

**Environmental Investigation
770 Main Street and 1111 Old Country Road
Westbury, New York**

April 1996

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**Chapter 1
EXECUTIVE SUMMARY**

1.1 Executive Summary

The NYS Department of Environmental Conservation (NYSDEC) has been performing environmental investigations in the New Cassel Industrial Area since 1991. During those investigations, the NYSDEC-designated contractor, Lawler, Matusky and Skelly Engineers (LMS), collected and analyzed 168 soil samples and 229 groundwater samples. In addition, the October and November 1995 investigation included a ground penetrating radar (GPR) survey, facility inspections and groundwater sampling and analysis for volatile organic compounds. Based on these investigations, additional potentially responsible parties will be identified by the NYSDEC.

In 1992, Anson Environmental Ltd. (AEL) performed an environmental investigation at 770 Main Street and 1111 Old Country Road. Based on the submission, the property was removed from the NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites.

Anson Environmental Ltd. (AEL) was retained by the owner of 770 Main Street and 1111 Old Country Road in Westbury to perform a further environmental investigation which was designed to address the findings of the NYSDEC's October and November 1995 investigation. In that investigation, the NYSDEC identified two anomalies with the GPR. AEL located one additional anomaly using GPR and determined it was a former leaching pool. Analysis by the portable gas chromatograph of the nine soil gas samples contained very low concentrations of volatile organic compounds at levels which are not detectable in the laboratory setting.

Anomaly #1 was located on the north side of the 770 building near the loading dock for the warehouse building and was determined to be void space underground with some fill added to the area. The soil gas collected from this anomaly identified low concentrations of tetrachloroethylene

and toluene. A soil sample (SB #1 14-17') was collected from 14 to 17 feet below grade and submitted for analysis via EPA method 8240. No volatile organic compounds were detected above the method detection limits.

Anomaly #2 was located on the northeast side of the building and was determined to be an abandoned cesspool. The soil gas samples collected from three depths in this anomaly contained very low concentrations of tetrachloroethylene, at levels which would not be detectable in a laboratory. One soil sample was submitted for laboratory analysis to confirm the gas chromatograph results; there were no volatile organic compounds detected above the method detection limits.

Anomaly #3 is located on the southwest corner of the 770 building and was determined to be an area with clean fill. Soil gas samples collected at depths of 10,15 and 20 feet below grade did not contain volatile organic compounds at detectable levels. Therefore, no samples were submitted for laboratory analysis.

In addition, the sediment in five on-site drywells was sampled and analyzed using the portable gas chromatograph. There were no volatile organic compounds detected in the samples.

Based on the findings of our soil sampling, no volatile organic compound contamination was identified in the three areas identified as being anomalies.

The property has never had hazardous chemical compounds used or stored on it. The 770 building has been used as a baby/juvenile furniture warehouse. The 1111 building is used as the retail showroom and sales floor for the baby/juvenile furniture and toy business.

In summary, the property located at 770 Main Street and 1111 Old Country Road, Westbury, New York should continue in its delisted status and not be designated an Inactive Hazardous Waste Disposal site.

Chapter 2 OBJECTIVES

2.1 Statement of Objectives

This investigation was conducted in order to further delineate the anomalous areas as identified by the contractor for NYSDEC. Soil gas, drywell sediment and soil sampling were conducted as an integral part in the identification of the characteristics of the subsurface conditions.

Chapter 3

PREVIOUS STUDIES AND AGENCY FILE REVIEWS

3.1 SITE INVESTIGATION

3.1.1 Overview and Objectives

In 1985 the Nassau County Department of Health (NCDH) identified NCIA as a major source of groundwater contamination (NCDH 1986). As a result of this investigation in 1988 NYSDEC classified the entire industrial area as a hazardous waste site (Class 2).

A series of investigations were conducted by the NYSDEC and private organizations between 1989 and 1995 throughout the New Cassel Industrial Area.

In March 1996, Anson Environmental Ltd. was contracted to conduct a site investigation for 770 Main Street/1111 Old Country Road, Westbury, New York. The objectives of this investigation included location of any possible sources of the contaminants on site and redefining the site according to any field measured contamination. As part of this site investigation a number of tasks were completed, including an agency file review, ground penetrating radar study, soil gas sampling and soil sampling. The chemical analyses were conducted during the soil gas and soil sampling events.

3.1.2 Phase I

The first phase of the site investigation involved a file review to collect necessary background information regarding the site. Data regarding current and former uses, chemical use records, and regulatory information for both of the properties were assembled and compiled into a database.

3.1.3 Phase II

Analysis of the Phase I site investigation data indicated that groundwater contamination existed beneath the site area. To determine whether the contaminant plume under the site is the result of on-site sources, soil gas and soil samples were completed, and the bottom sediment of the on-site drywells were sampled.

This phase also included the use of ground penetrating radar (GPR) to determine the placement of the soil gas points and soil borings. At each of the soil gas and soil boring locations the samples were collected at several discrete depth intervals to provide a vertical distribution of any contaminants. Each of the drywell, soil and soil gas samples collected were analyzed in an on-site mobile laboratory.

3.1.4 Results

Data generated from the sampling and analysis during Phase I and Phase II of the site investigation were used to confirm the prior segregation of the site from the Block 328 plume.

3.2 AGENCY FILE REVIEW

3.2.1 Site Usage Database

During the site investigation conducted at NCIA by LMS, a site usage database was compiled from the existing agency files and records. This information was implemented for 770 Main Street/1111 Old Country Road. The intent of this database was to compile in one location all the pertinent information found in various agency files regarding the industrial area. Records from the Town of North Hempstead Tax Assessor Office, fire department, library, and public works department were reviewed and copied. All NCDH files pertinent to the industrial area were also copied.

