	--			
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	70	79	99	94			
1-Chloro-3-Fluorobenzene	60-121%	71	76	110	98			
ChloroFluorobenzene(PID)	60-140%	80	85	114	115			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

METHOD 310-13 ANALYTICAL RESULTS - ug/l

Sample:		-011	-012	-013	-014	-015	-016	-017
Location:		SW-1	MC-3	MC-2	MC-5	MC-8	MC-7	SW-2
Date Collected:		05/16/94	05/16/94	05/16/94	05/16/94	05/16/94	05/17/94	05/17/94
Time Collected:	PQL	14:15	16:20	18:25	08:45	10:05	11:20	13:00
Petroleum Hydrocarbons, GC								
Date Extracted:		05/19/94					05/19/94	05/19/94
Date Analyzed:		05/19/94					05/19/94	05/19/94
Dilution:		1					1	1
as n-Dodecane	20	20 U					20 U	20 U
Fuel Oil #2/Diesel								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/01778 Date: MAY 26 1994

Client:
Ms. Lynette Mokry
Blasland Bouck Engineers PC
6723 Towpath Road, Box 66
Syracuse, NY 13214

Sample(s) Reference:
Moog Controls, Inc.

Received : 05/18/94 P.O. #:

METHOD 310-13 ANALYTICAL RESULTS - ug/l

Sample:		-018	-019	-021			
Location:		FIELD BLANK	TRIP BLANK	LAB BLANK			
Date Collected:	----------	05/17/94	05/17/94	--			
Time Collected:	PQL	11:40	NA	--			
Petroleum Hydrocarbons, GC							
Date Extracted:		05/19/94		05/19/94			
Date Analyzed:		05/19/94		05/19/94			
Dilution:		1		1			
as n-Dodecane	20	20 U		20 U			
Fuel Oil #2/Diesel							

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

R94/1778

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job No. R94/1778
Client Project No. 307.150

Sample Origination & Shipping Information

Collection Site: MOOG Controls Inc.
Address: 300 Jamison Rd, East Aurora (Street, City) NY (State) 14052 (Zip)
Collector: Lynette B Mokry (Print) Lynette B. Mokry (Signature)

Bottles Prepared by: GTC — Rec'd by: Client
Bottles Shipped to Client via: Click — Seal/Shipping #:
Samples Shipped via: Federal Express — Seal/Shipping #:

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Lynette B. Mokry	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by: [signature] 5/18/94 @ 09:30

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1		SED-1	S	EDB/DBCP VOCs + Freons, PCBs		✓		✓	10
	-001	5/16/94 : 1415	S	BOD, TPH					
2		MC-4	S	"		✓		✓	10
	-002	5/16/94 : 1540		"		HC			
3		MC-3	S	"		✓		✓	10
	-003	5/16/94 : 1620		"					
4		MC-2	S	"		✓		✓	10
	-004	5/16/94 : 1815		"					
5		MC-1	S	"		✓		✓	10
	-005	5/16/94 : 1800		"					

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.	4 oz. Glass	
# of each										3	

Additional Analytes: Freon 113 and dichlorofluoroethane

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. R94/1778
Client Project No. 307.15 01

Sample Origination & Shipping Information

Collection Site MOOG Controls Inc.
Address 300 Jamison Rd., East Aurora NY 14052
Street City State Zip
Collector Lynette B. Mokry Lynette B. Mokry
Print Signature

Bottles Prepared by GTC Rec'd by Client
Bottles Shipped to Client via Click Seal/Shipping #
Samples Shipped via Fed. Ex. Seal/Shipping #

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign Lynette B. Mokry	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by [redacted] 5/18/94 @ 8:30

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1		MC-5	S	VOCs, 8010/8020 + Freons,		✓		✓	10
	-006	5/17/94 : 0840		PCBs 8080, TPH					
2		MC-8	S	"		✓		✓	10
	-007	5/17/94 : 1005		"					
3		MC-7	S	VOCs 8010/8020 + Freons		✓		✓	10
	-008	5/17/94 1115		TPH					
4		SED-2	S	VOCs 8010/8020 + Freons		✓		✓	10
	-009	5/17/94 :	R	TPH, PCBs 8080					
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.	4 oz Glass	
# of each										3	

Additional Analytes Freon 113 and dissolved gases

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. R94/1778
Client Project No. 307.150

Sample Origination & Shipping Information

Collection Site: MOOG Controls Inc.
Address: 300 Jamison Rd, East Aurora, NY 14052
Street / City / State / Zip

Collector: Lynette B. McKay (Print) — Lynette B McKay (Signature)

Bottles Prepared by: GTC — Rec'd by: Client
Bottles Shipped to Client via: Client — Seal/Shipping #:
Samples Shipped via: Federal Express — Seal/Shipping #:

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign Lynette B McKay	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by: [redacted] 5/18/94 @ 09:30

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1			Y	Standard for		+		-	1
	-010	5/17/94 14:30		dichlorofluoroethane Genesis 2000					NOTE - #B VIAL filled approx 2/3 only.
2		/ / :							
3		/ / :							
4		/ / :							
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each	3 1										

Additional Analytes: For standard for VOCs 8010/8020 + Freons analysis — dichlorofluoroethane

Shaded area for Lab use only: bottom copy for client: maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), Product (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. R94/1778
Client Project No. 307.15

Sample Origination & Shipping Information

Collection Site: Moog Controls Inc.
Address: 300 Jamison Rd., East Aurora, N.Y. 14052
(Street, City, State, Zip)
Collector: Lynette B. McKay (Print) — Lynette B McKay (Signature)

Bottles Prepared by: GTC — Rec'd by: Client
Bottles Shipped to Client via: Client — Seal/Shipping #:
Samples Shipped via: Federal Express — Seal/Shipping #:

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign Lynette B. McKay	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by [signature] 5/18/94 @ 09:30

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	-011	SW-1 / 5/16/94 14:15	P	VOCs 8010/8020 + Freons, ~~8020~~, TPH		✓		✓	1, 11
2	-012	MC-3 / 5/16/94 1620	X	VOCs 8010/8020 + Freons		✓		✓	1
3	-013	MC-2 / 5/16/94 1825	X	"		✓		✓	1
4	-014	MC-5 / 5/16/94 0845	X	"		✓		✓	1
5	-015	MC-8 / 5/16/94 1005	X	"		✓		✓	1

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		1 L Glass
# of each	2										2

Additional Analytes: Freon 113, and dichlorofluoroethane

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), Ground water (X), ________ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

R94/1778

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. R94/1778
Client Project No. 307.15

Sample Origination & Shipping Information

Collection Site: MOOG Controls Inc.
Address: 300 Jamison Rd (Street) East Aurora (City) NY (State) 14052 (Zip)
Collector: Lynette B. McKay (Print) Lynette B. McKay (Signature)

Bottles Prepared by: GTC
Bottles Shipped to Client via: Click
Samples Shipped via: Federal Express
Rec'd by: Client
Seal/Shipping #:
Seal/Shipping #:

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign: Lynette B. McKay	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by: [signature] 5/18/94 @0930

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	-016	MC-7 / 5/17/94 1120	R	VOCs 8010/8020 + Freons, TPH	✓		✓		1, 11
2	-017	SW-2 / 5/17/94 1300	R	VOCs 8010/8020 + Freons, TPH ~~Dup~~ MS	✓		✓		1, 11
3	-018	FIELD BLANK / 5/17/94 1140		"	✓		✓		1, 11
4	-019	TRIP BLANK / 5/17/94		VOCs 8	✓		✓		1
5		/ /							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		1 L Glass
# of each	2										2

Additional Analytes: Freon 113 and dichlorofluoromethane

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), Groundwater (X), _____ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. _____
Client Project No. 307.15

Sample Origination & Shipping Information

Collection Site MOOG Controls Inc.
Address 300 Jamison Rd, East Aurora NY 14052
Street City State Zip
Collector Lynette B. Mickey Lynette B. Mickey
Print Signature

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign Lynette B Mickey	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)
1		SED-1	P	VOCs + Freons, PCBs		✓		✓	0
		5/16/94 : 14:15	S						
2		MC-4	S	"		✓		✓	10
		5/16/94 : 1540		"		✓			
3		MC-3	S	"		✓		✓	10
		5/16/94 : 1620		"					
4		MC-2	S	"		✓		✓	10
		5/16/94 : 1515		"					
5		MC-1	S	"		✓		✓	10
		5/16/94 : 1200		"					

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.	4 oz Moss	
# of each										3	

Additional Analytes From 113 and dissolved methane

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608	1201 E. Fayette St. Syracuse, NY 13210	85 Trinity Place Hackensack, NJ 07601	435 Lawrence Bell Dr. Amherst, NY 14221-7077	GTC Job. No. ________ Client Project No. 307 ... 01

Sample Origination & Shipping Information

Collection Site: Moog Products Inc.

