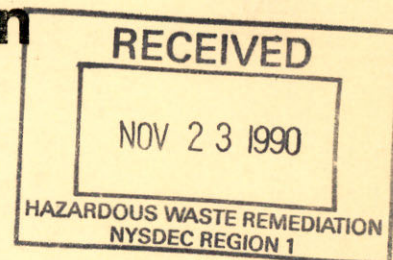


Phase II Investigation
Appendices
Merrick Landfill
Town of Hempstead
Nassau County, New York



Prepared for:

Town of Hempstead
Department of Sanitation
James H. Heil, P.E.
Commissioner of Sanitation

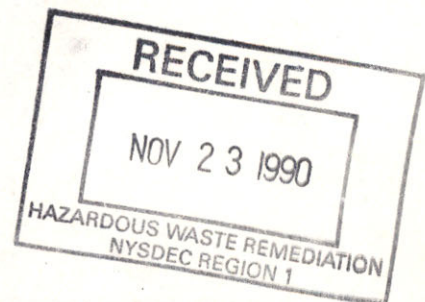
Velzy ASSOCIATES

Charles R Velzy Associates, Inc.

A wholly owned subsidiary of Roy F. Weston, Inc.
Armonk, New York
Buffalo, New York
Carle Place, Long Island, New York
York, Pennsylvania

APPENDIX A

MONITORING WELLS - ORGANIC ANALYSES





TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

SUMMARY

Project No.: 87-13700 (GS)
ORG.

P.O. No.: 21-1987

Date: DECEMBER 31, 1987

ANALYTICAL DATA REPORT PACKAGE
FOR

TOWN OF HEMPSTEAD DEPT. OF SANITATION

1600 MERRICK RD.

MERRICK, N.Y. 11566

ATTN: JAMES HEIL

SAMPLE IDENTIFICATION	LABORATORY NUMBER	TYPE OF SAMPLE	DATE AND TIME OF SAMPLE COLLECTION
M1A-1	N7-7236	WATER	11/13/87 11:00 AM
M1B-1	N7-7237	WATER	11/13/87 10:00 AM
M2A-1	N7-7238	WATER	11/13/87 1:00 PM
M2B-1	N7-7239	WATER	11/13/87 12:30 PM
M3A-1	N7-7240	WATER	11/13/87 3:00 PM
M3B-1	N7-7241	WATER	11/13/87 3:30 PM

REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

REMO GIGANTE
EXECUTIVE V.P.

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

SUMMARY

Project No.: 87-13700 (F)S
ORG.

P.O. No.: 21-1987

Date: DECEMBER 31, 1987

ANALYTICAL DATA REPORT PACKAGE FOR

TOWN OF HEMPSTEAD DEPT. OF SANITATION

1600 MERRICK RD.

MERRICK, N.Y. 11566

ATTN: JAMES HEIL

SAMPLE IDENTIFICATION	LABORATORY NUMBER	TYPE OF SAMPLE	DATE AND TIME OF SAMPLE COLLECTION
M4A-1	N7-7226	WATER	11/12/87 3:00 PM
M4B-1	N7-7227	WATER	11/12/87 4:00 PM
M5A-1	N7-7223	WATER	11/12/87 11:00 AM
M5A-2	N7-7228	WATER	11/12/87 11:00 AM
M5B-1	N7-7224	WATER	11/12/87 12:00 PM
M8-1	N7-7225	WATER	11/12/87 2:00 PM

REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

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EXECUTIVE V.P.

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

SUMMARY

Project No.: 87-13700 (HS)

ORG

P.O. No.: 21-1987

Date: DECEMBER 31, 1987

ANALYTICAL DATA REPORT PACKAGE
FOR

TOWN OF HEMPSTEAD DEPT. OF SANITATION

1800 MERRICK RD.

MERRICK, N.Y. 11566

ATTN: JAMES HEIL

SAMPLE IDENTIFICATION	LABORATORY NUMBER	TYPE OF SAMPLE	DATE AND TIME OF SAMPLE COLLECTION
MSA-1	N7-7244	WATER	11/16/87 1:00 PM
MSB-1	N7-7245	WATER	11/16/87 1:15 PM
M7A-1	N7-7246	WATER	11/16/87 2:30 PM
M7B-1	N7-7247	WATER	11/16/87 3:00 PM

REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

REMO GIGANTE
EXECUTIVE V.P.

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

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NA = NOT AVAILABLE

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME		NO. OF CONTAINERS		ANALYSIS										REMARKS	
CLIENT NAME						P.P. SCAM	OIL & GREASE	CYANIDE	PHENOL	VOLATILE	METALS	PESTICIDES/PCO	BACTERIAL	UNPRESERVED	ADDITIONAL REQUIREMENTS		
SAMPLE I.D. NO.	DATE	TIME	COMP	GRAB	SAMPLE MEDIUM	SAMPLING LOCATION											
M1A-1	11/13/87	10am	X		ground water	Well m1A - near driving range of golf course	7							NYS DEC Hazardous Substance List parameters w/ GLP Protocol			
M1B-1	"	10 Am	X		ground water	Well m1B - same location as well m1A	7										
M2A-1	"	1 Pm	X		leachate	Well m2A along access road of golf course	7										
M2B-1	"	12:30pm	X		ground water	Well m2B - same location as well m2A	7										
M3A-1	"	3pm	X		ground water	Well m3A - near bath rooms of golf course	7										
M3B-1	"	3:30pm	X		ground water	Well m3B - same location as well m3A	7										
Shipped Via.																	
Relinquished by (Signature)		Date/Time		Agent of:		Rec'd. by (Signature)		Date/Time		Agent of:							
James Nuccio		11/13/87 7:45		Chas. Velzy Assoc. Carle Place		John Sant		11/13/88		HEF							
Relinquished by (Signature)		Date/Time		Agent of:		Rec'd. by (Signature)		Date/Time		Agent of:							
Relinquished by (Signature)		Date/Time		Received for Laboratory by:		Date/Time		Remarks:									
John Rhyner				John Rhyner		11/13/88		Please provide turbidity values (NTU units) for a representative subsample of each sample kit									
Sampler (Signature)				Samplers Name (Print)													
John Rhyner				John Rhyner		James Nuccio											

CHAIN OF CUSTODY RECORD FORM
MERRICK LANDFILL

FIGURE 4-1

Velzy ASSOCIATES

1000000

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME					NO. OF CONTAINERS	ANALYSIS												REMARKS
CLIENT NAME								P.A. SCAM OIL & GREASE CYANIDE PHENOL VOLATILE METALS PESTICIDES/PCBs BACTERIAL UNSPECIFIED ADDITIONAL REQUIREMENTS												
SAMPLE I.D. NO.	DATE	TIME	CONC.	GRAB	SAMPLE MEDIUM	SAMPLING LOCATION														
M5A-2	11/12/87	11 AM	X			Well M5A - SW corner of trailer parking lot	1												Trip Blank - Vol. org's.	
m5A-1	11/12/87	11 AM	X			Same	7												NYSDEC Hazardous Substance List with CLP Protocol	
m5B-1	11/12/87	12 Noon	X			Well M5B - same location as M5A	7													
m8-1	11/12/87	2 PM	X			Well M8 - middle of western haul road	7													
m4A-1	11/12/87	3 PM	X			Well M4A - south tip of haul road	7													
m4B-1	11/12/87	4 PM	X			Same location as Well M4A	7													
Shipped Via:																				
Relinquished by (Signature)		Date/Time		Agent of:		Received by (Signature)		Date/Time		Agent of:		Please provide turbidity values (NTUs) for a representative sub-sample of each sample package								
John Rhyner		11/12/87		Chas. Velzy Assoc. Carle Place NY		B. Marmen		11/12/87 8:00 PM		Town of Hempstead										
Printed Name		Date/Time		Agent of:		Printed Name		Date/Time		Agent of:										
John Rhyner		11/12/87 8:00 PM		Town of Hempstead		John Rhyner		11/12/87 8:00 PM		Chas. Velzy Assoc. Carle Place										
Relinquished by (Signature)		Date/Time		Received for Laboratory by (Signature)		Date/Time														
John Rhyner		11/12/87 9:20 PM		Paul Fusco		11/12/87 9:20 PM														
Printed Name		Date/Time		Printed Name		Date/Time														
John Rhyner		11/12/87 9:20 PM		Paul Fusco		11/12/87 9:20 PM														
Sampler (Signature)		Date/Time		Sampler Name (Print)																
John Rhyner / James Grosso		11/12/87 9:20 PM		John Rhyner / James Grosso																

CHAIN OF CUSTODY RECORD FORM
MERRICK LANDFILL

FIGURE 4-1

100000

PROJECT NO.		PROJECT NAME						ANALYSIS									REMARKS	
CLIENT NAME								NO. OF CONTAINERS	P.P. SCAN	OIL & GREASE	CYANOIDE	PHENOL	VOLATILE	METALS	PESTICIDES/PCO	BACTERIAL	UNPRESERVED	ADDITIONAL REQUIREMENTS
SAMPLE I.D. NO.	DATE	TIME	COMP	GRAB	SAMPLE MEDIUM	SAMPLING LOCATION												
m6A-1	11/16/87	1 PM	X		Groundwater	Well m6A - behind Traffic Control	7											NYS DEC Hazardous Substance List parameters with CLP Protocol
m6B-1	11/16/87	1:15 PM	X			Well m6B - same location as well m6A	7											
m7A-1	11/16/87	2:30 PM	X			Well m7A - in front of Admin building	7											
m7B-1	11/16/87	3 PM	X			well m7B - same location as Well m7A	7											
Shipped Via:																		
Relinquished by (Signature)		Date/Time	Agent of:				Rec'd. by (Signature)	Date/Time P.M.	Agent of:									
<i>[Signature]</i>		11/16 4:40	Charles K. Velez		Cable Pl. / N.Y.		<i>[Signature]</i>	11/16/87 4:40	NYTCS									
Printed Name			Date/Time		Agent of:		Printed Name											
James NUCCIO							Robert Lombardo											
Relinquished by (Signature)		Date/Time	Agent of:				Rec'd. by (Signature)	Date/Time	Agent of:									
<i>[Signature]</i>							<i>[Signature]</i>											
Printed Name							Printed Name											
John Rhyner / James Nuccio																		
Relinquished by (Signature)		Date/Time P.M.	Received for Laboratory by:				Date/Time	Remarks:										
<i>[Signature]</i>		11/16/87 5:30	<i>[Signature]</i>		<i>[Signature]</i>		11/16 5:30	Please provide turbidity values (NTU units) for a representative subsample of each sample										
Printed Name			(Signature)		Christine Supple													
Robert Lombardo			Printed Name		CHRISTINE SUPPLE													
Sampler (Signature)			Samplers Name (Print)		John Rhyner / James Nuccio													

FIGURE 4-1

00002

Laboratory Chronicle

Project No:87-13700

Client Name: TOWN OF HEMPSTEAD

Date Received:11/13/87

Sample ID:M1A-1,M1B-1,M2A-1,M2B-1,M3A-1,M3B-1

Organics Extraction:

11/17/87

1. Acids _____

11/17/87

2. Base/Neutrals _____

11/17/87

3. Pesticides/PCBs _____

4. Dioxin _____

Analysis:

11/19/87 - 11/20/87

1. Volatiles _____

12/7/87 - 12/8/87

2. Acids _____

12/7/87 - 12/8/87

3. Base/Neutrals _____

12/10/87

4. Pesticides/PCBs _____

5. Dioxin _____

Section Supervisor

Review & Approval

D. Sheely

Inorganics:

1. Metals _____

2. Cyanides _____

3. Phenols _____

Other Analysis:

Section Supervisor

Review & Approval

Quality Control Supervisor

Review & Approval

If fractions are re-extracted and re-analyzed include dates for both.

000002

Laboratory Chronicle

Project No:87-13700

Client Name: TOWN OF HEMPSTEAD

Date Received:11/16/87

Sample ID: M6A-1,M6B-1,M7A-1,M7B-1

Organics Extraction:

11/19/87

1. Acids _____

11/19/87

2. Base/Neutrals _____

11/19/87

3. Pesticides/PCBs _____

4. Dioxin _____

Analysis:

11/20/87, 11/19/87

1. Volatiles _____

12/8/87, 12/7/87

2. Acids _____

12/8/87, 12/7/87

3. Base/Neutrals _____

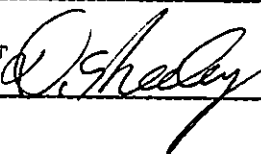
12/10/87

4. Pesticides/PCBs _____

5. Dioxin _____

Section Supervisor

Review & Approval



Inorganics:

1. Metals _____

2. Cyanides _____

3. Phenols _____

Other Analysis:

Section Supervisor

Review & Approval

Quality Control Supervisor

Review & Approval

If fractions are re-extracted and re-analyzed include dates for both.

000003

Laboratory Chronicle

Project No: 87-13700

Client Name: TOWN OF HEMPSTEAD

Date Received: 11/12/87

Sample ID: M4A-1, M4B-1, M5A-1, M5A-2, M5B-1, M8-1

Organics Extraction:

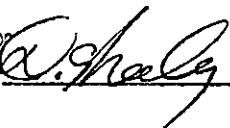
- 11/16/87
1. Acids _____
 - 11/16/87
 2. Base/Neutrals _____
 - 11/16/87
 3. Pesticides/PCBs _____
 4. Dioxin _____

Analysis:

- 11/18/87, 11/19/87
1. Volatiles _____
 - 11/30/87
 2. Acids _____
 - 11/30/87
 3. Base/Neutrals _____
 - 12/10/87
 4. Pesticides/PCBs _____
 5. Dioxin _____

Section Supervisor

Review & Approval



Inorganics:

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

Section Supervisor

Review & Approval

Quality Control Supervisor

Review & Approval

If fractions are re-extracted and re-analyzed include dates for both.

000002

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M1A-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7238

Sample Matrix: WATER

Data Release Authorized By: *D. Sheely*

QC Report No:

Project No:87-13700

Date Sample Received:11/13/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: NA
 Date Analyzed:11/19/87
 Conc/Dil Factor: 1 pH:
 Percent Moisture:NA
 Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
 Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE	If the result is a value greater than or equal to the detection limit, report the value.	C	This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.
U	Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.	B	This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).	OT	Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000006

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M1A-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/17/87
Date Analysed: 12/7/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	30.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	30.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	150.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	30.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	30.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	150.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	150.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	150.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	30.0 U
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	30.0 U
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000007

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: MIA-1

Contractor :INTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	NO COMPOUNDS FOUND	VOA		
2	NO COMPOUNDS FOUND	BMA		
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000002

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M1A-1

CONTRACTOR: NYTEST ENVI. INC.

PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/17/87

Date Analyzed: 12/10/87

Conc/Dil Factor:

Percent Moisture (decented):

GPC Cleanup Yes NoSeparatory Funnel Extraction X YesContinuous Liquid-liquid Extraction Yes

3

CAS
Numberug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Araclor-1016	1.50 U
11104-28-2	Araclor-1221	1.50 U
11141-16-5	Araclor-1232	1.50 U
53469-21-9	Araclor-1242	1.50 U
12672-29-6	Araclor-1248	1.50 U
11097-69-1	Araclor-1254	3.00 U
11096-82-5	Araclor-1260	3.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 300

or Ws _____

Vt 10000

Vi 4.0

000009

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7237

Sample Matrix: WATER

Data Release Authorized By: *a. Shealy*

QC Report No:

Project No:87-13700

Date Sample Received:11/13/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/19/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethane	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethane	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethane	4.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000010

SEMIVOLATILE COMPOUNDS

Concentration Low Medium (Circle One)
Date Extracted/Prepared: 11/17/87
Date Analysed: 12/7/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	30.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39538-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	30.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	150.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	30.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	30.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	150.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	150.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	150.0 U

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	30.0 U
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	30.0 U
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000011

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M1B-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	NO COMPOUNDS FOUND NONE FOUND	VOA BNA		
2				
3				
4				
5				
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000012

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M18-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/17/87

Date Analyzed: 12/10/87

Conc/Dil Factor:

Percent Moisture (decented):

GPC Cleanup Yes NoSeparatory Funnel Extraction X YesContinuous Liquid-liquid Extraction Yes

3

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 300

or Ws _____

Vt 10000

Vi 4.0

000013

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M2A-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7238

Sample Matrix: WATER

Data Release Authorized By *D. Sheeley*

QC Report No:

Project No:87-13700

Date Sample Received:11/13/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/19/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	8.0 JB
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection-limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000014

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M2A-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/17/87
Date Analysed: 12/7/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	30.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	30.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	150.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	30.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	30.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	150.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	150.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	150.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	18.0 J
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	30.0 U
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine ..