The resultant database covered 770 Main Street. It contained tax block numbers, current uses, prior uses, chemical usage, and any past sampling results (LMS 1993, 1995).

3.3 PREVIOUS INVESTIGATIONS AND REPORTS

3.3.1 1993

In 1993, LMS collected soil samples as part of the subsurface investigation. Soil samples were collected at SGP-97 which is located between 770 Main Street and 1111 Old Country Road. The sample results were reported in parts per billion. The only chlorinated hydrocarbon

identified was 0.5 ppb PCE at 50-52 feet below grade. The soil sample collected at 25-27 feet detected only 3.7 ppb of m+p-xylene. Both of the compounds detected are well below the NYSDEC cleanup guidance values (TAGM, 1994) of 1400 ppb PCE and 1200 ppb of xylenes respectively.

3.3.2 1995

During the 1995 investigation by LMS, soil sampling was conducted on this property via Geoprobe at SGP-125. The following compounds were detected at the shallow depths:

9-12 feet	5.7 ppb	total xylenes
15-17 feet	106 ppb	total xylenes
	16 ppb	ethylbenzene
	70 ppb	PCE
17-19 feet	390 ppb	PCE

Chapter 4 FIELD INVESTIGATIONS

4.1 Facility Inspections

4.1.1 770 Main Street

The building on this site occupies 9,746 square feet. The balance of the property is paved. The building at 770 Main Street is used to store juvenile furniture, toys and accessories for the retail operation located at 1111 Old Country Road. A record search indicates that this building has been leased to Coronet Warehouse Outlet, Inc. since July 1968. There is a tunnel walkway which was constructed to move the retail goods from the warehouse to showroom.

There is office space on the west side of the building. There are also restroom facilities along this west side. The floor tile is 12 inch by 12 inch suspect asbestos containing vinyl tile. The tile floor is in good condition and is non-friable.

The facility is heated with natural gas using space heaters suspended from the ceilings. The duct work is uninsulated. There was no suspect asbestos containing pipe insulation observed throughout the facility. The facility is sprinklered for fire protection.

The warehouse portion has a concrete floor with a gypsum panelled roof. There were no floor drains observed in the building. The bathrooms and snack bar area in the rear of the facility have concrete floor with no tile.

The building is serviced by Nassau County sewers; 770 Main Street is connected to sewers along Main Street. There are no active cesspools located onsite.

No hazardous materials are used or stored on site.

4.2 Ground Penetrating Radar

Ground penetrating radar was used to survey the site utilizing a SIR-3 Control Unit and a 300 megahertz antenna. The radar can penetrate 20-30 feet below grade and will identify anomalous subsurface conditions. This

radar was used to confirm the structure/location/composition of the anomalous areas identified by LMS in the 1995 investigation.

4.3 In-field Portable Gas Chromatography Screening and Confirmatory Laboratory Analysis

4.3.1 Soil Quality

Soil contamination was examined quantitatively by means of soil vapor sampling and analysis combined with the confirmatory soil sampling and analysis. Sampling points for soil vapor analysis are indicated in Figure 3.

4.3.2 Soil Vapor Sampling Procedures

The soil-vapor apparatus is comprised of a hollow probe with a retractable tip, a vapor transfer tube, a vacuum pump, and a number of sample collection devices including an in-line septum for syringes and a vacuum chamber for collection of vapor ion Tedlar bags. The probe consists of 3/4-inch outer diameter hardened steel tubes in 3 foot extensions.

The probe was installed using manual or hydraulic means to drive the probe into the soil to the desired sampling depth. Teflon tubing ran through the hollow probe into the soil to the desired sampling depth. Once the probe was installed at the desired sampling depth, the probe tip was opened and soil vapor was drawn through the probe by a vacuum pump. The pump was connected directly in line with the tubing or a vacuum chamber was used to inflate a Tedlar air sampling bag.

Soil-vapor was evacuated at each sample location at a flow rate of approximately 2 liters/minute. Each sample point was purged for approximately 1 minute. A syringe was used to extract samples directly from the system via an in-line septum attachment located upstream from the pump. Teflon air sampling bags may also be used to temporarily contain soil-vapor prior to analysis.

4.3.3 In field analysis

Soil-vapor samples were analyzed in the field using a Photovac 10S50 Portable Gas Chromatograph. The 10S50 was capable of providing

qualitative and precise quantitative information on the presence of volatile organic compounds (VOC's) in soil vapor. Detection limits vary for different compounds, but for many VOC's they are as low as 10 ppb.

The 10S50 used a highly sensitive PID whose output was monitored by a built-in computer which had standard calibration information stored in its memory. The detector output produced a chromatogram representing the volatile constituents of the sample. The chromatogram displayed a series of peaks representing each volatile chemical with the area under the peak proportional to the concentration of that chemical.

Between injections, syringe cleaning was performed by allowing the syringe to air out and then purging it immediately before it was re-used. If a syringe became contaminated, it was taken out of service, decontaminated with methanol, air dried and tested for cleanliness with a syringe blank.

4.3.4 Soil Sample Collection

Soil samples were collected at five foot intervals near the most highly contaminated soil vapor sampling locations. Sampling was performed using a Geoprobe unit using solid large bore samplers lined with disposal acetate liners. The large bore sampler was used to drill down approximately two feet above where a sample was taken. A sampler was withdrawn, and the sample removed from the acetate liner.

The soil samples were placed in 4-oz. amber jars for transport to the laboratory, with appropriate preservatives as specified in the EPA protocol for each analysis, and in accordance with the quality control procedures. After samples have been removed, boreholes were backfilled with native soils and all holes in asphalt or concrete were patched.

4.3.5 Confirmatory Laboratory Analysis

Selected soil samples collected from the most contaminated depth in each borehole were sent to a laboratory for analysis. The specific analysis performed corresponded to the EPA method best suited to detect compounds identified in the previous analytical protocols formulated for this very site by regulatory agencies.

