AVCO CORPORATION - TEXTRON LYCOMING

STRATFORD ARMY ENGINE PLANT

EPA I.D. CTD001181502

SURFACE IMPOUNDMENT CLOSURE CERTIFICATION

TABLE OF CONTENTS

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

May 12, 1992

Mr. John Fleming
Chief, Environmental Compliance
Avco Lycoming Textron
550 Main Street
Stratford, Connecticut 06497-2452

Subject: RCRA Closure Certification and Related Documents
Surface Impoundments
EPA I.D. No. CTD001181502

Dear Mr. Fleming:

The Connecticut Department of Environmental Protection (CTDEP) Site Remediation and Closure Division has reviewed the closure certification documents attached to cover letters dated July 25, 1990, and September 11, 1990. The documents were submitted by Schatz attorneys on behalf of Avco Lycoming Textron (Avco). These documents were submitted pursuant to the requirements of the approved closure plan dated September, 1987 as amended September 30, 1987, January 5, 1988, February 24, 1988, and as amended by the closure plan approval letter dated April 5, 1988.

As a result of this review, the CTDEP has determined that additional information is needed before CTDEP can determine whether the hazardous waste management units have been closed in accordance with the specifications in the approved closure plan.

Specific comments are included as Attachment 1 to this letter. Please revise the closure certification documents based on these comments and submit them to the CTDEP no later than 60 days after receipt of this letter.

To assist CTDEP in reviewing the revised certification documents, please prepare a summary of the revisions made. This summary should direct the reviewer to the page and/or section of the documents where each comment in Attachment 1 was addressed. In addition, it would be helpful to receive the documents in a single bound report.

Very truly yours,

David Ringquist

David Ringquist
Sanitary Engineer III
Site Remediation And Closure Division
Waste Management Bureau

DR:dr
Attachment
cc: George Dews, CTDEP WEED Permits
<AVCOCERT.NOD>

AVCO LYCOMING TEXTRON
Stratford, Connecticut

REVIEW COMMENTS ON CERTIFICATION DOCUMENTS

1. The certification of closure must be resubmitted as an original with a legible professional engineer's stamp.

2. The certification of closure references a closure plan dated March, 1988. This must be changed to agree with the closure plan dates in the closure plan approval letter.

3. The As-Built Drawings must be modified to include the following:

   A. Direction of run-off in the stone swale shown on Closure Area 1.

   B. Point of discharge of run-off for Closure Areas 1 and 2.

   C. Typical cap cross-section for Closure Areas 1 and 2, with section location shown on plan view.

4. To support the departure from the approved closure plan, demonstrate that the as-built final topographic contours and run-on/run-off controls for Closure Area 1 are technically equivalent to those specified in the approved closure plan.

5. The 12 foot vegetated drainage channels for Closure Areas 1 and 2 which are shown on Figure 4-2 of the approved closure plan do not appear on the as-built drawings and were not observed to be present in the field. This departure from the approved closure plan must be explained and a demonstration that it is equivalent to that which is specified in the approved closure plan must be provided.

6. The "perimeter test for hazardous waste quantity determination", included as Item 4 of the closure certification letter dated July 25, 1990, was not found in the closure documents. Please provide this information.

7. The soil verification test results must be accompanied by a map showing the sample locations, including depths below grade. Any deviation from the soil sampling procedures, as required by Modification Number 3 of the closure plan approval letter, must be demonstrated to be equally protective of human health and the environment.

8. The soil verification test results must be presented with the clean criteria that were developed to define the limits of the excavation. As required by Modification Number 1 of the closure plan approval letter, criteria for both the groundwater exposure pathway and the direct ingestion pathway must be provided. Provide the source or calculation used to derive each clean criteria value.

9. The Appendix IX test results must be prefaced by a description of the sample media (waste, soil), the sampling technique, and the sampling locations. Explain why the analysis was performed even though it is not required by the closure plan.

10. Provide a topographic survey of the final excavation as required by the approved closure plan.

11. The limit of excavation must be shown relative to the footprint of the synthetic membrane cap.

12. The synthetic membrane warranty was not found in the closure documents. Please provide this document.

13. Provide a list of departures from the approved closure plan together with a demonstration that each departure is equally protective of human health and the environment.

14. As required by the approved closure plan, provide the logs recorded during monitoring well replacement.

15. Provide a description of the storm water pipeline (from the adjacent contaminated soil piles) which runs diagonally across Closure Area 2. Include the length of time the pipeline will be there, its purpose, and how the pipeline and landfill will be inspected and maintained to meet the requirements of 40 CFR 265.117(c). This regulation states that "post-closure use of the property....must never be allowed to disturb the integrity of the final cover, liner(s), or any other components of the containment system...".

<AVCOCERT.NOD>

CLOSURE CERTIFICATION
SUMMARY OF REVISIONS
AVCO CORPORATION - TEXTRON LYCOMING

DEP Comment No. 1:

The certification of closure must be resubmitted as an original with a legible professional engineer's stamp.

Textron Response No. 1:

The certification of closure with an original professional engineer's stamp from VFL Technology Corporation, the contractors who performed the closure work, is included in Section B.

DEP Comment No. 2:

The certification of closure references a closure plan dated March, 1988. This must be changed to agree with the closure plan dates in the closure plan approval letter.

Textron Response No. 2:

The date on the certification of closure has been changed to reflect the closure plan dates in the closure plan approval letter. This is included in Section B.

DEP Comment No. 3:

The As-Built Drawings must be modified to include the following:

A. Direction of run-off in the stone swale shown on Closure Area 1.

B. Point of discharge of run-off for Closure Areas 1 and 2.

C. Typical cap cross-section for Closure Areas 1 and 2, with section location shown on plan view.

Textron Response No. 3:

The As-Built Drawings have been modified to include the requested changes. These are included in Section E.

DEP Comment No. 4:

To support the departure from the approved closure plan, demonstrate that the As-Built final topographic contours and run-on/run-off controls for Closure Area 1 are technically equivalent to those specified in the approved closure plan.

Textron Response No. 4:

A comparison between the As-Built cross section drawings and the design drawings was performed by A M Engineering, P.C. According to their survey the elevations between the two drawings substantially agree. Based upon the similarity between the elevations and run-on/run-off controls for Closure Area 1 in the As-Built drawings and the approved closure plan, it was concluded by A M Engineering that there was no departure from the approved closure plan. A copy of the letter from A M Engineering to Textron is included in Section E with the As-Built drawings.

DEP Comment No. 5:

The 12 foot vegetated drainage channels for Closure Areas 1 and 2 which are shown on Figure 4-2 of the approved closure plan do not appear on the As-Built drawings and were not observed to be present in the field. This departure from the approved closure plan must be explained and a demonstration that it is equivalent to that which is specified in the approved closure plan must be provided.

Textron Response No. 5:

The As-Built Drawings and the conditions in the field accurately reflect the closure plan drawings prepared by Metcalf & Eddy, March 16, 1992. Figure 4.2 in the closure plan text is an approximation of these blue-print drawings. A copy of these closure plan drawings prepared by Metcalf & Eddy are included in Section F for reference.

DEP Comment No. 6:

The "perimeter test for hazardous waste quantity determination," included as Item 4 of the closure certification letter dated July 25, 1990, was not found in the closure documents. Please provide this information.

Textron Response No. 6:

The "perimeter test for hazardous waste quantity determination" is included in Section D.

DEP Comment No. 7:

The soil verification test results must be accompanied by a map showing the sample locations, including depths below grade. Any deviation from the soil sampling procedures, as required by Modification Number 3 of the closure plan approval letter, must be demonstrated to be equally protective of human health and the environment.

Textron Response No. 7:

The sample locations for the soil verification tests are shown on the As-Built Drawings included in Section E. The test results are included in Section G.

DEP Comment No. 8:

The soil verification test results must be presented with the clean criteria that were developed to define the limits of the excavation. As required by Modification Number 1 of the closure plan approval letter, criteria for both the groundwater exposure pathway and the direct ingestion pathway must be provided. Provide the source or calculation used to derive each clean criteria value.

Textron Response No. 8:

The corrective action limits for the contaminated soil removal were based upon the Connecticut Health and Environmental Based Standards listed in Appendix C of the closure plan. Any residual contamination that might have been below the low water tide level was left in-situ as the site was closed as a landfill per Section 265.310 of 40 CFR.

DEP Comment No. 9:

The Appendix IX test results must be prefaced by a description of the sample media (waste, soil), the sampling technique, and the sampling locations. Explain why the analysis was performed even though it is not required by the closure plan.

Textron Response No. 9:

The Appendix IX tests were performed for the purpose of obtaining background information for possible later use in groundwater analysis. The appendix IX test results are included in Section H.

DEP Comment No. 10:

Provide a topographic survey of the final excavation as required by the approved closure plan.

Textron Response No. 10:

The approximate elevations of the final excavation are shown in the cross section diagrams included with the As-Built Drawings in Section E.

DEP Comment No. 11:

The limit of excavation must be shown relative to the footprint of the synthetic membrane cap.

Textron Response No. 11:

The limits of excavation for Closure Areas 1 and 2 are shown on the As-Built Drawings included in Section E.

DEP Comment No. 12:

The synthetic membrane warranty was not found in the closure documents. Please provide this document.

Textron Response No. 12:

The synthetic membrane warranty is included in Section I.

DEP Comment No. 13:

Provide a list of departures from the approved closure plan together with a demonstration that each departure is equally protective of human health and environment.

Textron Response No. 13:

Two changes were made to the closure plan. A catch basin was left in place to aid in the drainage of Closure Area 2 and in-situ stabilization was used in Closure Area 2 to allow construction of the cap. Information pertaining to these minor changes is included in Section J.

Because of a re-evaluation of the actual elevations of the site and the drainage patterns around Closure Area 2, a catch basin was left in place on the north side of the Closure Area. This catch basin discharges to the same location as the original drainage pattern from the closure plan area and thus was deemed to have no adverse affect upon human health or the environment and did not require a modification to the closure plan.

As documented in a letter from VFL Technology to Textron Lycoming dated October 27, 1988, due to poor subsurface conditions below elevation 2 in Lagoons 2, 3, and 4, the closure cap as designed by Metcalf & Eddy could not be installed. The material on-site did not have the structural strength to support the cap structure. In order to construct the designed cap for Closure Area 2, an in-situ stabilization of the subsurface of Closure Area 2 was performed using cement and/or cement kiln dust up to a 15% mix ratio. In the letter from VFL, it was stated they felt there would be no requirement to modify the closure plan since the work was performed on the subsurface (below the closure base elevation). The letter from VFL Technology Corp. is included in Section J along with a copy of the letter sent to Mr. George Dews documenting the change.

DEP Comment No. 14:

As required by the approved closure plan, provide the logs recorded during monitoring well replacement.

Textron Response No. 14:

The logs recorded during monitoring well replacement are included in Section K.

DEP Comment No. 15:

Provide a description of the stormwater pipeline (from the adjacent contaminated soil piles) which runs diagonally across Closure Area 2. Include the length of time the pipeline will be there, its purpose, and how the pipeline and landfill will be inspected and maintained to meet the requirements of 40 CFR 265.117(c). This regulation states that "post-closure use of the property...must never be allowed to disturb the integrity of the final cover, liner(s), or any other components of the containment system..."

Textron Response No. 15:

The pipeline was used to transfer collected stormwater from the bermed soil area adjacent to Closure Area 1. The pipe transferred the stormwater to the Oil Abatement Treatment Plant that treats the stormwater run-off throughout the facility. The pipe support rested on top of the cap vegetation cover and was inspected regularly to ensure that the integrity of the cover was not impaired. As the soil is being relocated, the pipeline is being removed.

AFFIDAVIT OF LAND USE

125529

AFFIDAVIT OF LAND USE
MADE
PURSUANT TO 40 C.F.R.
§265.119(b)(1) (1989)

STATE OF CONNECTICUT)
) ss. Stratford
COUNTY OF FAIRFIELD)

I, Robert Dennis, Director of Manufacturing Services, Avco Corporation, Textron Lycoming Division, do hereby depose, say and swear to the truth of, the following statements:

1. I am over eighteen (18) years of age and believe in the obligations of an oath.

2. The United States of America is the legal Owner (as such term is defined at 40 C.F.R. §260.10 (1989)) of certain real property located at the intersection of Main Street and Sniffen Lane in the Town of Stratford, County of Fairfield and State of Connecticut as more particularly described in Schedule A attached hereto and made a part hereof.

3. This property (hereinafter the "Facility," as such term is defined at 40 C.F.R. §260.10) is subject to Federal and State of Connecticut laws pertaining to Hazardous Waste Management (as such term is defined at 40 C.F.R. §260.10); the Resource Conservation and Recovery Act, 42 U.S.C. 6901 et seq. (1989), as amended; the United States Environmental Protection Agency (EPA) regulations pertaining to the hazardous waste treatment, storage, and disposal facilities, and specifically 40 C.F.R. §§265.1-.405 (1989), as amended; Titles 22a of the Connecticut General Statutes and the Regulations of Connecticut State Agencies.

4. The Operator (as such term is defined at 40 C.F.R. §260.10) of the Facility is Textron Lycoming, a Division of Avco Corporation.

This affidavit is made pursuant to 40 C.F.R. §265.119(b)(1) and is intended to provide the requisite notice that:

a. The Facility has been used to manage hazardous waste; and

b. The future use of the Facility is restricted under 40 C.F.R. §265.110-120 as amended at 54 Fed. Reg. 33,396 397 (1989); and

[redacted]

TOWN OF STRATFORD

STATE OF CONNECTICUT) SS. Stratford

OFFICE OF THE TOWN CLERK

COUNTY OF FAIRFIELD)

I, June Grace ~~T~~. Assistant Town Clerk of said Stratford, duly appointed and qualified according to law, and having custody of the Seal of said Town of Stratford, hereby certify that the annexed instrument is a true copy from the records of said Town, and that the original Instrument, from which said copy is taken, is recorded in Volume 744 Page 170 - 174 of the Stratford Land Records at 11:28 AM on 7/25/90

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the Seal of said Town of Stratford, this 26th day of July A. D. 19 90.

Attest: June Grace Asst

Assistant Town Clerk

[redacted]

[redacted]

000952

c. A survey plat, as described at 40 C.F.R. §265.116, and a record of the type, location, and quantity of hazardous wastes disposed of at the Facility, as described at 40 C.F.R. §§265.116 and 265.119(a), has been filed with the Town of Stratford Zoning Commission, the EPA Regional Administrator for Region 1 and the Connecticut Department of Environmental Protection Senior Sanitary Engineer.

Further your deponent sayeth not.

Robert Dennis

Subscribed and sworn to before me
this 25th day of July, 1990.

Riva Posner
Commissioner of the Superior Court

"SURVEY SURFACE IMPOUNDMENT CLOSURE PROJECT NO. FY82/01B STRATFORD ARMY ENGINE PLANT AT AVCO PROPERTY STRATFORD, CONN."

All those certain pieces or parcels of land located in the Town of Stratford, County of Fairfield and State of Connecticut and shown on a map entitled, "Survey Surface Impoundment Closure Project No. FY82/01B Stratford Army Engine Plant at Avco Property Stratford, Conn.", dated July 23, 1990, prepared by A M Engineering, P.C., to be filed in the Town of Stratford Land Records, being more particularly bounded and described as follows:

CLOSURE AREA 1
Containing 56,947± Sq. Ft.