Address: [illegible] East Aurora NY 14052
(Street / City / State / Zip)

Collector: [illegible] (Print) — [illegible signature] (Signature)

Bottles Prepared by ________ Rec'd by ________

Bottles Shipped to Client via ________ Seal/Shipping # ________

Samples Shipped via ________ Seal/Shipping # ________

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign [illegible signature]	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by ________ / / @ :

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	
1		ME-5	S	VOCs, 8010/8020+...		✓		✓	10	
		5/17/94 0940		8080/8010, TPH						
2		ME-8	S			✓		✓	10	
		5/17/94 1005								
3		ME-7	S	VOCs 8010/8020+...		✓		✓	10	
		5/17/94 ...15		TPH						
4		SED-2	S	VOCs 8010/8020 ...		✓		✓	10	
		5/17/94	S	TPH, PCBs 8080						
5										
		/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.	[illegible]	
# of each										3	

Additional Analytes: Freon 113 and [illegible]

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), ________ (X), ________ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. ______
Client Project No. 307.15 01

Sample Origination & Shipping Information

Collection Site: MOOG Controls Inc.
Address: 300 Jamison Rd, East Aurora, NY 14052
(Street, City, State, Zip)
Collector: Lynette B. Mickey (Print) — Lynette B. Mickey (Signature)

Bottles Prepared by ______ Rec'd by ______
Bottles Shipped to Client via ______ Seal/Shipping # ______
Samples Shipped via ______ Seal/Shipping # ______

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Lynette B. Mickey	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by ______ / / @ :

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1			Y	Standard for		✓		✓	1
		5/17/94 1430		trichlorofluoroethane (Genesolv 2000)					Note - vial filled approx 2/3 only.
2									
		/ / :							
3									
		/ / :							
4									
		/ / :							
5									
		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each	1										

Additional Analytes: For standard for VOCs 8010/8020 + Freons analysis – trichlorofluoroethane

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), ______ (X), Standard (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. _____
Client Project No. [illegible]

Sample Origination & Shipping Information

Collection Site MCC Materials Inc.
Address 500 Jamison Rd East Aurora N.Y. 14052
Street City State Zip
Collector [illegible] Print [illegible] Signature

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign [illegible]	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	[redacted]	SW-1	F	VOCs [illegible]		✓		✓	1, 11
	[redacted]	3/16/94 14:15		8010, TPH					
2	[redacted]	MC-3	X	VOCs 601/8020		✓		✓	1
	[redacted]	3/16/94 1620		+ Freon					
3	[redacted]	MC-2	X	"		✓		✓	1
	[redacted]	3/16/94 1625							
4	[redacted]	MC-5	X	"		✓		✓	1
	[redacted]	3/16/94 1245							
5	[redacted]	MC-2	X	"		✓		✓	1
	[redacted]	3/16/94 1625							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		1 L Glass
# of each	2										2

Additional Analytes [illegible]

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), [illegible] (X), _____ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. ________
Client Project No. 327 1?

Sample Origination & Shipping Information

Collection Site: [illegible] Inc.
Address: 300 Jamison Rd (Street) East Aurora (City) NY (State) 14052 (Zip)
Collector: [illegible] (Print) [signature] (Signature)

Bottles Prepared by ________ Rec'd by ________
Bottles Shipped to Client via ________ Seal/Shipping # ________
Samples Shipped via ________ Seal/Shipping # ________

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign [signature]	1. Sign	/ /
for	for	:
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by ________ / / @ :

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	
1		MC-7	(	VOCs 2010/8020 + Freons, TPH		✓		✓	1, 11	
		5/17/94 1120								
2		SW-2	R	VOCs 2010/8020 +		✓		✓	1, 11	
		5/17/94 1300		Freons, TPH						
3		FIELD BLANK		"		✓		✓	1, 11	
		5/17/94 1140		"						
4		TRIP BLANK		VOCs *		✓		✓	1*	
		5/17/94 :								
5										
		/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		1 L glass
# of each	2										2

Additional Analytes: Freon 113 and [illegible]

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), [illegible] (X), ________ (Y).

General Testing Corporation

A Full Service Environmental Laboratory

JUNE 8 1994

Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Re: Moog Controls Inc.

Dear Ms. Lynette Mokry

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 06/07/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019
1201 E. Fayette Street, Suite 42 • Syracuse, NY 13210 • Tele: (315) 471-0936 • Fax: (315) 471-0943

General Testing Corporation

A Full Service Environmental Laboratory

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02069 Date: JUNE 8 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc.

Received : 06/06/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-001	-002					
Location:		MW-5	LAB METH					
		MOOG	BLANK					
Date Collected:		06/03/94	--					
Time Collected:	PQL	17:15	--					
Date Analyzed:		06/06/94	06/06/94					
Chloromethane	5	5.0 U	5.0 U					
Bromomethane	5	5.0 U	5.0 U					
Vinyl Chloride	2	2.0 U	2.0 U					
Chloroethane	2	2.0 U	2.0 U					
Methylene Chloride	1	1.0 U	1.0 U					
Trichlorofluoromethane	1	1.0 U	1.0 U					
1,1-Dichloroethene	1	1.0 U	1.0 U					
1,1-Dichloroethane	1	1.0 U	1.0 U					
Total 1,2-Dichloroethene	1	1.0 U	1.0 U					
Chloroform	1	1.0 U	1.0 U					
1,2-Dichloroethane	1	1.0 U	1.0 U					
1,1,1-Trichloroethane	1	1.0 U	1.0 U					
Carbon Tetrachloride	1	1.0 U	1.0 U					
Bromodichloromethane	1	1.0 U	1.0 U					
1,2-Dichloropropane	1	1.0 U	1.0 U					
1,3-Dichloropropene-Trans	2	2.0 U	2.0 U					
Trichloroethene	1	1.0 U	1.0 U					
1,3-Dichloropropene (Cis)	1	1.0 U	1.0 U					
Dibromochloromethane	2	2.0 U	2.0 U					
1,1,2-Trichloroethane	2	2.0 U	2.0 U					
2-Chloroethylvinyl Ether	2	2.0 UJ	2.0 UJ					
Bromoform	2	2.0 U	2.0 U					
1,1,2,2-Tetrachloroethane	2	2.0 U	2.0 U					
Tetrachloroethene	1	1.0 U	1.0 U					
Chlorobenzene	2	2.0 U	2.0 U					
1,3-Dichlorobenzene	2	2.0 U	2.0 U					
1,2-Dichlorobenzene	2	2.0 U	2.0 U					
1,4-Dichlorobenzene	2	2.0 U	2.0 U					
Benzene	2	2.0 U	2.0 U					
Toluene	2	2.0 U	2.0 U					
Ethylbenzene	2	2.0 U	2.0 U					
Total Xylene (o,m,p)	2	2.4	2.0 U					
Freon 113	2	2.0 U	2.0 U					
Dichlorofluoroethane	2	2.0 U	2.0 U					
Total Volatiles		2.40	ND					

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02069 Date: JUNE 8 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference:
Moog Controls Inc.

Received : 06/06/94

P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-001	-002
Location:		MW-5	LAB METH
		MOOG	BLANK
Date Collected:		06/03/94	--
Time Collected:	LIMITS	17:15	--
SURROGATE STANDARD RECOVERIES			
% Recovery			
Bromochloromethane	60-138%	80	75
1-Chloro-3-Fluorobenzene	60-121%	82	77
ChloroFluorobenzene(PID)	60-140%	94	90

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Laboratory Director

Pg 2 of 2

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. R94/2069
Client Project No. 307.15.01

Sample Origination & Shipping Information

Collection Site MOOG Controls

Address _____ Street _____ City _____ State _____ Zip _____

Collector David L. Greene (Print) David L Greene (Signature)

Bottles Prepared by GTC
Bottles Shipped to Client via —
Samples Shipped via —

Rec'd by _____
Seal/Shipping # _____
Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign David L Greene for BBL	1. Sign [illegible] for GTC	6/16/94 8:50
2. Sign for	2. Sign for	/ / :
3. Sign for	3. Sign for	/ / :

Sample(s) Received in Laboratory by Tom Hastings 6/6/94 @08:30

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	MW-5	MOOG 6/3/94 15:10	S	TOC/TOX	✓	—	—	✓	1 #2's
2	MW-5 R94/2069-001	MOOG 6/3/94 17:15	W	8010/8020....	—	✓	—	✓	2 #1's MW-5 VOC changed to 24hr TAT 6/6 @ 12:40pm as per Lynette Mokry
3		/ / :							
4		/ / :							
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

Pg 2 of 2

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. 307.15.01
Client Project No. _____

Sample Origination & Shipping Information

Collection Site MOOG Controls
Address _____ Street _____ City _____ State _____ Zip _____
Collector Daniel L. Greene (Print) Daniel L. Greene (Signature)

Bottles Prepared by GTC | Rec'd by _____
Bottles Shipped to Client via — | Seal/Shipping # _____
Samples Shipped via — | Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date//Time
1. Sign Daniel L. Greene	1. Sign [illegible]	6/10/94
for BB&L	for GTC	8:50
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	MW-5	MOOG	S	TOC/DWPS		~		~	# 2's
		6/3/94 15:10							
2	MW-5	MOOG	W	8010/8020....		~		~	2 # 1's
		6/3/94 17:15							
3		/ / :							
4		/ / :							
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

General Testing Corporation

A Full Service Environmental Laboratory

JUNE 16 1994

Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Re: Moog Controls Inc

Dear Ms. Lynette Mokry

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 06/13/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger

Janice Jaeger
Customer Service Representative

Enc.