The confirmatory analytical results were compared with the in-field results to provide correlation between soil and soil vapor contamination. If a correlation was established, soil vapor would be relied upon for delineating the extent of contamination of the soil.

The 10S50 was calibrated using prepared standards of stable, low concentration calibration gases. The following compounds were programmed into the 10S50's computer library prior to analysis:

- Ethylbenzene
- Dichloroethylene (DCE)
- Tetrachloroethylene (PCE)
- Toluene
- 1,1,1-Trichloroethane (TCA)
- Trichloroethene (TCE)
- Vinyl Chloride

Most of these compounds were previously found in high concentrations in the groundwater passing beneath the New Cassel area. It is expected that these compounds will continue to be the most significant indicators of contamination at the New Cassel area. Other compounds were detected in lower concentrations than those above, and are therefore expected to be more difficult to detect.

Soil vapor sampling and analysis were performed in accordance with the Quality Assurance/Quality Control Program. To prevent cross-contamination of soil-vapor samples, the following additional precautions were taken:

- probe tips were decontaminated;
- new teflon tubing was used for each sampling location;
- the system was purged prior to sampling to remove extraneous air;
- sample bags and syringes were decontaminated by flushing them with ambient air or, if necessary, ultrapure air.

In addition to the above, instrument blanks were used to demonstrate that the GC was free from contamination. Syringes were monitored for contamination by running syringe blanks using ambient air as the injectant. These procedures were used at startup, after highly

contaminated samples had been analyzed, or on a periodic basis as to the cleanliness of the instrument or syringes.

At least one field blank was analyzed to assure that the sampling system had not been contaminated. The field blank consisted of collecting a sample of ambient air through the probe with the probe out of the ground.

Chapter 5 RESULTS

5.1 GROUND-PENETRATING RADAR

5.1.1 770 Main Street

In October 1995, LMS conducted a GPR survey in the corridor between the center of the parking area north of Coronet Furniture (1111 Old Country Road) and the Coronet receiving building/fence (770 Main Street). An anomaly was identified as a possible leaching pool location.

The GPR survey conducted in March 1996 identified the anomaly as fill material.

In addition, a GPR study was conducted of the north side of 770 Main Street. There were two anomalies identified, one between the loading dock and Main Street and to the east in the north parking area. In the loading dock area, the stratigraphy of the subsurface environment slopes downward. A water main with a fire hydrant connection was identified; the shape is not consistent with a former leaching pool location. The second anomaly identified on the north side of 770 Main Street was determined to be a former leaching pool location.

5.2 1996 SOIL PROBE RESULTS

5.2.1 770 Main Street

Soil gas samples were collected in the three anomalies and were screened by the portable GC at levels of sensitivity greater than is required by the State certified laboratory. The peaks which registered on the GC were used to determine the depths for collection of soil samples. The following chart summarizes the findings in the three anomaly areas.

770 Main Street

<u>Sample Type</u>	<u>Anomaly #1</u>	<u>Anomaly #2</u>	<u>Anomaly #3</u>
Soil gas (10')	perc-BDL	toluene, perc-BDL	
Soil gas (15')	perc-BDL	toluene, perc-BDL	perc-BDL
Soil (14-17')		non-detect	
Soil (18-20')			non-detect
Soil gas (20')	perc-BDL	perc-BDL	perc-BDL
Soil gas (25')			perc-BDL

BDL = below detection limits

Soil gas samples were collected in the anomaly identified on the south side of 770 Main Street, near the loading dock area of the receiving building for Coronet Juvenile Furniture. Soil gas samples were collected at 10 feet, 15 feet and 20 feet below grade. The portable gas chromatograph identified one peak in each sample. The compound was tentatively identified as tetrachloroethene. The levels of detection were below laboratory method detection limits.

Soil gas samples were collected in the anomaly area north of the loading dock. The soil gas samples were collected at 10 feet, 15 feet and 20 feet below grade and analyzed using the portable GC. The peaks identified in the sample from 10 feet were toluene and tetrachloroethene. The same compounds were identified at 15 feet and to a lesser extent at 20 feet. All compounds were detected at levels less than the laboratory method detection limits.

A soil sample was collected at 14-17 feet below grade as this depth had been identified with the highest soil gas reading in this location. The actual soil sample was submitted for analysis via EPA Method 8240. There were no volatile organic compounds identified in the laboratory analysis of the sample.

In the second anomaly area identified on the northern side of 770 Main Street, there were three soil gas samples collected at 15 feet, 20 feet and 25 feet below grade respectively. The portable GC identified tetrachloroethene in each sample with the highest level detected in the

sample collected at 20 feet. However, the levels of detection are below the laboratory method detection limits.

A soil sample was collected at 18-20 feet below grade as this depth had been identified with the soil gas survey. The sample was submitted to the laboratory for analysis and there were no volatile organic compounds identified in the sample.

5.4 MONITORING WELL SAMPLING RESULTS

5.4.1 Monitoring Well Sampling Results

The groundwater monitoring well (Anson MW-10) which is downgradient to the subject property was not sampled as part of this investigation.

Chapter 6 CONCLUSIONS

6.1 Soil Contamination

Given the results of the soil sampling conducted by LMS in 1993 and 1995 on the subject property and the soil gas and soil sampling conducted in March 1996, the level of volatile organic compounds identified in the soil is well within the NYSDEC TAGM guidelines for soil cleanup objectives. Given that the samples were collected primarily upgradient of the facility on 770 Main Street (in the northwest corner of the site), it is unlikely that the storage of baby and juvenile furniture in the warehouse contributed to the degradation of the soil as sampled. It does not appear that the level of contamination identified in the soil would contribute to the degradation of the groundwater.