Beginning at a point, said point being the Northwesterly corner of the Closure Area 1, said point also being the Southwesterly property corner of land now or formerly of United States of America, and is shown on a map entitled "Map of Survey of Property in Stratford, Conn. for United Aircraft Corp." dated June 14, 1949, by Fuller & Company, said point being the following bearings and distances from the Southerly street line of Sniffen Lane, South 51° 18' 14" East for a distance of 294.42 feet, South 38° 39' 16" East for a distance of 65.13 feet and South 01° 02' 15" East for a distance of 197.76 feet, all being along the Westerly property line as shown on said map of United Aircraft Corp.;

Thence, in an Easterly direction North 88° 57' 45" East for a distance of 219.63 feet along the Southerly property line as shown on said map of United Aircraft Corp.;

Thence, in a Southerly direction South 18° 35' 45" West for a distance of 27.70 feet along the Easterly property line as shown on said map of United Aircraft Corp. and also on a map entitled "Map of Survey of Property in Stratford, Conn. The Land and Home Development Co.", dated September 27, 1952 prepared by Frank B. Jaynes and Associates.;

Thence, in a Southerly direction again South 18° 50' 08" West for a distance of 13.91 feet, South 50° 21' 19" East for a distance of 42.37 feet, South 46° 17' 25" East for a distance of 43.12 feet, South 09° 28' 38" West for a distance of 107.96 feet and South 34° 03' 02" West for a distance of 25.31 feet;

Thence, in a Westerly direction North 80° 24' 23" West for a distance of 314.77 feet; thence, Northerly North 05° 25' 14" East for a distance of 27.57 feet and North 26° 37' 01" East for a distance of 144.25 feet, North 24° 45' 30" East for a distance of 11.96 feet all being along a fence and across land of the United States of America to the point and place of beginning.

CLOSURE AREA 2
Containing 37,405± Square Feet
Being more particularly bounded and described as follows:

Beginning at a point, said point being the Southwesterly corner of the Closure Area 2, said point also being on the Southerly property line of land now or formerly of United States of America, also being on the Northerly property line of the Sikorsky Memorial Airport, now or formerly the City of Bridgeport, and shown on a map entitled "Map of Survey of Property in Stratford, Conn. The Land Home Development Co." dated September 27, 1952, prepared by Frank B. Jaynes & Associates. Said parcel is Easterly of the Westerly street line of Main Street by a bearing of North 88° 57' 45" East for a distance of 341.69 feet;

Thence, in a Northerly direction North 02° 36' 05" West for a distance of 165.23 feet along a fence being across land of United States of America;

Thence, in an Easterly direction North 78° 44' 45" East for a distance of 210.54 feet across land of United States of America;

Thence, in a Southerly direction South 00° 09' 37" East for a distance of 202.54 feet along a fence across land of United States of America;

Thence, in a Westerly direction South 88° 57' 45" West for a distance of 199.59 feet being along the Southerly property line as shown on said map of The Land Home Development Co., also being the Northerly property line of Sikorsky Memorial Airport to the point and place of beginning.

AMENG5
7/25/90

Rec'd. JUL 25 1990 at 11:28 AM Attest:
Assistant Town Clerk

CERTIFICATE OF CLOSURE

NOTE: SEE CORRECTED CERTIFICATION OF CLOSURE ATTACHED TO SEPTEMBER 11, 1990 LETTER TO MS. RONA JULIAN OF EPA

VFL TECHNOLOGY CORPORATION

42 LLOYD AVENUE • MALVERN, PA 19355 • (215) 296-2233 • FAX (215) 296-9545

May 22, 1990

Ms. Donna Ashford
Textron Lycoming Division
550 South Main Street
Stratford, CT 06497

Subject: Textron Lycoming Contract No. H236288
VFL Project No. C-2260

Dear Ms. Ashford:

In accordance with the requirements of the contract documents, VFL Technology Corporation (VFL) hereby certifies that all work performed on the above referenced project was carried out in accordance with all federal, state and local regulations.

VFL appreciates the opportunity to have worked for Textron Lycoming on this project and looks forward to future opportunities.

Sincerely,

Alexander J. Fazzini, P.E.

AJF/pls

000573

ENGINEER'S CERTIFICATION OF CLOSURE

I, Louis M. Ruggiano, being a duly licensed Professional Engineer registered in the State of Delaware, and I, John S. Fleming, Chief Environmental Engineer of Avco Corporation, Textron Lycoming Division, do hereby certify that the hazardous waste disposal unit of Avco Corporation, Textron Lycoming Division located in Stratford, Connecticut, to the best of our knowledge and belief, has been closed in accordance with the specifications in the approved closure plan of September 1987 as amended September 30, 1987, January 5, 1988, and February 24, 1988.

Signature: _____ Date: 10 AUG 92
Louis M. Ruggiano

Business Address: VFL Technology Corporation
42 Lloyd Avenue
Malvern, PA 19355

Business Telephone: (215) 296-2233

Engineer License No.: 6248

State of Issue: DELAWARE.

Subscribed and sworn before me this 10th day of August, 1992.

Carol L. Mellon
Notary Public
My Commission expires Feb 27, 1995

****

Signature: John S. Fleming Date: 8/11/92
John S. Fleming

Business Address: Avco Corporation
Textron Lycoming Corporation
550 Main Street
Stratford, CT 06497

Business Telephone: (203) 385-2000

Subscribed and sworn before me this 11th day of August, 1992.

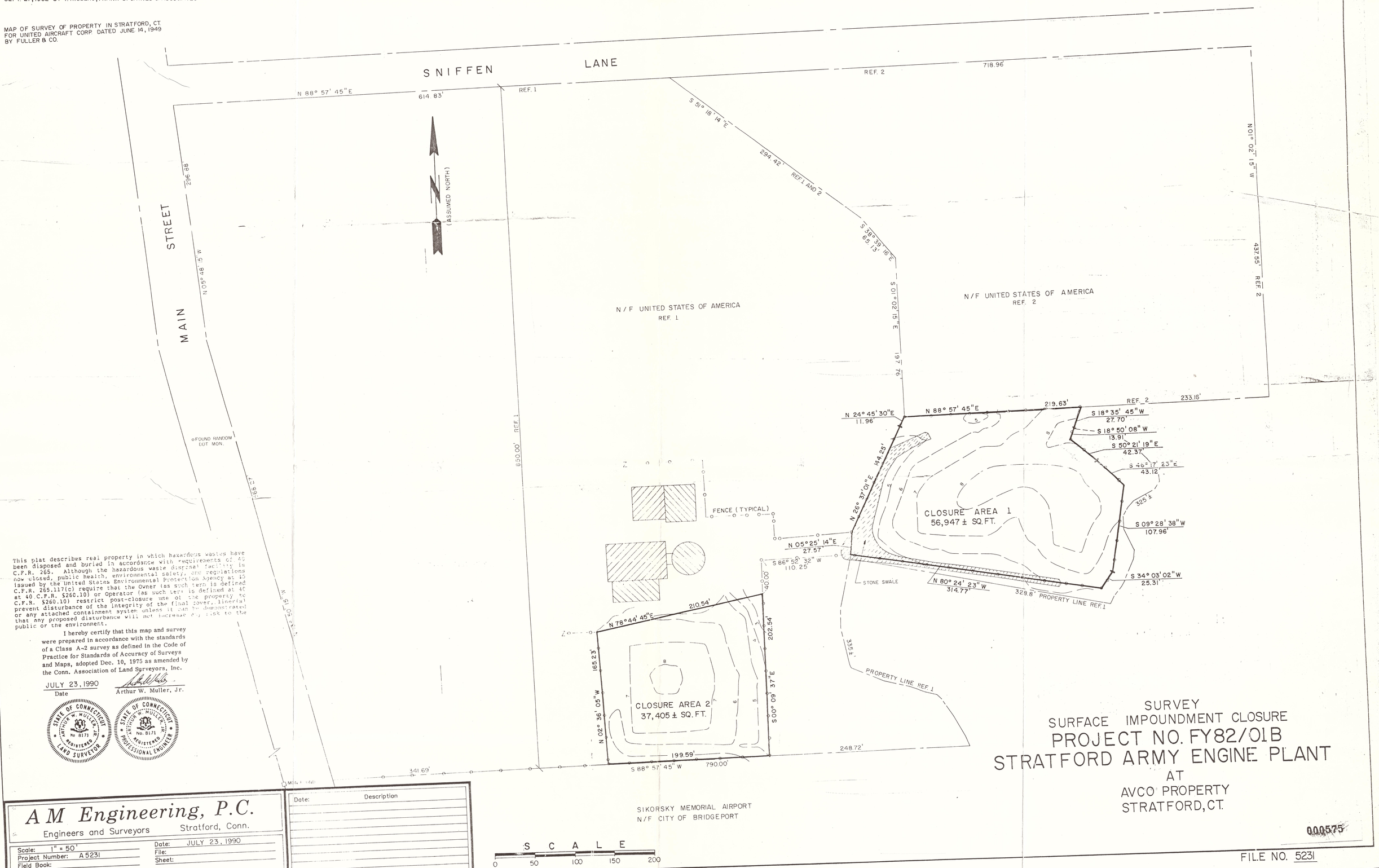
Maryann Palmiero
Notary Public
My Commission expires 5-31-97

SURVEY

REF.

1. MAP OF SURVEY OF PROPERTY IN STRATFORD, CT.
   THE LAND AND HOME DEVELOPMENT CO., DATED
   SEPT. 27, 1952 BY T. RISBERG, FRANK B. JAYNES & ASSOCIATES

2. MAP OF SURVEY OF PROPERTY IN STRATFORD, CT.
   FOR UNITED AIRCRAFT CORP. DATED JUNE 14, 1949
   BY FULLER & CO.



This plat describes real property in which hazardous wastes have been disposed and buried in accordance with requirements of 40 C.F.R. 265. Although the hazardous waste disposal facility is now closed, public health, environmental safety, and regulations issued by the United States Environmental Protection Agency at 40 C.F.R. 265.117(c) require that the Owner (as such term is defined at 40 C.F.R. §260.10) or Operator (as such term is defined at 40 C.F.R. §260.10) restrict post-closure use of the property to prevent disturbance of the integrity of the final cover, liner(s) or any attached containment system unless it can be demonstrated that any proposed disturbance will not increase any risk to the public or the environment.

I hereby certify that this map and survey were prepared in accordance with the standards of a Class A-2 survey as defined in the Code of Practice for Standards of Accuracy of Surveys and Maps, adopted Dec. 10, 1975 as amended by the Conn. Association of Land Surveyors, Inc.

JULY 23, 1990
Date

Arthur W. Muller, Jr.

STATE OF CONNECTICUT · ARTHUR W. MULLER, JR. · No. 8171 · REGISTERED LAND SURVEYOR

STATE OF CONNECTICUT · ARTHUR W. MULLER, JR. · No. 8171 · REGISTERED PROFESSIONAL ENGINEER

A M Engineering, P.C.
Engineers and Surveyors Stratford, Conn.

Scale: 1" = 50'	Date: JULY 23, 1990
Project Number: A 5231	File:
Field Book:	Sheet:

Date:	Description

SURVEY
SURFACE IMPOUNDMENT CLOSURE
PROJECT NO. FY82/01B
STRATFORD ARMY ENGINE PLANT
AT
AVCO PROPERTY
STRATFORD, CT.

000575

FILE NO. 5231

PERIMETER TEST

TEXTRON Lycoming

Stratford Division
Textron Lycoming /
Subsidiary of Textron Inc.

550 Main Street
Stratford, CT 06497
203/385-2000

13 September 1988

Mr. G. Dews
Ct. D.E.P.
Hazardous Matls. Mgmt.
165 Capitol Avenue
Hartford, CT 06106

Dear Mr. G. Dews:

Enclosed you will find a copy of soil analyses on samples taken in the equalization lagoon in our Surface Impoundment Closure.

The schedule plans call for the Cap to be ordered in the next week to ten days. In this regard I am also submitting a copy of the addendum which the Army consultant, Metcalf & Eddy had sent to us, but did not forward to you for review. The closure contractor for the surface impoundments would like to complete work on the equalization lagoon before the sludge impoundments completion.

If you have any questions, please do not hesitate to contact me.

Very truly yours

TEXTRON LYCOMING

John Fleming

John Fleming, Supv.
Environmental Compliance

Enclosure

September 12, 1988

VFL
550 Main St.
Stratford CT 06497

RE: LAB. No.88-279-17
P.O. No.VFL-C2260
Inv. No.4776

Gentelmen:

The attached report are results of analysis on the above referenced Purchase Order.

The samples were received on August 25, 1988.

The method of analysis was by Gas Chromatography using FID, PID, and/or HECD techniques.

All results are reported in parts per billion unless noted on the report.

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director

SJF:hc

connecticut testing laboratories inc.

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	1	2	3	4
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. [illegible]
Laboratory [illegible]
PHONE 203/6[illegible]

140 GRACEY AVENUE MERIDEN, CT [illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	5	6	7	8
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	9	10	11	12
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. FRANCE
Laboratory Director
PHONE 203/634-37[illegible]
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	13	14	15	16
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN [illegible]
Laboratory Director
PHONE 203/634-[illegible]
140 GRACEY AVENUE MERIDEN, CT 06450

VFL TECHNOLOGY CORPORATION

42 LLOYD AVENUE • MALVERN, PENNSYLVANIA 19355 • (215) 296-2233 • FAX (215) 296-9545

October 27, 1988

Ms. Donna Ashford
Plant Engineering
Textron Lycoming
550 Main Street
Stratford, CT 06497-2452

Subject: Initial Test Results - Lagoon 2 and 3 Areas
Textron Lycoming Purchase Order No. H036203
VFL Project No. C2260

Dear Donna:

VFL Technology Corporation (VFL) has received test results from Connecticut Testing Laboratory for partial samplings taken in the vicinity of Lagoons 2 and 3. The enclosed sketch shows the test points. Our review of these results show that there are hydrocarbon contaminants that are of potential concern. It is believed that these contaminants are from another source outside of the lagoons.

Your immediate attention to this issue is requested. VFL requests that the issue be addressed at our November 1, 1988 meeting.

Sincerely yours,

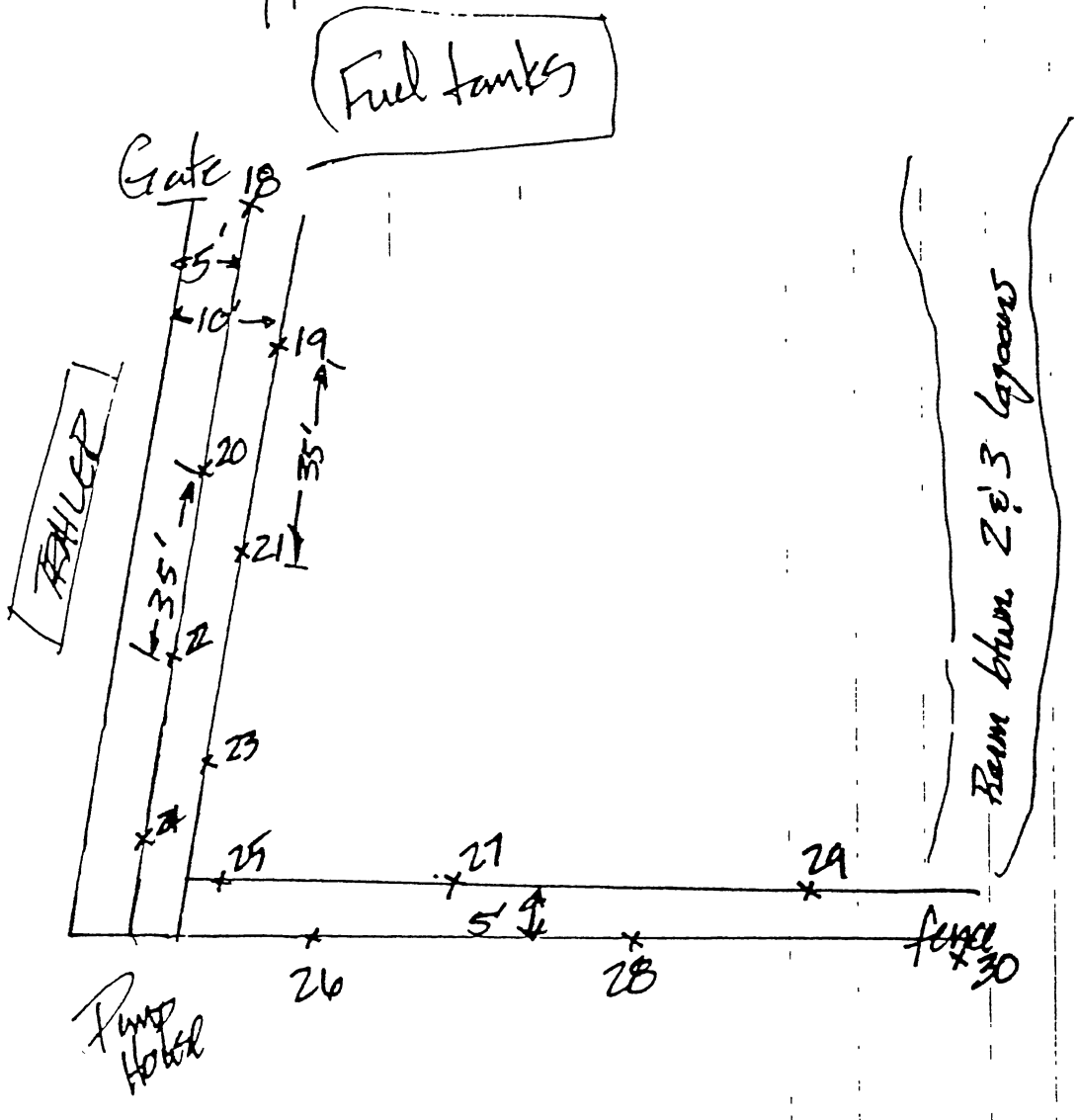
James P. Hopkins, P.E.
Vice President Project Management