000015

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M2A-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l) or ug/kg)
1	NO COMPOUNDS FOUND	VOA		
2	NONE FOUND	BNA		
3				
4				
5				
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000016

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M2A-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/17/87

Date Analyzed: 12/10/87

Conc/Dil Factor:

Percent Moisture (decented):

GPC Cleanup Yes NoSeparatory Funnel Extraction X YesContinuous Liquid-liquid Extraction Yes

3

CAS
Number

ug/l or ug/kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 300

or Ws _____

Vt 10000

Vi 4.0

000017

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M2B-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7239

Sample Matrix: WATER

Data Release Authorized By: *D. Shelep*

QC Report No:

Project No:87-13700

Date Sample Received:11/13/87

VOLATILE COMPOUNDS

Concentration: LOW Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/19/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	16.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE	If the result is a value greater than or equal to the detection limit, report the value.	C	This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.
U	Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.	B	This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).	OT	Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000018

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M2B-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/17/87
Date Analysed: 12/7/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: ___ Yes X No
Separatory Funnel Extraction: x Yes
Continuous Liquid-Liquid Extraction: ___ Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	30.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	30.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	150.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	30.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	30.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	150.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	150.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	150.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	2.0 J
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	280.0
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	30.0 U
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000019

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M2B-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	NO COMPOUNDS FOUND UNKNOWN	VOA BNA	20.508	47 J
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

000020

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M2B-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/17/87

Date Analyzed: 12/10/87

Conc/Dil Factor:

Percent Moisture (decented):

GPC Cleanup Yes No

Separatory Funnel Extraction X Yes

Continuous Liquid-liquid Extraction Yes

3

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 300

or Ws _____

Vt

10000

Vi

4.0

000021

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M3A-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7240

Sample Matrix: WATER

Data Release Authorized By: *W. Healey*

QC Report No:

Project No:87-13700

Date Sample Received:11/13/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/19/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	2.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	4.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000024

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M3A-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/17/87
Date Analysed: 12/8/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	30.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	30.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	150.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	30.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	30.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	150.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	150.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	150.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	30.0 U
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	30.0 U
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000023

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M3A-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	NO COMPOUNDS FOUND	VOA		
2	NONE FOUND	BNA		
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

000024

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M3A-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/17/87
Date Analyzed: 12/10/87
Conc/Dil Factor:
Percent Moisture (decanted):

GPC Cleanup Yes No
Separatory Funnel Extraction X Yes
Continuous Liquid-liquid Extraction Yes

3

CAS Number	ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 300

or Ws _____

Vt 10000

Vi 4.0

000025

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M38-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7241

Sample Matrix: WATER

Data Release Authorized By: *D. Shadley*

QC Report No:

Project No:87-13700

Date Sample Received:11/13/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: NA
 Date Analyzed:11/19/87
 Conc/Dil Factor: 1 pH:
 Percent Moisture:NA
 Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	7.0 JB	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	3.0 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethane	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	4.0 J
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
 Additional flags or footnotes explaining results are encouraged. However, the
 definition of each flag must be explicit.

- VALUE If the result is a value greater than or equal to the detection limit, report the value.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).
- C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.
- B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000026

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M3B-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/17/87
Date Analysed: 12/8/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	30.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	30.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	150.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	30.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	30.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	150.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	150.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	150.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	37.0
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	30.0 U
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000027

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M3B-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	UNKNOWN	VOA	35:44	9 J
2	NONE FOUND	BNA		
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
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25				
26				
27				
28				
29				
30				

000028

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M3B-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/17/87

Date Analyzed: 12/10/87

Conc/Dil Factor:

Percent Moisture (decented):

GPC Cleanup Yes NoSeparatory Funnel Extraction X YesContinuous Liquid-liquid Extraction Yes

3

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 300

or Ws _____

Vt 10000

Vi 4.0

000029

SURROGATE PERCENT RECOVERY SUMMARY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Low: Medium:

[----- VOLATILE -----][----- SEMI-VOLATILE -----][PESTICIDES]

SNO TRAFFIC NO.	TOLUENE-D8 (88-110)	8FB (86-115)	1,2 DICHLORO- ETHANE-D4 (76-114)	NITRO- BENZENE-D5 (35-114)	2-FLUORO- BIPHENYL (43-116)	TERPHENYL- D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO- PHENOL (21-100)	2,4,6 TRIBROMO- PHENOL (10-123)	** DIBUTYL- CHLORENDATE (24-154)
METHOD BLANK	97	98	100	78	72	106			26	42	71	63
M1A-1	98	98	102	78	77	89			58	65	56	113
M1A-1 MS				74	71	74			53	55	57	
M1A-1 MSD				85	88	105			60	70	58	
M1B-1	98	99	107	82	78	139			56	60	44	61
M2A-1	99	97	104	88	86	94			54	65	49	79
M2B-1	101	97	104	82	74	112			51	56	67	64
M3A-1	103	94	96	76	76	88			55	66	47	94
M3B-1	100	95	102	83	84	117			58	65	42	68
METHOD BLANK	97	92	98									
G8B-1	103	94	80									
G8B-1 MS	95	90	86									
G8B-1 MSD	101	84*	83									
M1B-1 MS												92
M1B-1 MSD												64

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 1 out of 33 ; outside of QC limits
Semi-Volatiles: 0 out of 54 ; outside of QC limits
Pesticides: 0 out of 9 ; outside of QC limits

000000

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	%	CONC. MSD	%	RPD	QC LIMITS *	
									RPD	RECOVERY
VOA SMO SAMPLE NO. G88-1	1,1-Dichloroethene	50		31.89	63.78	40.53	81.064	23.87 *	14	61-145
	Trichloroethene	50		38.202	76.404	37.22	74.448	2.59	14	71-120
	Chlorobenzene	50		38.853	77.706	38.53	77.062	0.83	13	75-130
	Toluene	50		37.109	74.218 *	39.48	78.972	6.21	13	76-125
	Benzene	50		39.654	79.308	37.72	75.44 *	5.00	11	76-127
B/N SMO SAMPLE NO. M1A-1	1,2,4-Trichlorobenzene	330		206	63	235	71	13.21	28	39-98
	Acenaphthene	330		348	105	408	124 *	15.96	31	46-118
	2,4-Dinitrotoluene	330		195	59	201	61	3.00	38	24-96
	Di-n-Butylphthalate								40	11-117
	Pyrene	330		191	58	298	90	43.83 *	31	26-127
	N-Nitroso-Di-n-Propylamine	330		197	60	242	73	20.35	38	41-116
ACID SMO SAMPLE NO. M1A-1	1,4-Dichlorobenzene	330		17	5 *	19	6 *	14.50	28	36-97
	Pentachlorophenol	660		42	6 *	43	6 *	1.99	50	9-103
	Phenol	660		212	32	269	41	23.87	42	12-89
	2-Chlorophenol	660		269	41	323	49	18.17	40	27-123
	4-Chloro-3-Methylphenol	660		265	40	262	40	1.37	42	23-97
PEST SMO SAMPLE NO. M1B-1	4-Nitrophenol	660		240.4	36	203.4	31	16.68	50	10-80
	Lindane	1.33		0.46	34.586 *	0.3	22.556 *	42.11 *	15	56-123
	Heptachlor	1.33		1.15	86.466	0.8	60.150	35.90 *	20	40-131
	Aldrin	1.33		1.25	93.984	0.88	66.165	34.74 *	22	40-120
	Dieldrin	3.33		3.13	93.993	1.91	57.357	48.41 *	18	52-126
	Endrin	3.33		2.35	70.570	1.97	59.159	17.59	21	56-121
	4,4'-DDT	3.33		3.74	112.31	2.36	70.870	45.25 *	27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	1	out of	5 ;outside QC limits	RECOVERY	VOA'S	2	out of	10	;outside QC limits
	B/N	1	out of	6 ;outside QC limits		B/N	3	out of	12	;outside QC limits
	ACID	0	out of	5 ;outside QC limits		ACIDS	2	out of	10	;outside QC limits
	PEST	5	out of	6 ;outside QC limits		PEST	2	out of	12	;outside QC limits

Comments:

000031

METHOD BLANK SUMMARY

Contractor: NYTEST ENVI. INC.

Project No: 87-13700

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
D3369	11/19/87	VOA	WATER	LOW	1030	67-64-1	ACETONE	20	UG/L	10
D3387	11/20/87	VOA	WATER	LOW	1030		NO COMPOUNDS FOUND			
B2913	12/7/87	BNA	WATER	LOW	NYT 2		NO COMPOUNDS FOUND			
					TIC:		NONE FOUND		UG/L	
BLANK	12/10/87	PEST	WATER	LOW	HP589D		UNKNOWN	7	UG/L	
							NO COMPOUNDS DETECTED			

Comments:

000032

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030

Lab ID: D3265

Date: 11/10/87

Data Release Authorized By: *d. shee*

Project No: 87-13700

Time: 10:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	22.26
75	30.0 - 60.0% of the base peak	43.22
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.68
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	61.67
175	5.0 - 9.0% of mass 174	3.65 [5.92]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.38 [97.89]*1
177	5.0 - 9.0% of mass 176	3.57 [5.91]**2

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERFORMANCE STANDARD	D3265	11/10/87	10:08
50 NG STANDARD	D3266	11/10/87	11:01
20 NG STANDARD	D3267	11/10/87	11:54
100 NG STANDARD	D3268	11/10/87	12:43
150 NG STANDARD	D3269	11/10/87	13:31
200 NG STANDARD	D3270	11/10/87	14:22

000033

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030

Date: 11/19/87

Lab ID: D3367

Data Release Authorized By: *D. Hally*

Project No: 87-13700

Time: 9:09:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	24.80
75	30.0 - 60.0% of the base peak	46.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.50
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	68.74
175	5.0 - 9.0% of mass 174	4.34[6.31]*
176	Greater than 95.0%, but less than 101.0% of mass 174	68.05[98.99]*
177	5.0 - 9.0% of mass 176	3.91[5.75]**

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	D3367	11/19/87	9:09
WORK STD	D3368	11/19/87	9:50
METHOD BLANK	D3369	11/19/87	10:38
M1A-1	N7-7236	11/19/87	12:33
M1B-1	N7-7237	11/19/87	13:24
M2A-1	N7-7238	11/19/87	14:18
M2B-1	N7-7239	11/19/87	15:12
M3A-1	N7-7240	11/19/87	16:06
M3B-1	N7-7241	11/19/87	17:01

000034

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030

Lab ID: D3385

Date: 11/20/87

Data Release Authorized By: *d. Shealy*

Project No: 87-13700

Time: 12:50:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	24.36
75	30.0 - 60.0% of the base peak	46.74
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	5.99
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	66.16
175	5.0 - 9.0% of mass 174	3.97[6.01]*
176	Greater than 95.0%, but less than 101.0% of mass 174	64.26[97.13]*
177	5.0 - 9.0% of mass 176	3.73[5.81]**

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	D3385	11/20/87	12:50
WORK STD	D3386	11/20/87	13:27
METHOD BLANK	D3387	11/20/87	14:26
G88-1 MS	N7-7243	11/20/87	16:25
G88-1 MSD	N7-7243	11/20/87	17:19
G88-1	N7-7243	11/20/87	21:40

000035

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: #1

Lab ID: >B2732::D1

Date: 10/22/87

Data Release Authorized By *D. Sheely*

Project No: 87-13700

Time: 1:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.65
68	Less than 2.0% of mass 69	0.00[0.00]*
69	Mass 69 relative abundance	49.69
70	Less than 2.0% of mass 69	.17[.3386]*
127	40.0 - 60.0% of mass 198	45.10
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.71
275	10.0 - 30.0% of mass 198	20.22
365	Greater than 1.00% of mass 198	1.50
441	Present, but less than mass 443	0.00
442	Greater than 40.0% of mass 198	43.80
443	17.0 - 23.0% of mass 442	8.07[18.42]**

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	B2732	10/22/87	1:27
WORK STD 50 NG	B2735	10/22/87	4:06
WORK STD 20 NG	B2736	10/22/87	5:16
WORK STD 80 NG	B2737	10/22/87	6:24
WORK STD 120 NG	B2738	10/22/87	7:33
WORK STD 160 NG	B2739	10/22/87	8:42

000036

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: NYT 2 Date: 12/7/87

Lab ID: B2911::D1

Project No: 87-13700

Time: 14:53

Data Release Authorized By: *D. G. Brady*

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.61
68	Less than 2.0% of mass 69	0.85[1.677]*
69	Mass 69 relative abundance	50.51
70	Less than 2.0% of mass 69	.35[.7005]*
127	40.0 - 60.0% of mass 198	41.41
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.97
275	10.0 - 30.0% of mass 198	22.03
365	Greater than 1.00% of mass 198	2.00
441	Present, but less than mass 443	9.42
442	Greater than 40.0% of mass 198	60.37
443	17.0 - 23.0% of mass 442	12.73[21.09]**

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	B2911	12/7/87	14:53
WORK STD	B2912	12/7/87	15:15
METHOD BLANK	B2913	12/7/87	16:29
M1A-1	N7-7236	12/7/87	17:38
M1A-1 MS	N7-7236	12/7/87	18:47
M1A-1 MSD	N7-7236	12/7/87	19:56
M1B-1	N7-7237	12/7/87	21:03
M2A-1	N7-7238	12/7/87	22:13
M2B-1	N7-7239	12/7/87	23:21
M3A-1	N7-7240	12/8/87	0:30
M3B-1	N7-7241	12/8/87	1:38

000037

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: M4A-1

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-7226

Sample Matrix: WATER

Data Release Authorized By: *D. Chalzy*

QC Report No:

Project No: 87-13700

Date Sample Received: 11/12/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed: 11/18/87

Conc/Dil Factor: 1

pH:

Percent Moisture: NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	1.0 J	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	3.0 J	71-43-2	Benzene	4.0 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	18.0
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10.1).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000006

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:MAA-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analysed: 11/30/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number	ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number	ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	17.0 JB
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	4.0 JB
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000007

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: M4A-1

Contractor : MTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan	Estimated
			Number	Concentration (ug/l or ug/kg)
1	NONE FOUND UNKNOWN	VOA BVA	21.028	260 JB
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

000008

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER MAA-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/16/87

Date Analyzed: 12/9/87

Conc/Dil Factor:

Percent Moisture (decented):

GPC Cleanup Yes No

Separatory Funnel Extraction X Yes

Continuous Liquid-liquid Extraction Yes

3

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

Vs

300

or W_s

Vt

10000

Vi

4.0

000009

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M48-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7227

Sample Matrix: WATER

Data Release Authorized By: *D. Shady*

QC Report No:

Project No:87-13700

Date Sample Received:11/12/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/19/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection-limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000010

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:MA8-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analysed: 11/12/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	37.0 B
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	3.0 JB
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000011

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M4B-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/16/87

Date Analyzed: 12/9/87

Conc/Dil Factor:

Percent Moisture (decented):

GPC Cleanup ☐ Yes ☐ No

Separatory Funnel Extraction ☒ Yes

Continuous Liquid-liquid Extraction ☐ Yes

3

CAS
Number

ug/l or ug/kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

V_i = Volume of extract injected (u1)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (u1)

Vs

300

or W_s

Vt

10000

Vi

4.0

000012

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:MSA-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7223

Sample Matrix: WATER

Data Release Authorized By: *D. Shealey*

QC Report No:

Project No:87-13700

Date Sample Received:11/12/87

VOLATILE COMPOUNDS

Concentration: LOW Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/18/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000013

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analysed: 11/30/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: ___ Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: ___ Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	4.0 J
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	4.0 J
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	4.0 J
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	19.0 JB
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	1.0 JB
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000014

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: M5A-1

Contractor : NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	NO COMPOUNDS FOUND	VOA		
2	UNKNOWN	BNA	20.990	110 JB
3				
4				
5				
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000015

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M5A-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analyzed: 12/9/87
Conc/Dil Factor:
Percent Moisture (decented):

GPC Cleanup Yes No
Separatory Funnel Extraction X Yes
Continuous Liquid-liquid Extraction Yes

3

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

Vs

300

or W_s V_t

10000

 V_i

4.0

000016

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:MSA-2

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7228

Sample Matrix: WATER

Data Release Authorized By: *D. Freely*

QC Report No:

Project No:87-13700

Date Sample Received:11/12/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: NA
 Date Analyzed:11/18/87
 Conc/Dil Factor: 1 pH:
 Percent Moisture:NA
 Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	1.0 J	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	6.0 JB	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
 Additional flags or footnotes explaining results are encouraged. However, the
 definition of each flag must be explicit.

- VALUE If the result is a value greater than or equal to the detection limit, report the value.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).
- C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.
- B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000017

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:MSA-2

Contractor :NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	NONE FOUND	VOA		
2				
3				
4				
5				
6				
7				
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000018

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:MSB-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7224

Sample Matrix: WATER

Data Release Authorized By: *D. Haly*

QC Report No:

Project No:87-13700

Date Sample Received:11/12/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/18/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS
Number ug/l or ug/Kg
(Circle One)CAS
Number ug/l or ug/Kg
(Circle One)

74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	1.0 J
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethane	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropene	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

O Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000019

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:MSB-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analysed: 11/12/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-5	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-67-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	3.0 J
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	30.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
606-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	3.0 J
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	15.0 JB
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	1.0 JB
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine.