710 Exchange Street • Rochester, NY 14608 • Tele: (716) 454-3760 • (716) 454-1245
85 Trinity Place • Hackensack, NJ 07601 • Tele: (201) 488-5242 • Fax: (201) 488-6386
435 Lawrence Bell Drive • Amherst, NY 14221 • Tele: (716) 634-0454 • Fax: (716) 634-9019

General Testing Corporation

A Full Service Environmental Laboratory

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. For further explanation see case narrative / cover letter.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)

* - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)

- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)

M - Duplication injection precision not met (GFA only).

S - Reported value determined by Method of Standard Additions. (MSA)

X - As specified in the case narrative.

General Testing Corporation

CASE NARRATIVE

COMPANY: Blasland & Bouck Engineers, PC
Moog Controls Inc.
JOB #: R94/02061

VOLATILE ORGANICS

BBE soil and water samples were analyzed for Priority Pollutant List of volatile organics plus Freon 113 and Dichlorofluoroethane by methods 8010/8020 from SW-846.

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

All QC data associated with this analysis was acceptable.

All laboratory blanks were free of any contamination.

The Trip Blank and Equipment Blank (R94/02061-003 and 004) were free of contamination.

All samples were analyzed within the 7 day holding time as requested.

The sample MW-2 (R94/02061-005) was analyzed at a 1/50 dilution to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS

BBE soil and water samples were analyzed for the TCL list of semivolatile organics using SW-846 method 8270.

All Tuning criteria for DFTPP were met.

The initial and continuing calibration criteria were met for all analytes.

The Base Neutral surrogate standard recovery for Terphenyl-d14 on sample MW-2 (R94/02061-005) was outside of QC limits and has been flagged with an "*". All other surrogate standard recoveries were within QC limits.

General Testing Corporation

No other analytical or QC problems were encountered.

MISC. ANALYSIS

BBE soil and water sample was analyzed for Petroleum Hydrocarbons using NYSDOH method 310-13.

Sample exhibited several hydrocarbon peaks however, the peak pattern did not match any standards therefore, it could not be positively identified and the sample was quantitated as Dodecane.

No analytical or QC problems were encountered with this analysis.

BBE soil sample was also analyzed for TOC using the Walkley Black titration.

No analytical or QC problems were encountered.

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference:
Moog Controls Inc

Received : 06/06/94 P.O. #:

ANALYTICAL UNITS - As Indicated

		-001	-002	-006				
Location:		MW-2 MOOG	MW-4 MOOG	MW-5 MOOG				
Date Collected:		06/03/94	06/02/94	06/03/94				
Time Collected:	PQL	14:10	13:30	15:10				
Solids, %		89.7	75.2	89.2				
Total Organic Carbon, %	0.500	0.500 U	2.47	0.500 U				

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-006	-008			
Location:		MW-2 MOOG	MW-4 MOOG	MW-5 MOOG	LAB BLANK			
Date Collected:		06/03/94	06/02/94	06/03/94	--			
Time Collected:	PQL	14:10	13:30	15:10	--			
Date Analyzed:		06/10/94	06/10/94		06/10/94			
Dilution:		1	1		1			
Chloromethane	5	5.6 U	6.6 U		5.0 U			
Bromomethane	5	5.6 U	6.6 U		5.0 U			
Vinyl Chloride	2	2.2 U	2.7 U		2.0 U			
Chloroethane	2	2.2 U	2.7 U		2.0 U			
Methylene Chloride	1	1.1 U	1.3 U		1.0 U			
Trichlorofluoromethane	1	1.1 U	1.3 U		1.0 U			
1,1-Dichloroethene	1	1.1 U	1.3 U		1.0 U			
1,1-Dichloroethane	1	1.1 U	1.3 U		1.0 U			
Total 1,2-Dichloroethene	1	1.1 U	1.3 U		1.0 U			
Chloroform	1	1.1 U	1.3 U		1.0 U			
1,2-Dichloroethane	1	1.1 U	1.3 U		1.0 U			
1,1,1-Trichloroethane	1	1.1 U	1.3 U		1.0 U			
Carbon Tetrachloride	1	1.1 U	1.3 U		1.0 U			
Bromodichloromethane	1	1.1 U	1.3 U		1.0 U			
1,2-Dichloropropane	1	1.1 U	1.3 U		1.0 U			
1,3-Dichloropropene-Trans	2	2.2 U	2.7 U		2.0 U			
Trichloroethene	1	1.1 U	1.3 U		1.0 U			
1,3-Dichloropropene (Cis)	1	1.1 U	1.3 U		1.0 U			
Dibromochloromethane	2	2.2 U	2.7 U		2.0 U			
1,1,2-Trichloroethane	2	2.2 U	2.7 U		2.0 U			
2-Chloroethylvinyl Ether	2	2.2 UJ	2.7 UJ		2.0 U			
Bromoform	2	2.2 U	2.7 U		2.0 U			
1,1,2,2-Tetrachloroethane	2	2.2 U	2.7 U		2.0 U			
Tetrachloroethene	1	1.1 U	1.3 U		1.0 U			
Chlorobenzene	2	2.2 U	2.7 U		2.0 U			
1,3-Dichlorobenzene	2	2.2 U	2.7 U		2.0 U			
1,2-Dichlorobenzene	2	2.2 U	2.7 U		2.0 U			
1,4-Dichlorobenzene	2	2.2 U	2.7 U		2.0 U			
Benzene	2	2.2 U	2.7 U		2.0 U			
Toluene	2	2.2 U	2.7 U		2.0 U			
Ethylbenzene	2	2.2 U	2.7 U		2.0 U			
Total Xylene (o,m,p)	2	2.2 U	2.7 U		2.0 U			
Freon 113	2	2.2 U	2.7 U		2.0 U			
Dichlorofluoroethane	2	2.2 U	2.7 U		2.0 U			
Total Volatiles		ND	ND		ND			

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job Number: R94/02061 Date: 16 JUNE, 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference:
Moog Controls Inc

Received : 06/06/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:	-001	-002	-006	-008
Location:	MW-2 MOOG	MW-4 MOOG	MW-5 MOOG	LAB BLANK
Date Collected:	06/03/94	06/02/94	06/03/94	--
Time Collected:	14:10	13:30	15:10	--
SURROGATE STANDARD RECOVERIES				
% Recovery				
Bromochloromethane (Acceptance Limits: 66-128%)	85	91		90
1-Chloro-3-Fluorobenzene (Acceptance Limits: 60-108%)	74	85		93
ChloroFluorobenzene(PID) (Acceptance Limits: 55-131%)	86	87		109

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael F. Penny
Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - ug/l

Sample:		-003	-004	-005	-007	-009		
Location:		TRIP BLANK	EQUIPMENT BLANK	MW-2 MOOG	LAB BLANK	LAB METH BLANK		
Date Collected:		06/03/94	06/03/94	06/03/94	--	--		
Time Collected:	PQL	NA	13:45	14:30	--	--		
Date Analyzed:		06/09/94	06/09/94	06/10/94	06/09/94	06/10/94		
Dilution:		1	1	50	1	1		
Chloromethane	5	5.0 U	5.0 U	250 U	5.0 U	5.0 U		
Bromomethane	5	5.0 U	5.0 U	250 U	5.0 U	5.0 U		
Vinyl Chloride	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Chloroethane	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Methylene Chloride	1	1.0 U	1.2	50 U	1.0 U	1.0 U		
Trichlorofluoromethane	1	1.0 U	1.0 U	91	1.0 U	1.0 U		
1,1-Dichloroethene	1	1.0 U	1.0 U	50 U	1.0 U	1.0 U		
1,1-Dichloroethane	1	1.0 U	1.0 U	4300	1.0 U	1.0 U		
Total 1,2-Dichloroethene	1	1.0 U	1.0 U	1900	1.0 U	1.0 U		
Chloroform	1	1.0 U	1.1	50 U	1.0 U	1.0 U		
1,2-Dichloroethane	1	1.0 U	1.0 U	50 U	1.0 U	1.0 U		
1,1,1-Trichloroethane	1	1.0 U	1.0 U	4700	1.0 U	1.0 U		
Carbon Tetrachloride	1	1.0 U	1.0 U	50 U	1.0 U	1.0 U		
Bromodichloromethane	1	1.0 U	1.0 U	50 U	1.0 U	1.0 U		
1,2-Dichloropropane	1	1.0 U	1.0 U	50 U	1.0 U	1.0 U		
1,3-Dichloropropene-Trans	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Trichloroethene	1	1.0 U	1.0 U	980	1.0 U	1.0 U		
1,3-Dichloropropene (Cis)	1	1.0 U	1.0 U	50 U	1.0 U	1.0 U		
Dibromochloromethane	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
1,1,2-Trichloroethane	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
2-Chloroethylvinyl Ether	2	2.0 UJ	2.0 UJ	100 UJ	2.0 UJ	2.0 UJ		
Bromoform	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
1,1,2,2-Tetrachloroethane	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Tetrachloroethene	1	1.0 U	1.0 U	860	1.0 U	1.0 U		
Chlorobenzene	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
1,3-Dichlorobenzene	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
1,2-Dichlorobenzene	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
1,4-Dichlorobenzene	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Benzene	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Toluene	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Ethylbenzene	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Total Xylene (o,m,p)	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Freon 113	2	2.0 U	2.0 U	1200	2.0 U	2.0 U		
Dichlorofluoroethane	2	2.0 U	2.0 U	100 U	2.0 U	2.0 U		
Total Volatiles		ND	2.30	14031	ND	ND		