JPH/tg

Enclosure

cc: Mr. J. Fleming-T/L
Mr. J. R. Landis-VFL
Mr. J. J. Tropea-VFL
Mr. L. M. Ruggiano-VFL

Approx. Sample Locations



Client :VFL
Lab No.:108-154-13
PO No. :VFLC2260
Date :10-21-88

	26	27	28	29
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	ND<0.01	0.01	ND<0.01	ND<0.01
Chromium, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01

	30			
Arsenic-mg/l	ND<0.05			
Barium-mg/l	ND<0.5			
Cadmium-mg/l	ND<0.01			
Chromium, Total-mg/l	ND<0.05			
Lead-mg/l	ND<0.05			
Mercury-mg/l	ND<0.002			
Selenium-mg/l	ND<0.01			
Silver-mg/l	ND<0.01			

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director

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STEPHEN J. FRANCO
Laboratory Director
PHONE-203/634-3731
140 GRACEY AVENUE--MERIDEN, CT--06450

October 18, 1988

VFL
C/O Butterworth Construction
45 Mayfair Pl.
Stratford, Ct. 06075

RE: LAB. No.108-101-13
P.O. No.VFL C22-60
Inv. No.5188

Gentlemen:

The attached report are results of analysis on the above referenced Purchase Order.

The samples were received on October 11, 1988.

The method of analysis was by Gas Chromatography using FID, PID, and/or HECD techniques.

All results are reported in parts per billion unless noted on the report.

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco

Stephen J. Franco
Laboratory Director

SJF:hc

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STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT - 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C22-60 (Sample Matrix= Solid)
Date :Oct. 17, 1988
Page : 1

EPA METHOD 601/8010	MDL	18	19	20	21
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	91.0	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	88.0	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	29.0	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

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STEPHEN J. FRANCO
Laboratory Director
PHONE-203/634-3731
140 GRACEY AVENUE-MERIDEN, CT 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C22-60 (Sample Matrix= Solid)
Date :Oct. 17, 1988
Page . 2

EPA METHOD 601/8010	MDL	22	23	24	25
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	92.0	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	29.0	54.0	29.0	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

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STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT - 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260 (Sample Matrix= Solid)
Date :Oct. 17, 1988
Page 3

EPA METHOD 601/8010	MDL	26	27	28	29
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	80.0	25.0	50.0
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	164.0	59.0	96.0
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	122.0	297.0	BDL	BDL
13-Dichlorobenzene	26	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

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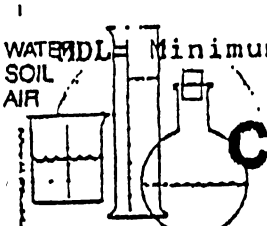
STEPHEN J. FIANCO
Laboratory Director
PHONE~203/634•3731
140 GRACEY AVENUE~MERIDEN, CT~06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C220-60 (Sample Matrix= Solid)
Date :Oct. 17, 1988
Page 4

EPA METHOD 601/8010	MDL	30			
Chloromethane	50	BDL			
Bromomethane	50	BDL			
Vinylchloride	50	BDL			
Chloroethane	50	BDL			
Methylenechloride	25	BDL			
Trichlorofluoromethane	25	BDL			
11-Dichloroethylene	25	BDL			
11-Dichloroethane	25	BDL			
T12-Dichloroethylene	25	BDL			
Chloroform	25	BDL			
12-Dichloroethane	25	BDL			
111-Trichloroethane	25	BDL			
Carbontetrachloride	25	BDL			
Bromodichloromethane	25	BDL			
12-Dichloropropane	25	BDL			
T13-Dichloropropylene	25	BDL			
Trichloroethylene	25	26.0			
Dibromochloromethane	25	BDL			
112-Trichloroethane	25	BDL			
Cis13-Dichloropropylene	25	BDL			
2-Chlorethylvinylether	25	BDL			
Bromoform	25	BDL			
1122-Tetrachloroethane	25	BDL			
Tetrachloroethylene	25	44.0			
Chlorobenzene	25	BDL			
Benzyl Chloride	50	BDL			
Bis(2-chlorethoxy)methane	50	BDL			
Bis(2-chloroisopropyl)ethe	50	BDL			
Bromobenzene	25	BDL			
Chloracetaldehyde	50	BDL			
1-Chlorohexane	25	BDL			
Chloromethyl methyl ether	50	BDL			
Chlorotoluene	25	BDL			
Dibromomethane	25	BDL			
12-Dichlorobenzene	25	BDL			
13-Dichlorobenzene	25	BDL			
14-Dichlorobenzene	25	BDL			
Trichloropropane	25	BDL			

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB



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STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT - 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260
Date :Oct. 17, 1988
Page 5

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	18	19	20	21
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

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STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260 (Sample Matrix= Solid)
Date :Oct. 17, 1988
Page 6

EPA METHOD 602/8020

	MDL	22	23	24	25
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	60.0	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

WATER SOIL AIR
connecticut testing laboratories inc.
STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260
Date :Oct. 17, 1988
Page 7

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	26+	27+	28	29
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	114.0	BDL	BDL
Ethyl Benzene	50	BDL	68.0	BDL	BDL
P & M Xylene	50	BDL	237.0	63.0	69.0
O- Xylene	50	BDL	696.0	BDL	207.0
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

+ Unknown Hydrocarbon mix present

MDL = Minimum Detectable Level

BDL = Below Detection Level

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perm. Hed value by state - 100ppm

WATER SOIL AIR
connecticut testing laboratories inc.

STEPHEN J. FRANCO
Laboratory Director
PHONE ~ 203/634-3731
140 GRACEY AVENUE · MERIDEN, CT · 06450

Client :VFL
Lab No.:108-101-13 (Sample Matrix= Solid)
Job. No:VFL C2260
Date :Oct. 17, 1988
Page 8

EPA METHOD 602/8020

	MDL	30			
Benzene	50	BDL			
Toluene	50	BDL			
Ethyl Benzene	50	BDL			
P & M Xylene	50	BDL			
O- Xylene	50	BDL			
1,4-Dichlorobenzene	50	BDL			
1,3-Dichlorobenzene	50	BDL			
1,2-Dichlorobenzene	50	BDL			
Methyl Ethyl Ketone	100	BDL			
Methyl Iso Butyl Ketone	100	BDL			

MDL = Minimum Detectable Level BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

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STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT 06450

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88
Page 1

EPA METHOD 601/8010	MDL	30A	31	32	33
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	39.0	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	34.0	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	125.0	76.0	BDL	65.0
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloroacetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	266.0	1,421.0
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	66.0
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

CONNECTICUT TESTING LABORATORIES, INC.
140 Gregory Avenue / Meriden, CT 06450

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 601/8010	MDL	34	35	36	37
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	27.6	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichlorpethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	43.0	BDL	26.0	47.0
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	164.0	BDL	BDL	37.0
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Client :VFL Technology Corp.
Lab No.:128-278-19
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Date :12-27-88
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EPA METHOD 601/8010	MDL	38	39	40	41
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	25.0
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	71.0
T12-Dichloroethylene	25	213.0	BDL	BDL	1,027.0
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	29.0	BDL	BDL	76.0
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	175.0	BDL	BDL	719.0
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	234.0	BDL	BDL	355.0
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	50.0
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88
Page 4

EPA METHOD 601/8010	MDL	42	43	44	45
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	30.0	172.0	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Client :VFL Technology Corp.
Lab No.:128-278-19
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EPA METHOD 601/8010	MDL	46	47	48	
Chloromethane	50	BDL	BDL	BDL	
Bromomethane	50	BDL	BDL	BDL	
Vinylchloride	50	BDL	BDL	BDL	
Chloroethane	50	BDL	BDL	BDL	
Methylenechloride	25	BDL	BDL	44.0	
Trichlorofluoromethane	25	BDL	BDL	BDL	
11-Dichloroethylene	25	BDL	BDL	BDL	
11-Dichloroethane	25	BDL	BDL	BDL	
T12-Dichloroethylene	25	BDL	BDL	50.0	
Chloroform	25	BDL	BDL	BDL	
12-Dichloroethane	25	BDL	BDL	117.0	
111-Trichloroethane	25	BDL	BDL	BDL	
Carbontetrachloride	25	BDL	BDL	BDL	
Bromodichloromethane	25	BDL	BDL	BDL	
12-Dichloropropane	25	BDL	BDL	BDL	
T13-Dichloropropylene	25	BDL	BDL	BDL	
Trichloroethylene	25	BDL	BDL	137.0	
Dibromochloromethane	25	BDL	BDL	BDL	
112-Trichloroethane	25	BDL	BDL	BDL	
Cis13-Dichloropropylene	25	BDL	BDL	BDL	
2-Chlorethylvinylether	25	BDL	BDL	BDL	
Bromoform	25	BDL	BDL	BDL	
1122-Tetrachloroethane	25	BDL	BDL	BDL	
Tetrachloroethylene	25	BDL	87.0	111.0	
Chlorobenzene	25	BDL	BDL	BDL	
Benzyl Chloride	50	BDL	BDL	BDL	
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	
Bromobenzene	25	BDL	BDL	BDL	
Chloracetaldehyde	50	BDL	BDL	BDL	
1-Chlorohexane	25	BDL	BDL	BDL	
Chloromethyl methyl ether	50	BDL	BDL	BDL	
Chlorotoluene	25	BDL	BDL	BDL	
Dibromomethane	25	BDL	BDL	BDL	
12-Dichlorobenzene	25	BDL	BDL	BDL	
13-Dichlorobenzene	25	BDL	BDL	BDL	
14-Dichlorobenzene	25	BDL	BDL	BDL	
Trichloropropane	25	BDL	BDL	BDL	

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Client :VFL Technology Corp.
Lab No.:128-278-19
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EPA METHOD 602/8020

	MDL	30A	31	32	33
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	74.0	64.0	BDL	63.0
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	153.0	86.0	BDL	135.0
O- Xylene	50	132.0	61.0	58.0	301.0
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level **BDL** = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450

Client :VFL Technology Corp.
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EPA METHOD 602/8020

	MDL	34	35	36	37
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	119.0	BDL	BDL	81.0
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level. **BDL** = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88
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EPA METHOD 602/8020

	MDL	38	39	40	41
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level **BDL** = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

Client :VFL Technology Corp.
Lab No.:128-278-19
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Date :12-27-88
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EPA METHOD 602/8020

	MDL	42	43	44	45
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level **BDL** = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88
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EPA METHOD 602/8020

	MDL	46	47	48	
Benzene	50	BDL	BDL	BDL	
Toluene	50	BDL	BDL	BDL	
Ethyl Benzene	50	BDL	BDL	BDL	
P & M Xylene	50	BDL	BDL	BDL	
O- Xylene	50	BDL	BDL	BDL	
1,4-Dichlorobenzene	50	BDL	BDL	BDL	
1,3-Dichlorobenzene	50	BDL	BDL	BDL	
1,2-Dichlorobenzene	50	BDL	BDL	BDL	
Methyl Ethyl Ketone	100	BDL	BDL	BDL	
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	

MDL = Minimum Detectable Level **BDL** = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

Client :VFL Technology Corp.
Lab No.:128-273-19
PO No. :C2260
Date :12-23-88

RESULTS OF ANALYSIS

	30A	31	32	33
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	ND<0.06	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	34	35	36	37
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	38	39	40	41
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450
(203)-634-3731

Client :VFL Technology Corp.
Lab No.:128-273-19
PO No. :C2260
Date :12-23-88

RESULTS OF ANALYSIS	42	43	44	45
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	0.08	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	

	46	47	48	
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450
(203)-634-3731

AS BUILT DRAWINGS

A M Engineering, P.C.
Engineers & Surveyors

959 Main Street
Stratford, Connecticut 06497
Tel: (203) 375-7063
Fax: (203) 375-7063

July 22, 1992

Mr. Dennis Babcock
Textron Lycoming
550 Main Street
Stratford, CT 06497-2452

Re: Lagoon Closure
Stratford Facility
Job #5231

Dear Mr. Babcock,

Please find enclosed copies of the "As-Built" Survey of the Surface Impoundment Closure at your facility, dated Oct. 6, 1988 and revised as of July 15, 1992. In addition, please find a second drawing entitled, "Cross Section As-Built Survey Surface Impoundment Closure" dated July 15, 1992. These drawings were either prepared or updated at your request to assist you in addressing Items 3, 4, 5, 10 and 11 outlined in the State of Connecticut, Department of Environmental Protection letter dated May 12, 1992.

The plan view has been updated to include the following:

1. Additional physical features adjacent to the closure areas to give a better overall picture of the site.

2. The existing storm drainge system and tidal drainage ditch adjacent to the closures.

3. Indication of surface flow direction.

4. "As-Built" cross section reference indicators.

5. Delineation of the area of drainage swales near the perimeter of closures.

Mr. Dennis Babcock
Textron Lycoming
550 Main Street
Stratford, Ct. 06497-2452

July 22, 1992

Re: Lagoon Closure
Stratford Facility
Job #5231

The cross section drawing was prepared utilizing data from the final as-built plan and from previous field locations of the plastic cover (ie: woven geotextile fabric). The cross sections also depict the limit of excavation as confirmed by VFL Technology Corporation in their letter to you dated June 18, 1992.

During our recent field work, it was noted that the areas of 1-1/2" washed stone and 3/4" trap rock that was used to protect the surface runoff swales from erosion adjacent to the closures, are now nearly covered with a growth of grass-type vegetation which is being maintained by cutting at regular intervals. There was no evidence of erosion in these areas and, therefore, the swales appear to be functioning properly. We also noted that when the as-built cross sections are compared to the design drawing, the elevations substantially agree.

If you have any questions concerning the enclosed or require additional information, please give me a call.

Very truly yours,

A M ENGINEERING, P.C.

Arthur W. Muller, P.E., L.S.
AWM:sm3
Encls.