000020

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M58-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	NO COMPOUNDS FOUND	VOA		
2	UNKNOWN	BNA	21.032	71 JB
3	UNKNOWN	BNA	50.560	220 J
4				
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000021

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M5B-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analyzed: 12/9/87
Conc/Dil Factor: 3
Percent Moisture (decented):

GPC Cleanup ☐ Yes ☐ No
Separatory Funnel Extraction ☒ Yes
Continuous Liquid-liquid Extraction ☐ Yes

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s

300

or W_s

V_t

10000

V_i

4.0

000022

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M6A-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7244

Sample Matrix: WATER

Data Release Authorized By: *D. Healy*

QC Report No:

Project No:87-13700

Date Sample Received:11/16/87

VOLATILE COMPOUNDS

Concentration:

Low

Medium

(Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/20/87

Conc/Dil Factor: 1

pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-50-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropene	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-13-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000015

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M5A-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/19/87
Date Analysed: 12/8/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: ___ Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: ___ Yes

1

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39538-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	7.0 JB
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

000016

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: M6A-1

Contractor : NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	NONE FOUND	VOA		
2 -541026	CYCLOPENTASILOXANE, DECAMETHYL	BNA	12.537	7 J
3	UNKNOWN	BNA	15.913	5 J
4	UNKNOWN	BNA	16.624	5 J
5				
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000017

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER MSA-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/19/87
Date Analyzed: 12/11/87
Conc/Dil Factor: 1
Percent Moisture (decented):

GPC Cleanup Yes No
Separatory Funnel Extraction X Yes
Continuous Liquid-liquid Extraction Yes

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-97-8	Endosulfan Sulphate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000

or W_s _____

V_t

10000

V_i

4.0

000018

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M69-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/19/87
Date Analysed: 12/8/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

1

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
85-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-31-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	7.0 JB
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

000020

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: M68-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/L) or ug/Kg)
1				
2	NONE FOUND	VOA	12.557	9 J
3	CYCLOPENTASILOXANE, DECANETHYL	BVA	15.872	5 J
4	CYCLOHEXASILOXANE, DODECAMETHYL	BVA		
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000021

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M68-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/19/87
Date Analyzed: 12/11/87
Conc/Dil Factor: 1
Percent Moisture (decented):

GPC Cleanup Yes No
Separatory Funnel Extraction X Yes
Continuous Liquid-liquid Extraction Yes

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
958-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan Sulphate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000

or W_s _____

V_t 10000

V_i 4.0

000022

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M7A-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7246

Sample Matrix: WATER

Data Release Authorized By: *D. Sheely*

QC Report No:

Project No:87-13700

Date Sample Received:11/16/87

VOLATILE COMPOUNDS

Concentration:

LOW

Medium

(Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/20/87

Conc/Dil Factor:

1

pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS

Number

ug/l or ug/Kg
(Circle One)

CAS

Number

ug/l or ug/Kg
(Circle One)

74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10051-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000023

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M7A-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/19/87
Date Analysed: 12/8/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

CAS
Number ug/l or ug/Kg
(Circle One)

108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-5	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS
Number ug/l or ug/Kg
(Circle One)

83-32-6	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	3.0 JB
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine

000024

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M7A-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration ug/l or ug/kg
1	NONE FOUND	VOA		
2 541026	CYCLOPENTASILOXANE, DECAMETHYL	BNA	12.555	7 J
3 540976	CYCLOHEXASILOXANE, DODECAMETHYL	BNA	15.891	6 J
4	UNKNOWN	BNA	16.603	5 J
5				
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000025

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M7A-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/19/87
Date Analyzed: 12/11/87
Conc/Dil Factor:
Percent Moisture (decented):

GPC Cleanup Yes No
Separatory Funnel Extraction X Yes
Continuous Liquid-liquid Extraction Yes

CAS
Number

ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan Sulphate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12572-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000

or W_s _____

V_t

10000

V_i

4.0

000026

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M7B-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7247

Sample Matrix: WATER

Data Release Authorized By: *D. J. Kelly*

QC Report No:

Project No:87-13700

Date Sample Received:11/16/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: NA
 Date Analyzed:11/20/87
 Conc/Dil Factor: 1 pH:
 Percent Moisture:NA
 Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropene-	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethane	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
 Additional flags or footnotes explaining results are encouraged. However, the
 definition of each flag must be explicit.

- VALUE If the result is a value greater than or equal to the detection limit, report the value.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10U).
- C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/uI in the final extract should be confirmed by GC/MS.
- B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000027

LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M7B-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/19/87
Date Analysed: 12/8/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

1

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U
105-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
105-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorane	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	10.0 U
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-56-2	Diethylphthalate	10.0 U
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	10.0 U
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	6.0 JB
206-44-0	Fluoranthene	10.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	10.0 U
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	5.0 J
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U

(1) - Cannot be separated from diphenylamine.

000028

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M7B-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	NONE FOUND	VOA		
2	UNKNOWN	BNA	12.575	6 J
3	UNKNOWN	BNA	15.931	5 J
4	UNKNOWN	BNA	16.622	5 J
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000020

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M78-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11/19/87

Date Analyzed: 12/11/87

Conc/Dil Factor:

Percent Moisture (decanted):

GPC Cleanup Yes NoSeparatory Funnel Extraction X YesContinuous Liquid-liquid Extraction Yes

1

CAS
Numberug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan Sulphate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs

1000

or Ws

Vt

10000

Vi

4.0

000030

SURROGATE PERCENT RECOVERY SUMMARY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Low: Medium:

[----- VOLATILE -----][----- SEMI-VOLATILE -----][PESTICIDES]

SMD TRAFFIC NO.	TOLUENE-D8 (88-110)	8FB (86-115)	1,2 DICHLORO- ETHANE-D4 (76-114)	NITRO- BENZENE-D5 (35-114)	2-FLUORO- BIPHENYL (43-116)	TERPHENYL- D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO- PHENOL (21-100)	2,4,6 TRIBROMO- PHENOL (10-123)	** DIBUTYL- CHLORENDATE (24-154)
METHOD BLANK	97	98	100	76	61	141			38	44	85	105
METHOD BLANK	97	92	98	—	—	—			—	—	—	—
G8A-1	99	96	101	73	69	106			66	63	75	74
G8B-1	103	94	80	62	53	109			28	37	50	107
MSA-1	102	91	97	66	69	94			35	46	55	123
M6B-1	100	92	95	76	79	82			29	43	39	76
M7A-1	97	91	82	69	66	106			34	43	45	96
M7B-1	99	88	80	61	65	81			18	24	13	86
G8B-1 MS	95	90	86	—	—	—			—	—	—	95
G8B-1 MSD	101	84*	83	—	—	—			—	—	—	85
G8A-1 MS	—	—	—	76	75	132			63	63	57	—
G8A-1 MSD	—	—	—	71	66	100			58	57	63	—

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 1 out of 30 ; outside of QC limits
Semi-Volatiles 0 out of 54 ; outside of QC limits
Pesticides: 0 out of 9. ; outside of QC limits

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

FRACTION	COMPOUND	CONC. SPIKE	SAMPLE	CONC.	%	CONC.	%	RPD	QC LIMITS *	
		ADDED (ug)	RESULT	MS	RECOVERY	MSD	RECOVERY		RPD	RECOVERY
VOA SMD SAMPLE NO. G88-1	1,1-Dichloroethene	50		31.89	63.78	40.53	81.064	23.87 *	14	61-145
	Trichloroethene	50		38.202	76.404	37.22	74.448	2.59	14	71-120
	Chlorobenzene	50		38.853	77.706	38.53	77.062	0.83	13	75-130
	Toluene	50		37.109	74.218 *	39.48	78.972	6.21	13	76-125
	Benzene	50		39.654	79.308	37.72	75.44 *	5.00	11	76-127
B/N SMD SAMPLE NO. G88-1	1,2,4-Trichlorobenzene	330		207	63	200	61	3.44	28	39-98
	Acenaphthene	330		360	109	345	105	4.26	31	46-118
	2,4-Dinitrotoluene	330		181	55	161	49	11.70	38	24-96
	Di-n-Butylphthalate								40	11-117
	Pyrene	330		384	116	278	84	32.02 *	31	26-127
	N-Nitroso-Di-n-Propylamine	330		258	78	194	59	28.32	38	41-116
	1,4-Dichlorobenzene	330		22	7 *	18	5 *	20.00	28	36-97
ACID SMD SAMPLE NO. G88-1	Pentachlorophenol	660		130	20	107	16	19.41	50	9-103
	Phenol	660		250	38	236	36	5.76	42	12-89
	2-Chlorophenol	660		328	50	288	44	12.99	40	27-123
	4-Chloro-3-Methylphenol	660		311	47	423	64	30.52	42	23-97
	4-Nitrophenol	660		129.0	20	162.0	25	22.68	50	10-80
PEST SMD SAMPLE NO. G88-1	Lindane	1.33		0.44	33.082 *	0.45	33.834 *	2.25	15	56-123
	Heptachlor	1.33		1.1	82.706	1.14	85.714	3.57	20	40-131
	Aldrin	1.33		1.13	84.952	1.17	87.969	3.48	22	40-120
	Dieldrin	3.33		3.09	92.792	3.05	91.591	1.30	18	52-126
	Endrin	3.33		3.17	95.195	3.07	92.192	3.21	21	56-121
	4,4'-DDT	3.33		3.84	115.31	4.05	121.62	5.32	27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	1	out of	5 ;outside QC limits	RECOVERY VOA'S	1	out of	10	;outside QC limits
	B/N	1	out of	6 ;outside QC limits	B/N	2	out of	12	;outside QC limits
	ACID	0	out of	5 ;outside QC limits	ACIDS	0	out of	10	;outside QC limits
	PEST	0	out of	6 ;outside QC limits	PEST	2	out of	12	;outside QC limits

Comments:

METHOD BLANK SUMMARY

Contractor: NYTEST ENVI. INC.

Project No: 87-13700

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
D3369	11/19/87	VOA	WATER	LOW	1030	67-64-1	ACETONE	20	UG/L	10
D3387	11/20/87	VOA	WATER	LOW	1030		NO COMPOUNDS FOUND			
F2175	12/7/87	BNA	WATER	LOW	NYT 1	84-74-2	DI-N-BUTYLPHTHALATE	2	UG/L	10
					TIC:		UNKNOWN	5	UG/L	
							UNKNOWN	7	UG/L	
							UNKNOWN	6	UG/L	
							UNKNOWN	4	UG/L	
BLANK	12/10/87	PEST	WATER	LOW	HP5890		NO COMPOUNDS DETECTED			

Comments:

000033

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRO MENTAL INC.

Project No: 87-13700

Instrument ID: #1

Date: 10/23/87

Time: 0:09

Lab ID: >F1881::D2

Data Release Authorized By

D. G. G.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.50
68	Less than 2.0% of mass 69	0.00[0.00]*
69	Mass 69 relative abundance	60.47
70	Less than 2.0% of mass 69	.12[.1933]*
127	40.0 - 60.0% of mass 198	50.40
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	7.54
275	10.0 - 30.0% of mass 198	20.98
365	Greater than 1.00% of mass 198	2.87
441	Present, but less than mass 443	12.24
442	Greater than 40.0% of mass 198	80.74
443	17.0 - 23.0% of mass 442	15.23[18.86]**

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	F1881	10/23/87	0:09
INITIAL CAL. 20 NG	FB884	10/23/87	3:56
INITIAL CAL. 50 NG	FA884	10/23/87	2:47
INITIAL CAL. 80 NG	F1884	10/23/87	5:04
INITIAL CAL. 120 NG	F1885	10/23/87	6:13
INITIAL CAL. 160 NG	F1886	10/23/87	7:22

000034

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Instrument ID: #1

Date: 12/7/87

Time: 17:24

Lab ID: >FA174::D3

Data Release Authorized By: *Dr. G. Haeley*

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.61
58	Less than 2.0% of mass 69	0.00[0.00]*
69	Mass 69 relative abundance	53.96
70	Less than 2.0% of mass 69	0.00[0.00]*
127	40.0 - 60.0% of mass 198	42.07
197	Less than 1.0% of mass 198	0.61
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.04
275	10.0 - 30.0% of mass 198	18.31
355	Greater than 1.00% of mass 198	1.56
441	Present, but less than mass 443	9.16
442	Greater than 40.0% of mass 198	56.09
443	17.0 - 23.0% of mass 442	10.73[19.13]**

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	FA174	12/7/87	17:24
WORK STD	F8175	12/7/87	17:51
METHOD BLANK	F2175	12/7/87	19:22
G8A-1	N7-7242	12/7/87	20:37
G8A-1 MS	N7-7242	12/7/87	22:01
G8A-1 MSD	N7-7242	12/7/87	23:05
G8B-1	N7-7243	12/8/87	0:19
M5A-1	N7-7244	12/8/87	1:33
M5B-1	N7-7245	12/8/87	2:46
M7A-1	N7-7246	12/8/87	4:00
M7B-1	N7-7247	12/8/87	5:14

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030

Date: 11/10/87

Lab ID: D3265

Data Release Authorized By: *[Signature]*

Project No: 87-13700

Time: 10:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	22.26
75	30.0 - 60.0% of the base peak	43.22
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.68
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	61.67
175	5.0 - 9.0% of mass 174	3.65 [5.92]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.38 [97.89]*1
177	5.0 - 9.0% of mass 176	3.57 [5.91]**2

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERFORMANCE STANDARD	D3265	11/10/87	10:08
50 NG STANDARD	D3266	11/10/87	11:01
20 NG STANDARD	D3267	11/10/87	11:54
100 NG STANDARD	D3268	11/10/87	12:43
150 NG STANDARD	D3269	11/10/87	13:31
200 NG STANDARD	D3270	11/10/87	14:22

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GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030

Date: 11/19/87

Lab ID: D3367

Data Release Authorized By

D. Healy

Project No: 87-13700

Time: 9:09:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	24.80
75	30.0 - 60.0% of the base peak	46.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.50
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	68.74
175	5.0 - 9.0% of mass 174	4.34[6.31]*
176	Greater than 95.0%, but less than 101.0% of mass 174	68.05[98.99]*
177	5.0 - 9.0% of mass 176	3.91[5.75]**

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	D3367	11/19/87	9:09
WORK STD	D3368	11/19/87	9:50
METHOD BLANK	D3369	11/19/87	10:38
G8A-1	N7-7242	11/19/87	17:55

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Instrument ID: 1030 Date: 11/20/87

Time: 12:50:00

Lab ID: D3385

Data Release Authorized By

R. Shady

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	24.36
75	30.0 - 60.0% of the base peak	46.74
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	5.99
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	66.16
175	5.0 - 9.0% of mass 174	3.97[6.01]*
176	Greater than 95.0%, but less than 101.0% of mass 174	64.26[97.13]*
177	5.0 - 9.0% of mass 176	3.73[5.81]**

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	D3385	11/20/87	12:50
WORK STD	D3386	11/20/87	13:27
METHOD BLANK	D3387	11/20/87	14:26
G8B-1 MS	N7-7243	11/20/87	16:25
G8B-1 MSD	N7-7243	11/20/87	17:19
M6A-1	N7-7244	11/20/87	18:12
M6B-1	N7-7245	11/20/87	19:06
M7A-1	N7-7246	11/20/87	20:00
M7B-1	N7-7247	11/20/87	20:54
G8B-1	N7-7243	11/20/87	21:40

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M8-1

Contractor:NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-7225

Sample Matrix: WATER

Data Release Authorized By *D. Greeley*

QC Report No:

Project No:87-13700

Date Sample Received:11/12/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed:11/18/87

Conc/Dil Factor: 1 pH:

Percent Moisture:NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	1.0 J	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	7.0 JB	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	2.0 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethane	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OT Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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LABORATORY NAME: NYTEST ENVIRONMENTAL INC.
PROJECT NO:87-13700

SAMPLE NO:M8-1

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analysed: 11/30/87
Conc/Dil Factor:
Percent Moisture(Decanted): N/A

GPC Cleanup: Yes X No
Separatory Funnel Extraction: X Yes
Continuous Liquid-Liquid Extraction: Yes

3

CAS Number	ug/l or ug/Kg (Circle One)	
108-95-2	Phenol	30.0 U
111-44-4	bis(-2-Chloroethyl)Ether	30.0 U
95-57-8	2-Chlorophenol	30.0 U
541-73-1	1,3-Dichlorobenzene	30.0 U
106-46-7	1,4-Dichlorobenzene	30.0 U
100-51-6	Benzyl Alcohol	10.0 U
95-50-1	1,2-Dichlorobenzene	30.0 U
95-48-7	2-Methylphenol	30.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	30.0 U
106-44-5	4-Methylphenol	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	30.0 U
67-72-1	Hexachloroethane	30.0 U
98-95-3	Nitrobenzene	30.0 U
78-59-1	Isophorone	30.0 U
88-75-5	2-Nitrophenol	30.0 U
105-57-9	2,4-Dimethylphenol	30.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	30.0 U
120-83-2	2,4-Dichlorophenol	30.0 U
120-82-1	1,2,4-Trichlorobenzene	30.0 U
91-20-3	Naphthalene	11.0 J
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	30.0 U
59-50-7	4-Chloro-3-Methylphenol	30.0 U
91-57-6	2-Methylnaphthalene	10.0 U
77-47-4	Hexachlorocyclopentadiene	30.0 U
88-06-2	2,4,6-Trichlorophenol	30.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	30.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	30.0 U
208-96-8	Acenaphthylene	30.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number	ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	30.0 U
51-28-5	2,4-Dinitrophenol	150.0 U
100-02-7	4-Nitrophenol	150.0 U
132-64-9	Dibenzofuran	30.0 U
121-14-2	2,4-Dinitrotoluene	30.0 U
806-20-2	2,6-Dinitrotoluene	30.0 U
84-66-2	Diethylphthalate	30.0 U
7005-72-3	4-Chlorophenyl-phenylether	30.0 U
86-73-7	Fluorene	30.0 U
100-01-6	4-Nitroaniline	150.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	150.0 U
86-30-6	N-Nitrosodiphenylamine (1)	30.0 U
101-55-3	4-Bromophenyl-phenylether	30.0 U
118-74-1	Hexachlorobenzene	30.0 U
87-86-5	Pentachlorophenol	150.0 U
85-01-8	Phenanthrene	30.0 U
120-12-7	Anthracene	30.0 U
84-74-2	Di-n-Butylphthalate	30.0 U
206-44-0	Fluoranthene	30.0 U
129-00-0	Pyrene	30.0 U
85-68-7	Butylbenzylphthalate	30.0 U
91-94-1	3,3'-Dichlorobenzidine	60.0 U
56-55-3	Benzo(a)Anthracene	30.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	14.0 JB
218-01-9	Chrysene	30.0 U
117-84-0	Di-n-Octyl Phthalate	30.0 U
205-99-2	Benzo(b)Fluoranthene	30.0 U
207-08-9	Benzo(k)Fluoranthene	30.0 U
50-32-8	Benzo(a)Pyrene	30.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	30.0 U
53-70-3	Dibenz(a,h)Anthracene	30.0 U
191-24-2	Benzo(g,h,i)Perylene	30.0 U