Given the results of the 1993 sampling, groundwater contamination has been identified under the site. The soil sampling throughout the site has not identified a source of the contamination emanating from the property. In fact, the lack of contamination in the groundwater at the 65-85' range in 1995, would lead to the conclusion that the contamination originated offsite.

6.2 Site Usage

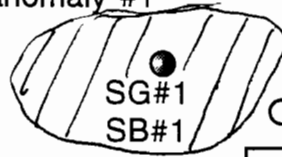
The historic usage of 770 Main Street and 1111 Old Country Road do not include any volatile organic compounds.

In summary, the lack soil and groundwater contamination on site coupled with the historic usage of the site substantiate the recommendation that 770 Main Street and 1111 Old Country Road remain delisted from the NYSDEC listing of Inactive Hazardous Waste Disposal sites.

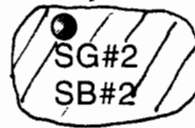
SITE DIAGRAMS

Main Street

anomaly #1



anomaly #2



ODW#1

loading
dock

770 Main Street

anomaly #3



DW#2

DW#3

DW#5

DW#4

**1111 Old
Country Road**

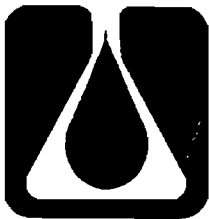
Legend

DW#1 = drywell
SG#1 = soil gas sample
SB#1 = soil boring sent for
laboratory analysis

**Figure 1 Site Diagram
770 Main Street and
1111 Old Country Road
Westbury, NY**

**Anson Environmental Ltd.
not to scale**

LABORATORY RESULTS



Laboratory Resources, Inc.
New Jersey Division

100 Hollister Road
Teterboro, NJ 07608
Telephone: 201-288-3700 Fax: 201-288-5311

ANALYTICAL DATA REPORT

Report Number: T603243

Project: 770 Main Street

prepared for:

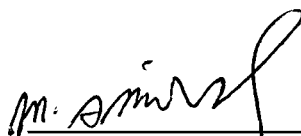
Anson Environmental
33 Gerard St.

Huntington, NY 11743


Attention: Mr. Jeff Bohlen

Receive Date: 03/18/96

Report Date: 03/22/96



Moe R. Amirsoleymani
Quality Assurance Manager



Paul Ioannides
General Manager

New York State Department of Health 11321
New Jersey Department of Environmental Protection and Energy 02046

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB#1(14-17)

Lab Name: LRI Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: T603243-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B3914.D

Level: (low/med) LOW Date Received: 3/18/96

% Moisture: not dec. 4 Date Analyzed: 3/20/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane	10		U
75-01-4	Vinyl Chloride	10		U
74-83-9	Bromomethane	10		U
75-00-3	Chloroethane	10		U
75-35-4	1,1-Dichloroethene	5.2		U
75-15-0	Carbon Disulfide	5.2		U
67-64-1	Acetone	10		U
75-09-2	Methylene Chloride	4.4		JB
156-60-5	trans-1,2-Dichloroethene	5.2		U
75-34-3	1,1-Dichloroethane	5.2		U
67-66-3	Chloroform	5.2		U
107-06-2	1,2-Dichloroethane	5.2		U
108-05-4	Vinyl Acetate	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5.2		U
56-23-5	Carbon Tetrachloride	5.2		U
71-43-2	Benzene	5.2		U
79-01-6	Trichloroethene	5.2		U
78-87-5	1,2-Dichloropropane	5.2		U
75-27-4	Bromodichloromethane	5.2		U
110-75-8	2-Chloroethyl vinyl ether	5.2		U
10061-02-6	trans-1,3-Dichloropropene	5.2		U
10061-01-5	cis-1,3-Dichloropropene	5.2		U
79-00-5	1,1,2-Trichloroethane	5.2		U
124-48-1	Dibromochloromethane	5.2		U
75-25-2	Bromoform	5.2		U
108-01-1	4-Methyl-2-Pentanone	10		U
108-88-3	Toluene	5.2		U
127-18-4	Tetrachloroethene	5.2		U
591-78-6	2-Hexanone	10		U
108-90-7	Chlorobenzene	5.2		U
100-41-4	Ethylbenzene	5.2		U
108-38-3	meta + para-Xylenes	5.2		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB#1(14-17)

Lab Name: LRI Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: T603243-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B3914.D

Level: (low/med) LOW Date Received: 3/18/96

% Moisture: not dec. 4 Date Analyzed: 3/20/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	<u>ug/Kg</u>	
95-47-6	ortho-Xylene		5.2	U
100-42-5	Styrene		5.2	U
79-34-5	1,1,2,2-Tetrachloroethane		5.2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB#2(18-20')

Lab Name: LRI Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: T603283-01

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B4002.D

Level: (low/med) LOW Date Received: 3/21/96

% Moisture: not dec. 4 Date Analyzed: 3/25/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane	10		U
75-01-4	Vinyl Chloride	10		U
74-83-9	Bromomethane	10		U
75-00-3	Chloroethane	10		U
75-35-4	1,1-Dichloroethene	5.2		U
75-15-0	Carbon Disulfide	5.2		U
67-64-1	Acetone	10		U
75-09-2	Methylene Chloride	1.4		JB
156-60-5	trans-1,2-Dichloroethene	5.2		U
75-34-3	1,1-Dichloroethane	5.2		U
67-66-3	Chloroform	5.2		U
107-06-2	1,2-Dichloroethane	5.2		U
108-05-4	Vinyl Acetate	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5.2		U
56-23-5	Carbon Tetrachloride	5.2		U
71-43-2	Benzene	5.2		U
79-01-6	Trichloroethene	5.2		U
78-87-5	1,2-Dichloropropane	5.2		U
75-27-4	Bromodichloromethane	5.2		U
110-75-8	2-Chloroethyl vinyl ether	5.2		U
10061-02-6	trans-1,3-Dichloropropene	5.2		U
10061-01-5	cis-1,3-Dichloropropene	5.2		U
79-00-5	1,1,2-Trichloroethane	5.2		U
124-48-1	Dibromochloromethane	5.2		U
75-25-2	Bromoform	5.2		U
108-01-1	4-Methyl-2-Pentanone	10		U
108-88-3	Toluene	5.2		U
127-18-4	Tetrachloroethene	5.2		U
591-78-6	2-Hexanone	10		U
108-90-7	Chlorobenzene	5.2		U
100-41-4	Ethylbenzene	5.2		U
108-38-3	meta + para-Xylenes	5.2		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB#2(18-20')