AS BUILT DRAWINGS

A M Engineering, P.C.
Engineers & Surveyors

959 Main Street
Stratford, Connecticut 06497
Tel: (203) 375-7063
Fax: (203) 375-7063

July 22, 1992

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Textron Lycoming
550 Main Street
Stratford, CT 06497-2452

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Stratford Facility
Job #5231

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Mr. Dennis Babcock
Textron Lycoming
550 Main Street
Stratford, Ct. 06497-2452

July 22, 1992
- 2 -

Re: Lagoon Closure
Stratford Facility
Job #5231

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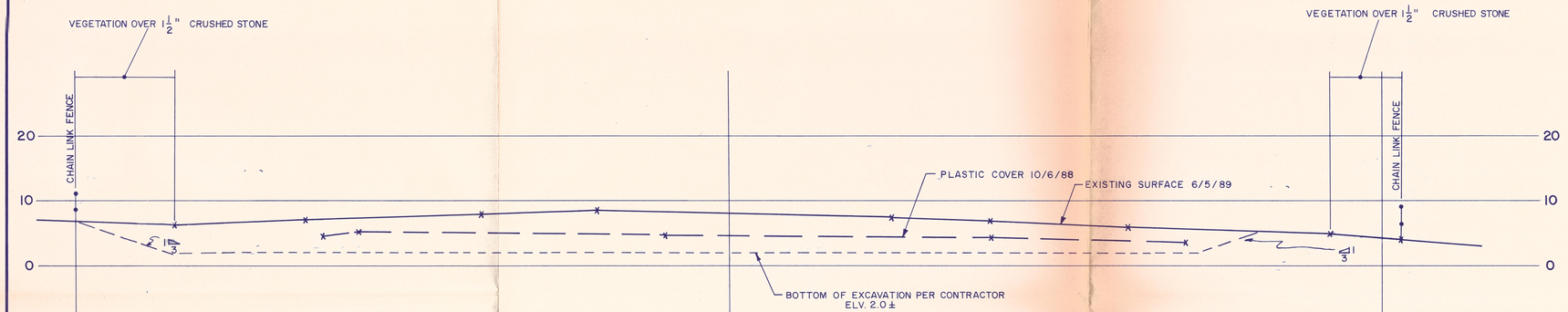
If you have any questions concerning the enclosed or require additional information, please give me a call.

Very truly yours,

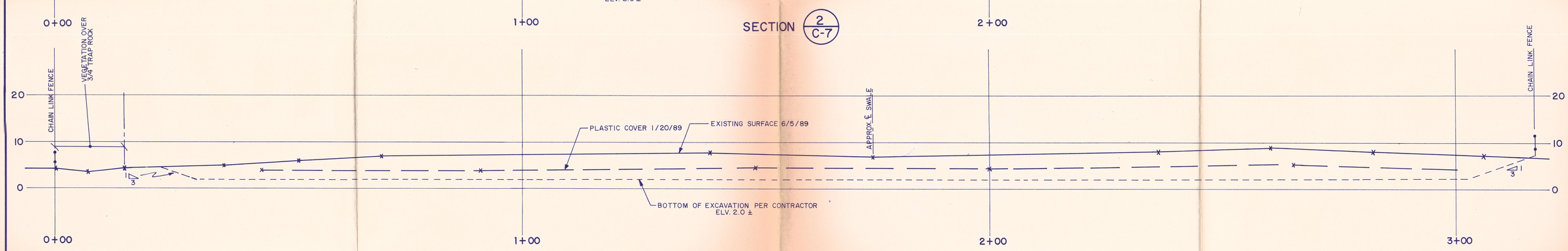
A M ENGINEERING, P.C.

Arthur W. Muller, P.E., L.S.
AWM:sm3
Encls.

CLOSURE PLAN DRAWINGS



SECTION 2 / C-7



SECTION 2 / C-6

CROSS SECTIONS
"AS BUILT SURVEY"
SURFACE IMPOUNDMENT CLOSURE
PROJECT NO. FY82/01B
STRATFORD ARMY ENGINE PLANT
AT
AVCO PROPERTY
STRATFORD, CONNECTICUT
PREPARED FOR
TEXTRON LYCOMING

A M Engineering, P.C.
Engineers and Surveyors Stratford, Conn.

Scale: 1" = 40'
Project Number: 5231
Field Book: 214, Pgs. 1, 34, 35, 51, 53
Date: JULY 15, 1992
File:
Sheet:

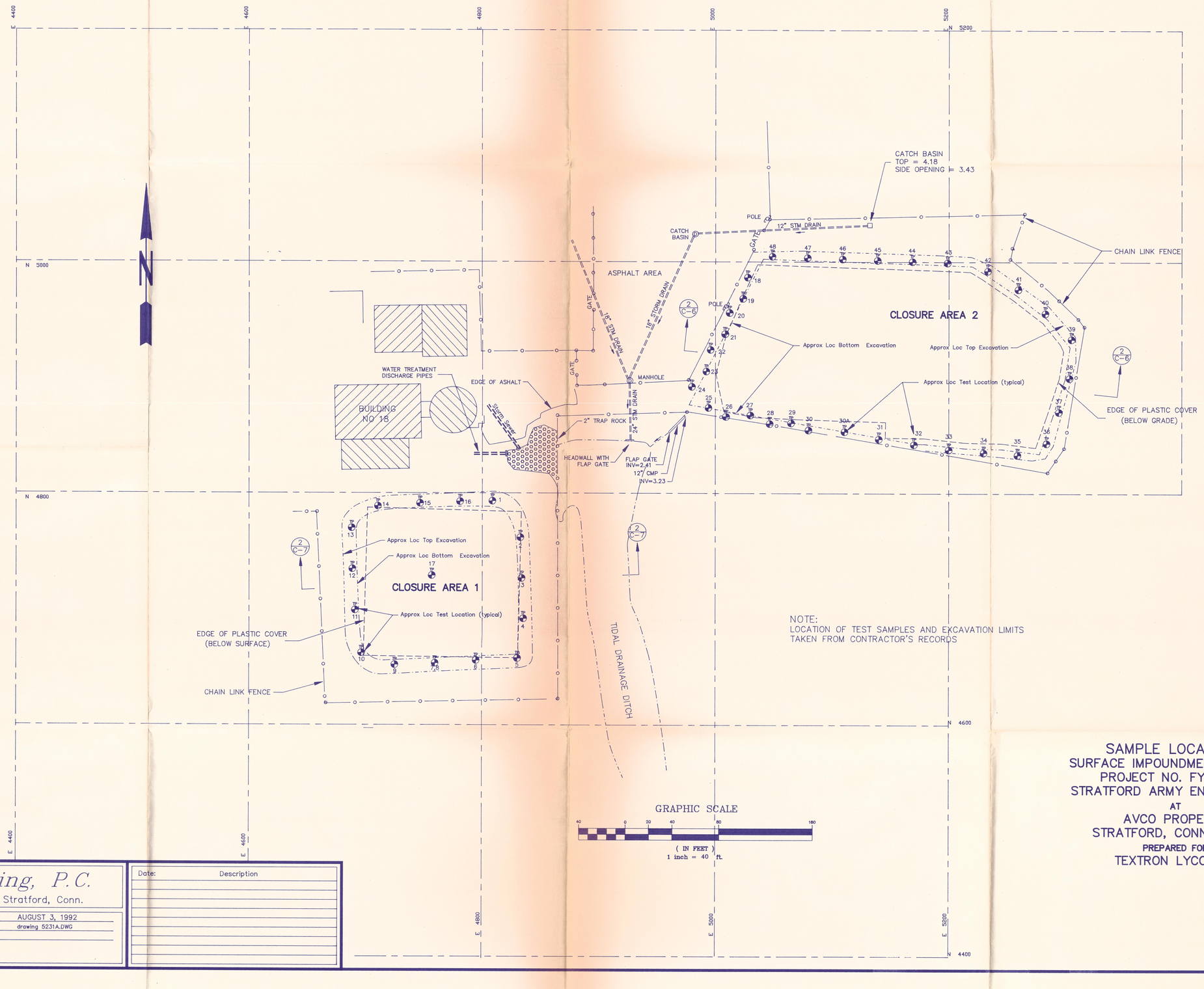
Date:	Description
8/3/92	Excavation Limits

7/15/92
Date

Arthur W. Muller, Jr.

STATE OF CONNECTICUT · ARTHUR W. MULLER, JR. · No. 8171 · REGISTERED · LAND SURVEYOR

STATE OF CONNECTICUT · ARTHUR W. MULLER, JR. · No. 8171 · REGISTERED · PROFESSIONAL ENGINEER



NOTE:
LOCATION OF TEST SAMPLES AND EXCAVATION LIMITS TAKEN FROM CONTRACTOR'S RECORDS

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

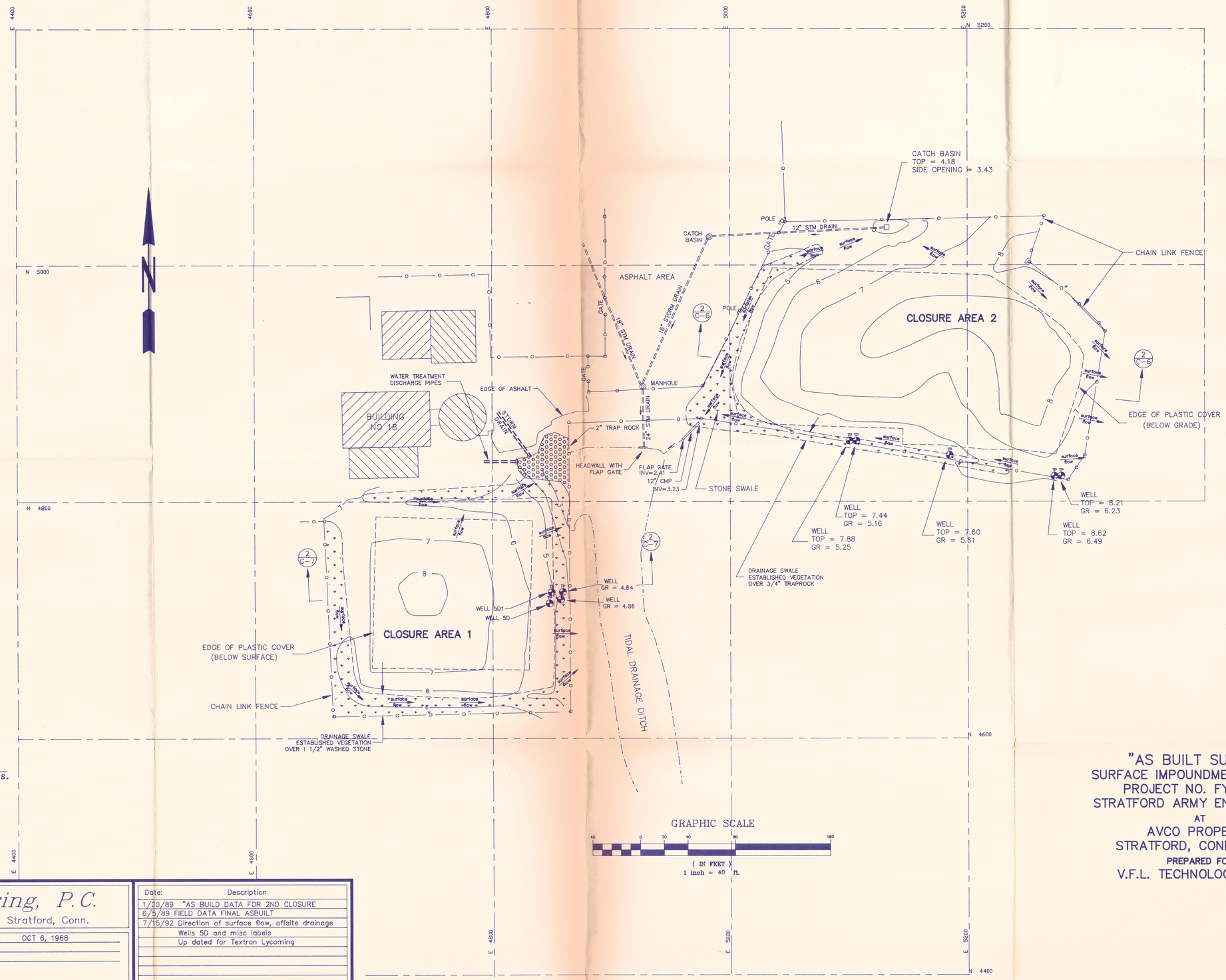
SAMPLE LOCATIONS
SURFACE IMPOUNDMENT CLOSURE
PROJECT NO. FY82/01B
STRATFORD ARMY ENGINE PLANT
AT
AVCO PROPERTY
STRATFORD, CONNECTICUT
PREPARED FOR
TEXTRON LYCOMING

A M Engineering, P.C.
Engineers and Surveyors Stratford, Conn.

Scale: 1" = 40'	Date: AUGUST 3, 1992
Project Number: 5231	File: drawing 5231A.DWG
Field Book: BK 191/1,3,51 214/34	Sheet:

Date:	Description

JOB 5231



7/15/92
Date

Arthur W. Muller, P.E., L.S.

STATE OF CONNECTICUT · ARTHUR W. MULLER JR. · No. 8171 · REGISTERED LAND SURVEYOR

STATE OF CONNECTICUT · ARTHUR W. MULLER JR. · No. 8171 · REGISTERED PROFESSIONAL ENGINEER

A M Engineering, P.C.

Engineers and Surveyors Stratford, Conn.

Scale: 1" = 40'	Date: OCT 6, 1988
Project Number: 5231	File:
Field Book: BK 191/1,3,51 214/34	Sheet:

Date:	Description
1/20/89	"AS BUILD DATA FOR 2ND CLOSURE
6/5/89	FIELD DATA FINAL ASBUILT
7/15/92	Direction of surface flow, offsite drainage
	Wells 5D and misc labels
	Up dated for Textron Lycoming

"AS BUILT SURVEY"
SURFACE IMPOUNDMENT CLOSURE
PROJECT NO. FY82/01B
STRATFORD ARMY ENGINE PLANT
AT
AVCO PROPERTY
STRATFORD, CONNECTICUT
PREPARED FOR
V.F.L. TECHNOLOGY CORP.

JOB 5231

SOIL VERIFICATION TEST RESULTS

SOIL VERIFICATION TEST RESULTS

The sample locations for the soil verification test results are shown on the As-Built Drawings. Samples 1 - 17 were taken from Closure Area 1. Samples 18 - 30 and 30A - 48 were taken from Closure Area 2.

TEXTRON Lycoming

Stratford Division
Textron Lycoming /
Subsidiary of Textron Inc.

550 Main Street
Stratford, CT 06497
203/385-2000

13 September 1988

Mr. G. Dews
Ct. D.E.P.
Hazardous Matls. Mgmt.
165 Capitol Avenue
Hartford, CT 06106

Dear Mr. G. Dews:

Enclosed you will find a copy of soil analyses on samples taken in the equalization lagoon in our Surface Impoundment Closure.

The schedule plans call for the Cap to be ordered in the next week to ten days. In this regard I am also submitting a copy of the addendum which the Army consultant, Metcalf & Eddy had sent to us, but did not forward to you for review. The closure contractor for the surface impoundments would like to complete work on the equalization lagoon before the sludge impoundments completion.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

TEXTRON LYCOMING

John Fleming

John Fleming, Supv.
Environmental Compliance

Enclosure

September 12, 1988

VFL
550 Main St.
Stratford CT 06497

RE: LAB. No.88-279-17
P.O. No.VFL-C2260
Inv. No.4776

Gentelmen:

The attached report are results of analysis on the above referenced Purchase Order.

The samples were received on August 25, 1988.

The method of analysis was by Gas Chromatography using FID, PID, and/or HECD techniques.

All results are reported in parts per billion unless noted on the report.

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director

SJF:hc

WATER
SOIL
AIR
connecticut testing laboratories inc.
STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
140 GRACEY AVENUE MERIDEN, CT 06450

October 18, 1988

VFL
C/O Butterworth Construction
15 Mayfair Pl.
Stratford, Ct. 06075

RE: LAB. No.108-101-13
P.O. No.VFL C22-60
Inv. No.5188

Gentlemen:

The attached report are results of analysis on the above referenced Purchase Order.

The samples were received on October 11, 1988.

The method of analysis was by Gas Chromatography using FID, PID, and/or HECD techniques.

All results are reported in parts per billion unless noted on the report.

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco

Stephen J. Franco
Laboratory Director

SJF:hc

WATER
SOIL
AIR
connecticut testing laboratories inc.

STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT - 06450

September 9, 1988

VFL
550 Main Street
Stratford, Ct. 06497

RE Lab. #88-274-17
PO/Job #VFL-C2260
Invoice #4763

Gentlemen:

The following is a report of analysis on samples received:
August 25, 1988.

RESULTS OF ANALYSIS	1	2	3	4
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	ND<0.01	ND<0.01	ND<0.01	0.03
Chromium, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.19	0.06	ND<0.05	0.06
Cyanide, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	5	6	7	8
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	0.02	0.01	0.01	0.02
Chromium,total-mg/l	ND<0.05	ND<0.05	0.11	0.06
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.30	0.13	0.17	0.15
Cyanide, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05

connecticut testing laboratories inc.
STEPHEN J. FRANC
Laboratory Dir.
PHONE 203/634-
140 GRACEY AVENUE MERIDEN, CT

Client :VFL
Lab No.:88-274-17
PO No. :VFL-C2260
Date :Sept. 9, 1988

RESULTS OF ANALYSIS	9	10	11	12
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	0.01	0.02	ND<0.01	ND<0.01
Chromium,total-mg/l	0.06	0.12	0.51	0.16
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium,Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.03	0.21	ND<0.05	ND<0.05
Cyanide,Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	13	14	15	16
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	0.06	0.05	0.07	0.02
Chromium, Total-mg/l	0.09	0.10	0.05	0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.20	0.13	0.18	0.27
Cyanide, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05

connecticut testing laboratories inc.
STEPHEN J. FRANC
Laboratory Director
PHONE 203/634-73
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:88-274-17
PO No. :VFL-C2260
Date :Sept. 9, 1988

RESULTS OF ANALYSIS 17

Arsenic-mg/l	ND<0.05			
Barium-mg/l	ND<0.5			
Cadmium-mg/l	ND<0.01			
Chromium, Total-mg/l	0.07			
Lead-mg/l	ND<0.05			
Mercury-mg/l	ND<0.02			
Selenium-mg/l	ND<0.01			
Silver-mg/l	ND<0.01			
Chromium, Hex-mg/l	ND<0.05			
Nickel-mg/l	0.02			
Cyanide, Total-mg/l	ND<0.05			

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director

connecticut testing laboratories inc.
STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-4[illegible]
140 GRACEY AVENUE MERIDEN, CT [illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	1	2	3	4
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. FRA[illegible]
Laborator[illegible]
PHONE 203.6[illegible]
140 GRACEY AVENUE MERIDEN, CT [illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	5	6	7	8
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88
Page 8

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	9	10	11	12
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. FRANCIS
Laboratory Director
PHONE 203/624-3[illegible]
140 GRACEY AVENUE MERIDEN, CT [illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	13	14	15	16
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. FRANCIS
Laboratory Director
PHONE 203/634-[illegible]
140 GRACEY AVENUE MERIDEN, CT [illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL		17		
Benzene	50		BDL		
Toluene	50		BDL		
Ethyl Benzene	50		BDL		
P & M Xylene	50		BDL		
O- Xylene	50		BDL		
1,4-Dichlorobenzene	50		BDL		
1,3-Dichlorobenzene	50		BDL		
1,2-Dichlorobenzene	50		BDL		
Methyl Ethyl Ketone	100		BDL		
Methyl Iso Butyl Ketone	100		BDL		

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

connecticut testing laboratories inc.

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-[illegible]
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88
Page 1

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	1	2	3	4
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	64.0	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL=** Below Detection Level/**UNITS=** PPB

connecticut testing laboratories inc.

STEPHEN J. FR[illegible]
Laboratory D[illegible]
PHONE 203/63[illegible]
140 GRACEY AVENUE MERIDEN, C[illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88
Page 2

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	5	6	7	8
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL=** Below Detection Level/**UNITS=** PPB

connecticut testing laboratories inc.

STEPHEN J. FRA[illegible]
Laboratory Dir[illegible]
PHONE 203/634-37[illegible]
140 GRACEY AVENUE MERIDEN, CT [illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88
Page 2 3

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	9	10	11	12
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL=** Below Detection Level/**UNITS=** PPB

connecticut testing laboratories inc.

STEPHEN J. [illegible]
Laborator[illegible]
PHONE 203/ [illegible]
140 GRACEY AVENUE MERIDEN, CT [illegible]

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88
Page 4

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	13	14	15	16
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL=** Below Detection Level/**UNITS=** PPB

connecticut testing laboratories inc.

STEPHEN J. FRANC
Laboratory Dir
PHONE 203/634-
140 GRACEY AVENUE MERIDEN, CT 064-

Client :VFL
Lab No.:88-279-17
PO No. :VFL-C2260
Date :9-12-88
Page 5

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL		17		
Chloromethane	50		BDL		
Bromomethane	50		BDL		
Vinylchloride	50		BDL		
Chloroethane	50		BDL		
Methylenechloride	25		BDL		
Trichlorofluoromethane	25		BDL		
11-Dichloroethylene	25		BDL		
11-Dichloroethane	25		BDL		
T12-Dichloroethylene	25		BDL		
Chloroform	25		BDL		
12-Dichloroethane	25		BDL		
111-Trichloroethane	25		BDL		
Carbontetrachloride	25		BDL		
Bromodichloromethane	25		BDL		
12-Dichloropropane	25		BDL		
T13-Dichloropropylene	25		BDL		
Trichloroethylene	25		BDL		
Dibromochloromethane	25		BDL		
112-Trichloroethane	25		BDL		
Cis13-Dichloropropylene	25		BDL		
2-Chlorethylvinylether	25		BDL		
Bromoform	25		BDL		
1122-Tetrachloroethane	25		BDL		
Tetrachloroethylene	25		59.0		
Chlorobenzene	25		BDL		
Benzyl Chloride	50		BDL		
Bis(2-chlorethoxy)methane	50		BDL		
Bis(2-chloroisopropyl)ethe	50		BDL		
Bromobenzene	25		BDL		
Chloracetaldehyde	50		BDL		
1-Chlorohexane	25		BDL		
Chloromethyl methyl ether	50		BDL		
Chlorotoluene	25		BDL		
Dibromomethane	25		BDL		
12-Dichlorobenzene	25		BDL		
13-Dichlorobenzene	25		BDL		
14-Dichlorobenzene	25		BDL		
Trichloropropane	25		BDL		

MDL= Minimum Detectable Level/**BDL=** Below Detection Level/**UNITS=** PPB

connecticut testing laboratories inc.
STEPHEN J. FRA[illegible]
Laboratory [illegible]
PHONE 203/6[illegible]
140 GRACEY AVENUE MERIDEN, CT [illegible]

October 21, 1988

VFL
c/o Butterworth Constr.
45 Mayfair Pl.
Stratford, CT 06497

RE Lab. #108-154-13
PO/Job #VFLC2260
Invoice #5239

Gentelmen:

The following is a report of analysis on samples received:
October 11, 1988.

RESULTS OF ANALYSIS	18	19	20	21
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01

	22	23	24	25
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01

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STEPHEN J. FRANCO
Laboratory Director
PHONE · 203/634-3731
140 GRACEY AVENUE · MERIDEN, CT · 06450

Client :VFL
Lab No.:108-154-13
PO No. :VFLC2260
Date :10-21-88
Page 2

	26	27	28	29
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	ND<0.01	0.01	ND<0.01	ND<0.01
Chromium, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01

	30			
Arsenic-mg/l	ND<0.05			
Barium-mg/l	ND<0.5			
Cadmium-mg/l	ND<0.01			
Chromium, Total-mg/l	ND<0.05			
Lead-mg/l	ND<0.05			
Mercury-mg/l	ND<0.002			
Selenium-mg/l	ND<0.01			
Silver-mg/l	ND<0.01			

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director

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STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT - 06450

Client :VFL Technology Corp.
Lab No.:128-273-19
PO No. :C2260
Date :12-23-88
Page 1

RESULTS OF ANALYSIS

	30A	31	32	33
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L				

	34	35	36	37
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	38	39	40	41
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450
(203)-634-3731

Client :VFL Technology Corp.
Lab No.:128-273-19
PO No. :C2260
Date :12-23-88

RESULTS OF ANALYSIS

	42	43	44	45
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Total-mg/L	ND<0.05	0.08	ND<0.05	ND<0.05
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	46	47	48	
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	
Cadmium-mg/L	ND<0.01	ND<0.01	ND<0.01	
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	
Lead-mg/L	ND<0.05	ND<0.05	ND<0.05	
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	
Chromium-Hex-mg/L	ND<0.05	ND<0.05	ND<0.05	
Cyanide-Amenable-mg/L	ND<0.05	ND<0.05	ND<0.05	

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450
(203)-634-3731

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260
Date :Oct. 17, 1988
Page 5

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	18	19	20	21
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

WATER
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STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260
Date :Oct. 17, 1988
Page .6

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	22	23	24	25
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	60.0	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

(10)

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

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STEPHEN J. FRANCO
Laboratory Director
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140 GRACEY AVENUE - MERIDEN, CT - 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260
Date :Oct. 17, 1988
Page .7

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	26+	27+	28	29
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	114.0	BDL	BDL
Ethyl Benzene	50	BDL	68.0	BDL	BDL
P & M Xylene	50	BDL	237.0	63.0	69.0
O- Xylene	50	BDL	696.0	BDL	207.0
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

(74)
(18)
(180, 13, 19)
(656, 157)

+ Unknown Hydrocarbon mix present

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

Perm. Hed value by state - 10 ppm

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STEPHEN J. FRANCO
Laboratory Director
PHONE--203/634-3731
140 GRACEY AVENUE--MERIDEN, CT--06450

Client :VFL
Lab No.:108-101-13
Job. No:VFL C2260
Date :Oct. 17, 1988
Page 8

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	30			
Benzene	50	BDL			
Toluene	50	BDL			
Ethyl Benzene	50	BDL			
P & M Xylene	50	BDL			
O- Xylene	50	BDL			
1,4-Dichlorobenzene	50	BDL			
1,3-Dichlorobenzene	50	BDL			
1,2-Dichlorobenzene	50	BDL			
Methyl Ethyl Ketone	100	BDL			
Methyl Iso Butyl Ketone	100	BDL			

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

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STEPHEN J. FRANCO
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PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT - 06450

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 602/8020

	MDL	30A	31	32	33	
Benzene	50	BDL	BDL	BDL	BDL	
Toluene	50	74.0	64.0	BDL	63.0	(24,14,1
Ethyl Benzene	50	BDL	BDL	BDL	BDL	
P & M Xylene	50	153.0	86.0	BDL	135.0	(103,36
O- Xylene	50	132.0	61.0	58.0	301.0	(82,11,18 251
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL	
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL	
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL	
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL	
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL	

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 602/8020

	MDL	34	35	36	37
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	119.0	BDL	BDL	81.0 (69, 31
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level. BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 602/8020

	MDL	38	39	40	41
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 602/8020

	MDL	42	43	44	45
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 602/8020

	MDL	46	47	48	
Benzene	50	BDL	BDL	BDL	
Toluene	50	BDL	BDL	BDL	
Ethyl Benzene	50	BDL	BDL	BDL	
P & M Xylene	50	BDL	BDL	BDL	
O- Xylene	50	BDL	BDL	BDL	
1,4-Dichlorobenzene	50	BDL	BDL	BDL	
1,3-Dichlorobenzene	50	BDL	BDL	BDL	
1,2-Dichlorobenzene	50	BDL	BDL	BDL	
Methyl Ethyl Ketone	100	BDL	BDL	BDL	
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	

MDL = Minimum Detectable Level BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.

Client :VFL
Lab No.:108-101-13
PO No. :VFL C22-60
Date :Oct. 17, 1988
Page 1

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	18	19	20	21
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	91.0	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	88.0	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	29.0	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

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STEPHEN J. FRANCO
Laboratory Director
PHONE - 203/634-3731
140 GRACEY AVENUE - MERIDEN, CT - 06450

ient :VFL
No.:108-101-13
No. :VFL C22-60
Date :Oct. 17, 1988
Page 2

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	22	23	24	25
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	92.0	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	29.0	54.0	29.0	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Chlorobenzene	50	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	25	BDL	BDL	BDL	BDL
Bromobenzene	50	BDL	BDL	BDL	BDL
Chloracetaldehyde	25	BDL	BDL	BDL	BDL
1-Chlorohexane	50	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

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STEPHEN J. FRANCO
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PHONE--203/634-3731
140 GRACEY AVENUE--MERIDEN, CT--06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C2260
ate :Oct. 17, 1988
age 3

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	26	27	28	29
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	80.0	25.0	50.0
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	164.0	59.0	96.0
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Chlorobenzene	50	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	25	BDL	BDL	BDL	BDL
Bromobenzene	50	BDL	BDL	BDL	BDL
Chloroacetaldehyde	25	BDL	BDL	BDL	BDL
1-Chlorohexane	50	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	122.0	297.0	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane					

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

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140 GRACEY AVENUE - MERIDEN, CT - 06450

Client :VFL
Lab No.:108-101-13
PO No. :VFL C220-60
Date :Oct. 17, 1988
Page . 4

(Sample Matrix= Solid)

EPA METHOD 601/8010	MDL	30			
Chloromethane	50	BDL			
Bromomethane	50	BDL			
Vinylchloride	50	BDL			
Chloroethane	50	BDL			
Methylenechloride	25	BDL			
Trichlorofluoromethane	25	BDL			
11-Dichloroethylene	25	BDL			
11-Dichloroethane	25	BDL			
T12-Dichloroethylene	25	BDL			
Chloroform	25	BDL			
12-Dichloroethane	25	BDL			
111-Trichloroethane	25	BDL			
Carbontetrachloride	25	BDL			
Bromodichloromethane	25	BDL			
12-Dichloropropane	25	BDL			
T13-Dichloropropylene	25	BDL			
Trichloroethylene	25	26.0			
Dibromochloromethane	25	BDL			
112-Trichloroethane	25	BDL			
Cis13-Dichloropropylene	25	BDL			
2-Chlorethylvinylether	25	BDL			
Bromoform	25	BDL			
1122-Tetrachloroethane	25	44.0			
Tetrachloroethylene	25	BDL			
Chlorobenzene	50	BDL			
Benzyl Chloride	50	BDL			
Bis(2-chlorethoxy)methane	50	BDL			
Bis(2-chloroisopropyl)ethe	25	BDL			
Bromobenzene	50	BDL			
Chloracetaldehyde	25	BDL			
1-Chlorohexane	50	BDL			
Chloromethyl methyl ether	25	BDL			
Chlorotoluene	25	BDL			
Dibromomethane	25	BDL			
12-Dichlorobenzene	25	BDL			
13-Dichlorobenzene	25	BDL			
14-Dichlorobenzene	25	BDL			
Trichloropropane	25	BDL			

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

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Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88
Page 1

EPA METHOD 601/8010	MDL	A9A	A1	A2	A3
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	39.0	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	34.0	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	125.0	76.0	BDL	65.0
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	266.0	1,421.0
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	66.0
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 601/8010	MDL	34	35	36	37
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	27.6	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichlorpethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	43.0	BDL	26.0	47.0
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	164.0	BDL	BDL	37.0
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450
(203)-634-3731

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No.:C2260
Date :12-27-88
Page 3

EPA METHOD 601/8010	MDL	38	39	40	41
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	25.0
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	71.0
11-Dichloroethane	25	BDL	BDL	BDL	1,027.0
T12-Dichloroethylene	25	213.0	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	76.0
12-Dichloroethane	25	29.0	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	718.0
Trichloroethylene	25	175.0	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	355.0
Tetrachloroethylene	25	234.0	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	50.0
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 601/8010	MDL	42	43	44	45
Chloromethane	50	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	30.0	172.0	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	50	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

CONNECTICUT TESTING LABORATORIES, INC.
140 Gracey Avenue / Meriden, CT 06450
(203)-634-3731