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference:
Moog Controls Inc

Received : 06/06/94 P.O. #:

ANALYSIS * BY GC METHOD 8010/8020 ANALYTICAL RESULTS - %

Sample:		-003	-004	-005	-007	-009		
Location:		TRIP BLANK	EQUIPMENT BLANK	MW-2 MOOG	LAB BLANK	LAB METH BLANK		
Date Collected:		06/03/94	06/03/94	06/03/94	--	--		
Time Collected:	LIMITS	NA	13:45	14:30	--	--		
SURROGATE STANDARD RECOVERIES								
% Recovery								
Bromochloromethane	60-138%	85	87	88	87	78		
1-Chloro-3-Fluorobenzene	60-121%	99	95	95	90	87		
ChloroFluorobenzene(PID)	60-140%	98	96	96	99	94		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael F. Pecora
Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS-ug/kg Dry Wt.

Sample:		-001	-002	-006	-008			
Location:		MW-2 MOOG	MW-4 MOOG	MW-5 MOOG	LAB BLANK			
Date Collected:		06/03/94	06/02/94	06/03/94	--			
Time Collected:	PQL	14:10	13:30	15:10	--			
Date Extracted:		6/07/94			6/07/94			
Date Analyzed:		6/10/94			6/10/94			
Dilution:		1			1			
Phenol	670	740 U			670 U			
2-Chlorophenol	670	740 U			670 U			
2-Nitrophenol	670	740 U			670 U			
2,4-Dimethylphenol	670	740 U			670 U			
2,4-Dichlorophenol	670	740 U			670 U			
4-Chloro-3-methylphenol	670	740 U			670 U			
2,4,6-Trichlorophenol	670	740 U			670 U			
2,4-Dinitrophenol	1300	1500 U			1300 U			
4-Nitrophenol	1300	1500 U			1300 U			
2-Methyl-4,6-dinitrophenol	1300	1500 U			1300 U			
Pentachlorophenol	1300	1500 U			1300 U			
2-Methylphenol	670	740 U			670 U			
4-Methylphenol	670	740 U			670 U			
2,4,5-Trichlorophenol	670	740 U			670 U			
SURROGATE STANDARD RECOVERIES								
2-Fluorophenol	25-121%	75			78			
Phenol-d6	24-113%	75			79			
2,4,6-TriBromophenol	19-122%	106			107			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS -ug/kg Dry Wt.

Sample:		-001	-002	-006	-008			
Location:		MW-2 MOOG	MW-4 MOOG	MW-5 MOOG	LAB BLANK			
Date Collected:		06/03/94	06/02/94	06/03/94	--			
Time Collected:	PQL	14:10	13:30	15:10	--			
Date Extracted:		6/07/94			6/07/94			
Date Analyzed:		6/10/94			6/10/94			
Dilution:		1			1			
N-Nitrosodimethylamine	330	370 U			330 U			
Bis(2-chloroethyl) ether	330	370 U			330 U			
1,3 Dichlorobenzene	330	370 U			330 U			
1,4 Dichlorobenzene	330	370 U			330 U			
1,2 Dichlorobenzene	330	370 U			330 U			
2,2'oxybis(1-Chloropropane)	330	370 U			330 U			
N-Nitroso-Di-n-propylamine	330	370 U			330 U			
Hexachloroethane	330	370 U			330 U			
Nitrobenzene	330	370 U			330 U			
Isophorone	330	370 U			330 U			
bis(-2-chloroethoxy)methane	330	370 U			330 U			
1,2,4-Trichlorobenzene	330	370 U			330 U			
Naphthalene	330	370 U			330 U			
Hexachlorobutadiene	330	370 U			330 U			
Hexachlorocyclopentadiene	330	370 U			330 U			
2-Chloronaphthalene	330	370 U			330 U			
Dimethyl phthalate	330	370 U			330 U			
Acenaphthylene	330	370 U			330 U			
Acenaphthene	330	370 U			330 U			
2,4-Dinitrotoluene	330	370 U			330 U			
2,6-Dinitrotoluene	330	370 U			330 U			
Diethyl phthalate	330	370 U			330 U			
4-Chlorophenyl-phenyl-ether	330	370 U			330 U			
Fluorene	330	370 U			330 U			
1,2-Diphenylhydrazine	330	370 U			330 U			
N-Nitrosodiphenylamine	330	370 U			330 U			
4-Bromophenyl-phenylether	330	370 U			330 U			
Hexachlorobenzene	330	370 U			330 U			
Phenanthrene	330	370 U			330 U			
Anthracene	330	370 U			330 U			
Di-n-butyl phthalate	330	370 U			330 U			
Fluoranthene	330	370 U			330 U			
Pyrene	330	370 U			330 U			

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job Number: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS -ug/kg Dry Wt.

Sample:		-001	-002	-006	-008			
Location:		MW-2 MOOG	MW-4 MOOG	MW-5 MOOG	LAB BLANK			
Date Collected:		06/03/94	06/02/94	06/03/94	--			
Time Collected:	PQL	14:10	13:30	15:10	--			
Date Extracted:		6/07/94			6/07/94			
Date Analyzed:		6/10/94			6/10/94			
Dilution:		1			1			
Butyl benzyl phthalate	330	370 U			330 U			
3,3'-Dichlorobenzidine	330	370 U			330 U			
Benzo(a)anthracene	330	370 U			330 U			
Bis(2-ethylhexyl)phthalate	330	370 U			330 U			
Chrysene	330	370 U			330 U			
Di-n-octyl phthalate	330	370 U			330 U			
Benzo(b)Fluoranthene	330	370 U			330 U			
Benzo(k)fluoranthene	330	370 U			330 U			
Benzo(a)pyrene	330	370 U			330 U			
Indeno(1,2,3-cd)pyrene	330	370 U			330 U			
Dibenzo(a,h)anthracene	330	370 U			330 U			
Benzo(g,h,i)perylene	330	370 U			330 U			
4-Chloroaniline	330	370 U			330 U			
2-Methyl Naphthalene	330	370 U			330 U			
2-Nitroaniline	330	370 U			330 U			
3-Nitroaniline	330	370 U			330 U			
Dibenzofuran	330	370 U			330 U			
4-Nitroaniline	330	370 U			330 U			
Carbazole	330	370 U			330 U			
SURROGATE STANDARD RECOVERIES								
Nitrobenzene-d5	23-120%	76			78			
2-Fluorobiphenyl	30-115%	83			84			
Terphenyl-d14	18-137%	86			87			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801
NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

TCL ACID EXTRACTABLES BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/l

Sample:		-003	-004	-005	-007			
Location:		TRIP BLANK	EQUIPMENT BLANK	MW-2 MOOG	LAB BLANK			
Date Collected:		06/03/94	06/03/94	06/03/94	--			
Time Collected:	PQL	NA	13:45	14:30	--			
Date Extracted:				6/07/94	6/07/94			
Date Analyzed:				6/09/94	6/09/94			
Dilution:				1	1			
Phenol	10			10 U	10 U			
2-Chlorophenol	10			10 U	10 U			
2-Nitrophenol	10			10 U	10 U			
2,4-Dimethylphenol	10			10 U	10 U			
2,4-Dichlorophenol	10			10 U	10 U			
4-Chloro-3-methylphenol	10			13	10 U			
2,4,6-Trichlorophenol	10			10 U	10 U			
2,4-Dinitrophenol	20			20 U	20 U			
4-Nitrophenol	20			20 U	20 U			
2-Methyl-4,6-dinitrophenol	20			20 U	20 U			
Pentachlorophenol	20			20 U	20 U			
2-Methylphenol	10			10 U	10 U			
4-Methylphenol	10			10 U	10 U			
2,4,5-Trichlorophenol	10			10 U	10 U			
SURROGATE STANDARD RECOVERIES								
2-Fluorophenol	21-100%			52	53			
Phenol-d6	10-94%			38	35			
2,4,6-TriBromophenol	10-123%			57	65			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
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Laboratory Director