Lab Name: LRI Contract: _____
Project No.: _____ Site: _____ Location: _____ Group: _____
Matrix: (soil/water) SOIL Lab Sample ID: T603283-01
Sample wt/vol: 5.000 (g/mL) G Lab File ID: B4002.D
Level: (low/med) LOW Date Received: 3/21/96
% Moisture: not dec. 4 Date Analyzed: 3/25/96
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	<u>ug/Kg</u>	
95-47-6	ortho-Xylene	5.2		U
100-42-5	Styrene	5.2		U
79-34-5	1,1,2,2-Tetrachloroethane	5.2		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK20

Lab Name: LRI Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: VBLK-QB0320

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B3909.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 3/20/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane	10		U
75-01-4	Vinyl Chloride	10		U
74-83-9	Bromomethane	10		U
75-00-3	Chloroethane	10		U
75-35-4	1,1-Dichloroethene	5		U
75-15-0	Carbon Disulfide	5		U
67-64-1	Acetone	10		U
75-09-2	Methylene Chloride	4.5		J
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-3	1,1-Dichloroethane	5		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
108-05-4	Vinyl Acetate	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
71-43-2	Benzene	5		U
79-01-6	Trichloroethene	5		U
78-87-5	1,2-Dichloropropane	5		U
75-27-4	Bromodichloromethane	5		U
110-75-8	2-Chloroethyl vinyl ether	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
124-48-1	Dibromochloromethane	5		U
75-25-2	Bromoform	5		U
108-01-1	4-Methyl-2-Pentanone	10		U
108-88-3	Toluene	5		U
127-18-4	Tetrachloroethene	5		U
591-78-6	2-Hexanone	10		U
108-90-7	Chlorobenzene	5		U
100-41-4	Ethylbenzene	5		U
108-38-3	meta + para-Xylenes	5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK20

Lab Name: LRI Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: VBLK-QB0320

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B3909.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 3/20/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
(ug/L or ug/Kg) ug/Kg Q

CAS No.	Compound	ug/Kg	Q
95-47-6	ortho-Xylene	5	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK25

Lab Name: LRI Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: VBLK-QB0325

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B3996.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 3/25/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/Kg</u>	Q
74-87-3	Chloromethane	10		U
75-01-4	Vinyl Chloride	10		U
74-83-9	Bromomethane	10		U
75-00-3	Chloroethane	10		U
75-35-4	1,1-Dichloroethene	5		U
75-15-0	Carbon Disulfide	5		U
67-64-1	Acetone	10		U
75-09-2	Methylene Chloride	2.2		J
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-3	1,1-Dichloroethane	5		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
108-05-4	Vinyl Acetate	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
71-43-2	Benzene	5		U
79-01-6	Trichloroethene	5		U
78-87-5	1,2-Dichloropropane	5		U
75-27-4	Bromodichloromethane	5		U
110-75-8	2-Chloroethyl vinyl ether	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
124-48-1	Dibromochloromethane	5		U
75-25-2	Bromoform	5		U
108-01-1	4-Methyl-2-Pentanone	10		U
108-88-3	Toluene	5		U
127-18-4	Tetrachloroethene	5		U
591-78-6	2-Hexanone	10		U
108-90-7	Chlorobenzene	5		U
100-41-4	Ethylbenzene	5		U
108-38-3	meta + para-Xylenes	5		U

TABLE OF ABBREVIATIONS

ORGANIC QUALIFIERS

B= Compound also detected in method blank
J= Below method detection limit
E= Exceeds calibration range
D= Dilution performed
U= Undetected
RE= Re-analysis performed

INORGANIC QUALIFIERS

EC= Estimated count
TNTC= Too numerous to count
QL= Quantitation limit
U= Undetected
S= Result quantitated by Method of Standard Additions
*= Duplicate analysis outside of required quality control
limits
N= Matrix spike recovery outside of required quality control
limits
ND= Not determinable
T= True Color
A= Apparent Color

CUSTOMER INFORMATION
 CUSTOMER: Anson Environmental
 ADDRESS: 33 Grand St.
Huntington, N.Y. 11743
 TELEPHONE: 516-351-3555
 FAX: 516-351-3615

PROJECT INFORMATION
 PROJECT: 770 Main St
 PROJECT LOCATION: NCIA STATE: N.Y.
 PROJECT MANAGER: Jeff Bohlen
 IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
 NAME: Jeff Bohlen
 TELEPHONE: SAME
 FAX:

BILLING INFORMATION
 BILL TO: Anson Environmental
 ADDRESS: SAME
 ATTENTION:
 TELEPHONE:
 PO #: 96023

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		SAMPLE MATRIX	# OF BOTTLES	ANALYSIS	PRESERVATIVES					
				COMPOSITE	GRAB				H2SO4	HCL	HNO3	HAOH	NON-PRES	
①	SB#2(18'-20')	3/20			X	soil	1							X