(1) - Cannot be separated from diphenylamine

000024

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M8-1

Contractor :NYTEST ENVIRONMENTAL INC.
Project No: 87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	UNKNOWN	VOA	30:54	5 J
2	UNKNOWN	BNA	12.811	36 J
3	UNKNOWN	BNA	13.055	23 J
4	UNKNOWN	BNA	13.851	44 J
5	UNKNOWN	BNA	14.014	14 J
6	PHENOL ISOMER	BNA	15.788	14 J
7	UNKNOWN	BNA	15.971	15 J
8	UNKNOWN	BNA	16.645	16 J
9	UNKNOWN	BNA	16.788	18 J
10	UNKNOWN	BNA	19.114	21 J
11	UNKNOWN	BNA	20.991	80 J
12	UNKNOWN	BNA	21.399	21 J
13	UNKNOWN	BNA	22.665	78 J
14	UNKNOWN	BNA	24.197	44 J
15				
16				
17				
18				
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27				
28				
29				
30				

000025

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER M8-1

CONTRACTOR: NYTEST ENVI. INC.
PROJECT NO: 87-13700

PESTICIDE/PCBS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/16/87
Date Analyzed: 12/9/87
Conc/Dil Factor:
Percent Moisture (decented):

GPC Cleanup Yes No
Separatory Funnel Extraction X Yes
Continuous Liquid-liquid Extraction Yes

3

CAS
Number ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.15 U
319-85-7	Beta-BHC	0.15 U
319-86-8	Delta-BHC	0.15 U
58-89-9	Gamma-BHC (Lindane)	0.15 U
76-44-8	Heptachlor	0.15 U
309-00-2	Aldrin	0.15 U
1024-57-3	Heptachlor Epoxide	0.15 U
959-98-8	Endosulfan I	0.15 U
60-57-1	Dieldrin	0.30 U
72-55-9	4,4'-DDE	0.30 U
72-20-8	Endrin	0.30 U
33213-65-9	Endosulfan II	0.30 U
72-54-8	4,4'-DDD	0.30 U
1031-07-8	Endosulfan Sulphate	0.30 U
50-29-3	4,4'-DDT	0.30 U
53494-70-5	Endrin Ketone	0.30 U
72-43-5	Methoxychlor	1.50 U
57-74-9	Chlordane	1.50 U
8001-35-2	Toxaphene	3.00 U
12674-11-2	Aroclor-1016	1.50 U
11104-28-2	Aroclor-1221	1.50 U
11141-16-5	Aroclor-1232	1.50 U
53469-21-9	Aroclor-1242	1.50 U
12672-29-6	Aroclor-1248	1.50 U
11097-69-1	Aroclor-1254	3.00 U
11096-82-5	Aroclor-1260	3.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs

300

or Ws

Vt

10000

Vi

4.0

000026

SURROGATE PERCENT RECOVERY SUMMARY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Low: Medium:

[----- VOLATILE -----][----- SEMI-VOLATILE -----][PESTICIDES]

SNO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-115)	1,2 DICHLORO- ETHANE-D4 (76-114)	NITRO- BENZENE-D5 (95-114)	2-FLUORO- BIPHENYL (43-116)	TERPHENYL- D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO- PHENOL (21-100)	2,4,6 TRIBROMO- PHENOL (10-123)	** DIBUTYL- CHLORENDATE (24-154)
METHOD BLANK	97	94	84	54	51	63			21	32	51	60
METHOD BLANK	97	98	100	—	—	—			—	—	—	
M4A-1	99	97	87	98	82	98			62	66	70	93
M4B-1	98	99	107	97	81	96			74	69	68	60
M5A-1	100	98	92	105	91	104			67	76	88	100
M5A-2	99	98	87	—	—	—			—	—	—	
M5B-1	103	91	83	105	84	99			62	61	83	65
M8-1	101	95	87	90	80	84			49	32	37	78
E 187-028-12	100	97	85	—	—	—			—	—	—	
E 187-028-12MS	100	97	82	—	—	—			—	—	—	
E 187-028-12MSD	99	100	84	—	—	—			—	—	—	
M5B-1 MS	—	—	—	90	72	86			58	57	51	
M5B-1 MSD	—	—	—	90	83	97			62	60	65	
M5A-1 MS												82
M5A-1 MSD												90

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 0 out of 33 ; outside of QC limits
Semi-Volatiles: 0 out of 48 ; outside of QC limits
Pesticides: 0 out of 8 ; outside of QC limits

000027

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	%	CONC. MSD	%	RPD	QC LIMITS *	
									RPD	RECOVERY
VOA SMO SAMPLE NO. E 187-028-12	1,1-Dichloroethene	50		28.972	57.944 *	29.41	58.826 *	1.51	14	61-145
	Trichloroethene	50		31.154	62.308 *	32.22	64.454 *	3.39	14	71-120
	Chlorobenzene	50		32.205	64.41 *	33.21	66.43 *	3.09	13	75-130
	Toluene	50		38.999	77.998	39.68	79.368	1.74	13	76-125
	Benzene	50		32.331	64.662 *	33.55	67.114 *	3.72	11	76-127
B/N SMO SAMPLE NO. MSB-1	1,2,4-Trichlorobenzene	330		245	74	250	76	1.90	28	39-98
	Acenaphthene	330		349	106	388	118	10.73	31	45-118
	2,4-Dinitrotoluene	330		266	81	250	76	6.11	38	24-96
	Di-n-Butylphthalate								40	11-117
	Pyrene	330		248	75	271	82	8.63	31	26-127
	N-Nitroso-Di-n-Propylamine	330		229	69	217	66	5.58	38	41-116
ACID SMO SAMPLE NO. MSB-1	1,4-Dichlorobenzene	330		28	9 *	26	8 *	8.58	28	36-97
	Pentachlorophenol	660		17	3 *	131	20	154.44 *	50	9-103
	Phenol	660		242	37	245	37	1.13	42	12-89
	2-Chlorophenol	660		300	45	330	50	9.70	40	27-123
	4-Chloro-3-Methylphenol	660		500	76	484	73	3.21	42	23-97
PEST SMO SAMPLE NO. MSA-1	4-Nitrophenol	660		149.3	23	254.1	38	51.98 *	50	10-80
	Lindane	1.33		0.33	24.812 *	1.1	82.706	107.69 *	15	56-123
	Heptachlor	1.33		0.85	63.909	2.95	221.80 *	110.53 *	20	40-131
	Aldrin	1.33		0.96	72.180	3.68	276.69 *	117.24 *	22	40-120
	Dieldrin	3.33		2.82	84.684	8.24	247.44 *	98.01 *	18	52-126
	Endrin	3.33		3.83	115.01	10.04	301.50 *	89.55 *	21	56-121
	4,4'-DDT	3.33		2.86	85.885	9.35	280.78 *	106.31 *	27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	0	out of	5 ;outside QC limits	RECOVERY	VOA'S	8	out of	10	;outside QC limits
	B/N	0	out of	6 ;outside QC limits		B/N	2	out of	12	;outside QC limits
	ACID	2	out of	5 ;outside QC limits		ACIDS	1	out of	10	;outside QC limits
	PEST	6	out of	6 ;outside QC limits		PEST	6	out of	12	;outside QC limits

Comments: 1,2,4 TRICHLOROBENZENE IS SLIGHTLY HIGH IN RECOVERY.SEE CASE NARATIVE FOR 4-NITROPHENOL

000028

METHOD BLANK SUMMARY

Contractor: NYTEST ENVI. INC.

Project No: 87-13700

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
D3354	11/18/87	VOA	WATER	LOW	1030	67-64-1	ACETONE	15	UG/L	10
					TIC:		NO COMPOUNDS FOUND			
D3359	11/19/87	VOA	WATER	LOW	1030	67-64-1	ACETONE	20	UG/L	10
					TIC:		NO COMPOUNDS FOUND			
F2124	11/30/87	BNA	WATER	LOW	NYT 1	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	2	UG/L	10
						117-84-0	DI-N-OCTYL PHTHALATE	4	UG/L	10
					TIC:		UNKNOWN	19	UG/L	
BLANK	12/9/87	PEST	WATER	LOW	HP5890		NO COMPOUNDS DETECTED			

Comments:

000029

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030

Date: 11/10/87

Lab ID: D3265

Data Release Authorized By

Project No: 87-13700

Time: 10:08

E. Shealy

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	22.26
75	30.0 - 60.0% of the base peak	43.22
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.68
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	61.67
175	5.0 - 9.0% of mass 174	3.65 [5.92]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.38 [97.89]*1
177	5.0 - 9.0% of mass 176	3.57 [5.91]**2

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERFORMANCE STANDARD	D3265	11/10/87	10:08
50 NG STANDARD	D3266	11/10/87	11:01
20 NG STANDARD	D3267	11/10/87	11:54
100 NG STANDARD	D3268	11/10/87	12:43
150 NG STANDARD	D3269	11/10/87	13:31
200 NG STANDARD	D3270	11/10/87	14:22

000030

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030

Date: 11/18/87

Lab ID: D3352

Data Release Authorized By *D. Ghealey*

Project No: 87-13700

Time: 8:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	23.94
75	30.0 - 60.0% of the base peak	45.81
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.54
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	61.79
175	5.0 - 9.0% of mass 174	3.55 [5.74]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.50 [97.91]*1
177	5.0 - 9.0% of mass 176	3.28 [5.42]**2

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERFORMANCE STANDARD	D3352	11/18/87	8:46
WORKING STANDARD	D3353	11/18/87	9:29
METHOD BLANK	D3354	11/18/87	10:15
E-187-028-12	N7-7158	11/18/87	11:21
E-187-028-12 MS	N7-7158	11/18/87	12:12
E-187-028-12 MSD	N7-7158	11/18/87	13:00
MSA-2 TB	N7-7228	11/18/87	16:47
MSA-1	N7-7227	11/18/87	17:44
MSB-1	N7-7224	11/18/87	18:43
M8-1	N7-7225	11/18/87	19:38
MAA-1	N7-7226	11/18/87	20:35

000031

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Instrument ID: #1 Date: 10/23/87

Time: 0:09

Lab ID: >F1881::D2

Data Release Authorized By: *D. Sheely*

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.50
68	Less than 2.0% of mass 69	0.00[0.00]*
69	Mass 69 relative abundance	60.47
70	Less than 2.0% of mass 69	.12[.1933]*
127	40.0 - 60.0% of mass 198	50.40
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	7.54
275	10.0 - 30.0% of mass 198	20.98
365	Greater than 1.00% of mass 198	2.87
441	Present, but less than mass 443	12.24
442	Greater than 40.0% of mass 198	80.74
443	17.0 - 23.0% of mass 442	15.23[18.86]**

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	F1881	10/23/87	0:09
INITIAL CAL. 20 NG	F8884	10/23/87	3:56
INITIAL CAL. 50 NG	FA884	10/23/87	2:47
INITIAL CAL. 80 NG	F1884	10/23/87	5:04
INITIAL CAL. 120 NG	F1885	10/23/87	6:13
INITIAL CAL. 160 NG	F1886	10/23/87	7:22

000032

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Instrument ID: 1 Date: 11/30/87

Time: 13:36

Lab ID: F2122::D3

Data Release Authorized By: *D. Sheehy*

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.08
68	Less than 2.0% of mass 69	0.00 [0.00]*1
69	Mass 69 relative abundance	58.66
70	Less than 2.0% of mass 69	0.88 [1.501]*1
127	40.0 - 60.0% of mass 198	41.83
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.63
275	10.0 - 30.0% of mass 198	19.04
365	Greater than 1.00% of mass 198	1.62
441	Present, but less than mass 443	10.15
442	Greater than 40.0% of mass 198	71.03
443	17.0 - 23.0% of mass 442	12.84 [18.08]*2

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF. STANDARD	F2122	11/30/87	13:36
WORKING STANDARD	F2123	11/30/87	13:58
METHOD BLANK	F2124	11/30/87	15:20
M5A-1	N7-7223	11/30/87	16:34
M5B-1	N7-7224	11/30/87	17:48
M5B-1 MS	N7-7224	11/30/87	19:01
M5B-1 MSD	N7-7224	11/30/87	20:15
M8-1	N7-7225	11/30/87	21:29
M4A-1	N7-7226	11/30/87	22:42
M4B-1	N7-7227	11/30/87	23:56

000033

APPENDIX B
MONITORING WELLS - INORGANIC ANALYSES



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Lab. No.: 87-13700 (F) INORG.

P.O. No.: 21-1987

Date: DECEMBER 31, 1987

ANALYTICAL DATA PACKAGE
FOR
INORGANICS

TOWN OF HEMPSTEAD DEPT. OF SANITATION
1600 MERRICK RD.
MERRICK, N.Y. 11566

ATTN: JAMES HEIL

We certify that this report is a true report
of results obtained from our tests of this
material.

Respectfully submitted,

Nyttest Environmental Inc.

Remo Gigante
Executive Vice President

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

Date 12/31/87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name NYTES ENVIRONMENTAL

Case No. _____

SOW No. _____

Q.C. Report No. 00159-B7

Sample Numbers

<u>No.</u>	<u>Lab ID No.</u>	<u>No.</u>	<u>Lab ID No.</u>
<u>M5 A-1</u>	<u>8713700</u>	_____	_____
<u>M5 B-1</u>	_____	_____	_____
<u>M8 1</u>	_____	_____	_____
<u>M4 A-1</u>	_____	_____	_____
<u>M4 B-1</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments: _____

ICP interelement and background corrections applied? Yes _____ No _____
If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required

Form I:

- Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).
- U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).
- E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates matrix spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- +
- Indicates the correlation coefficient for method of standard addition is less than 0.995
- M - Indicates duplicate injection results exceeded control limits.
- W - Indicates GFAA spike sample recovery is not within control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

Date 12/31/87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name HYTES ENVIRONMENTAL

Case No. _____

SOW No. _____

Q.C. Report No. 00159-87Sample Numbers

<u>No.</u>	<u>Lab ID No.</u>	<u>No.</u>	<u>Lab ID No.</u>
	<u>8713700</u>		
<u>M6 A-1</u>			
<u>M6 B-1</u>			
<u>M7 A-1</u>			
<u>M7 B-1</u>			

Comments: _____

ICP interelement and background corrections applied? Yes _____ No _____.
 If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required

Form I:

- Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).
- U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).
- E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates matrix spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- ± - Indicates the correlation coefficient for method of standard addition is less than 0.995
- M - Indicates duplicate injection results exceeded control limits.
- W - Indicates GFAA spike sample recovery is not within control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

Sample No.

MI A-1

Date _____

INORGANIC ANALYSIS DATA SHEETLab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. MI B-1QC Report No. 00159-87Elements Identified and Measured

Concentration:

Low _____

Medium ☒ _____Matrix: Water ☒

Soil _____

Sludge _____

Other _____

ug/L or mg/kg dry weight (Circle One)

1. Aluminum	<u>175U</u>	13. Magnesium	<u>44200</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>.39</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>3U</u>	17. Potassium	<u>69400</u>
6. Cadmium	<u>34</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>16340</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>584000</u>
9. Cobalt	<u>10U</u>	21. Thallium	<u>2U</u>
10. Copper	<u>[11]A</u>	22. Tin	<u>40U</u>
11. Iron	<u>294</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>[3]F</u>	24. Zinc	<u>30</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

MIB-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. MIB-1QC Report No. 00159-87

Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water ✓ Soil ✓ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>340</u>	13. Magnesium	<u>57000</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>125</u>
3. Arsenic	<u>[2]F</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>[4]A</u>	17. Potassium	<u>77600</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>14</u>
7. Calcium	<u>28120</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>660600</u>
9. Cobalt	<u>[13]A</u>	21. Thallium	<u>2U</u>
10. Copper	<u>10U</u>	22. Tin	<u>40U</u>
11. Iron	<u>103</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>2U</u>	24. Zinc	<u>23</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M2 A-1

Date _____

INORGANIC ANALYSIS DATA SHEETLab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M2 A-1QC Report No. 00159-87Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/l) or mg/kg dry weight (Circle One)

1. Aluminum	<u>175 U</u>	13. Magnesium	<u>69400</u>
2. Antimony	<u>50 U</u>	14. Manganese	<u>33</u>
3. Arsenic	<u>2 U</u>	15. Mercury	<u>.13 U</u>
4. Barium	<u>100 U</u>	16. Nickel	<u>15 U</u>
5. Beryllium	<u>[3] A</u>	17. Potassium	<u>120900</u>
6. Cadmium	<u>3 U</u>	18. Selenium	<u>[4] F</u>
7. Calcium	<u>109000</u>	19. Silver	<u>5 U</u>
8. Chromium	<u>9 U</u>	20. Sodium	<u>469200</u>
9. Cobalt	<u>[14] A</u>	21. Thallium	<u>2 U</u>
10. Copper	<u>[12] A</u>	22. Tin	<u>40 U</u>
11. Iron	<u>[44] A</u>	23. Vanadium	<u>25 U</u>
12. Lead	<u>2 U</u>	24. Zinc	<u>88</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M2 B-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M2 B-1QC Report No. 00159-87

Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>6330</u>	13. Magnesium	<u>93800</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>20</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>[3]A</u>	17. Potassium	<u>274700</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>28</u>
7. Calcium	<u>27740</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>1296000</u>
9. Cobalt	<u>[10]A</u>	21. Thallium	<u>2U</u>
10. Copper	<u>[22]A</u>	22. Tin	<u>40U</u>
11. Iron	<u>5980</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>2U</u>	24. Zinc	<u>41</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M3 A-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M3 A-1QC Report No. 00159-87

Elements Identified and Measured

Concentration:

Low _____

Medium ☒ _____Matrix: Water ☒ _____

Soil _____

Sludge _____

Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum 175U13. Magnesium 264002. Antimony 50U14. Manganese .2063. Arsenic [2]F15. Mercury .13U4. Barium 100 U16. Nickel 15U5. Beryllium 3U17. Potassium 229006. Cadmium 3U18. Selenium 2U7. Calcium 9650019. Silver 5U8. Chromium 9U20. Sodium 569309. Cobalt 10U21. Thallium 2U10. Copper [19]A22. Tin 40U11. Iron 231023. Vanadium 17012. Lead 2U24. Zinc 35

Cyanide _____

Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Form I

Sample No.