General Testing Corporation

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Job No: R94/02061 Date: JUNE 16 1994

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6723 Towpath Rd., Box 66
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Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/l

Sample:		-003	-004	-005	-007			
Location:		TRIP BLANK	EQUIPMENT BLANK	MW-2 MOOG	LAB BLANK			
Date Collected:		06/03/94	06/03/94	06/03/94	--			
Time Collected:	PQL	NA	13:45	14:30	--			
Date Extracted:				6/07/94	6/07/94			
Date Analyzed:				6/09/94	6/09/94			
Dilution:				1	1			
N-Nitrosodimethylamine	5.0			5.0 U	5.0 U			
Bis(2-chloroethyl) ether	5.0			5.0 U	5.0 U			
1,3 Dichlorobenzene	5.0			5.0 U	5.0 U			
1,4 Dichlorobenzene	5.0			5.0 U	5.0 U			
1,2 Dichlorobenzene	5.0			5.0 U	5.0 U			
2,2'oxybis(1-Chloropropane)	5.0			5.0 U	5.0 U			
N-Nitroso-Di-n-propylamine	5.0			5.0 U	5.0 U			
Hexachloroethane	5.0			5.0 U	5.0 U			
Nitrobenzene	5.0			5.0 U	5.0 U			
Isophorone	5.0			5.0 U	5.0 U			
bis(-2-chloroethoxy)methane	5.0			5.0 U	5.0 U			
1,2,4-Trichlorobenzene	5.0			5.0 U	5.0 U			
Naphthalene	5.0			5.0 U	5.0 U			
Hexachlorobutadiene	5.0			5.0 U	5.0 U			
Hexachlorocyclopentadiene	5.0			5.0 U	5.0 U			
2-Chloronaphthalene	5.0			5.0 U	5.0 U			
Dimethyl phthalate	5.0			5.0 U	5.0 U			
Acenaphthylene	5.0			5.0 U	5.0 U			
Acenaphthene	5.0			5.0 U	5.0 U			
2,4-Dinitrotoluene	5.0			5.0 U	5.0 U			
2,6-Dinitrotoluene	5.0			5.0 U	5.0 U			
Diethyl phthalate	5.0			5.0 U	5.0 U			
4-Chlorophenyl-phenyl-ether	5.0			5.0 U	5.0 U			
Fluorene	5.0			5.0 U	5.0 U			
1,2-Diphenylhydrazine	5.0			5.0 U	5.0 U			
N-Nitrosodiphenylamine	5.0			5.0 U	5.0 U			
4-Bromophenyl-phenylether	5.0			5.0 U	5.0 U			
Hexachlorobenzene	5.0			5.0 U	5.0 U			
Phenanthrene	5.0			5.0 U	5.0 U			
Anthracene	5.0			5.0 U	5.0 U			
Di-n-butyl phthalate	5.0			5.0 U	5.0 U			
Fluoranthene	5.0			5.0 U	5.0 U			
Pyrene	5.0			5.0 U	5.0 U			

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job Number: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference
Moog Controls Inc

Received : 06/06/94 P.O. #:

TCL BASE NEUTRALS BY EPA METHOD 8270* ANALYTICAL RESULTS - ug/l

Sample:		-003	-004	-005	-007			
Location:		TRIP BLANK	EQUIPMENT BLANK	MW-2 MOOG	LAB BLANK			
Date Collected:		06/03/94	06/03/94	06/03/94	--			
Time Collected:		NA	13:45	14:30	--			
Date Extracted:				6/07/94	6/07/94			
Date Analyzed:				6/09/94	6/09/94			
Dilution:				1	1			
Butyl benzyl phthalate	5.0			5.0 U	5.0 U			
3,3'-Dichlorobenzidine	5.0			5.0 U	5.0 U			
Benzo(a)anthracene	5.0			5.0 U	5.0 U			
Bis(2-ethylhexyl)phthalate	5.0			16	5.0 U			
Chrysene	5.0			5.0 U	5.0 U			
Di-n-octyl phthalate	5.0			5.0 U	5.0 U			
Benzo(b)Fluoranthene	5.0			5.0 U	5.0 U			
Benzo(k)fluoranthene	5.0			5.0 U	5.0 U			
Benzo(a)pyrene	5.0			5.0 U	5.0 U			
Indeno(1,2,3-cd)pyrene	5.0			5.0 U	5.0 U			
Dibenzo(a,h)anthracene	5.0			5.0 U	5.0 U			
Benzo(g,h,i)perylene	5.0			5.0 U	5.0 U			
4-Chloroaniline	5.0			5.0 U	5.0 U			
2-Methyl Naphthalene	5.0			5.0 U	5.0 U			
2-Nitroaniline	5.0			5.0 U	5.0 U			
3-Nitroaniline	5.0			5.0 U	5.0 U			
Dibenzofuran	5.0			5.0 U	5.0 U			
4-Nitroaniline	5.0			5.0 U	5.0 U			
Carbazole	5.0			5.0 U	5.0 U			
SURROGATE STANDARD RECOVERIES								
Nitrobenzene-d5	35-114%			78	77			
2-Fluorobiphenyl	43-116%			68	69			
Terphenyl-d14	33-141%			31 *	73			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145 NY ID# in Hackensack: 10801

NJ ID# in Rochester: 73331 NJ ID# in Hackensack: 02317

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers, P.C.
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference:
Moog Controls Inc

Received : 06/06/94 P.O. #:

METHOD 310-13 ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-006	-008
Location:		MW-2	MW-4	MW-5	LAB
		MOOG	MOOG	MOOG	BLANK
Date Collected:	----------	06/03/94	06/02/94	06/03/94	--
Time Collected:	PQL	14:10	13:30	15:10	--
Petroleum Hydrocarbons, GC					
Date Extracted:		06/07/94			06/07/94
Date Analyzed:		06/07/94			06/07/94
Dilution:		1			1
as n-Dodecane	2000	2200 U			2000 U

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:
Ms. Lynette Mokry
Blasland & Bouck Engineers,
6723 Towpath Rd., Box 66
Syracuse, NY 13214-0066

Sample(s) Reference:
Moog Controls Inc

Received : 06/06/94 P.O. #:

METHOD 310-13 ANALYTICAL RESULTS - ug/l

Sample:		-003	-004	-005	-007			
Location:		TRIP BLANK	EQUIPMENT BLANK	MW-2 MOOG	LAB BLANK			
Date Collected:	----------	06/03/94	06/03/94	06/03/94	--			
Time Collected:	POL	NA	13:45	14:30	--			
Petroleum Hydrocarbons, GC								
Date Extracted:				06/07/94	06/07/94			
Date Analyzed:				06/07/94	06/07/94			
Dilution:				1	1			
as n-Dodecane	20			790	20 U			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.
NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Penny

Laboratory Director

General Testing Corporation

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/02061 Date: JUNE 16 1994

Client:

Blasland & Bouck Engineers, P.C.

Sample(s) Reference

Moog Controls Inc

Date Received: 06/06/94

Date Sample Taken: 06/02 & 03/94

LABORATORY CHRONICLE
DATE ANALYZED

Sample:	-001	-002	-006					
Location:	MW-2 MOOG	MW-4 MOOG	MW-5 MOOG					
Solids, %	06/08/94	06/08/94	06/08/94					
Total Organic Carbons	06/13/94	06/13/94	06/13/94					

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

Pg. 1 of 2

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. R94/2001

Client Project No. 307.1501

Sample Origination & Shipping Information

Collection Site MOOG Controls

Address East Aurora (Street / City) NY (State) — (Zip)

Collector David L. Greene (Print) (Signature)

Bottles Prepared by GTC — Rec'd by —

Bottles Shipped to Client via — — Seal/Shipping # —

Samples Shipped via — — Seal/Shipping # —

Sample(s) Relinquished by		Received by:		Date/Time
1. Sign	David L. Greene	1. Sign	[illegible]	6/16/94
for	BBTL	for	GTC	0850
2. Sign		2. Sign		/ / :
for		for		
3. Sign		3. Sign		/ / :
for		for		

Sample(s) Received in Laboratory by Tom Hastings 6/16/94 @0850

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	MW-2	~~6/3/94~~ MOOG	S	8010/8020, TPH-GC,		✓		✓	5 # 2's
	001	6/3/94 14:10		TOC/DWPS, TCL 8270					
2	MW-4	MOOG	S	8010/8020,		✓		✓	2 # 2's
	002	6/2/94 13:30		TOC/DWPS					
3	Trip BLK	MOOG	W	VOAs		-		-	2 # 1's
	003	- / - / - -							
4	Equip BLK	MOOG	W	VOAs		-		-	2 # 1's
	004	6/3/94 13:45							
5	MW-2	MOOG	W	8010/8020+...., 8270,		-		-	4 # 3's
	005	6/3/94 14:30		TPH-GC					and 2 # 1's

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes —

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

pg 2 of 2

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. R94/2061
Client Project No. 307.15.01

Sample Origination & Shipping Information

Collection Site MOOG Controls
Address _____ Street _____ City _____ State _____ Zip _____
Collector Daniel L. Greene (Print) Daniel L Greene (Signature)

Bottles Prepared by GTC Rec'd by _____
Bottles Shipped to Client via — Seal/Shipping # _____
Samples Shipped via — Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Daniel L Greene for BBL	1. Sign [illegible] for GTC	6/6/94 8:50
2. Sign	2. Sign	/ / :
for	for	
3. Sign	3. Sign	/ / :
for	for	

Sample(s) Received in Laboratory by Tom Hastings 6/6/94 @ 8:30

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	MW-5 006	MOOG 6/3/94 1510	S	TOC/DWPS		✓		—	1 # 2's
2	~~MW-5~~	MOO 6 6/3/94 17:15	W	8010/8020....		—		—	2 # 1's MW-5 VOC changed to 24hr TAT 6/6 @ 12:40pm as per Lynette notify
3		/ / :							
4		/ / :							
5		/ / :							

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____ (X), _____ (Y).