TURNAROUND (INDICATE IN CALENDAR DAYS): 2-DAYS ^{FAX} HARD COPY _____ DELIV. PKG. _____
 NAME OF LAB PERSONNEL CONFIRMING: DAA Gleason
 DELIVERABLES / (CIRCLE ONE): DATA DATA/OC RED/DELIV NJ/CLP I NJ/CLP II
 NJ/REGI NY/ASP CLP OTHER _____
 SAMPLER / AFFILIATION: Jeff Bohlen
 RECEIVED / AFFILIATION: Jeff Bohlen 3/20 11:20
 RELINQUISHED / AFFILIATION: M.P. Murphy 3/21/96
 RECEIVED / AFFILIATION: K. Deegan 12:25
 RELINQUISHED / AFFILIATION: _____

RETURN TO CLIENT FOR DISPOSAL LAB DISPOSAL
 KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)
 YES NO (IF YES EXPLAIN UNDER COMMENTS)
LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:
 COMPLIANT NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)
 COMMENTS _____

TABLE OF ABBREVIATIONS

ORGANIC QUALIFIERS

B= Compound also detected in method blank
J= Below method detection limit
E= Exceeds calibration range
D= Dilution performed
U= Undetected
RE= Re-analysis performed

INORGANIC QUALIFIERS

EC= Estimated count
TNTC= Too numerous to count
QL= Quantitation limit
U= Undetected
S= Result quantitated by Method of Standard Additions
*= Duplicate analysis outside of required quality control
limits
N= Matrix spike recovery outside of required quality control
limits
ND= Not determinable
T= True Color
A= Apparent Color

LRI QUOTE # B502001

Laboratory Resources Inc.
CHAIN OF CUSTODY

PAGE 1 OF 1

QUESTIONS INFORMATION

CUSTOMER: Anson Environmental
 ADDRESS: 33 Gerard st.
Huntington N.Y 11743
 TELEPHONE: 516-351-3555
 FAX: 516-351-3615

QUESTIONS INFORMATION

PROJECT: 770 Main St
 PROJECT LOCATION: Westbury STATE NY
 PROJECT MANAGER: Jeff Bohlen
 IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
 NAME: Jeff Bohlen
 TELEPHONE: _____
 FAX: _____

QUESTIONS INFORMATION

BILL TO: Anson Environmental Ltd.
 ADDRESS: SAME
 ATTENTION: _____
 TELEPHONE: _____
 PO #: 96022

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		SAMPLE MATRIX	# OF BOTTLES	ANALYSIS	PRESERVATIVES								
				COMPOSITE	GRAB				H2SO4	HCL	HNO3	NAOH	NON-PRES				
①	SB# (14'-17')	3/15		X		soil	1										

TURNAROUND (INDICATE IN CALENDAR DAYS): 3 DAY T/A HARD COPY _____ DELIV. PKG. _____
 NAME OF LAB PERSONNEL CONFIRMING: DATA GL
 DELIVERABLES / (CIRCLE ONE) DATA DATA/QC RED/DELIV N/J/CLP I N/J/CLP II
 N/J/REGI N/Y/ASP CLP OTHER _____
 SAMPLER / AFFILIATION: Jeff Bohlen
 RECEIVED / AFFILIATION: Jeff Bohlen
 RELINQUISHED / AFFILIATION: Jeff Bohlen
 RECEIVED / AFFILIATION: AL GL
 RELINQUISHED / AFFILIATION: _____

RETURN TO CLIENT FOR DISPOSAL LAB DISPOSAL
 KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)
 YES NO (IF YES EXPLAIN UNDER COMMENTS)
EXTENSIVE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:
 COMPLIANT NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)
 COMMENTS _____

CHROMATOGRAMS

<p> STOP @ 088.8 SAMPLE LIBRARY 1 NOV 13 1306 14:42 ANALYSIS @ 18 278 TWIN STREET INTERNAL TEMP 23 15 cc min BIN 28 50-3 19FT CONTAINER NAME FEAK R.T. AREA/PTH UNKNOWN 2 139.8 5.2 US </p>	<p> STOP @ 088.8 SAMPLE LIBRARY 1 NOV 13 1306 14:24 ANALYSIS @ 17 278 TWIN STREET INTERNAL TEMP 23 15 cc min BIN 28 50-3 19FT CONTAINER NAME FEAK R.T. AREA/PTH UNKNOWN 2 133.8 9.8 US </p>	<p> STOP @ 088.8 SAMPLE LIBRARY 1 NOV 13 1306 13:18 ANALYSIS @ 16 278 TWIN STREET INTERNAL TEMP 23 15 cc min BIN 28 INST CONTAINER NAME FEAK R.T. AREA/PTH </p>	<p> STOP @ 088.8 SAMPLE LIBRARY 1 NOV 13 1306 13:55 ANALYSIS @ 15 278 TWIN STREET INTERNAL TEMP 23 15 cc min BIN 28 DA-5 CONTAINER NAME FEAK R.T. AREA/PTH </p>
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STOR # 680.0
 SAMPLE LIBRARY 1 MAR 15 1998 13:33
 ANALYSIS # 14 778 MAIN STREET
 INTERNAL TEMP 23 15.00 min
 DRAIN 28 04-4
 CONTROL NAME FEAK R.T. RESA/PTI

STRT

STOR # 680.0
 SAMPLE LIBRARY 1 MAR 15 1998 13:22
 ANALYSIS # 13 778 MAIN STREET
 INTERNAL TEMP 22 15.00 min
 DRAIN 28 58-2 ZSFT
 CONTROL NAME FEAK R.T. RESA/PTI
 UNKNOWN 2 208.4 1.2 US

STRT

STOR # 680.0
 SAMPLE LIBRARY 1 MAR 15 1998 13:11
 ANALYSIS # 12 778 MAIN STREET
 INTERNAL TEMP 22 15.00 min
 DRAIN 28 58-2 ZSFT
 CONTROL NAME FEAK R.T. RESA/PTI
 UNKNOWN 3 75.3 189.1 M/S
 UNKNOWN 0 156.1 28.0 US