M3 B-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M3 B-1QC Report No. 00159-87

Elements Identified and Measured

Concentration:

Low

Medium

Matrix: Water

Soil

Sludge

Other

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	175 U	13. Magnesium	65400
2. Antimony	50 U	14. Manganese	271
3. Arsenic	2 U	15. Mercury	.13 U
4. Barium	100 U	16. Nickel	15 U
5. Beryllium	3 U	17. Potassium	22900
6. Cadmium	3 U	18. Selenium	2 U
7. Calcium	56350	19. Silver	5 U
8. Chromium	9 U	20. Sodium	56930
9. Cobalt	10 U	21. Thallium	2 U
10. Copper	[13] A	22. Tin	40 U
11. Iron	[93] A	23. Vanadium	170
12. Lead	2 U	24. Zinc	35
Cyanide		Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

REPORT OF TESTS

PROJECT NO:87-13700

SAMPLE IDENTIFICATION	PARAMETERS (MG/L)	
	CYANIDE	TURBIDITY
M1A-1	<0.01	6.1
M1B-1	<0.01	4.8
M2A-1	<0.01	49
M2B-1	<0.01	56
M3A-1	<0.01	17.6
M3B-1	<0.01	3.3

000008



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Lab. No.: 87-13700 (G)

SAMPLE DATA

000009

nytest environmental *inc.*

REPORT OF TESTS

PROJECT NO:87-13700

PARAMETER	% RPD	% SPIKE RECOVERY	SAMPLE IDENTIFICATION	BLANK
12/9/87 CYANIDE	NC	105.0	M3A-1	<0.01
11/18/87 TURBIDITY	1.4	---	G1A-1	---

000010

Q. C. Report No. 00159-87INITIAL AND CONTINUING CALIBRATION VERIFICATION³Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

SOW No. _____

Units : ug/L

Compound

Initial Calibration¹Continuing Calibration²

Metals:	True Value	Found	ZR	True Value	Found	ZR	Found	ZR	Method
1. Aluminum	730	730	100	730	730	100			
2. Antimony	101.5	108	106	101.5	109	107			
3. Arsenic	235	233	99	235	229	97			
4. Barium	5000	5060	101	5000	5020	100			
5. Beryllium	100	99	99	100	101	101			
6. Cadmium	39	38	97	39	38	97			
7. Calcium	5000	5420	108	5000	5160	103			
8. Chromium	261	269	103	261	250	96			
9. Cobalt	261	272	104	261	250	96			
10. Copper	339	366	108	339	355	104			
11. Iron	796	967	N	796	953	N			
12. Lead	100	93	93	100	96	96			
13. Magnesium	500	460	92	500	510	102			
14. Manganese	348	354	101	348	362	104			
15. Mercury	8.7	9.0	103	8.7	9.0	103			
16. Nickel	207	217	105	207	196	94			
17. Potassium	1000	979	98	1000	973	97			
18. Selenium	50	47	94	50	48	96			
19. Silver	35	34	97	35	35	100			
20. Sodium	1000	1020	102	1000	990	99			
21. Thallium	25	23	92	25	25	100			
22. Tin	250	295	118	250	242	97			
23. Vanadium	846	810	95	846	890	105			
24. Zinc	418	395	94	418	414	99			
Percent Solids (%)									
Other:									

¹ Initial Calibration Source _____² Continuing Calibration Source _____³ Control Limits: Mercury 80-120;⁴ Indicate Analytical Method Used:

Other Metals 90-110; Cyanide 85-115

P - ICP; A - Flame AA; F - Furnace AA

Form II (Part 2)

Q. C. Report No. 00159-87LINEAR RANGE ANALYSIS AND CRDL STANDARD FOR AA³Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

SOW No. _____

Units : ug/L

Compound

CRDL STD. For AA¹Linear Range Analysis² (ICP)

Metals:	True Value	Found	ZR	True Value	Initial		Final	
					Found	ZR	Found	ZR
1. Aluminum	175	150	86					
2. Antimony	60	63	105					
3. Arsenic	10	10	100					
4. Barium	200	190	95					
5. Beryllium	5	5	100					
6. Cadmium	5	5	100					
7. Calcium	5000	5320	106					
8. Chromium	10	10	100					
9. Cobalt	50	52	104					
10. Copper	10	12	120					
11. Iron	100	115	115					
12. Lead	5	4	80					
13. Magnesium	5000	5500	110					
14. Manganese	15	16	106					
15. Nickel	40	41	102					
16. Potassium	5000	4997	100					
17. Selenium	5	5	100					
18. Silver	10	10	100					
19. Sodium	5000	3770	75					
20. Thallium	10	7	70					
21. Vanadium	50	50	100					
22. Tin	40	40	100					
23. Zinc	20	21	105					
Other:								

1 CRDL Standard Source _____

2 Linear Range Standard Source _____

3 Linear Range Standard must be at 2x CRDL or 2x IDL whichever is higher

000012

Form III

Q. C. Report No. 00159-87

BLANKS

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

Units _____

Matrix Water

Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value				Preparation Blank ¹ Matrix: Matrix:	
		1	2	3	4	1	2
Metals:							
1. Aluminum	175U	175U	175U				
2. Antimony	50U	50U	50U				
3. Arsenic	2U	2U	2U				
4. Barium	100U	100U	100U				
5. Beryllium	3U	3U	3U				
6. Cadmium	3U	3U	3U				
7. Calcium	50U	50U	50U				
8. Chromium	9U	9U	9U				
9. Cobalt	10U	10U	10U				
10. Copper	10U	10U	10U				
11. Iron	10U	10U	10U				
12. Lead	2U	2U	2U				
13. Magnesium	50U	50U	50U				
14. Manganese	6U	6U	6U				
15. Mercury	.13U	.13U	.13U				
16. Nickel	15U	15U	15U				
17. Potassium	50U	50U	50U				
18. Selenium	2U	2U	2U				
19. Silver	5U	5U	5U				
20. Sodium	50U	50U	50U				
21. Thallium	2U	2U	2U				
22. Tin	40U	40U	40U				
23. Vanadium	25U	25U	25U				
24. Zinc	2U	2U	2U				
Other:							

¹ Reporting units: aqueous, ug/L; solid, mg/kg

Q. C. Report No. 00157-87SPIKE SAMPLE RECOVERYLab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

TDH Sample No. M4-B-1Lab Sample ID No. M4-B-1 Spk.Units² ug/LMatrix Water

Compound	Control Limit ZR	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	ZR ¹
Metals:					
1. Aluminum	75-125	2340	1150	1000	119
2. Antimony	"	85	50U	100	85
3. Arsenic	"	36	[2]F	40	85
4. Barium	"	1940	100U	2000	97
5. Beryllium	"	54	243A	50	100
6. Cadmium	"	52	3U	50	104
7. Calcium	"	NR			
8. Chromium	"	184	9U	200	92
9. Cobalt	"	531	10U	500	106
10. Copper	"	265	16	250	99
11. Iron	"	1003	72	1000	93
12. Lead	"	36	2U	40	90
13. Magnesium	"	NR			1
14. Manganese	"	340	133	200	103
15. Mercury	"	4.7	.13U	5.0	94
16. Nickel	"	416	15U	400	104
17. Potassium	"	NR			
18. Selenium	"	149	2U	100	N
19. Silver	"	52	5U	50	104
20. Sodium	"	NR			
21. Thallium	"	38	2U	40	95
22. Tin	"	179	40U	200	89
23. Vanadium	"	2730	2200	500	106
24. Zinc	"	222	27	200	97
Other:					

¹ ZR = [(SSR - SR)/SA] x 100, ² Reporting Units: aqueous, ug/L; solid, mg/kg

N= out of control, NR - Not required

Comments: _____

000014

QC Report No. 00149-87POST DIGEST SPIKE SAMPLE RECOVERYLab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

TOH Sample No. M3 B-1Lab Sample ID No. M3 B-1Units¹ ug/LMatrix Water

Compound	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	ZR ²
Metals:				
1. Aluminum	1980	1754	2000	99
2. Antimony	177	504	200	88.
3. Arsenic	54	24	50	108
4. Barium	2090	1004	2000	104
5. Beryllium	51	34	50	102
6. Cadmium	52	34	50	104
7. Calcium	NR			
8. Chromium	203	94	200	101
9. Cobalt	490	104	500	98
10. Copper	264	13	250	100.
11. Iron	1079	93	1000	98
12. Lead	32	24	40	80
13. Magnesium	NR			1
14. Manganese	515	206	250	123
15. Mercury	5.0	.134	5.0	100
16. Nickel	411	154	400	102
17. Potassium	NR			
16. Selenium	19 *	24	20	95
19. Silver	52	54	50	104.
20. Sodium	NR			
21. Thallium	38	24	40	95
22. Tin	161	404	200	80.
23. Vanadium	420	254	500	84.
24. Zinc	243	44	200	99.
Other:				

¹ Reporting Units: aqueous, ug/L, solid, mg/kg² ZR = [(SSR - SR)/SA] x 100

NR - Not required

Comments: * Spike value based in sample 612 std Tank
Same RUN AS SHOWN.

Form VI

Q. C. Report No. 00159-87

DUPLICATES

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

TOH Sample No. M 4 B-1Lab Sample ID No. M 4 B-1 DuplUnits³ ug/LMatrix Water

Compound	Control Limit ¹	Sample(S)	Duplicate(D)	RPD ²
Metals:				
1. Aluminum		115	71	*
2. Antimony		50 U	50 U	NC
3. Arsenic		[2] F	2 U	NC
4. Barium		100 U	100 U	NC
5. Beryllium		[4] A	[4] A	0
6. Cadmium		3 U	3 U	NC
7. Calcium		53120	53570	0.8
8. Chromium		9 U	9 U	NC
9. Cobalt		10 U	10 U	NC
10. Copper		76	10 U	NC
11. Iron		[72] A	[72] A	0
12. Lead		2 U	2 U	NC
13. Magnesium		267000	261000	2.2
14. Manganese		133	134	0.7
15. Mercury		.13 U	.13 U	NC
16. Nickel		15 U	15 U	NC
17. Potassium		85200	76500	10.7
18. Selenium		2 U	2 U	NC
19. Silver		5 U	5 U	NC
20. Sodium		1781500	1800000	1.0
21. Thallium		2 U	2 U	NC
22. Tin		40 U	40 U	NC
23. Vanadium		2200	2260	2.7
24. Zinc		27	[17] A	NC
%Solid				
Other:				

* Out of Control

¹ Refer to Exhibit E, $2 \text{ RPD} = [(S - D) / ((S + D) / 2)] \times 100$ ³ Reporting Units: aqueous, ug/L; solid, mg/kg

NC - Non calculable RPD due to value(s) less than CRDL

Form VI

Q. C. Report No. 00159-87DUPLICATESLab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

TOH Sample No. M3 B-1Lab Sample ID No. M3 B-1Units³ ug/LMatrix Water

Compound	Control Limit ¹	Sample(S)	Duplicate(D)	RPD ²
Metals:				
1. Aluminum		175 U	175 U	NC
2. Antimony		50 U	50 U	NC
3. Arsenic		2 U	2 U	NC
4. Barium		100 U	100 U	NC
5. Beryllium		3 U	3 U	NC
6. Cadmium		3 U	3 U	NC
7. Calcium		56350	57320	1.7
8. Chromium		9 U	9 U	NC
9. Cobalt		10 U	10 U	NC
10. Copper		[13] A	[12] A	NC
11. Iron		[93] A	[70] A	NC
12. Lead		2 U	2 U	NC
13. Magnesium		65400	65200	0.3
14. Manganese		271	274	1.1
15. Mercury		.13 U	.13 U	NC
16. Nickel		15 U	15 U	NC
17. Potassium		85200	84100	2.2
18. Selenium		2 U	2 U	NC
19. Silver		5 U	5 U	NC
20. Sodium		446500	442200	0.9
21. Thallium		2 U	2 U	NC
22. Tin		40 U	40 U	NC
23. Vanadium		25 U	25 U	NC
24. Zinc		44	45	2.2
%Solid				
Other:				

* Out of Control

¹ Refer to Exhibit E, $2 \text{ RPD} = [|S - D| / ((S + D)/2)] \times 100$ ³ Reporting Units: aqueous, ug/L; solid, mg/kg

NC - Non calculable RPD due to value(s) less than CRDL

Form VII

Q.C. Report No. 00159-87LABORATORY CONTROL SAMPLELab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

SOLID LCS No. _____

AQUEOUS LCS No. _____

Compound	Laboratory Control Samples						
	Aqueous (ug/L)			Solid (mg/kg)			
Metals:							
* 1. Aluminum	True	Found	%R	True -	Found	Limits	%R
2. Antimony	101.5	108	106				
3. Arsenic	235	233	99				
4. Barium	5000	5060	101				
5. Beryllium	100	99	99				
6. Cadmium	39	38	97				
7. Calcium	5000	5420	108				
8. Chromium	261	269	103				
9. Cobalt	261	272	104				
10. Copper	339	366	108				
11. Iron	716	967	N				
12. Lead	100	93	93				
13. Magnesium	500	460	92				
14. Manganese	348	354	101				
15. Mercury	8.7	9.0	103				
16. Nickel	207	217	105				
17. Potassium	1000	979	98				
18. Selenium	50	47	94				
19. Silver	35	34	97				
20. Sodium	1000	1020	102				
21. Thallium	25	23	92				
22. Tin	250	295	118				
23. Vanadium	846	810	95				
24. Zinc	418	395	94				
* 1. Aluminum	730	730	100				
Other+ ---				NR	NR	NR	NR

NR - Not required.

± 20%

B-15

ND

000018

Form I

Sample No.

M 4 A -1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M 4 A -1QC Report No. 00159-87

Elements Identified and Measured

Concentration: Low _____ Medium ☒ _____
Matrix: Water ☒ _____ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>400</u>	13. Magnesium	<u>133 000</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>51</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>3U</u>	17. Potassium	<u>87200</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>5</u>
7. Calcium	<u>46210</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>699800</u>
9. Cobalt	<u>[107]A</u>	21. Thallium	<u>2U</u>
10. Copper	<u>[13]A</u>	22. Tin	<u>40U</u>
11. Iron	<u>318</u>	23. Vanadium	<u>80</u>
12. Lead	<u>2U</u>	24. Zinc	<u>47</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M4 B-1

Date _____

INORGANIC ANALYSIS DATA SHEETLab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M4 B-1QC Report No. 00159-87Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>1150</u>	13. Magnesium	<u>267000</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>133</u>
3. Arsenic	<u>[2] F</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>[4] A</u>	17. Potassium	<u>85200</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>53120</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>1781500</u>
9. Cobalt	<u>10U</u>	21. Thallium	<u>2U</u>
10. Copper	<u>[16] A</u>	22. Tin	<u>40U</u>
11. Iron	<u>[72] A</u>	23. Vanadium	<u>2200</u>
12. Lead	<u>2U</u>	24. Zinc	<u>27</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M5 A-1

Date _____

INORGANIC ANALYSIS DATA SHEETLab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M5 A-1QC Report No. 00159-87Elements Identified and Measured

Concentration: Low _____ Medium ✓
Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>450</u>	13. Magnesium	<u>55600</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>143</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>-13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>3U</u>	17. Potassium	<u>70300</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>19570</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>354900</u>
9. Cobalt	<u>10U</u>	21. Thallium	<u>2U</u>
10. Copper	<u>32</u>	22. Tin	<u>40U</u>
11. Iron	<u>113</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>2U</u>	24. Zinc	<u>108</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M5 B-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M5 B-1QC Report No. 00159-87

Elements Identified and Measured

Concentration:

Low _____

Medium ☒ _____Matrix: Water ☒ _____

Soil _____

Sludge _____

Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>175 U</u>	13. Magnesium	<u>118800</u>
2. Antimony	<u>50 U</u>	14. Manganese	<u>143</u>
3. Arsenic	<u>[4] F</u>	15. Mercury	<u>.13 U</u>
4. Barium	<u>100 U</u>	16. Nickel	<u>15 U</u>
5. Beryllium	<u>3 U</u>	17. Potassium	<u>75200</u>
6. Cadmium	<u>3 U</u>	18. Selenium	<u>14</u>
7. Calcium	<u>38330</u>	19. Silver	<u>5 U</u>
8. Chromium	<u>9 U</u>	20. Sodium	<u>672400</u>
9. Cobalt	<u>10 U</u>	21. Thallium	<u>2 U</u>
10. Copper	<u>[13] A</u>	22. Tin	<u>40 U</u>
11. Iron	<u>368</u>	23. Vanadium	<u>25 U</u>
12. Lead	<u>2 U</u>	24. Zinc	<u>26</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M6 A1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M6 A-1QC Report No. 00159-87

Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>7040</u>	13. Magnesium	<u>11200</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>726</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>8</u>	17. Potassium	<u>4000</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>21190</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>43730</u>
9. Cobalt	<u>[23]A</u>	21. Thallium	<u>2U</u>
10. Copper	<u>37</u>	22. Tin	<u>40U</u>
11. Iron	<u>3680</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>13</u>	24. Zinc	<u>53</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M6 B-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M6 B-1QC Report No. 00159-87

Elements Identified and Measured

Concentration: Low _____ Medium ☒ _____
 Matrix: Water ☒ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>1060</u>	13. Magnesium	<u>105700</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>4270</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>5</u>	17. Potassium	<u>21300</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>33780</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>551200</u>
9. Cobalt	<u>[13]A</u>	21. Thallium	<u>[2]F</u>
10. Copper	<u>29</u>	22. Tin	<u>40U</u>
11. Iron	<u>5970</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>5</u>	24. Zinc	<u>64</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M7 A-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M7 A-1QC Report No. 00159-87

Elements Identified and Measured

Concentration:

Low _____

Medium ☒ _____

Matrix: Water _____

Soil _____

Sludge _____

Other _____

(ug/l) or mg/kg dry weight (Circle One)

1. Aluminum	<u>1440</u>	13. Magnesium	<u>22900</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>809</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>[3]A</u>	17. Potassium	<u>9650</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>36340</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>108200</u>
9. Cobalt	<u>[47]A</u>	21. Thallium	<u>2U</u>
10. Copper	<u>25</u>	22. Tin	<u>40U</u>
11. Iron	<u>11170</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>16</u>	24. Zinc	<u>64</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Form I

Sample No.