GENERAL TESTING CORPORATION / CHAIN-OF-CUSTODY RECORD

710 Exchange St. Rochester, NY 14608 | 1201 E. Fayette St. Syracuse, NY 13210 | 85 Trinity Place Hackensack, NJ 07601 | 435 Lawrence Bell Dr. Amherst, NY 14221-7077

GTC Job. No. 307.15.01

Client Project No. —

Sample Origination & Shipping Information

Collection Site MOOG Controls

Address East Aurora (Street) (City) NY (State) (Zip)

Collector DAVID L. Greene (Print) David L Greene (Signature)

Bottles Prepared by GTC | Rec'd by

Bottles Shipped to Client via — | Seal/Shipping #

Samples Shipped via — | Seal/Shipping #

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign David L Greene	1. Sign	6/1/94
for BB+L	for GTC	8:30
2. Sign	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by ____ / / @ :

	Client I.D. # / Lab #	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)
1	mw-2	~~6/3/94~~ MOOG	S	8010/8020, TPH-GC,		✓		✓	5 # 2's
		6/3/94 : 1410		TOC/DWPS, TCL 8270					
2	mw-4	MOOG	S	8010/8020,		✓		✓	2 # 2's
		6/2/94 : 13:30		TOC/DWPS					
3	Trip Blk	MOOG	W	VOAs		-		-	2 # 1's
		- / - / - : -							
4	Equip Blk	MOOG	W	VOAs		-		-	2 # 1's
		6/3/94 : 13:45							
5	mw-2	MOOG	W	8010/8020+..., 8270,		-		-	4 # 3's
		6/3/94 : 14:30		TPH-GC					and 2 # 1's

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each											

Additional Analytes ____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), ____(X), ____(Y).

APPENDIX C

In-situ Hydraulic Conductivity Test Results

Project: Moog Controls
Project No.: 307.15
Well No.: MW-3
Test Date: June 3,1994
Formation Tested: Overburden
Rising (R) or Falling Head (F): R Test 2

			(cm)
Reference Stickup (ft)	2.2		67.06
Static water depth from stickup (ft)	6.20		188.98
Depth to bottom of screen from ground level (ft)	9.7		295.66
Boring Diameter (in)	8.3		20.96
Riser Diameter (in)	2.0		5.08
Screen Diameter (in)	2.0		5.08
Screen Length (ft)	7.00		213.36
Depth to Boundary	8		243.84
Delta H at Time 0 (ft)	0.31		9.45
Delta H at Time t (ft)	0.05		1.52
Time t (seconds)	109		
Assumed Kh/Kv Ratio	100		
Porosity of Filter Pack	0.3		
	gpd/ft2		cm/sec
K, (Bouwer-Rice)	80.3		3.8E-03
K, (Hvorslev Time Lag)	33.9		1.6E-03
K, (Hvorslev Variable Head)	33.7		1.6E-03

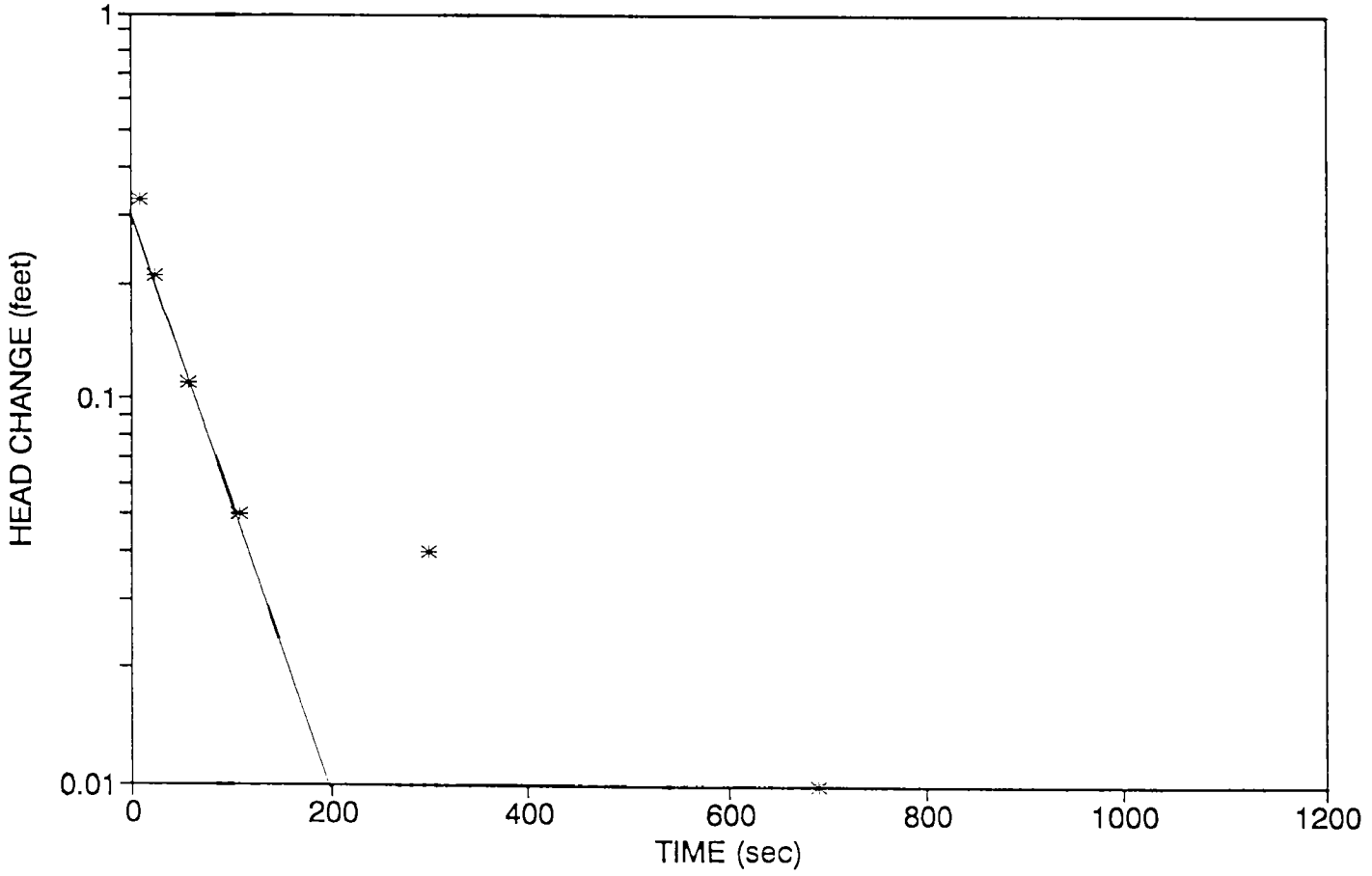
SLUG TEST DATA REDUCTION

Well: MW-3
Date: June 3, 1994
Project: Moog Controls
Rising (R) or Falling (F) Head: R (Test 2)
Bailer/Slug Dimensions: (1) 3.0' LONG, 0.2' O.D. BAILER

Initial Depth to water (ft): 6.20
Initial Time (seconds): 0.00

Clock Time			Depth to water		Elapsed Time in Seconds	Head Change in feet	Head Change in cm.
HR	MN	Sec	FT	IN			
0	0	0	6.20		0.00	0.00	0.00
0	0	9	6.53		9.00	0.33	10.03
0	0	25	6.41		25.00	0.21	6.38
0	0	58	6.31		58.00	0.11	3.34
0	1	49	6.25		109.00	0.05	1.52
0	4	59	6.24		299.00	0.04	1.22
0	11	30	6.21		690.00	0.01	0.30
0	18	7	6.20		1087.00	0.00	0.00

MOOG CONTROLS
MW-3 RISING HEAD TEST 2



Project: Moog Controls
Project No.: 307.15
Well No.: MW-3
Test Date: June 3,1994
Formation Tested: Overburden
Rising (R) or Falling Head (F): R Test 1