STRT

STOR # 680.0
 SAMPLE LIBRARY 1 MAR 15 1998 12:54
 ANALYSIS # 11 778 MAIN STREET
 INTERNAL TEMP 21 15.00 min
 DRAIN 28 58-2 15FT
 CONTROL NAME FEAK R.T. RESA/PTI
 UNKNOWN 4 135.8 9.4 °C

STRT

966 510 x 2

966 510 x 2



STOP @ 600.0
 SAMPLE LIBRARY 1 MAR 15 1990 12:27
 ANALYSIS @ 18 778 MAIN STREET
 INTERNAL TEMP 21 15.00 min
 DRIN 20

CONTROLLED NAME PEAK R.T. ANALYTIC
 UNKNOWN 2 137.0 124.0 MS
 UNKNOWN 3 200.4 11.3 US

SG-1-20

F.H. Lybarger

SG-1



STOP @ 600.0
 SAMPLE LIBRARY 1 MAR 15 1990 12:15
 ANALYSIS @ 9 778 MAIN STREET
 INTERNAL TEMP 21 15.00 min
 DRIN 20

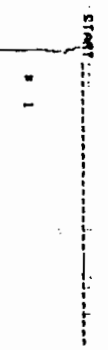
CONTROLLED NAME PEAK R.T. ANALYTIC
 UNKNOWN 2 137.0 124.0 MS
 UNKNOWN 3 200.4 11.3 US



STOP @ 600.0
 SAMPLE LIBRARY 1 MAR 15 1990 11:55
 ANALYSIS @ 8 778 MAIN STREET
 INTERNAL TEMP 21 15.00 min
 DRIN 20

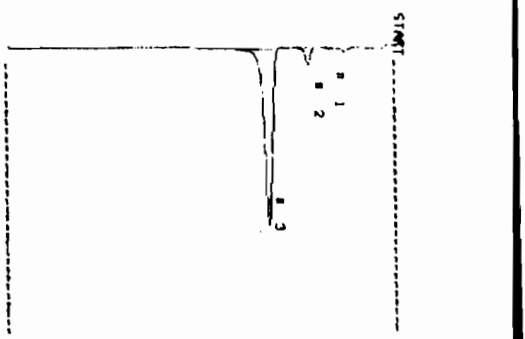
CONTROLLED NAME PEAK R.T. ANALYTIC
 UNKNOWN 1 137.0 218.0 MS
 UNKNOWN 5 136.7 40.3 US

SG-1, 15'



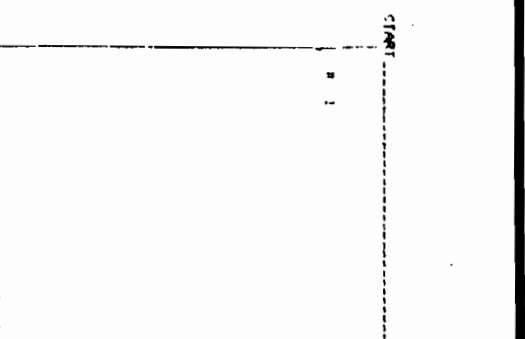
STOP @ 600.0
 SAMPLE LIBRARY 1 MAR 15 1990 11:30
 ANALYSIS @ 7 778 MAIN STREET
 INTERNAL TEMP 21 15.00 min
 DRIN 20

CONTROLLED NAME PEAK R.T. ANALYTIC
 UNKNOWN 1 137.0 218.0 MS
 UNKNOWN 5 136.7 40.3 US



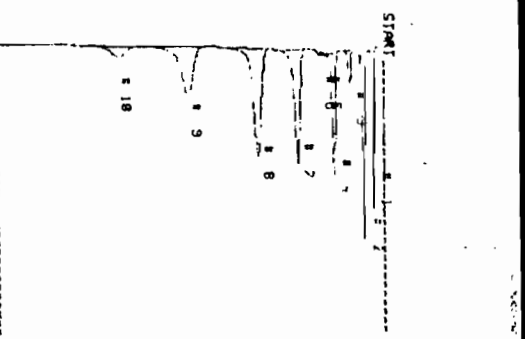
STOP # 600.0
 SAMPLE LIBRARY 1 MAR 15 1996 11:21
 ANALYSIS # 0 720 MAIN STREET
 INTERNAL TEMP 21 15.00 min
 BIN 20 50-1 10FT
 CONTROL NAME FERR R.T. MESA/PTI
 LENGTH 2 132.2 494.5 AUS
 LENGTH 3 130.8 9.1 US

PCE 570X10-1

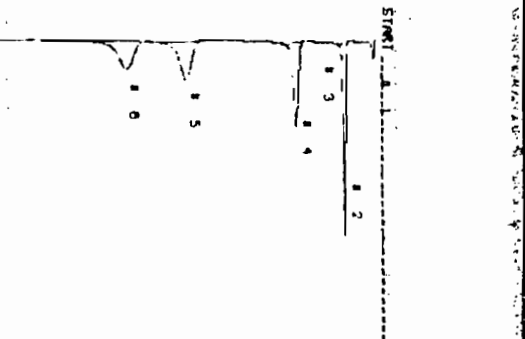


STOP # 600.0
 SAMPLE LIBRARY 1 MAR 15 1996 11: 9
 ANALYSIS # 5 720 MAIN STREET
 INTERNAL TEMP 21 15.00 min
 BIN 20 INST

CONTROL NAME FERR R.T. MESA/PTI



STOP # 600.0
 SAMPLE LIBRARY 1 MAR 15 1996 10:32
 ANALYSIS # 9 720 MAIN STREET
 INTERNAL TEMP 22 15.00 min
 BIN 30 SOLVENT CAL
 CONTROL NAME FERR R.T. MESA/PTI
 LENGTH 1 17.0 1.0 US
 LENGTH 2 37.4 1.0 US
 LENGTH 3 51.2 488.1 AUS
 LENGTH 4 73.6 2.2 US
 LENGTH 5 137.2 2.4 US
 LENGTH 6 130.8 4.8 US
 LENGTH 7 318.7 5.5 US
 LENGTH 8 420.1 501.0 AUS