M7 B-1

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M7 B-1QC Report No. 00159-87

Elements Identified and Measured

Concentration: Low _____ Medium ✓
Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	<u>450</u>	13. Magnesium	<u>93900</u>
2. Antimony	<u>50 U</u>	14. Manganese	<u>1096</u>
3. Arsenic	<u>2 U</u>	15. Mercury	<u>.13 U</u>
4. Barium	<u>100 U</u>	16. Nickel	<u>15</u>
5. Beryllium	<u>3 U</u>	17. Potassium	<u>4670</u>
6. Cadmium	<u>3 U</u>	18. Selenium	<u>2 U</u>
7. Calcium	<u>31490</u>	19. Silver	<u>5 U</u>
8. Chromium	<u>9 U</u>	20. Sodium	<u>172100</u>
9. Cobalt	<u>10 U</u>	21. Thallium	<u>2 U</u>
10. Copper	<u>[177] A</u>	22. Tin	<u>40 U</u>
11. Iron	<u>776</u>	23. Vanadium	<u>25 U</u>
12. Lead	<u>6</u>	24. Zinc	<u>47</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

nytest environmental inc.

REPORT OF TESTS

PROJECT NO:87-13700

SAMPLE IDENTIFICATION

PARAMETERS (MG/L)

	<u>CYANIDE</u>	<u>TURBIDITY</u>
G8A-1	<0.01	—
G8B-1	<0.01	—
M6A-1	<0.01	4.3
M6B-1	<0.01	7.4
M7A-1	<0.01	6.5
M7B-1	<0.01	2.8

000007

Sample No. M8 1

Date _____

INORGANIC ANALYSIS DATA SHEETLab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M8-1QC Report No. 00159-87Elements Identified and Measured

Concentration: Low _____ Medium ☒ _____
 Matrix: Water ☒ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

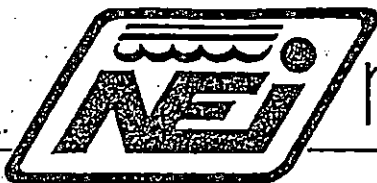
1. Aluminum	<u>960</u>	13. Magnesium	<u>90000</u>
2. Antimony	<u>50U</u>	14. Manganese	<u>[12]A</u>
3. Arsenic	<u>[3]F</u>	15. Mercury	<u>0.20</u>
4. Barium	<u>100U</u>	16. Nickel	<u>57</u>
5. Beryllium	<u>3U</u>	17. Potassium	<u>459900</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>17</u>
7. Calcium	<u>26840</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>1169000</u>
9. Cobalt	<u>[23]A</u>	21. Thallium	<u>2U</u>
10. Copper	<u>[19]A</u>	22. Tin	<u>40U</u>
11. Iron	<u>780</u>	23. Vanadium	<u>25U</u>
12. Lead	<u>2U</u>	24. Zinc	<u>62</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

APPENDIX C
SEDIMENT ANALYSES



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nyttest environmental inc.

Lab. No.: 87-13700 (J)

P.O. No.: 21-1987

Date: DECEMBER 31, 1987

ANALYTICAL DATA PACKAGE
FOR
INORGANICS

TO:

TOWN OF HEMPSTEAD
DEPT. OF SANITATION
1600 MERRICK ROAD
MERRICK, N.Y. 11566

ATTN: JAMES HEIL

We certify that this report is a true report
of results obtained from our tests of this
material.

Respectfully submitted,

Nyttest Environmental Inc.

Remo Gigante
Executive Vice President

GD

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500

Date _____

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name NYTES ENVIRONMENTAL

Case No. _____

SOW No. _____

Q.C. Report No. 0015987

Sample Numbers

<u>No.</u>	<u>Lab ID No.</u>	<u>No.</u>	<u>Lab ID No.</u>
<u>M2-15</u>	<u>8713700</u>	_____	_____
<u>M2-15</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments: _____

ICP interelement and background corrections applied? Yes _____ No _____
If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required

Form I:

- Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).
- U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).
- E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates matrix spike sample recovery is not within control limits.
- *
- +
- Indicates the correlation coefficient for method of standard addition is less than 0.995
- M - Indicates duplicate injection results exceeded control limits.
- W - Indicates GFAA spike sample recovery is not within control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

Sample No.

M151

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. M151QC Report No. 00159-87

Elements Identified and Measured

Concentration: Low _____ Medium ☒

Matrix: Water _____ Soil ☒ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1. Aluminum	<u>105.0</u>	13. Magnesium	<u>34.0</u>
2. Antimony	<u>5.0 U</u>	14. Manganese	<u>1.4</u>
3. Arsenic	<u>0.5 U</u>	15. Mercury	<u>0.46</u>
4. Barium	<u>10.0 U</u>	16. Nickel	<u>5.0</u>
5. Beryllium	<u>1.00</u>	17. Potassium	<u>8.1</u>
6. Cadmium	<u>0.3 U</u>	18. Selenium	<u>0.5 U</u>
7. Calcium	<u>148.0</u>	19. Silver	<u>5.0 U</u>
8. Chromium	<u>5.0 U</u>	20. Sodium	<u>18.0</u>
9. Cobalt	<u>1.0 U</u>	21. Thallium	<u>5.0 U</u>
10. Copper	<u>5.0 U</u>	22. Tin	<u>4.0 U</u>
11. Iron	<u>137.8</u>	23. Vanadium	<u>4.0</u>
12. Lead	<u>5.0 U</u>	24. Zinc	<u>5.0</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

Sample No.

M251

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. _____

QC Report No. 00159-B7

Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water _____ Soil ✓ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1. Aluminum	<u>17.5 U</u>	13. Magnesium	<u>5.0 U</u>
2. Antimony	<u>5.0 U</u>	14. Manganese	<u>0.6 U</u>
3. Arsenic	<u>0.5 U</u>	15. Mercury	<u>0.1 U</u>
4. Barium	<u>10.0 U</u>	16. Nickel	<u>5.0 U</u>
5. Beryllium	<u>0.3</u>	17. Potassium	<u>5.0 U</u>
6. Cadmium	<u>0.3 U</u>	18. Selenium	<u>0.5 U</u>
7. Calcium	<u>18.0</u>	19. Silver	<u>5.0 U</u>
8. Chromium	<u>5.0 U</u>	20. Sodium	<u>5.0 U</u>
9. Cobalt	<u>1.0 U</u>	21. Thallium	<u>5.0 U</u>
10. Copper	<u>5.0 U</u>	22. Tin	<u>4.0 U</u>
11. Iron	<u>1.4</u>	23. Vanadium	<u>2.5 U</u>
12. Lead	<u>5.0</u>	24. Zinc	<u>5.0 U</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

REPORT OF TESTS

PROJECT NO: 87-13700

<u>PARAMETERS (MG/L)</u>	<u>SAMPLE IDENTIFICATION</u>	
	<u>M1-1S</u>	<u>M2-1S</u>
CYANIDE	<0.01	<0.01
TOTAL SOLIDS	727,000	660,000
% MOISTURE	27.3%	32.0%

000004



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Summary

Project No.: 87-13700 (J)

P.O. No.: 21-1987

Date:

December 31, 1987

ANALYTICAL DATA REPORT PACKAGE
FOR

TOWN OF HEMPSTEAD DEPT. OF SANITATION

1600 MERRICK RD.

MERRICK, N.Y. 11566

SAMPLE IDENTIFICATION	LABORATORY NUMBER	TYPE OF SAMPLE	DATE AND TIME OF SAMPLE COLLECTION
M1-1S	N7-7701	SOIL	11/24/87 1:00 PM
M2-1S	N7-7702	SOIL	11/24/87 2:00 PM

PSH
REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

Remo Gigante
REMO GIGANTE
EXECUTIVE V.P.

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

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CHAIN OF CUSTODY RECORD

[illegible]

CHAIN OF CUSTODY RECORD FORM
MERRICK LANDFILL

FIGURE 4-1.

00001

Laboratory Chronicle

Project No: 87-13700

Client Name: Town of Hempstead

Date Recieved: 11/24/87

Sample ID: M1-1S, M2-1S

Organics Extraction:

- 12/2/87
1. Acids _____
- 12/2/87
2. Base/Neutrals _____
- 12/2/87
3. Pesticides/PCBs _____
4. Dioxin _____

Analysis:

- 11/28/87
1. Volatiles _____
- 12/9/87
2. Acids _____
- 12/9/87
3. Base/Neutrals _____
- 12/10/87
4. Pesticides/PCBs _____
5. Dioxin _____

Section Supervisor
Review & Approval

[Signature]

Inorganics:

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

Section Supervisor
Review & Approval

Quality Control Supervisor
Review & Approval

If fractions are re-extracted and re-analyzed include dates for both.

000002

Methodology Summary

NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	<u>Method</u>
Flame Sample Preparation	200.0
Furnace Sample Preparation	200.0
Mercury Sample Preparation	245.1
Hexavalent Chromium Sample Preparation	218.5

NON-AQUEOUS EXTRACTIONS - Reference (2)

SOIL AND SEDIMENT SAMPLES:

Flame, Sample Preparation	3050
Furnace Sample Preparation	3050
Mercury Sample Preparation	7471

SLUDGE/PETROLEUM BASED SAMPLES: - Reference (2)

Flame, Sample Preparation	3010 /3030 /3050
Furnace Sample Preparation	3020 /3030 /3050
Mercury Sample Preparation	7471

FLAME AA (Aqueous/Non-Aqueous) - Reference (1) (2)

Aluminum	202.1
Antimony	204.1/7040
Barium	208.1/7080
Beryllium	210.1/7090
Cadmium	213.1/7130
Chromium	218.1/7190
Cobalt	219.1
Copper	220.1/7210
Iron	236.1/7381
Lead	239.1/7420
Manganese	243.1/7460
Molybdenum	246.1
Nickel	249.1/7520
Potassium	258.1
Silver	272.1/7760
Sodium	273.1/7770
Tin	284.1
Vanadium	286.1/7910
Zinc	289.1/7950

METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)

	<u>Method</u>
Antimony	204.1/7041
Arsenic	206.2/7060
Lead	239.2/7421
Selenium	270.2/7740
Thallium	279.2/7841
Tin	282.2
Vanadium	286.2/7911

AQUEOUS METHODOLOGIES - Reference (3)

Organochlorine Pesticides and PCB's by Gas Chromatography	608
Herbicides by Gas Chromatography	362
Purgeable Organics by GC/MS	624
Base/Neutral, Acids by GC/MS	625
2,3,7,8-TCDD by GC/MS	613/625
Petroleum Hydrocarbons - Ref. (1)	418.1

NON-AQUEOUS METHODOLOGIES - Reference (2)

Gas Chromatography/Mass Spectrometry for:

Purgeable Organics	8240
Base/Neutral and Acid Extractables	8270
Organochlorine Pesticides and PCB's by Gas Chromatography	8080
Petroleum Hydrocarbons - Ref. (1 & 4)	418.1

MISCELLANEOUS ANALYSIS: Reference 2

	<u>Method</u>
Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapt. 8.3

Toxicity Characteristic Leaching Procedure (TCLP)

Reference 5

REFERENCE:

- (1) - 600/4-79-002 Methods for Chemical Analysis of Water and Waste
- (2) - SW 846 Test Methods for Evaluating Solid Waste
- (3) - 40 CFR Part 136, Vol. 49, No. 209 Test Parameters for the Analysis of Pollutants
- (4) - as modified by NJDEP-BISE
- (5) - Federal Register VOL 51 No. 216 Friday 11/7/87 P.40643 - 40652

000004

ORGANIC DATA REPORTING QUALIFIERS

- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)
- B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

000005

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-7701

Sample Matrix: SOIL

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13700

Date Sample Received: 11/24/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: NA
 Date Analyzed: 11/28/87
 Conc/Dil Factor: 1 pH:
 Percent Moisture: NA
 Percent Moisture (Decanted): 27.3

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-5	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-06-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	26.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U
				Total Dichlorobenzene	30.0 U

For reporting results to EPA, the
 Additional flags or footnotes explaining results are encouraged. However, the
 definition of each flag must be explicit.

- VALUE If the result is a value greater than or equal to the detection C limit, report the value. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/uI in the final extract should be confirmed by GC/MS.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample. This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000006

ORGANIC ANALYSIS DATA SHEET

CONTRACTOR: NYTEST ENVIRONMENTAL INC.
PROJECT NO: 87-13700

SAMPLE NO: M1-1S

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12/2/87

Date Analyzed: 12/9/87

Conc/Dil Factor:

Percent Moisture(Decanted): 27.3

GPC Cleanup: Yes X NoSeparatory Funnel Extraction: X YesContinuous Liquid-Liquid Extraction: Yes

2

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)	CAS Number		ug/l or <u>ug/Kg</u> (Circle One)
108-95-2	Phenol	660.0 U	83-32-9	Acenaphthene	660.0 U
111-44-4	bis(-2-Chloroethyl)Ether	660.0 U	51-29-5	2,4-Dinitrophenol	3200.0 U
95-57-8	2-Chlorophenol	660.0 U	100-02-7	4-Nitrophenol	3200.0 U
541-73-1	1,3-Dichlorobenzene	660.0 U	132-64-9	Dibenzofuran	660.0 U
106-46-7	1,4-Dichlorobenzene	660.0 U	121-14-2	2,4-Dinitrotoluene	660.0 U
103-51-6	Benzyl Alcohol	660.0 U	506-20-2	2,6-Dinitrotoluene	660.0 U
95-50-1	1,2-Dichlorobenzene	660.0 U	84-66-2	Diethylphthalate	660.0 U
95-48-7	2-Methylphenol	660.0 U	7005-72-3	4-Chlorophenyl-phenylether	660.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	660.0 U	86-73-7	Fluorene	660.0 U
106-44-5	4-Methylphenol	660.0 U	100-01-6	4-Nitroaniline	3200.0 U
621-54-7	N-Nitroso-Di-n-Propylamine	660.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	660.0 U
67-72-1	Hexachloroethane	660.0 U	36-30-6	N-Nitrosodiphenylamine (1)	3200.0 U
96-95-3	Nitrobenzene	660.0 U	101-55-3	4-Bromophenyl-phenylether	660.0 U
78-59-1	Isophorone	660.0 U	118-74-1	Hexachlorobenzene	660.0 U
88-75-5	2-Nitrophenol	660.0 U	87-86-5	Pentachlorophenol	3200.0 U
105-67-9	2,4-Dimethylphenol	660.0 U	85-01-8	Phenanthrene	660.0 U
65-85-0	Benzoic Acid	3200.0 U	120-12-7	Anthracene	660.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	660.0 U	84-74-2	Di-n-Butylphthalate	660.0 U
120-83-2	2,4-Dichlorophenol	660.0 U	206-44-0	Fluoranthene	660.0 U
120-82-1	1,2,4-Trichlorobenzene	660.0 U	129-00-0	Pyrene	660.0 U
91-20-3	Naphthalene	660.0 U	85-68-7	Butylbenzylphthalate	660.0 U
106-47-8	4-Chloroaniline	660.0 U	91-94-1	3,3'-Dichlorobenzidine	1320.0 U
87-68-3	Hexachlorobutadiene	660.0 U	56-55-3	Benzo(a)Anthracene	660.0 U
59-50-7	4-Chloro-3-Methylphenol	660.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	660.0 U
91-57-6	2-Methylnaphthalene	660.0 U	218-01-9	Chrysene	660.0 U
77-47-4	Hexachlorocyclopentadiene	660.0 U	117-84-0	Di-n-Octyl Phthalate	660.0 U
38-06-2	2,4,6-Trichlorophenol	660.0 U	205-99-2	Benzo(b)Fluoranthene	660.0 U
95-95-4	2,4,5-Trichlorophenol	3200.0 U	207-08-9	Benzo(k)Fluoranthene	660.0 U
91-58-7	2-Chloronaphthalene	660.0 U	50-32-8	Benzo(a)Pyrene	660.0 U
88-74-4	2-Nitroaniline	3200.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
131-11-3	Dimethyl Phthalate	660.0 U	53-70-3	Dibenz(a,h)Anthracene	660.0 U
208-96-8	Acenaphthylene	660.0 U	191-24-2	Benzo(g,h,i)Perylene	660.0 U
99-09-2	3-Nitroaniline	3200.0 U			

(1) - Cannot be separated from diphenylamine

000007

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M1-15

Contractor: NYTEST ENVIRONMENTAL INC.
Project No:87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	NO COMPOUNDS FOUND	VOA		
2	NO COMPOUNDS FOUND	ENA		
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

000008

Contractor: NYTEST ENVIRONMENTAL INC.