		(cm)
Reference Stickup (ft)	2.2	67.06
Static water depth from stickup (ft)	6.21	189.28
Depth to bottom of screen from ground level (ft)	9.7	295.66
Boring Diameter (in)	8.3	20.96
Riser Diameter (in)	2.0	5.08
Screen Diameter (in)	2.0	5.08
Screen Length (ft)	7.00	213.36
Depth to Boundary	8	243.84
Delta H at Time 0 (ft)	0.40	12.19
Delta H at Time t (ft)	0.09	2.74
Time t (seconds)	67	
Assumed Kh/Kv Ratio	100	
Porosity of Filter Pack	0.3	
	gpd/ft2	cm/sec
K, (Bouwer-Rice)	107.0	5.0E-03
K, (Hvorslev Time Lag)	45.1	2.1E-03
K, (Hvorslev Variable Head)	44.9	2.1E-03

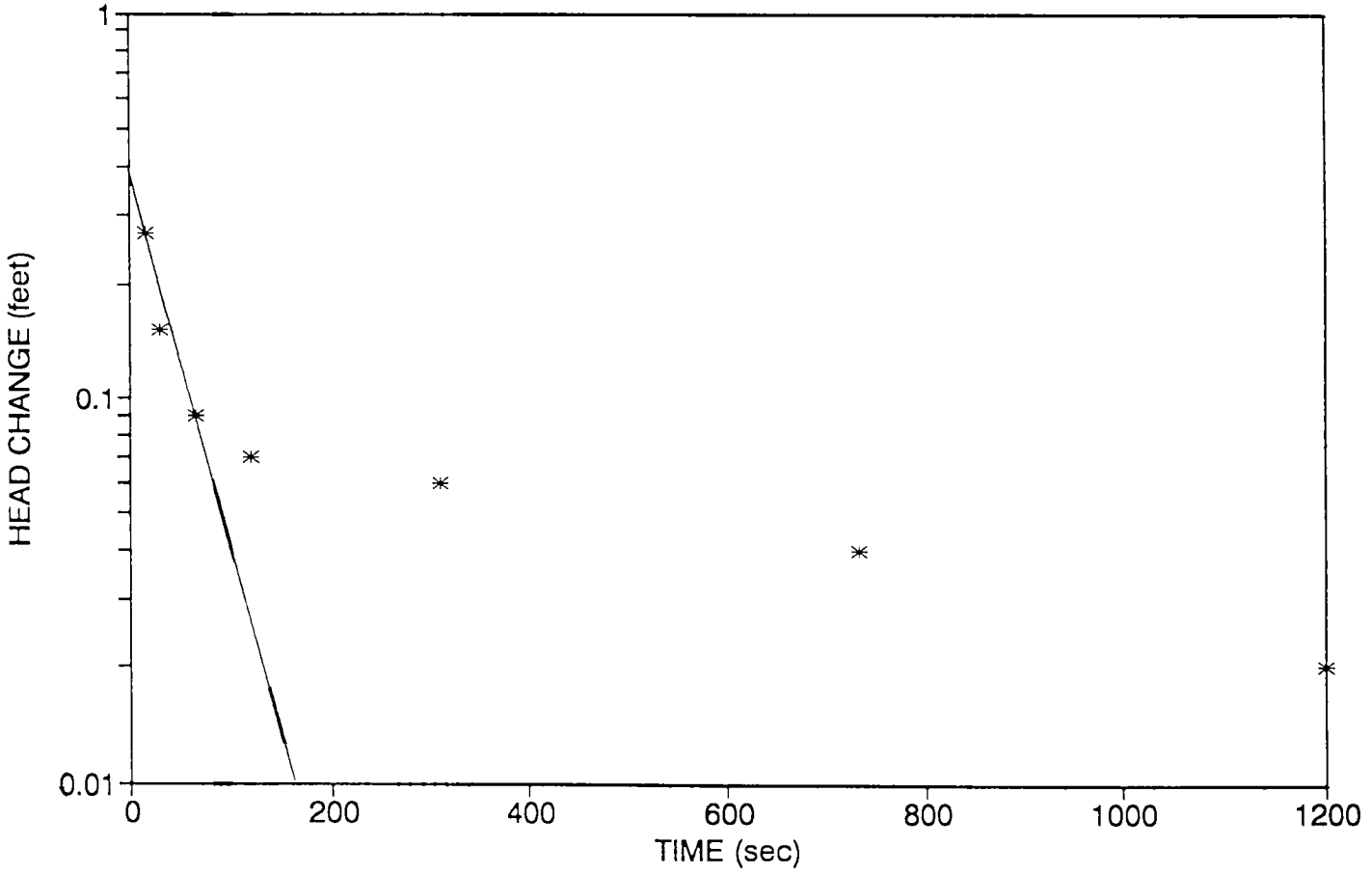
SLUG TEST DATA REDUCTION

Well: MW-3
Date: June 3, 1994
Project: Moog Controls
Rising (R) or Falling (F) Head: R (Test 1)
Bailer/Slug Dimensions: (1) 3.0' LONG, 0.2' O.D. BAILER

Initial Depth to water (ft): 6.21
Initial Time (seconds): 0.00

Clock Time			Depth to water		Elapsed Time in Seconds	Head Change in feet	Head Change in cm.
HR	MN	Sec	FT	IN			
0	0	0	6.21		0.00	0.00	0.00
0	0	17	6.48		17.00	0.27	8.20
0	0	30	6.36		30.00	0.15	4.56
0	1	7	6.30		67.00	0.09	2.73
0	2	0	6.28		120.00	0.07	2.13
0	5	9	6.27		309.00	0.06	1.82
0	12	12	6.25		732.00	0.04	1.22
0	20	0	6.23		1200.00	0.02	0.61

MOOG CONTROLS
MW-3 RISING HEAD TEST 1



Project: Moog Controls
Project No.: 307.15
Well No.: MW-4
Test Date: June 3,1994
Formation Tested: Overburden
Rising (R) or Falling Head (F): R Test 1

			(cm)
Reference Stickup (ft)	2.2		67.06
Static water depth from stickup (ft)	8.20		249.94
Depth to bottom of screen from ground level (ft)	13.4		408.43
Boring Diameter (in)	8.3		20.96
Riser Diameter (in)	2.0		5.08
Screen Diameter (in)	2.0		5.08
Screen Length (ft)	7.10		216.41
Depth to Boundary	8		243.84
Delta H at Time 0 (ft)	0.49		14.94
Delta H at Time t (ft)	0.12		3.66
Time t (seconds)	19		
Assumed Kh/Kv Ratio	100		
Porosity of Filter Pack	0.3		
	gpd/ft2		cm/sec
K, (Bouwer-Rice)	53.7		2.5E-03
K, (Hvorslev Time Lag)	125.5		5.9E-03
K, (Hvorslev Variable Head)	124.8		5.9E-03