STOP # 600.0
 SAMPLE LIBRARY 1 MAR 15 1996 10:28
 ANALYSIS # 3 720 MAIN STREET
 INTERNAL TEMP 22 15.00 min
 BIN 20 BTEX CALIBRANT

CONTROL NAME FERR R.T. MESA/PTI

LENGTH 2 60.3 2.5 US
 LENGTH 3 137.2 2.4 US
 LENGTH 4 203.9 2.6 US
 LENGTH 5 494.7 2.5 US

PCE 570X10-1

START

1

STOP @ 0800 #
 SAMPLE LIBRARY 1 MAR 15 1990 10:5
 ANALYSIS # 2 720 MAIN STREET
 INTERNAL TEMP 21 15 cc min
 BAIN 20 STR

CONTROLLING NAME PERK R.I. MELAYTTI

START

2

STOP @ 0800 #
 SAMPLE LIBRARY 1 MAR 15 1990 9:52
 ANALYSIS # 1 720 MAIN STREET
 INTERNAL TEMP 21 15 cc min
 BAIN 20 INST

CONTROLLING NAME PERK R.I. MELAYTTI

PHOTOUAC

START

1
2

STOP @ 600.0
SAMPLE LIBRARY 1 NOV 21 1306 2115
ANALYSIS # 8 228 MAIN STREET
INTERNAL TEMP 22 15.00 MIN
DRIN
CORROLD NAME FEAK R.I. MESA/TTM

PHOTOUAC

START

1

STOP @ 600.0
SAMPLE LIBRARY 1 NOV 21 1306 2123
ANALYSIS # 5 228 MAIN STREET
INTERNAL TEMP 21 15.00 MIN
DRIN
CORROLD NAME FEAK R.I. MESA/TTM

PHOTOUAC

START

1
2
3
4
5
6
7
8

STOP @ 600.0
SAMPLE LIBRARY 1 NOV 21 1306 2194
ANALYSIS # 10 228 MAIN STREET
INTERNAL TEMP 22 15.00 MIN
DRIN
CORROLD NAME FEAK R.I. MESA/TTM

7

PHOTOUAC

START

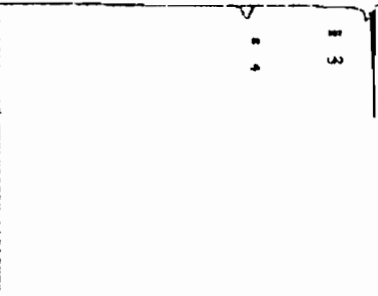
1
2
3
4
5
6
7

STOP @ 600.0
SAMPLE LIBRARY 1 NOV 21 1306 1814
ANALYSIS # 11 228 MAIN STREET
INTERNAL TEMP 22 15.00 MIN
DRIN
CORROLD NAME FEAK R.I. MESA/TTM

LINKOIN 2 66.5 2.3 US
LINKOIN 5 150.8 2.7 US
LINKOIN 8 725.4 2.8 US
LINKOIN 9 722.4 2.5 US

PHOTO 193

START

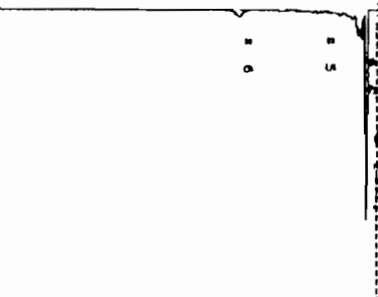


STOP @ 000.8
 SAMPLE LIBRARY 1 106 21 1386 18173
 ANALYSIS # 12 228 MAIN STREET
 INTERNAL TEMP 22 15.00 mV
 OMIN 20 SP-2 18-20

CERTIFIED NAME FEAK R.I. MEN/PTN
 LENGTH 1 18.8 407.2 AUS
 LENGTH 1 229.2 501.5 AUS

PHOTO 194

START



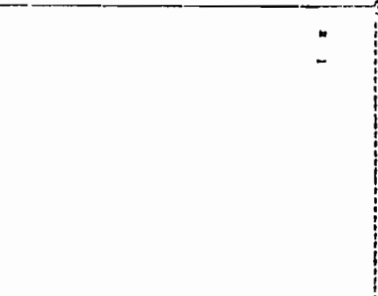
STOP @ 000.8
 SAMPLE LIBRARY 1 106 21 1386 18146
 ANALYSIS # 12 228 MAIN STREET
 INTERNAL TEMP 22 15.00 mV
 OMIN 20 SP-2 18-20

CERTIFIED NAME FEAK R.I. MEN/PTN
 LENGTH 1 17.5 1.4 US
 LENGTH 2 13.8 284.2 AUS
 LENGTH 6 229.2 262.1 AUS

Handwritten note: No @ 500

PHOTO 195

START



STOP @ 000.8
 SAMPLE LIBRARY 1 106 21 1386 18153
 ANALYSIS # 14 228 MAIN STREET
 INTERNAL TEMP 22 15.00 mV
 OMIN 20 INS?

CERTIFIED NAME FEAK R.I. MEN/PTN

PHOTO 196

START



STOP @ 000.8
 SAMPLE LIBRARY 1 106 21 1386 18171
 ANALYSIS # 24 228 MAIN STREET
 INTERNAL TEMP 22 15.00 mV

CERTIFIED NAME FEAK R.I. MEN/PTN

Handwritten note: 750 Some St