Client :VFL Technology Corp.
Lab No.:128-278-19
PO No. :C2260
Date :12-27-88

EPA METHOD 601/8010	MDL	46	47	48	
Chloromethane	50	BDL	BDL	BDL	
Bromomethane	50	BDL	BDL	BDL	
Vinylchloride	50	BDL	BDL	BDL	
Chloroethane	50	BDL	BDL	44.0	
Methylenechloride	25	BDL	BDL	BDL	
Trichlorofluoromethane	25	BDL	BDL	BDL	
11-Dichloroethylene	25	BDL	BDL	BDL	
11-Dichloroethane	25	BDL	BDL	50.0	
T12-Dichloroethylene	25	BDL	BDL	BDL	
Chloroform	25	BDL	BDL	117.0	
12-Dichloroethane	25	BDL	BDL	BDL	
111-Trichloroethane	25	BDL	BDL	BDL	
Carbontetrachloride	25	BDL	BDL	BDL	
Bromodichloromethane	25	BDL	BDL	BDL	
12-Dichloropropane	25	BDL	BDL	BDL	
T13-Dichloropropylene	25	BDL	BDL	137.0	
Trichloroethylene	25	BDL	BDL	BDL	
Dibromochloromethane	25	BDL	BDL	BDL	
112-Trichloroethane	25	BDL	BDL	BDL	
Cis13-Dichloropropylene	25	BDL	BDL	BDL	
2-Chlorethylvinylether	25	BDL	BDL	BDL	
Bromoform	25	BDL	BDL	BDL	
1122-Tetrachloroethane	25	BDL	BDL	BDL	
Tetrachloroethylene	25	BDL	87.0	111.0	
Chlorobenzene	25	BDL	BDL	BDL	
Benzyl Chloride	50	BDL	BDL	BDL	
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	
Bromobenzene	25	BDL	BDL	BDL	
Chloracetaldehyde	50	BDL	BDL	BDL	
1-Chlorohexane	25	BDL	BDL	BDL	
Chloromethyl methyl ether	50	BDL	BDL	BDL	
Chlorotoluene	25	BDL	BDL	BDL	
Dibromomethane	25	BDL	BDL	BDL	
12-Dichlorobenzene	25	BDL	BDL	BDL	
13-Dichlorobenzene	25	BDL	BDL	BDL	
14-Dichlorobenzene	25	BDL	BDL	BDL	
Trichloropropane	25	BDL	BDL	BDL	

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

APPENDIX 9 - TEST RESULTS

HAZARDOUS WASTE SUBSTANCE LIST

Textron Lycoming

Your sample ID See below
EML sample ID 71204-AVC

Date submitted 12-04-87
Date(s) analyzed 12-04 to 12-23-87

* * * ALL VALUES REPORTED IN ug/gm (wet weight) * * *

Method 8010/8020 via GC-PID/HECD. NOTE: not detected (nd) = <0.05 ppm

Sample ID:	871204-1	871204-2	871204-3
Compound:			
Benzene	<0.05	<0.05	<0.05
Benzyl chloride	<0.05	<0.05	<0.05
Bis (2-chloroethoxy)methane	<0.05	<0.05	<0.05
Bis (2-chloroisopropyl)ether	<0.05	<0.05	<0.05
Bromobenzene	<0.05	<0.05	<0.05
Bromodichloromethane	<0.05	<0.05	<0.05
Bromoform	<0.05	<0.05	<0.05
Bromomethane	<0.05	<0.05	<0.05
Carbon tetrachloride	<0.05	<0.05	<0.05
Chloroacetaldehyde	<0.05	<0.05	<0.05
Chloral	<0.05	<0.05	<0.05
Chlorobenzene	<0.05	<0.05	<0.05
Chloroethane	<0.05	<0.05	<0.05
Chloroform	<0.05	<0.05	<0.05
1-Chlorohexane	<0.05	<0.05	<0.05
2-Chloroethyl vinyl ether	<0.05	<0.05	<0.05
Chloromethane	<0.05	<0.05	<0.05
Chloromethyl methyl ether	<0.05	<0.05	<0.05
Chlorotoluene	<0.05	<0.05	<0.05
Dibromochloromethane	<0.05	<0.05	<0.05
Dibromomethane	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	<0.05	<0.05	<0.05
Dichlorodifluoromethane	<0.05	<0.05	<0.05
1,1-Dichloroethane	<0.05	<0.05	<0.05
1,2-Dichloroethane	<0.05	<0.05	<0.05
1,1-Dichloroethylene	<0.05	<0.05	<0.05
trans-1,2-Dichloroethylene	<0.05	<0.05	<0.05
Dichloromethane	<0.05	<0.05	<0.05
1,2-Dichloropropane	<0.05	<0.05	<0.05
1,3-Dichloropropylene	<0.05	<0.05	<0.05
Ethylbenzene	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	<0.05	<0.05	<0.05
Tetrachloroethylene (PCE)	0.07	0.25	0.10
Toluene	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	<0.05	<0.05	<0.05
Trichloroethylene (TCE)	<0.05	<0.05	<0.05
Trichlorotrifluoromethane	<0.05	<0.05	<0.05
Trichloropropane	<0.05	<0.05	<0.05
Vinyl chloride	<0.05	<0.05	<0.05
Xylenes	<0.05	<0.05	<0.05
Dichloropropane	<0.05	<0.05	<0.05
Dichloropropylene	<0.05	<0.05	<0.05
Tetranitromethane	<5	<5	<5

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CT DEPT HEALTH CERTIFICATION ENVIRONMENTAL MONITORING LABORATORY, INC. WALLINGFORD, CT PH-0556

Analyst

EML
SUITE A • 69 NORTH PLAINS INDUSTRIAL PARK • WALLINGFORD, CT 06492 • (203) 284-0555

Textron Lycoming

REPORT OF RESULTS

Your sample ID See below Date submitted 12-04-87

EML sample ID 71204-AVC Date(s) analyzed 12-04 to 12-23-87

* * * ALL VALUES REPORTED IN mg/kg * * *

METALS & METALLOIDS Method: flame AAS or ES, unless noted with *

Sample ID:	871204-1	871204-2	871204-3
aluminum			
arsenic			
barium			
cadmium	13.05	18.66	12.73
calcium	7.29%	8.59%	6.36%
hex. chrom.			
tot. chrom.	6.03%	6.65%	4.33%
copper	0.78%	1.01%	0.75%
gold			
iron			
lead	3.63	5.38	3.67
mercury	nd<0.0002	nd<0.0002	nd<0.0002
magnesium			
manganese			
nickel	0.30%	0.36%	0.35%
potassium	0.99%	1.03%	0.96%
selenium			
silver	20.34	22.93	20.10
sodium	0.18%	0.17%	0.15%
tin			
zinc			

INORGANICS/NON-METALS Method: various (EPA-approved)

BOD/COD			
chloride			
sp.cond.(umhos)			
cyanide	100.0	106.25	18.75
fluoride	nd<0.5	nd<0.5	nd<0.5
hardness			
ammonia-N			
nitrate			
nitrite			
O & G			
phosphate			
pH			
TSS			
TOC			
TOX			
phenol	nd<0.5	nd<0.5	nd<0.5
hydrofluoric acid	nd	nd	nd

Analyst M. Bl

CT DEPT HEALTH CERTIFICATION ENVIRONMENTAL MONITORING LABORATORY, INC. WALLINGFORD, CT

SUITE A. ● 59 NORTH PLAINS INDUSTRIAL PARK ● WALLINGFORD, CT 06492 ● (203) 284-0555

Textron Lycoming

REPORT OF RESULTS

Your sample ID See below — Date submitted 12-04-87

EML sample ID 71204-AVC — Date(s) analyzed 12-04 to 12-23-87

METHOD 625 GC/MS FRACTION-ACID COMPOUNDS (PHENOLS)

* * * ALL VALUES REPORTED IN ug/gm (ppm) * * *

Sample ID:	871204-1	871204-2	871204-3
Compound			
2-Chlorophenol	nd<0.5	nd<0.5	nd<0.5
2,4-Dichlorophenol	nd<0.5	nd<0.5	nd<0.5
2,4-Dimethylphenol	nd<0.5	nd<0.5	nd<0.5
4,6-Dinitro-o-cresol	nd<1	nd<1	nd<1
2,4-Dinitrophenol	nd<1	nd<1	nd<1
2-Nitrophenol	nd<0.5	nd<0.5	nd<0.5
4-Nitrophenol	nd<0.5	nd<0.5	nd<0.5
p-Chloro-m-cresol	nd<0.5	nd<0.5	nd<0.5
Pentachlorophenol	nd<0.5	nd<0.5	nd<0.5
Phenol	nd<0.5	nd<0.5	nd<0.5
2,4,6-Trichlorophenol	nd<0.5	nd<0.5	nd<0.5

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Analyst

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REPORT OF RESULTS

Your sample ID See below — Date submitted 12-04-87

EML sample ID 71204-AVC — Date(s) analyzed 12-04 to 12-23-87

METHOD 625: GC/MS FRACTION-BASE/NEUTRAL COMPOUNDS

* * * ALL RESULTS REPORTED IN ug/gm (ppm) * * *

Compound	#71204-1	Compound	#71204-1
Acenaphthene	nd<0.1	Diethylphthalate	nd<0.5
Acenaphthylene	nd<0.1	Dimethylphthalate	nd<0.5
Anthracene	nd<0.1	di-n-Butylphthalate	nd<0.5
Benzidine	nd<5	2,4-Dinitrotoluene	nd<0.5
Benzo(a)anthracene	nd<0.1	2,6-Dinitrotoluene	nd<0.5
Benzo(a)pyrene	nd<0.1	di-n-Octylphthalate	nd<0.5
Benzo(b)fluoranthene	nd<0.1	1,2-Diphenylhydrazine	nd<0.5
Benzo(ghi)perylene	nd<0.2	Fluoranthene	nd<0.1
Benzo(k)fluoranthene	nd<0.1	Fluorene	nd<0.1
bis(2-Chloroethoxy)methane	nd<0.5	Hexachlorobenzene	nd<0.5
bis(2-chloroethyl)ether	nd<0.5	Hexachlorobutadiene	nd<0.5
bis(2-ethylhexyl)phthalate	nd<0.5	Hexachlorocyclopentadiene	nd<0.5
4-Bromophenylphenylether	nd<0.5	Hexachloroethane	nd<0.5
Butylbenzylphthalate	nd<0.5	Indeno(1,2,3-cd)pyrene	nd<0.2
2-Chloronaphthalene	nd<0.5	Isophorone	nd<0.5
4-Chlorophenylphenylether	nd<0.5	Naphthalene	nd<0.1
Chrysene	nd<0.1	Nitrobenzene	nd<0.5
Dibenzo(ah)anthracene	nd<0.2	n-Nitrosodimethylamine	nd<5
1,2-Dichlorobenzene	nd<0.5	n-Nitrosodi-n-propylamine	nd<5
1,3-Dichlorobenzene	nd<0.5	n-Nitrosodiphenylamine	nd<5
1,4-Dichlorobenzene	nd<0.5	Phenanthrene	nd<0.1
3,3'-Dichlorobenzidine	nd<5	Pyrene	nd<0.1
bis(2-chloroisopropyl)ether	nd<0.5	1,2,4-Trichlorobenzene	nd<0.5

NOTE: nd = not detected

JAN 04 1988

Analyst

CT DEPT HEALTH CERTIFICATION ENVIRONMENTAL MONITORING LABORATORY, INC. WALLINGFORD, CT

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JAN 4 '88 14:22 FROM TEXTRON LYCOMING PAGE.007

000610

REPORT OF RESULTS

Your sample ID See below

Date submitted 12-04-87

EML sample ID 71204-AVC

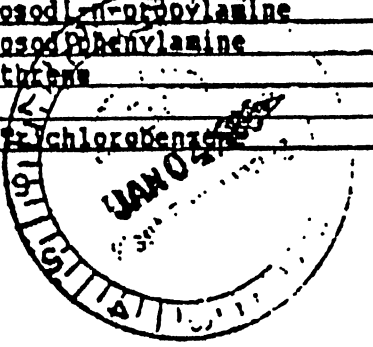
Date(s) analyzed 12-04 to 12-23-87

METHOD 625: GC/MS FRACTION-BASE/NEUTRAL COMPOUNDS

* * * ALL RESULTS REPORTED IN ug/gm (ppm) * * *

Compound	871204-2	Compound	871204-2
Acenaphthene	nd<0.1	Diethylphthalate	nd<0.5
Acenaphthylene	nd<0.1	Dimethylphthalate	nd<0.5
Anthracene	nd<0.1	di-n-Butylphthalate	nd<0.5
Benzidine	nd<5	2,4-Dinitrotoluene	nd<0.5
Benzo(a)anthracene	nd<0.1	2,6-Dinitrotoluene	nd<0.5
Benzo(a)pyrene	nd<0.1	di-n-Octylphthalate	nd<0.5
Benzo(b)fluoranthene	nd<0.1	1,2-Diphenylhydrazine	nd<0.5
Benzo(ghi)perylene	nd<0.2	Fluoranthene	nd<0.1
Benzo(k)fluoranthene	nd<0.1	Fluorene	nd<0.1
bis(2-Chloroethoxy)methane	nd<0.5	Hexachlorobenzene	nd<0.5
bis(2-chloroethyl)ether	nd<0.5	Hexachlorobutadiene	nd<0.5
bis(2-ethylhexyl)phthalate	nd<0.5	Hexachlorocyclopentadiene	nd<0.5
4-Bromophenylphenylether	nd<0.5	Hexachloroethane	nd<0.5
Butylbenzylphthalate	nd<0.5	Indeno(1,2,3-cd)pyrene	nd<0.2
2-Chloronaphthalene	nd<0.5	Isophorone	nd<0.5
4-Chlorophenylphenylether	nd<0.5	Naphthalene	nd<0.1
Chrysene	nd<0.1	Nitrobenzene	nd<0.5
Dibenzo(ah)anthracene	nd<0.2	n-Nitrosodimethylamine	nd<5
1,2-Dichlorobenzene	nd<0.5	n-Nitrosodi-n-propylamine	nd<5
1,3-Dichlorobenzene	nd<0.5	n-Nitrosodiphenylamine	nd<5
1,4-Dichlorobenzene	nd<0.5	Phenanthrene	nd<0.1
3,3'-Dichlorobenzidine	nd<5	Pyrene	nd<0.1
bis(2-chloroisopropyl)ether	nd<0.5	1,2,4-Trichlorobenzene	nd<0.5

NOTE: nd = not detected



Analyst

Textron Lycoming

REPORT OF RESULTS

Your sample ID See below Date submitted 12-04-87

EML sample ID 71204-AVC Date(s) analyzed 12-04 to 12-23-87

METHOD 625: GC/MS FRACTION-BASE/NEUTRAL COMPOUNDS

* * * ALL RESULTS REPORTED IN ug/gm (ppm) * * *

Compound	871204-3	Compound	871204-3
Acenaphthene	nd<0.1	Diethylphthalate	nd<0.5
Acenaphthylene	nd<0.1	Dimethylphthalate	nd<0.5
Anthracene	nd<0.1	di-n-Butylphthalate	nd<0.5
Benzidine	nd<5	2,4-Dinitrotoluene	nd<0.5
Benzo(a)anthracene	nd<0.1	2,6-Dinitrotoluene	nd<0.5
Benzo(a)pyrene	nd<0.1	di-n-Octylphthalate	nd<0.5
Benzo(b)fluoranthene	nd<0.1	1,2-Diphenylhydrazine	nd<0.5
Benzo(ghi)perylene	nd<0.2	Fluoranthene	nd<0.1
Benzo(k)fluoranthene	nd<0.1	Fluorene	nd<0.1
bis(2-Chloroethoxy)methane	nd<0.5	Hexachlorobenzene	nd<0.5
bis(2-chloroethyl)ether	nd<0.5	Hexachlorobutadiene	nd<0.5
bis(2-ethylhexyl)phthalate	nd<0.5	Hexachlorocyclopentadiene	nd<0.5
4-Bromophenylphenylether	nd<0.5	Hexachloroethane	nd<0.5
Butylbenzylphthalate	nd<0.5	Indeno(1,2,3-cd)pyrene	nd<0.2
2-Chloronaphthalene	nd<0.5	Isophorone	nd<0.5
4-Chlorophenylphenylether	nd<0.5	Naphthalene	nd<0.1
Chrysene	nd<0.1	Nitrobenzene	nd<0.5
Dibenzo(ah)anthracene	nd<0.2	n-Nitrosodimethylamine	nd<5
1,2-Dichlorobenzene	nd<0.5	n-Nitrosodi-n-propylamine	nd<5
1,3-Dichlorobenzene	nd<0.5	n-Nitrosodiphenylamine	nd<5
1,4-Dichlorobenzene	nd<0.5	Phenanthrene	nd<0.1
3,3'-Dichlorobenzidine	nd<5	Pyrene	nd<0.1
bis(2-chloroisopropyl)ether	nd<0.5	1,2,4-Trichlorobenzene	nd<0.5

NOTE: nd = not detected

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CT DEPT HEALTH CERTIFICATION ENVIRONMENTAL MONITORING LABORATORY, INC. WALLINGFORD, CT

EML
SUITE A. • 59 NORTH PLAINS INDUSTRIAL PARK • WALLINGFORD, CT 06492 • (203) 284-0555

SYNTHETIC LINER MEMBRANE WARRANTY

SCHLEGEL LINING TECHNOLOGY, INC.