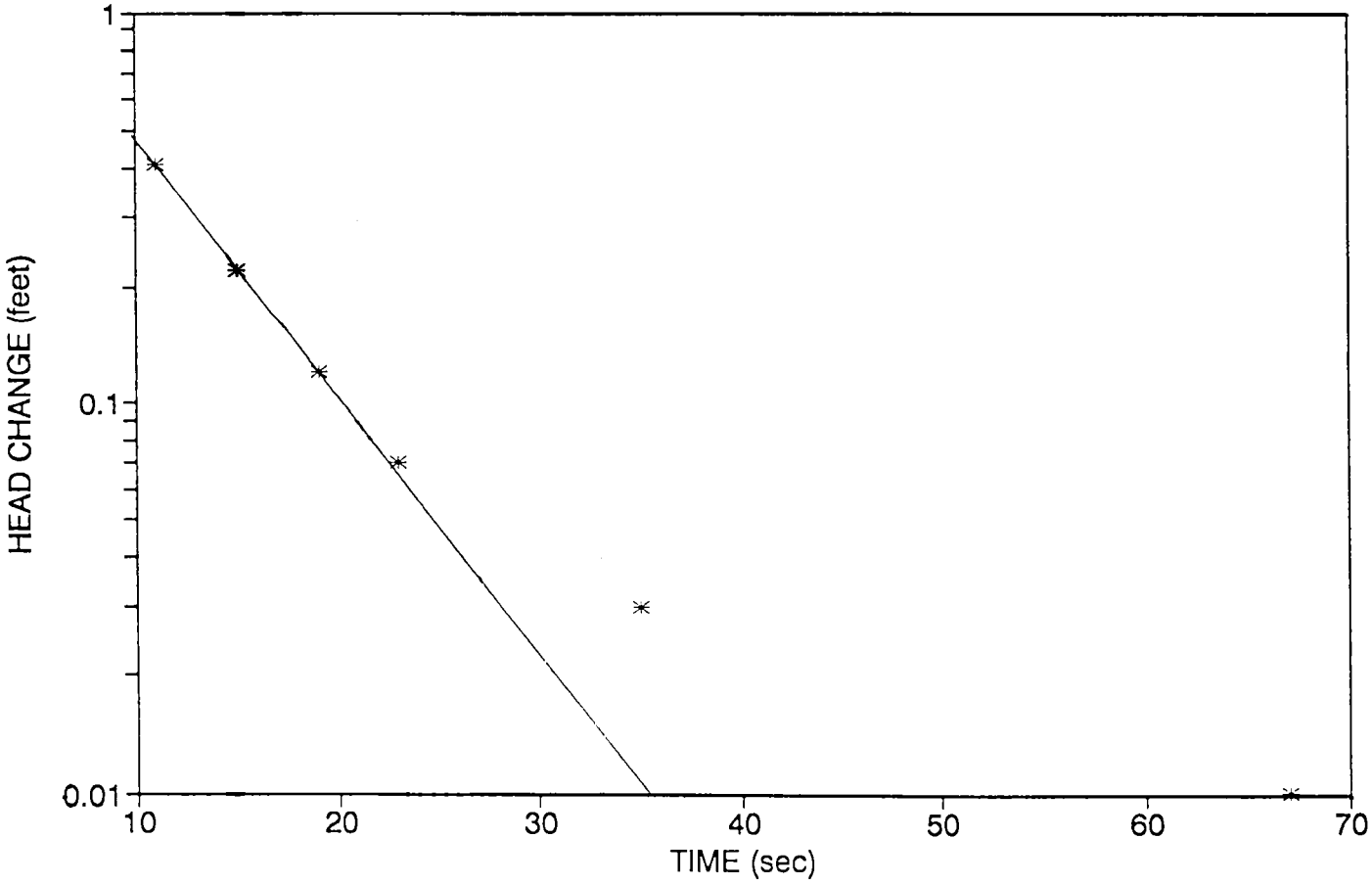
SLUG TEST DATA REDUCTION

Well: MW-4
Date: June 3, 1994
Project: Moog Controls
Rising (R) or Falling (F) Head: R (Test 1)
Bailer/Slug Dimensions: (1) 3.0' LONG, 0.2' O.D. BAILER

Initial Depth to water (ft): 8.20
Initial Time (seconds): 0.00

Clock Time			Depth to water		Elapsed Time in Seconds	Head Change in feet	Head Change in cm.
HR	MN	Sec	FT	IN			
0	0	0	8.20		0.00	0.00	0.00
0	0	11	8.61		11.00	0.41	12.46
0	0	15	8.42		15.00	0.22	6.68
0	0	19	8.32		19.00	0.12	3.65
0	0	23	8.27		23.00	0.07	2.13
0	0	35	8.23		35.00	0.03	0.91
0	1	7	8.21		67.00	0.01	0.30
0	1	49	8.20		109.00	0.00	0.00

MOOG CONTROLS
MW-4 RISING HEAD TEST 1



Project: Moog Controls
Project No.: 307.15
Well No.: MW-4
Test Date: June 3,1994
Formation Tested: Overburden
Rising (R) or Falling Head (F): R Test 2

			(cm)
Reference Stickup (ft)	2.2		67.06
Static water depth from stickup (ft)	8.20		249.94
Depth to bottom of screen from ground level (ft)	13.4		408.43
Boring Diameter (in)	8.3		20.96
Riser Diameter (in)	2.0		5.08
Screen Diameter (in)	2.0		5.08
Screen Length (ft)	7.10		216.41
Depth to Boundary	8		243.84
Delta H at Time 0 (ft)	0.50		15.24
Delta H at Time t (ft)	0.10		3.05
Time t (seconds)	42		
Assumed Kh/Kv Ratio	100		
Porosity of Filter Pack	0.3		
	gpd/ft2		cm/sec
K, (Bouwer-Rice)	27.8		1.3E-03
K, (Hvorslev Time Lag)	64.9		3.1E-03
K, (Hvorslev Variable Head)	64.6		3.0E-03

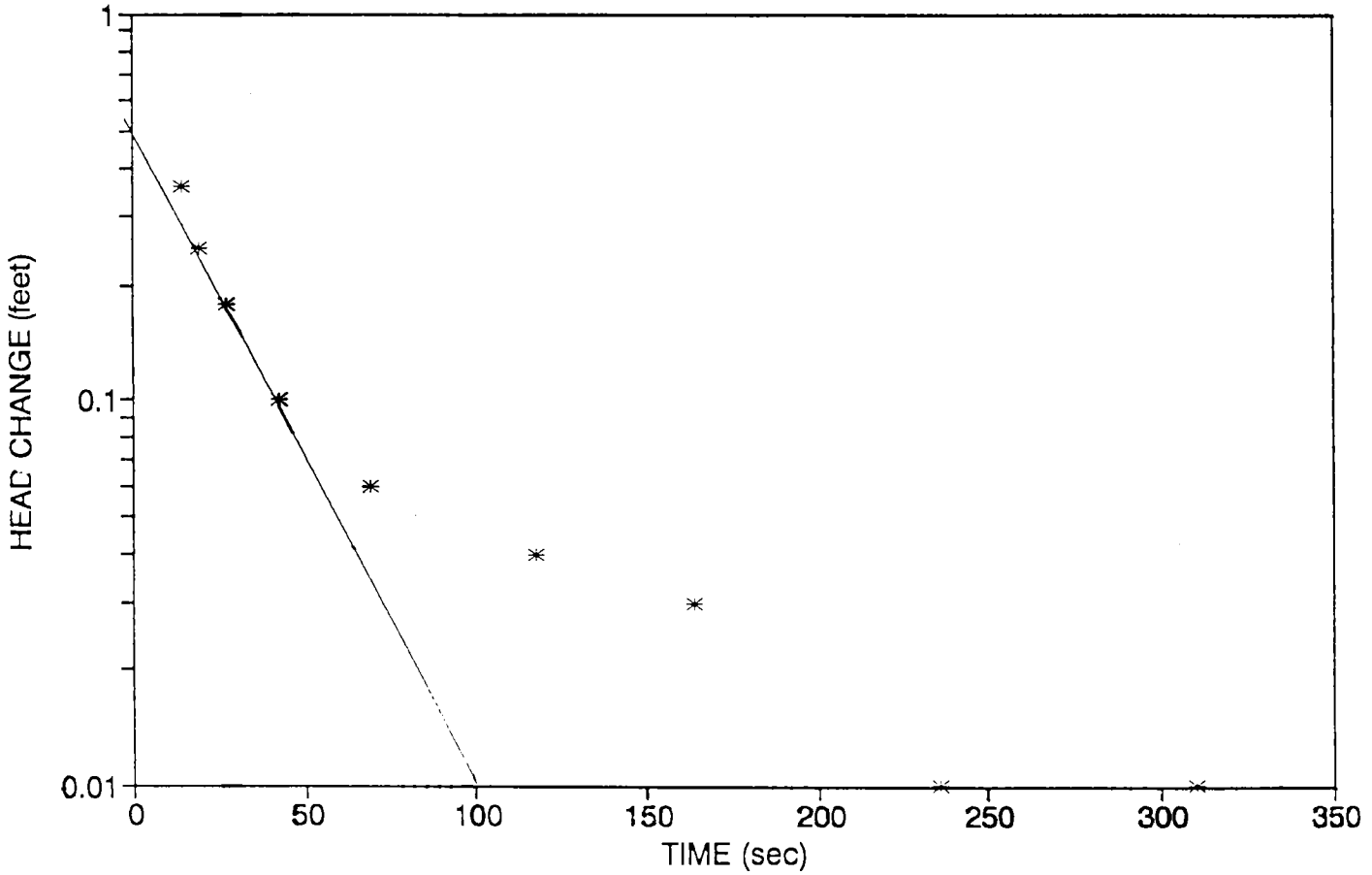
SLUG TEST DATA REDUCTION

Well: MW-4
Date: June 3, 1994
Project: Moog Controls
Rising (R) or Falling (F) Head: R (Test 2)
Bailer/Slug Dimensions: (1) 3.0' LONG, 0.2' O.D. BAILER

Initial Depth to water (ft): 8.20
Initial Time (seconds): 0.00

Clock Time			Depth to water		Elapsed Time in	Head Change	Head Change
HR	MN	Sec	FT	IN	Seconds	in feet	in cm.
0	0	0	8.20		0.00	0.00	0.00
0	0	14	8.56		14.00	0.36	10.94
0	0	19	8.45		19.00	0.25	7.60
0	0	27	8.38		27.00	0.18	5.47
0	0	42	8.30		42.00	0.10	3.04
0	1	9	8.26		69.00	0.06	1.82
0	1	58	8.24		118.00	0.04	1.22
0	2	44	8.23		164.00	0.03	0.91
0	3	56	8.21		236.00	0.01	0.30
0	5	10	8.21		310.00	0.01	0.30

MOOG CONTROLS
MW-4 RISING HEAD TEST 2



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