WARRANTY AND LIABILITY LIMITATION

Warranty

Schlegel Lining Technology, Inc. ("Schlegel") warrants to the Customer that the SCHLEGEL® sheet lining system sold and installed by Schlegel for the Project will conform to the attached Physical Properties Specifications at the time of sale and will, as installed, be free from defects at the time of completion of installation and for one (1) year thereafter.

Remedy If Schlegel Breaches the Warranty

If the Customer notifies Schlegel during the Warranty period (or within thirty (30) days thereafter) of a problem which it feels gives rise to a claim under this Warranty, Schlegel will investigate the problem jointly with the Customer. If the Customer's claim is covered by this Warranty, Schlegel will, at its expense, repair or replace (at its option, in the exercise of its best technical judgement) the defective materials and/or installation work. If the problem is not covered by this Warranty, the Customer will be responsible for Schlegel's inspection expenses and the expenses of any repair or replacement which Schlegel and the Customer agree to carry out.

Conditions of This Warranty

This Warranty and Schlegel's obligations under it are subject to the following conditions:

- That the Customer notifies Schlegel promptly of the discovery of any problem which it feels gives rise to a claim under this Warranty;
- That the Customer provides Schlegel, without charge, with full and free access to the Warranty claim area (clean and dry and with fill and overburden removed if necessary) in order to enable Schlegel to inspect the same and, if appropriate, make a proper repair or replacement;
- That the lining system has been used at all times exclusively for the purpose for which it was originally intended and designed and in accordance with the normal uses and service conditions specified in the contract or the applicable Project specifications;
- That no repair to the lining system (other than emergency repairs required to protect people or property) has been made or attempted by other than Schlegel's authorized personnel unless Schlegel has given its prior written consent;
- That the Customer has used reasonable care in the management, operation and safeguarding of the lining system;
- That the Customer has paid Schlegel all amounts due under the contract; and
- That the lining system has been properly anchored to prevent wind damage.

Damages Excluded

This Warranty does not apply to materials or components not manufactured by Schlegel or to claims arising from: neglect, alterations by the Customer or others, subsurface conditions, faults, sinkholes, subsidence, abnormal design, structural defects of subgrade or overburden, abuse by equipment, machinery, people or animals, exposure of the sheet to harmful chemicals or alteration in the agreed or specified uses or service conditions, fire, flood, earthquake, hail, windstorm, explosion, tornado or other abnormal weather conditions, accidents, vandalism or Acts of God.

Credit

In the event Schlegel fails to complete a proper repair or replacement within a reasonable time after good faith attempts pursuant to its obligations above, the Customer will be entitled to a refund of that portion of the total contract price which relates to the nonconforming or defective materials or installation work as the case may be.

Exclusion of Other Liabilities

This Warranty is exclusive. ALL OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTIBILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED BY WORDS, AFFIRMATIONS OR OTHERWISE, ARE DISCLAIMED. (Samples, test results, statements in advertisements or catalogs, etc., are descriptive only and are not to be considered warranties.) Schlegel's obligations of repair, replacement or credit as set forth above are also exclusive and in lieu of all other obligations or liabilities (and constitute the Customer's exclusive remedy) with respect to the quality, condition or performance of SCHLEGEL® sheet.

Schlegel will not be liable for any indirect, special, incidental or consequential loss or damage, including, but not limited to, loss of service or contents, cost of plant or other facilities, damage to or loss of other property or equipment, loss of profits or revenues, costs of capital, costs of purchased or replacement goods or claims of third parties.

Liability Limit

Schlegel's liability for all damages, penalties, indemnifications, liabilities, costs and expenses incurred as a result of any failure by Schlegel to meet its obligations to the Customer under the contract or at law, is limited to the total contract price.

These provisions supersede and govern all other provisions of the contract between the Customer and Schlegel regarding the purchase, sale, installation and performance of SCHLEGEL® sheet.

Gundle Lining Systems Inc

Gundle

GUNDLINE HD is a high quality formulation of High Density Polyethylene containing approximately 97.5% polymer and 2.5% of carbon black, anti-oxidants and heat stabilizers. The product was designed specifically for exposed conditions. It contains no additives or fillers which can leach out and cause deterioration over time.

GUNDLINE® HD SPECIFICATIONS

PROPERTY	TEST METHOD	GAUGE (NOMINAL)					
		20 mil (0.5 mm)	30 mil (0.75 mm)	40 mil (1.0 mm)	60 mil (1.5 mm)	80 mil (2.0 mm)	100 mil (2.5 mm)
Density (g/cc) (Minimum)	ASTM D1505	0.94	0.94	0.94	0.94	0.94	0.94
Melt Flow Index (g/10 min.)	ASTM D 1238 Condition E (190°C, 2.16 kg.)	0.3	0.3	0.3	0.3	0.3	0.3
Minimum Tensile Properties (Each direction)	ASTM D638 Type IV Dumb-bell at 2 ipm.						
1. Tensile Strength at Break (Pounds/inch width)		80	120	160	240	320	400
2. Tensile Strength at Yield (Pounds/inch width)		50	70	95	140	190	240
3. Elongation at Break (Percent)		700	700	700	700	700	700
4. Elongation at Yield (Percent)		13	13	13	13	13	13
5. Modulus of Elasticity (Pounds/square inch)	ASTM D882	110,000	110,000	110,000	110,000	110,000	110,000
Tear Resistance Initiation (lbs Min.)	ASTM D1004 Die C	15	22	30	45	60	75
Low Temperature/ Brittleness	ASTM D746 Procedure B	−112°F	−112°F	−112°F	−112°F	−112°F	−112°F
Dimensional Stability (Each direction, % change max.)	ASTM D1204 212°F 1 hr.	±2	±2	±2	±2	±2	±2
Volatile Loss (Max. %)	ASTM D1203 Method A	0.1	0.1	0.1	0.1	0.1	0.1
Resistance to Soil Burial (Maximum percent change in original value)	ASTM D3083 using ASTM D638 Type IV Dumb-bell at 2 ipm.						
Tensile Strength at Break and Yield	% Change	±5	±5	±5	±5	±5	±5
Elongation at Break and Yield	% Change	±10	±10	±10	±10	±10	±10
Ozone Resistance	ASTM D1149 7 days 100 pphm, 104°F Magnification	No cracks 7 ×	No cracks 7 ×	No cracks 7 ×	No cracks 7 ×	No cracks 7 ×	No cracks 7 ×
Environmental Stress Crack (Minimum hours)	ASTM D1693 Condition C (100°C)	1500	1500	1500	1500	1500	1500
Puncture Resistance (Pounds)	FTMS 101B Method 2031	85	135	175	270	350	440
Water Absorption (Max. % Wt. change)	ASTM D570	0.1	0.1	0.1	0.1	0.1	0.1
Hydrostatic Resistance (Pounds/square inch)	ASTM D751 Method A Procedure I	160	240	315	490	650	810
Coefficient of Linear Thermal Expansion ($\times 10^{-4} \frac{cm}{cm \cdot °C}$) Nominal	ASTM D696	1.2	1.2	1.2	1.2	1.2	1.2
Moisture Vapor Transmission ($g/m^2 \cdot day$)	ASTM E96	0.06	0.05	0.04	0.03	0.02	0.01
Thermal Stability Oxidative Induction Time (OIT) (minutes, minimum)	ASTM D3895 130°C, 800 psi O_2	2000	2000	2000	2000	2000	2000

000628

Fabric Properties

Fabric Property 500X	Unit	Test Method	Typical Values[1]
Resistance to Installation Damage			
Grab Tensile Strength	lb	ASTM D-1682-64	200
Grab Tensile Elongation	%	ASTM D-1682-64	30 (max)
Burst Strength	psi	ASTM D-3786-80a[2]	400
Trapezoid Tear Strength	lb	ASTM D-1117-80	115
Puncture Resistance	lb	ASTM D-3787-80[3]	85

Fabric Property 600X	Unit	Test Method	Typical Values[1]
Resistance to Installation Damage			
Grab Tensile Strength	lb	ASTM D-1682-64	300
Grab Tensile Elongation	%	ASTM D-1682-64	35 (max)
Burst Strength	psi	ASTM D-3786-80a[2]	>600
Trapezoid Tear Strength	lb	ASTM D-1117-80	120
Puncture Resistance	lb	ASTM D-3787-80[3]	130

[1]The values listed are average values. Contact the Mirafi Technical Department for minimum certifiable values.

[2]Diaphragm Bursting Tester

[3]Tension Testing Machine with ring clamp, steel ball replaced with a 1/16-inch diameter solid steel cylinder (with hemispherical tip) centered within the ring clamp.

MIRAFI INC

MIRAFI INC P O BOX 240967/CHARLOTTE, N C 28224/(704) 523-7477 or (800) 438-1855/TELEX 216903 MRFI

2MP-3
4-85

MINOR DEPARTURES FROM APPROVED CLOSURE PLAN

MINOR DEPARTURES FROM CLOSURE PLAN

Two changes were made to the closure plan. A catch basin was left in place to aid in the drainage of Closure Area 2 and in-situ stabilization was used in Closure Area 2 to allow construction of the cap. Information pertaining to these minor changes is included in Section J.

Because of a re-evaluation of the actual elevations of the site and the drainage patterns around Closure Area 2, a catch basin was left in place on the north side of the Closure Area. This catch basin was discharges in the same location as the original drainage pattern from the closure plan area and thus was deemed to have no adverse affect upon human health or the environment and did not require a modification to the closure plan.

As documented in a letter from VFL Technology to Textron Lycoming dated October 27, 1988, due to poor subsurface conditions below elevation 2 in Lagoons 2, 3, and 4, the closure cap as designed by Metcalf & Eddy could not be installed. The material on-site did not have the structural strength to support the cap structure. In order to construct the designed cap for Closure Area 2, an in-situ stabilization of the subsurface of Closure Area 2 was performed using cement and/or cement kiln dust up to a 15% mix ratio. In the letter from VFL, it was stated they felt there would be no requirement to modify the closure plan since the work was performed on the subsurface (below the closure base elevation). The letter from VFL Technology Corp. is included in Section J along with a copy of the letter sent to Mr. George Dews documenting the change.

P-file

VFL TECHNOLOGY CORPORATION

42 LLOYD AVENUE • MALVERN, PENNSYLVANIA 19355 • (215) 296-2233 • FAX (215) 296-9545

October 27, 1988

Textron Lycoming
550 Main Street
Stratford, CT 06497-2452

Attn: Ms. Donna Ashford
Plant Engineering

Subj: TL P.O. No. H236208
VFL Project No. C-2260
Lagoon 2-4 Subsurface Conditions

Dear Donna:

In follow-up to our telephone conversations, VFL Technology has closely evaluated the subsurface conditions at lagoons 2, 3, & 4 in consideration of our experiences to date in the equalization basins. Basically, the closure of lagoons 2, 3, & 4 as designed by Metcalf and Eddy can not be installed as specified because of subsurface conditions below elevation 2. Material existing below this elevation can not support the closure structure. Relaxation of compaction requirement could permit installation, if acceptable.

Our previous suggestion and subsequent agreement to place rock below elevation 2 to bridge non-bearing areas as we did for the equalization basin has clearly been shown to require large quantities of imported stone in what was agreed to be the area of least concern. It will also ultimately result in additional material to be excavated and hauled to Stablex.

Presently, it appears that in lagoon 2, poor subsurface conditions persist to elevation 0 to -1. In lagoons 3 and 4 (4 in particular) this poor material may exist to elevation -4. In VFL's estimation there may be 3,000-5,000 cubic yards of additional non-bearing materials that could require removal to install the specified closure which has been submitted and approved by CT D.E.P. The excavation, hauling, disposal and replacement soil for this condition could mean $1,000,000 of additional costs to TL.

Continuation of stone placement and subsequent removal and disposal of displaced material below elevation 2 is clearly more cost effective. Again, in VFL's estimation, the extra work required here would be the addition of approximately 2,000 c.y.

of stone and the removal of 800-1200 c.y. of displaced soil/sludge mixture. Coupled with the similar substitution of 1 ft. of stone for bankrun material (EL 2 to 3), VFL believes the closure can be completed as designed and approved. Including disposal costs this alternative would represent additional costs of $300-400,000 to TL.

It is our belief that both of these options are probably beyond the current funding limits of the project and could result in serious consequences to Textron Lycoming. Therefore, VFL Technology believes that it is in your best interests to further investigate alternate approaches, if any, which could circumvent this situation. After extensive internal discussions for the past several days, VFL believes that a cost-effective solution exists.

VFL Technology proposes in-situ stabilization of the subsurface below elevation 2. Utilizing cement and/or cement kiln dust up to a 15% mix ratio (wet weight basis), VFL would stabilize the sludge, soil, peat mixture existing into a structural base. Then as done on the equalization basin, stone would be substituted for the initial foot of the closure (for groundwater control) and the design closure installed. This in-situ stabilization offers several advantages:

A) COST

In-situ stabilization of the material eliminates costly hauling and disposal charges.

B) TIME

In-situ stabilization would add approximately two-three weeks to the project schedule. Other alternatives could add from three to six weeks based on truck availability constraints.

C) PROVEN TECHNOLOGY

In-situ stabilization has been utilized extensively and VFL Technology is an acknowledged expert in the field.

D) NO REQUIREMENT TO MODIFY CLOSURE PLAN

Since the work will be on the subsurface below the closure base elevation there is no expected need for state review and approvals.

E) ENVIRONMENTAL SAFETY

The in-situ stabilization of residual sludge below elevation 2 would reduce further groundwater contamination through the fixation of waste products.

The in-situ stabilization of the subsurface soils would be accomplish utilizing heavy construction equipment to add and mix additives to the existing soils. Our estimated cost for this work is $100,000. Work would be performed on a lump sum basis and would include appropriate warranties. This approach presents a proven technological approach that offers a 75% to 90% savings over more traditional applications.

Recognizing the urgency of this situation, VFL requests that a meeting be set for Tuesday, November 1, 1988 with all appropriate TL personnel to effect a prompt decision. Without this decision, VFL Technology will be unable to pursue completion of its contract as it presently exists.

Please advise if any additional technical information is required for our meeting next week.

Very truly yours,

James P. Hopkins, P.E.
Vice President Project Management

JPH/al

cc: E. Duggan, TL
J. Fleming, TL
L. Ruggiano, VFL
A. Gentile, VFL
R. Patton, VFL
J. Landis, VFL
J. Tropea, VFL
E. Poulson, VFL

TEXTRON Lycoming

Stratford Division
Textron Lycoming /
Subsidiary of Textron Inc.

550 Main Street
Stratford, CT 06497
203/385-2000

3 November 1988

George Dews
Ct. DEP
Hazardous Mat'ls. Mgmt.
165 Capitol Avenue
Hartford, CT 06106

Dear Mr. Dews:

As I had indicated in our telephone conversation it appears that in the surface impoundments poor sub-surface conditions exist at elevations 0 to -1 (and more? - possibly -4 in lagoons 3 & 4).

The material existing below this elevation cannot support the closure structure. Since any change in the closure plan is being avoided if possible, relaxation of the compaction requirement is being avoided. It is felt by the contractor, VFL, that placing rock below the elevation 2 to bridge the non-bearing areas will not be satisfactory or work.

Consequently VFL based on past experience partially proposes in-situ stabilization of the sub-surface below elevation 2. Utilizing cement and/or cement kiln dust up to a 15% mix ratio (net weight basis) VFL will stabilize the mixture below elevation 2 existing into a structural base. Then stone would be substituted for the initial foot of closure for groundwater control and the designed closure installed as in the approved plan. This in-situ stabilization offers the following:

1. Cost
   In-situ stabilization of the material eliminates the cost and uncertainty of trying to find a firm structure.

2. Time
   In-situ stabilization would add approximately two - three weeks to the project schedule. Other alternatives could add from three to six weeks to begin seeking a stable base.

3. Proven Technology
   In-situ stabilization has been used extensively and VFL Technology is an acknowledged expert in the field.

4. No requirement to modify the closure plan since the work will be on the sub-surface below the closure base elevation there is no expected need for plan change.

5. Environmental Safety
The in-situ stabilization below elevation 2 would reduce further groundwater contamination possibility through the fixation.

The in-situ stabilization of the sub-surface materials will be accomplished utilizing heavy construction equipment to add and mix additives to the existing soils.

If you have any questions please do not hesitate to contact me.

Very truly yours,

TEXTRON LYCOMING

John Fleming

John Fleming, Supv.
Environmental Compliance

cc: R. Ledger, US EPA Region I
J. Hopkins, VFL
D. Ashford, T.L.
D. Carpenter, T. L.
P. Bonitatebus T.L.

VFL TECHNOLOGY CORPORATION

42 LLOYD AVENUE • MALVERN, PENNSYLVANIA 19355 • (215) 296-2233

November 15, 1988

Textron Lycoming
550 Main Street
Stratford, CT 06497-2452

Attn: Ms. Donna Ashford
Plant Engineering

Subj: TL P.O. No. H236208
VFL Project No. C-2260
Stabilization Work

Dear Donna:

Textron Lycoming's Corporate Purchasing Department has directed VFL Technology to submit to Textron Lycoming Plant Engineering design mix information. This design mix information is for the in-situ stabilization of Lagoons 2, 3, and 4 subsurface conditions. Purchasing has directed that VFL obtain your review and approval for contract records. Enclosed are two copies of this information. Please return one signed copy to either our home or field office. Your cooperation and support is appreciated.

Very truly yours,

James P. Hopkins, P.E.
Vice President Project Management

JPH/al

Enclosure

cc: E. Duggan, TL
J. Landis, VFL
L. Ruggiano, VFL

000930

TEXTRON LYCOMING - STRATFORD, CONNECTICUT

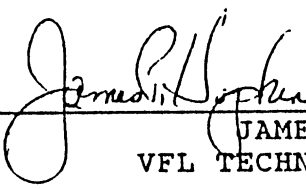
SUBGRADE STABILIZATION

Based upon the following test samples:

P-1	Average Composite Conditions	51% Solids
P-2	Worst Case Composite	26% Solids

	STRENGTH (TSF)	
	P-1	P-2
15% Cement (2 Days)	4.5	.75
15% Cement (3 Days)	-	1.5
15% Cement (7 Days)	-	4.5

Based upon this testing, 15% cement minimum is to be required. Cement ratio may be increased for P-2 type material if necessary for improved cure/accessibility. Actual design decisions by field personnel.

Submitted 

JAMES P. HOPKINS
VFL TECHNOLOGY CORPORATION

Accepted _____

TEXTRON LYCOMING

TEXTRON LYCOMING - STRATFORD, CONNECTICUT

SUBGRADE STABILIZATION

Based upon the following test samples:

P-1	Average Composite Conditions	51% Solids
P-2	Worst Case Composite	26% Solids

	STRENGTH (TSF)	
	P-1	P-2
15% Cement (2 Days)	4.5	.75
15% Cement (3 Days)	-	1.5
15% Cement (7 Days)	-	4.5

Based upon this testing, 15% cement minimum is to be required. Cement ratio may be increased for P-2 type material if necessary for improved cure/accessibility. Actual design decisions by field personnel.

Submitted _____

JAMES P. HOPKINS
VFL TECHNOLOGY CORPORATION

Accepted _____

TEXTRON LYCOMING

VFL TECHNOLOGY CORPORATION

42 LLOYD AVENUE • MALVERN, PENNSYLVANIA 19355 • (215) 296-2233

October 11, 1988

Ms. Donna Ashford
Plant Engineering
Textron Lycoming
550 Main Street
Stratford, CT 06497-2452

Subject: Textron Lycoming
Purchase Order No. H236208
VFL Project No. C2260

Dear Donna:

Attached are the washed sieve analyses of fill material for the referenced project. Please excuse the delay in forwarding.

Very truly yours,

James P. Hopkins, P.E.
Vice President Project Management

JPH/tg

cc: Mr. J. R. Landis/VFL

Attachments (2)

000933

MATERIALS TESTING, INC.

100 RATON DRIVE • MILFORD, CONNECTICUT 06460 • (203) 878-2765
CHAPMAN ROAD • MARLBOROUGH, CONNECTICUT 06424 • (203) 295-0330

CLIENT VFL Technology Corp.
Station Square 3
Suite 206
Paoli, Pa. 19302

DATE 8-16-88

REPORT NO. S-1000

PROJECT Surface Impoundment Closure
Project #fY 82/01B
Stratford Army Engine Plant

SUBJECT WASHED SIEVE ANALYSIS

MATERIAL: BANK RUN GRAVEL
SOURCE: BUTTERWORTH CONSTRUCTION-ACCESS & SPERRY ROAD- STRATFORD,
SAMPLED BY MATERIALS TESTING, INC., ON 8-10-88

SIEVE SIZE	PERCENT PASSING	SPECIFICATION
3"	100	100
2"	100	
1½"	86.3	
1"	86.3	
3/4"	81.9	
1/2"	77.0	
3/8"	75.3	
1/4"	73.4	
#10	66.5	
#20	56.0	
#40	37.1	
#100	17.6	
#200	7.0	0-10

THE ABOVE TEST RESULT MEETS THE REQUIRED GRADING.

MATERIALS TESTING, INC.

Frank A. Soucy

FRANK A. SOUCY

2cc client
1cc Butterworth Construction

MATERIALS TESTING, INC.

100 RATON DRIVE • MILFORD, CONNECTICUT 06460 • (203) 878-2765
CHAPMAN ROAD • MARLBOROUGH, CONNECTICUT 06424 • (203) 295-0330

CLIENT VFL Technology Corp.
Station Square 3
Suite 206
Paoli, Pa 19301

DATE 8-19-88

REPORT NO. S-1001

PROJECT Surface Impoundment Closure
Project #FY 82/01B
Stratford Army Engine Plant

SUBJECT WASHED SIEVE ANALYSIS

MATERIAL: FINE AGGREGATE (SAND)
SOURCE: O & G INDUSTRIES - SHELTON SAND
SAMPLED BY MATERIALS TESTING, INC., ON 8-18-88 FROM BOSWICK AVENUE - BRIDGEPORT, CT

SIEVE SIZE	PERCENT PASSING	ASTMC-33
3/8"	100	100
#4	97.0	95-100
#8	92.1	80-100
#16	80.3	50-85
#30	52.9	25-60
#50	21.0	10-30
#100	5.8	2-10

THE ABOVE TEST RESULT MEETS THE REQUIRED GRADING.

MATERIALS TESTING, INC.

Frank A. Soucy

FRANK A. SOUCY

2cc client
1cc Butterworth Construction

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF CONNECTICUT
vs.
AVCO LYCOMING DIVISION

IN THE MATTER OF AN ORDER TO AVCO LYCOMING DIVISION TO ABATE POLLUTION

ORDER

Having found that Avco Lycoming Division, located at 550 South Main Street in Stratford, Connecticut is in violation of Connecticut's Hazardous Waste Management Regulations and is maintaining a facility or condition which can reasonably be expected to create a source of pollution to the waters of the State of Connecticut, under the provisions of Chapter 446k of the Connecticut General Statutes as amended, the Commissioner of Environmental Protection acting under Sections 22a-6, 22a-432, and 22a-449 of the General Statutes, hereby orders Avco Lycoming Division to take such action as is necessary to:

1. Bring all waste handling procedures and facilities into compliance with the State's Hazardous Waste Management Regulations.

2. Effect the removal and proper disposal of all hazardous, toxic, and other industrial waste now stored on-site in a manner approved by the Commissioner of Environmental Protection.

Avco Lycoming Division is further ordered to accomplish the above described program, except as may be revised by the Commissioner of Environmental Protection, in accordance with the following schedule:

A. On or before November 30, 1984, verify to the Commissioner of Environmental Protection that a qualified consultant has been retained, or demonstrate that in-house expertise exists, to perform the necessary studies, excavation, repackaging, and disposal of waste required under Directives 1 and 2.

B. On or before January 31, 1985, submit to the Commissioner of Environmental Protection for review and approval, a detailed report providing an inventory (identify and quantify) and hazardous waste determination for all wastes stored on-site, and an implementation schedule to be executed by a licensed chemical waste disposal firm for the removal and proper disposal of all hazardous substances in accordance with Directive 2.

C. On or before March 31, 1985, verify to the Commissioner of Environmental Protection that all hazardous wastes have been removed and properly disposed of in accordance with the plan approved under Step B.

Phone:
165 Capitol Avenue • Hartford, Connecticut 06106

D. On or before ~~January 31, 1985~~ 3/3/85, submit to the Commissioner of Environmental Protection a report which details the remedial measures necessary to achieve compliance with all applicable hazardous waste regulations including: a contingency plan, personnel training records, an inspection schedule and log, waste analysis plan, operating records, container management, revised closure plan, and a detailed description of hazardous waste management procedures to be implemented pursuant to Directive 1.

E. On or before ~~March 31, 1985~~ 5/3/85, verify to the Commissioner of Environmental Protection that the remedial measures approved in compliance with Step D have been implemented.

Entered as an Order of the Commissioner of Environmental Protection the 22nd day of October, 1984.

Stanley J. Pac
Commissioner

Order No. HM-215
City of Stratford

Sent Certified Mail
Return Receipt Requested

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPROVAL

Michael P. Nosenzo
Environmental Engineer
AVCO Lycoming Division
550 South Main Street
Stratford, Connecticut 06497

Re: Order No. HM-215

Dear Mr. Nosenzo:

The correspondence dated 11/27/84, 1/30/85 and 3/25/85, prepared by Industrial Pollution Control and submitted by AVCO Lycoming Division, has been reviewed by the Department of Environmental Protection.

These reports comply with DEP Order No. HM-215, to AVCO Lycoming Division, fulfilling the requirements of Steps A and B of the Order.

These reports are hereby approved in accordance with Sections 22a-432, 22a-449 and 22a-6 of the Connecticut General Statutes, as amended.

This approval does not relieve the facility of the obligation to obtain any other authorization, as may be required by other provisions of the Connecticut General Statutes, or regulations of Connecticut State agencies.

Sincerely,

Stephen W. Hitchcock
Director
Hazardous Materials Management Unit

SWH:MAF:pmg

cc: W. Hirschfield, I, Esquire

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

A P P R O V A L

Michael P. Nosenzo
Environmental Engineer
AVCO Lycoming Division
559 South Main Street
Stratford, Connecticut 06497

Re: Order No. HM-215

Dear Mr. Nosenzo:

The report dated April 1, 1985, prepared by Industrial Pollution Control and submitted by AVCO Lycoming Division, has been reviewed by the Department of Environmental Protection.

This report complies with DEP Order No. HM-215, to AVCO Lycoming Division, fulfilling the requirements of Steps C and D of the Order.

This report is hereby approved in accordance with Sections 22a-432, 22a-449 and 22a-6 of the Connecticut General Statutes, as amended.

This approval does not relieve the facility of the obligation to obtain any other authorization as may be required by other provisions of the Connecticut General Statutes, or regulations of Connecticut State Agencies.

Sincerely

S. W. Hitchcock

Stephen W. Hitchcock
Director
Hazardous Materials Management Unit

SWH:MAG:pmg

cc: W. Hirshfield, I, Esquire

Phone:
165 Capitol Avenue • Hartford, Connecticut 06106

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

July 3, 1985

A P P R O V A L

John Flemming, Chief
Environmental Engineering
AVCO Lycoming Division
559 South Main Street
Stratford, Connecticut 06497

Re: Order HM-215

Dear Mr. Flemming:

The letter you submitted has been reviewed by the Department of Environmental Protection.

This report complies with Department of Environmental Protection, Hazardous Materials Management Unit's Order No. HM-215 to AVCO Lycoming Division, entered on October 22, 1984, fulfilling the requirements of Step E of the Order.

The report is hereby approved in accordance with Sections 22a-449, 22a-432 and 22a-6 of the Connecticut General Statutes, as amended.

This APPROVAL does not relieve the facility of the obligation to obtain any other authorizations as may be required by other provisions of the Connecticut General Statutes, or regulations of Connecticut State agencies.

Very truly yours,

Stephen W. Hitchcock
Director
Hazardous Materials Management Unit

SWH:MAF:pmg

cc: Michael P. Nosenzo
W. Hirshfield, Esquire

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

October 8, 1985

Mr. John Flemming
Environmental Compliance
AVCO Lycoming Division
559 South Main Street
Stratford, Connecticut 06497

Dear Mr. Flemming:

Enclosed please find, as you requested, a copy of the July 2, and July 5, 1985 inspection report for AVCO. If you have any questions concerning this report we may discuss them at the meeting we have scheduled for October 18, 1985 at 10:00.

Do not hesitate to call me if you require any additional information.

Sincerely,

Mark A. Franson

Mark A. Franson
Sanitary Engineer
Hazardous Waste Management Section

MAF:kls

Enclosure

Phone: 566-8843
165 Capitol Avenue • Hartford, Connecticut 06106

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

LETTER OF COMPLIANCE

February 18, 1986

John Meyers
Vice President and General Manager
AVCO Lycoming Division
550 South Main Street
Stratford, CT 06497

RE: ORDER NO. HM-215

Dear Mr. Meyers:

On January 6, 1986, a compliance inspection of AVCO Lycoming Division, located at 550 South Main Street in Stratford, Connecticut, was conducted by the staff of the Department of Environmental Protection, Hazardous Materials Management Unit. As a result of documents submitted to this office, the Department has verified that compliance with Order No. HM-215 and Connecticut's Hazardous Waste Management Regulations has been achieved.

This letter, therefore, is to acknowledge full compliance with the Commissioner of Environmental Protection's Order No. HM-215 entered on the 22nd day of October, 1984.

Sincerely,

Stanley J. Pac
Commissioner

SJP:MAF:jab

cc: John Flemming
AVCO
Kenneth N. Tedford
Assistant Attorney General

VFL TECHNOLOGY CORPORATION

42 LLOYD AVENUE • MALVERN, PA 19355 • (215) 296-2233 • FAX (215) 296-9545

March 7, 1990

Ms. Donna Ashford
Textron Lycoming Division
550 South Main Street
Stratford, Ct 06497

Subject: Textron Lycoming Contract No. H236288
VFL Project No. C-2260

Dear Ms. Ashford:

In accordance with the requirements of the contract documents, VFL Technology Corporation (VFL) hereby certifies that all work performed on the above referenced project was carried out in accordance with the contract documents and with all federal, state and local regulations.

VFL appreciates the opportunity to have worked for Textron Lycoming on this project and looks forward to future opportunities.

Sincerely,

Alexander J. Fazzini, P.E.

AFJ/pls