Project No:87-13700

PESTICIDE/PCBs

Concentration: LOW Medium (Circle One)

Date Extracted/Prepared:12/2/87

Date Analyzed:12/10/87

Conc/Dil Factor:

Percent Moisture (decanted):27.3

GPC Cleanup Yes X NoSeparatory Funnel Extraction YesContinuous Liquid-liquid Extraction Yes

1

CAS Number		ug/l or <u>ug/kg</u> (Circle One)
319-84-6	Alpha-BHC	8.00 U
319-85-7	Beta-BHC	8.00 U
319-86-8	Delta-BHC	8.00 U
58-89-9	Gamma-BHC (Lindane)	8.00 U
76-44-8	Heptachlor	8.00 U
309-00-2	Aldrin	8.00 U
1024-57-3	Heptachlor Epoxide	8.00 U
959-98-8	Endosulfan I	8.00 U
60-57-1	Dieldrin	16.00 U
72-55-9	4,4'-DDE	16.00 U
72-20-8	Endrin	16.00 U
33213-65-9	Endosulfan II	16.00 U
72-54-8	4,4'-DDD	16.00 U
1031-07-8	Endosulfan Sulphate	16.00 U
50-29-3	4,4'-DDT	16.00 U
53494-70-5	Endrin Ketone	16.00 U
72-43-5	Methoxychlor	80.00 U
57-74-9	Chlordane	80.00 U
8001-35-2	Toxaphene	160.00 U
12674-11-2	Aroclor-1016	80.00 U
11104-28-2	Aroclor-1221	80.00 U
11141-16-5	Aroclor-1232	80.00 U
53469-21-9	Aroclor-1242	80.00 U
12572-29-6	Aroclor-1248	80.00 U
11097-69-1	Aroclor-1254	160.00 U
11096-82-5	Aroclor-1260	160.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 g Vt 20000 Vi 1.0

000009

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-7701

Sample Matrix: SOIL

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13700

Date Sample Received: 11/24/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed: 11/28/87

Conc/Dil Factor: 1

pH:

Percent Moisture: NA

Percent Moisture (Decanted): 27.3

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	75-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	13.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-50-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-38-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U
				Total Dichlorobenzene	30.0 U

For reporting results to EPA, t

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- VALUE If the result is a value greater than or equal to the detection C limit, report the value. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/uI in the final extract should be confirmed by GC/MS.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample. This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit. Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000010

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-7702

Sample Matrix: SOIL

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13700

Date Sample Received: 11/24/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NA

Date Analyzed: 11/28/87

Conc/Dil Factor: 1 pH:

Percent Moisture: NA

Percent Moisture (Decanted): 32.0

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)	CAS Number		ug/l or <u>ug/Kg</u> (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U
				Total Dichlorobenzene	30.0 U

For reporting results to EPA, t

Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- VALUE If the result is a value greater than or equal to the detection C limit, report the value.. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/u1 in the final extract should be confirmed by GC/MS.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample. This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000011

CONTRACTOR: NYTEST ENVIRONMENTAL INC.
PROJECT NO: 87-13700

SAMPLE NO: M2-15

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12/2/87

Date Analysed: 12/9/87

Conc/Dil Factor:

Percent Moisture(Decanted): 32.0

GPC Cleanup: Yes X NoSeparatory Funnel Extraction: X YesContinuous Liquid-Liquid Extraction: Yes

2

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)
108-95-2	Phenol	660.0 U
111-44-4	bis(-2-Chloroethyl)Ether	660.0 U
95-57-8	2-Chlorophenol	660.0 U
541-73-1	1,3-Dichlorobenzene	660.0 U
106-46-7	1,4-Dichlorobenzene	660.0 U
100-51-6	Benzyl Alcohol	660.0 U
95-50-1	1,2-Dichlorobenzene	660.0 U
95-48-7	2-Methylphenol	660.0 U
39538-32-9	bis(2-chloroisopropyl)Ether	660.0 U
106-44-5	4-Methylphenol	660.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	660.0 U
67-72-1	Hexachloroethane	660.0 U
98-95-3	Nitrobenzene	660.0 U
78-59-1	Isophorone	660.0 U
88-75-5	2-Nitrophenol	660.0 U
105-67-9	2,4-Dimethylphenol	660.0 U
65-85-0	Benzoic Acid	3200.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	660.0 U
120-83-2	2,4-Dichlorophenol	660.0 U
120-82-1	1,2,4-Trichlorobenzene	660.0 U
91-20-3	Naphthalene	660.0 U
106-47-8	4-Chloroaniline	660.0 U
87-68-3	Hexachlorobutadiene	660.0 U
59-50-7	4-Chloro-3-Methylphenol	660.0 U
91-57-6	2-Methylnaphthalene	660.0 U
77-47-4	Hexachlorocyclopentadiene	660.0 U
88-06-2	2,4,6-Trichlorophenol	660.0 U
95-95-4	2,4,5-Trichlorophenol	3200.0 U
91-58-7	2-Chloronaphthalene	660.0 U
88-74-4	2-Nitroaniline	3200.0 U
131-11-3	Dimethyl Phthalate	660.0 U
208-96-8	Acenaphthylene	660.0 U
99-09-2	3-Nitroaniline	3200.0 U

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)
83-32-9	Acenaphthene	660.0 U
51-28-5	2,4-Dinitrophenol	3200.0 U
100-02-7	4-Nitrophenol	3200.0 U
132-64-9	Dibenzofuran	660.0 U
121-14-2	2,4-Dinitrotoluene	660.0 U
608-20-2	2,6-Dinitrotoluene	660.0 U
84-66-2	Diethylphthalate	660.0 U
7005-72-3	4-Chlorophenyl-phenylether	660.0 U
86-73-7	Fluorene	660.0 U
100-01-6	4-Nitroaniline	3200.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	660.0 U
86-30-6	N-Nitrosodiphenylamine (1)	3200.0 U
101-55-3	4-Bromophenyl-phenylether	660.0 U
118-74-1	Hexachlorobenzene	660.0 U
87-86-5	Pentachlorophenol	3200.0 U
85-01-8	Phenanthrene	70.0 J
120-12-7	Anthracene	660.0 U
84-74-2	Di-n-Butylphthalate	660.0 U
206-44-0	Fluoranthene	130.0 J
129-00-0	Pyrene	170.0 J
85-68-7	Butylbenzylphthalate	660.0 U
91-94-1	3,3'-Dichlorobenzidine	1320.0 U
56-55-3	Benzo(a)Anthracene	660.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	660.0 U
218-01-9	Chrysene	660.0 U
117-84-0	Di-n-Octyl Phthalate	660.0 U
205-99-2	Benzo(b)Fluoranthene	660.0 U
207-08-9	Benzo(k)Fluoranthene	660.0 U
50-32-8	Benzo(a)Pyrene	660.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
53-70-3	Dibenz(a,h)Anthracene	660.0 U
191-24-2	Benzo(g,h,i)Perylene	660.0 U

(1) - Cannot be separated from diphenylamine

000012

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M2-15

Contractor: NYTEST ENVIRONMENTAL INC.

Project No:87-13700

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1	75183	METHYLSULFIDE	VOA	7.52	50 J
2		UNKNOWN	BNA	8.80	810 J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

000013

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER:M2-1S

Contractor: NYTEST ENVIRONMENTAL INC.

Project No:87-13700

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:12/2/87

Date Analyzed:12/10/87

Conc/Dil Factor:

Percent Moisture (decanted):32.0

GPC Cleanup__Yes__X__No

Separatory Funnel Extraction __Yes

Continuous Liquid-liquid Extraction __Yes

10

CAS
Numberug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	80.00 U
319-85-7	Beta-BHC	80.00 U
319-86-8	Delta-BHC	80.00 U
58-89-9	Gamma-BHC (Lindane)	80.00 U
76-44-8	Heptachlor	80.00 U
309-00-2	Aldrin	80.00 U
1024-57-3	Heptachlor Epoxide	80.00 U
959-98-8	Endosulfan I	80.00 U
60-57-1	Dieldrin	160.00 U
72-55-9	4,4'-DDE	160.00 U
72-20-8	Endrin	160.00 U
33213-65-9	Endosulfan II	160.00 U
72-54-8	4,4'-DDD	160.00 U
1031-07-8	Endosulfan Sulphate	160.00 U
50-29-3	4,4'-DDT	160.00 U
53494-70-5	Endrin Ketone	160.00 U
72-43-5	Methoxychlor	800.00 U
57-74-9	Chlordane	800.00 U
8001-35-2	Toxaphene	1600.00 U
12674-11-2	Araclo-1016	800.00 U
11104-28-2	Araclo-1221	800.00 U
11141-16-5	Araclo-1232	800.00 U
53469-21-9	Araclo-1242	800.00 U
12672-29-6	Araclo-1248	800.00 U
11097-69-1	Araclo-1254	1600.00 U
11096-82-5	Araclo-1260	1600.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 g Vt 20000 Vi 1.0

000014

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Low: Medium:

[----- VOLATILE -----] [----- SEMI-VOLATILE -----] [----- PESTICIDES -----]

SNO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-115)	1,2 DICHLORO- ETHANE-D4 (76-114)	NITRO- BENZENE-D5 (35-114)	2-FLUORO- BIPHENYL (43-116)	TERPHENYL- D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO- PHENOL (21-100)	2,4,6 TRIBROMO- PHENOL (10-123)	** DIBUTYL- CHLORENDA (24-154)
METHOD BLANK 11/28/87	96	98	87									
METHOD BLANK 12/7/87	98	96	87									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 0 out of 6 ; outside of QC limits
Semi-Volatiles: out of ; outside of QC limits
Pesticides: out of ; outside of QC limits

000015

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Low: Medium:

[- - - - - VOLATILE - - - - -] [- - - - - SEMI-VOLATILE - - - - -] [- - - - - PESTICIDES - - - - -]

SMD TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLORO- ETHANE-D4 (70-121)	NITRO- BENZENE-D5 (23-120)	2-FLUORO- BIPHENYL (30-115)	TERPHENYL- D14 (18-137)				PHENOL-D5 (24-113)	2-FLUORO- PHENOL (25-121)	2,4,6 TRIBROMO- PHENOL (19-122)	** DIBUTYL- CHLORENDATE (20-150)
METHOD BLANK				84	79	77				73	68	73	188 *
M1-1S	178	81	93	57	59	80				53	54	47	120
M1-1S RERUN	175	82	96										
M1-1S MS				58	62	76				53	52	49	197 *
M1-1S MSD				62	66	116				60	57	42	154 *
M2-1S	103	92	96	42	52	74				47	43	37	134
E-187-510-14	100	92	84										
E-187-510-14MS	105	88	85										
E-187-510-14MSD	102	88	84										

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles:

Semi-Volatiles

Pesticides:

0 out of 18

0 out of 30

3 out of 5

; outside of QC limits

; outside of QC limits

; outside of QC limits

000016

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	%	CONC. MSD	%	RPD	QC LIMITS *	
									RPD	RECOVERY
VOA SMO SAMPLE NO. E-187-510-14	1,1-Dichloroethene	100.00		60.00	60.00	63.00	63.00	4.88	22	59-172
	Trichloroethene	100.00		63.00	63.00	64.00	64.00	1.57	24	62-137
	Chlorobenzene	100.00		84.00	84.00	83.00	83.00	1.20	21	60-133
	Toluene	100.00		72.00	72.00	71.00	71.00	1.40	21	59-139
	Benzene	100.00		74.00	74.00	72.00	72.00	2.74	21	66-142
B/N SMO SAMPLE NO. M1-1S	1,2,4-Trichlorobenzene	3333.50		1759	53	1739	52	1.13	23	38-107
	Acenaphthene	3333.50		3107	93	3232	97	3.93	19	31-137
	2,4-Dinitrotoluene	3333.50		1213	36	1131	34	6.97	47	28-89
									40	11-117
	Pyrene	3333.50		2016	60	2836	85	33.80	36	35-142
	N-Nitroso-Di-n-Propylamine	3333.50		1524	46	1815	54	17.42	38	41-126
	1,4-Dichlorobenzene	3333.50		178	5 *	180	5 *	1.00	27	28-104
ACID SMO SAMPLE NO. M1-1S	Pentachlorophenol	6667.00		1520	23	1345	20	12.18	47	17-109
	Phenol	6667.00		2051	31	2315	35	12.06	35	26-90
	2-Chlorophenol	6667.00		2537	38	2471	37	2.64	50	25-102
	4-Chloro-3-Methylphenol	6667.00		2950	44	3262	49	10.05	33	26-103
	4-Nitrophenol	6667.00		3024.9	45	2383	36	23.74	50	11-114
PEST SMO SAMPLE NO. M1-1S	Lindane	26.67		24.00	89.99	19.00	71.24	23.26	50	46-127
	Heptachlor	26.67		31.97	119.87	26.44	99.14	18.94	31	35-130
	Aldrin	26.67		34.10	127.86	27.57	103.37	21.18	43	34-132
	Dieldrin	66.67		111.80	167.69 *	91.72	137.57 *	19.73	38	31-134
	Endrin	66.67		106.20	159.29 *	84.73	127.09	22.49	45	42-139
	4,4'-DDT	66.67		139.13	208.68 *	105.18	157.76 *	27.79	50	23-134

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	0	out of	5 ;outside QC limits	RECOVERY	VOA'S	0	out of	10 ;outside QC limits
	B/N	0	out of	6 ;outside QC limits		B/N	2	out of	12 ;outside QC limits
	ACID	0	out of	5 ;outside QC limits		ACIDS	0	out of	10 ;outside QC limits
	PEST	0	out of	6 ;outside QC limits		PEST	5	out of	12 ;outside QC limits

Comments:

000017

METHOD BLANK SUMMARY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
VA518	11/28/87	VOA	WATER	LOW	NYT 1	67-64-1	ACETONE	5	UG/L	10
						127-18-4	TETRACHLOROETHENE	4	UG/L	5
						—	NO COMPOUNDS FOUND	—	UG/L	—
V4650	12/07/87	VOA	WATER	LOW	NYT 1	67-64-1	ACETONE	47	UG/L	10
						—	NO COMPOUNDS FOUND	—	UG/L	—
F2186	12/09/87	BNA	SOIL	LOW	NYT 1	—	NO COMPOUNDS FOUND	—	—	—
BLANK	12/10/87	PEST	SOIL	LOW	HP5890	—	NO COMPOUNDS FOUND	—	—	—

Comments:

000018

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 3

Date: 11/9/87

Lab ID: V4381::D4

Data Release Authorized By: *[Signature]*

Project No: 87-13700

Time: 16:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	19.08
75	30.0 - 60.0% of the base peak	47.99
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	7.85
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	95.18
175	5.0 - 9.0% of mass 174	7.06 [7.420]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.68 [96.32]*1
177	5.0 - 9.0% of mass 176	6.47 [7.055]**

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERFORMANCE STANDARD	V4381	11/9/87	16:14
20 NG STANDARD	V4385	11/9/87	19:37
100 NG STANDARD	V4387	11/9/87	21:19
150 NG STANDARD	V4388	11/9/87	22:10
200 NG STANDARD	V4391	11/9/87	00:42

000019

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 3

Date: 11/10/87

Lab ID: V4395::D1

Data Release Authorized By: *[Signature]*

Project No: 87-13700

Time: 10:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	21.37
75	30.0 - 60.0% of the base peak	52.03
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	8.75
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	99.64
175	5.0 - 9.0% of mass 174	8.12 [0.145]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	95.04 [95.38]*1
177	5.0 - 9.0% of mass 176	7.21 [7.590]**1

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERFORMANCE STANDARD	V4395	11/10/87	10:32
50 NG STANDARD	V4396	11/10/87	10:57

000020

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: NYT 3

Date: 11/28/87

Lab ID: VA516

Data Release Authorized By: *AKH*

Project No: 87-13700

Time: 11:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.0
75	30.0 - 60.0% of the base peak	45.1
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	8.1
173	Less than 1.0% of the base peak -	0.00 [0.0]*1
174	Greater than 50.0% of the base peak	87.5
175	5.0 - 9.0% of mass 174	7.2 [8.2]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.0 [96.4]*1
177	5.0 - 9.0% of mass 176	6.1 [7.0]**2

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF. STANDARD	VA516	11/28/87	11:35
WORKING STANDARD	VA517	11/28/87	12:13
METHOD BLANK	VA518	11/28/87	13:33
M1-1S	N7-7701	11/28/87	16:15
M2-1S	N7-7702	11/28/87	17:06
M1-1S (RERUN)	N7-7701	11/28/87	20:27

000021

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 3

Date: 12/05/87

Lab ID: V4605::D3

Data Release Authorized By: 

Project No: 87-13700

Time: 8:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	23.09
75	30.0 - 60.0% of the base peak	57.95
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.99
173	Less than 1.0% of the base peak	.71
174	Greater than 50.0% of the base peak	73.30
175	5.0 - 9.0% of mass 174	5.11 [6.976]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	70.08 [95.61]*1
177	5.0 - 9.0% of mass 176	4.86 [6.933]**

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF. STANDARD	V4605	12/5/87	8:34
VSTD 020	V4609	12/5/87	12:30
VSTD 050	V4610	12/5/87	13:22
VSTD 100	V4612	12/5/87	14:21
VSTD 150	V4613	12/5/87	15:13
VSTD 200	V4614	12/5/87	16:05

000022

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 3

Lab ID: V4647

Date: 12/07/87

Data Release Authorized By: *gnt*

Project No: 87-13700

Time: 9:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	18.14
75	30.0 - 60.0% of the base peak	43.18
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	7.54
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	92.95
175	5.0 - 9.0% of mass 174	8.14 [8.76]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	92.87 [99.91]*1
177	5.0 - 9.0% of mass 176	7.46 [8.03]**2

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF. STANDARD	V4647	12/7/87	9:04
WORKING STANDARD	V4648	12/7/87	9:27
METHOD BLANK	V4650	12/7/87	12:04
E-187-510-14	N7-7768	12/7/87	15:49
E-187-510-14 MS	N7-7768	12/7/87	16:41
E-187-510-14 MSD	N7-7768	12/7/87	17:32

000023

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1 Date: 10/23/87

Lab ID: >F1881::D2

Data Release Authorized By: *ALH*

Project No: 87-1700

Time: 0:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.50
68	Less than 2.0% of mass 59	0.00[0.00]*
69	Mass 69 relative abundance	60.47
70	Less than 2.0% of mass 69	.12[.1933]*
127	40.0 - 60.0% of mass 198	50.40
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	7.54
275	10.0 - 30.0% of mass 198	20.98
365	Greater than 1.00% of mass 198	2.87
441	Present, but less than mass 443	12.24
442	Greater than 40.0% of mass 198	80.74
443	17.0 - 23.0% of mass 442	15.23[18.86]**

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	F1881	10/23/87	0:09
INITIAL CAL. 20 NG	F8884	10/23/87	3:56
INITIAL CAL. 50 NG	FA884	10/23/87	2:47
INITIAL CAL. 80 NG	F1884	10/23/87	5:04
INITIAL CAL. 120 NG	F1885	10/23/87	6:13
INITIAL CAL. 160 NG	F1886	10/23/87	7:22

000024

GC/MS TUNING AND MASS CALIBRATION
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1

Date: 12/9/87

Lab ID: >F2184::D3

Data Release Authorized By: *[Signature]*

Project No: 87-1700

Time: 8:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.18
68	Less than 2.0% of mass 69	0.00[0.00]*
69	Mass 69 relative abundance	54.47
70	Less than 2.0% of mass 69	.71[1.2999]*
127	40.0 - 60.0% of mass 198	41.96
197	Less than 1.0% of mass 198	0.00
198	Base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.79
275	10.0 - 30.0% of mass 198	19.63
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	9.68
442	Greater than 40.0% of mass 198	68.14
443	17.0 - 23.0% of mass 442	14.59[21.41]**

* Value in parenthesis is % mass 69.

** Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF. STANDARD	F2184	12/9/87	8:48
WORKING STANDARD	F2185	12/9/87	9:14
METHOD BLANK	F2186	12/9/87	10:35
M1-1S	N7-7701	12/9/87	11:50
M1-1S MS	N7-7701	12/9/87	13:04
M1-1S MSD	N7-7701	12/9/87	14:20
M2-1S	N7-7702	12/9/87	15:35

000025

APPENDIX D
ASH LAGOON ANALYSES



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Lab. No.: 87-13700 (K)

P.O. No.: 21-1987

Date: January 31, 1988

ANALYTICAL DATA PACKAGE
FOR
INORGANICS

TOWN OF HEMPSTEAD
DEPT OF SANITATION
1600 MERRICK ROAD
MERRICK, NY 11566

ATTN: JAMES HEIL

We certify that this report is a true report
of results obtained from our tests of this
material.

Respectfully submitted,

Nyttest Environmental Inc.

Remo Gigante
Executive Vice President

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

Date _____

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name NYTEST ENVIRONMENTAL

Case No. 8713700

SOW No. _____

Q.C. Report No. 00004-88

Sample Numbers

<u>TOH No.</u>	<u>Lab ID No.</u>	<u>No.</u>	<u>Lab ID No.</u>
<u>1, 2, 3 AI</u>	<u>8713700</u>	_____	_____
<u>4, 5 AL</u>	_____	_____	_____
<u>6 AL</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments: _____

ICP interelement and background corrections applied? Yes _____ No _____.
If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required

Form I:

- Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).
- U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).
- E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates matrix spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- † - Indicates the correlation coefficient for method of standard addition is less than 0.995.
- M - Indicates duplicate injection results exceeded control limits.
- W - Indicates GFAA spike sample recovery is not within control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

fresh 3 weeks!!!

CHAIN OF CUSTODY RECORD

PROJECT NO.		PROJECT NAME				NO. OF CONTAINERS	ANALYSIS											REMARKS
CLIENT NAME		LAB. #					NITROGEN	OIL & GREASE	CYANIDE	PHENOL	VOLATILE	METALS	ORGANICS	BACTERIAL	TOC COD	OTHER	UNPRESERVED	ADDITIONAL REQUIREMENTS
TOWN OF HEMP. DEPT. OF SANITATION																		
SAMPLE I.D. NO.	DATE	TIME	COMP	GRAB	SAMPLE LOCATION													
1,2,3 AL			X		MERRICK LANDFILL - BFI	1												Metals Analysis
4,5 AL			X		TRUCK PARKING LOT	1												H3L
6 AL			X		"	1												
Samples 1, 2, 3 were analyzed by Perm. Syntex on 1/11/88 10:25 AM																		
H 4, 5 " "																		
000000																		
Shipped Via:																		
Relinquished by (Signature)		Date/Time		Agent of:		Rec'd. by (Signature)		Date/Time		Agent of:								
James Nuccio		1/11/88 10:35 AM		Velzy Associates														
Printed Name				Carle P.L., N.Y.		Printed Name												
Relinquished by (Signature)		Date/Time		Agent of:		Rec'd. by (Signature)		Date/Time		Agent of:								
Printed Name						Printed Name												
Relinquished by (Signature)		Date/Time		Received for Laboratory (Signature)		Date/Time		Remarks:										
Printed Name				GIGANTE		1/11/88 10:35												
Sampler (Signature)				Sampler's Name (Print)														
James Nuccio				James Nuccio														

TOH Sample No.

1, 2, 3 AI

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. 1, 2, 3 AIQC Report No. 00004-88

Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water _____ Soil ✓ Sludge _____ Other _____
 ug/L or mg/kg dry weight (Circle One)

1. Aluminum	<u>11900</u>	13. Magnesium	<u>1650.</u>
2. Antimony	<u>5.4</u>	14. Manganese	<u>269.</u>
3. Arsenic	<u>5.</u>	15. Mercury	<u>.320</u>
4. Barium	<u>226.</u>	16. Nickel	<u>15.0</u>
5. Beryllium	<u>.700</u>	17. Potassium	<u>2642.</u>
6. Cadmium	<u>13.1</u>	18. Selenium	<u>.500</u>
7. Calcium	<u>2950.</u>	19. Silver	<u>54</u>
8. Chromium	<u>21.4</u>	20. Sodium	<u>2255.</u>
9. Cobalt	<u>5.4</u>	21. Thallium	<u>54</u>
10. Copper	<u>128.</u>	22. Tin	<u>54200</u>
11. Iron	<u>3682.</u>	23. Vanadium	<u>.170</u>
12. Lead	<u>967.</u>	24. Zinc	<u>916.</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

TOH Sample No.

4,5 AL

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. 4,5 A1QC Report No. 00004-88

Elements Identified and Measured

Concentration: Low _____ Medium ✓
 Matrix: Water _____ Soil ✓ Sludge _____ Other _____

ug/L or (mg/kg) dry weight (Circle One)

1. Aluminum	<u>4680</u>	13. Magnesium	<u>1810.</u>
2. Antimony	<u>5.4</u>	14. Manganese	<u>.248.</u>
3. Arsenic	<u>5.2</u>	15. Mercury	<u>.560</u>
4. Barium	<u>162.</u>	16. Nickel	<u>11.8</u>
5. Beryllium	<u>.600</u>	17. Potassium	<u>1145.</u>
6. Cadmium	<u>13.3</u>	18. Selenium	<u>.54</u>
7. Calcium	<u>978.</u>	19. Silver	<u>5.4</u>
8. Chromium	<u>17.7</u>	20. Sodium	<u>630.</u>
9. Cobalt	<u>5.4</u>	21. Thallium	<u>54</u>
10. Copper	<u>102.</u>	22. Tin	<u>78300</u>
11. Iron	<u>3535.</u>	23. Vanadium	<u>.160</u>
12. Lead	<u>267.8</u>	24. Zinc	<u>753.</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____

TOH Sample No.

6 AL

Date _____

INORGANIC ANALYSIS DATA SHEET

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

SOW No. _____

Lab Receipt Date _____

Lab Sample ID. No. 6 ALQC Report No. 0000 4-88

Elements Identified and Measured

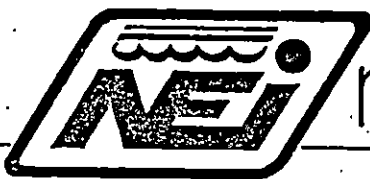
Concentration: Low _____ Medium ✓
 Matrix: Water _____ Soil ✓ Sludge _____ Other _____
 ug/L or mg/kg dry weight (Circle One)

1. Aluminum	<u>350</u>	13. Magnesium	<u>191.0</u>
2. Antimony	<u>5.0</u>	14. Manganese	<u>.27.3</u>
3. Arsenic	<u>.2 U</u>	15. Mercury	<u>.260</u>
4. Barium	<u>54.0</u>	16. Nickel	<u>2.80</u>
5. Beryllium	<u>.700</u>	17. Potassium	<u>86.0</u>
6. Cadmium	<u>.800</u>	18. Selenium	<u>.5 U</u>
7. Calcium	<u>18.</u>	19. Silver	<u>5. U</u>
8. Chromium	<u>2.70</u>	20. Sodium	<u>41.4</u>
9. Cobalt	<u>5. U</u>	21. Thallium	<u>5 U</u>
10. Copper	<u>3.50</u>	22. Tin	<u>4 U</u>
11. Iron	<u>2455.</u>	23. Vanadium	<u>.05 U</u>
12. Lead	<u>8.40</u>	24. Zinc	<u>8.30</u>
Cyanide	_____	Percent Solids (%)	_____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager _____



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

SAMPLE DATA

Form II (Part 1)

Q. C. Report No. 00004-88INITIAL AND CONTINUING CALIBRATION VERIFICATION³Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

SOW No. _____

Units: (ug/L)

Compound

Initial Calibration¹Continuing Calibration²

Metals:	True Value	Found	ZR	True Value	Found	ZR	Found	ZR	Method
1. Aluminum	730	750	103	730	750	103			
2. Antimony	101.5	93	91.6	101.5	93	91.6			
3. Arsenic	100	103	103	100	110	110			
4. Barium	5000	4830	96.6	5000	4870	97.4			
5. Beryllium	235	248	105	235	245	104			
6. Cadmium	39	40	102	39	37	94.8			
7. Calcium	5000	5330	106	5000	5740	114			
8. Chromium	261	269	103	261	264	101			
9. Cobalt	261	281	107	261	240	92			
10. Copper	100	111	111	100	100	100			
11. Iron	796	886	111	796	886	111			
12. Lead	100	94	94	100	99	99			
13. Magnesium	50	56	112	50	54	108			
14. Manganese	348	361	103	348	358	102			
15. Mercury	8.7	8.0	92	8.7	8.0	92			
16. Nickel	100	98	98	100	93	93			
17. Potassium	1000	990	99	1000	925	92			
18. Selenium	50	49	98	50	46	92			
19. Silver	34	35	103	35	35	100			
20. Sodium	1000	990	99	1000	1028	102			
21. Thallium	101	94	93	101	93	92			
22. Tin	400	397	99	400	343	86			
23. Vanadium	846	840	99	846	920	108			
24. Zinc	418	407	97	407	407	100			

Percent Solids (%)

Other: _____

¹ Initial Calibration Source _____² Continuing Calibration Source _____³ Control Limits: Mercury, 80-120;⁴ Indicate Analytical Method Used:

Other Metals 90-110; Cyanide 85-115

P - ICP; A - Flame AA; F - Furnace AA

000006

Form II (Part 2)

Q. C. Report No. 00004-88LINEAR RANGE ANALYSIS AND CRDL STANDARD FOR AA³Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

SOW No. _____

Units : ug/L

Compound		CRDL STD. For AA ¹		Linear Range Analysis ² (ICP)				
Metals:	True Value	Found	%R	True Value	Initial		Final	
					Found	%R	Found	%R
1. Aluminum	200	190	95					
2. Antimony	60	59	98					
3. Arsenic	10	11	110					
4. Barium	200	220	110					
5. Beryllium	5	5	100					
6. Cadmium	5	7	140					
7. Calcium	5000	5030	100					
8. Chromium	10	10	100					
9. Cobalt	50	44	88					
10. Copper	25	25	100					
11. Iron	100	98	98					
12. Lead	5	5	100					
13. Magnesium	5000	5010	100					
14. Manganese	15	15	100					
15. Nickel	40	40	100					
16. Potassium	1000	966	96.6					
17. Selenium	10	11	110					
18. Silver	10	10	100					
19. Sodium	100	100	100					
20. Thallium	10	9	90					
21. Vanadium	25	30	120					
22. Tin	40	37	92					
23. Zinc	20	20	100					
Other:								

¹ CRDL Standard Source _____² Linear Range Standard Source _____³ Linear Range Standard must be at 2x CRDL or 2x IDL whichever is higher

000007

Form III

Q. C. Report No. 00004-88

BLANKS

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

Units ug/LMatrix Water

Compound	Initial Calibration Blank Value	Continuing Calibration				Preparation Blank ¹	
		Blank Value				Matrix: Matrix:	
		1	2	3	4	1	2
Metals:							
1. Aluminum	175U	175U					
2. Antimony	50U	50U					
3. Arsenic	2U	2U	--				
4. Barium	100U	100U					
5. Beryllium	3U	3U					
6. Cadmium	3U	3U					
7. Calcium	50U	50U					
8. Chromium	9U	9U					
9. Cobalt	10U	10U					
10. Copper	10U	10U					
11. Iron	10U	10U					
12. Lead	2U	2U					
13. Magnesium	50U	50U					
14. Manganese	6U	6U					
15. Mercury	.13U	.13U					
16. Nickel	15U	15U					
17. Potassium	50U	50U					
18. Selenium	2U	2U					
19. Silver	5U	5U					
20. Sodium	50U	50U					
21. Thallium	2U	2U					
22. Tin	40U	40U					
23. Vanadium	25U	25U					
24. Zinc	2U	2U					
Other:							

¹ Reporting units: aqueous, ug/L; solid, mg/kg

000008

Q. C. Report No. 00004-BBSPIKE SAMPLE RECOVERYLab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

TOH Sample No. 6 ALLab Sample ID No. 6 AL SpikeUnits² mg/kgMatrix Soil

Compound	Control Limit ZR	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	ZR ¹
Metals:					
1. Aluminum	75-125	NR			
2. Antimony	"	9.60	5.4	.100	96
3. Arsenic	"	4.70	.2004	.050	106
4. Barium	"	229	54.0	2.00	87.5
5. Beryllium	"	5.80	.800	.050	100
6. Cadmium	"	6.00	.800	.050	104
7. Calcium	"	NR			
8. Chromium	"	22.1	2.30	.200	110
9. Cobalt	"	50.0	5.0	.500	90
10. Copper	"	28.9	3.5	.250	101
11. Iron	"	NR			
12. Lead	"	.593	.084	.500	101
13. Magnesium	"	NR			
14. Manganese	"	78.6	27.3	.500	102
15. Mercury	"	.72	.26	.005	92
16. Nickel	"	53.2	3.00	.500	100
17. Potassium	"	NR			
18. Selenium	"	1.90	.504	.020	100
19. Silver	"	5.0	5.04	.050	100
20. Sodium	"	NR			
21. Thallium	"	5.8	5.04	5.0	N
22. Tin	"	0.073	.044	0.10	N
23. Vanadium	"	53.0	.0504	500	106
24. Zinc	"	582	8.40	500	99.6
Other:					

¹ ZR = [(SSR - SR)/SA] x 100, ² Reporting Units: aqueous, ug/L; solid, mg/kg

N- out of control, NR - Not required

000009

Comments: _____

Form VI

Q. C. Report No. 0000488

DUPLICATES

Lab Name NYTEST ENVIRONMENTAL

Case No. _____

Date _____

TOH Sample No. 6 AL

Lab Sample ID No. _____

Units³ mg/kgMatrix soil

Compound	Control Limit ¹	Sample(S)	Duplicate(D)	RPD ²
Metals:				
1. Aluminum		835.7		
2. Antimony		5.4	5.4	NC
3. Arsenic		.24	.24	NC
4. Barium		54.0	73.0	*
5. Beryllium		.700	.800	1.30
6. Cadmium		.800	.800	0
7. Calcium		.180	.060	*
8. Chromium		2.70	2.30	16
9. Cobalt		5.4	5.4	NC
10. Copper		3.5	3.7	5.5
11. Iron		2455	2497	1.6
12. Lead		8.40	7.40	12.6
13. Magnesium		191	191	0
14. Manganese		27.4	27.3	.36
15. Mercury		.260	.260	0
16. Nickel		2.80	3.00	6.8
17. Potassium		86.0	85.0	1.16
18. Selenium		.54	.54	NC
19. Silver		5.4	5.4	NC
20. Sodium		41.4	42.5	2.6
21. Thallium		5.04	5.04	NC
22. Tin		.044	.044	NC
23. Vanadium		.054	.054	NC
24. Zinc		8.30	8.40	1.19
%Solid				
Other:				

* Out of Control

¹ Refer to Exhibit E, $2 \text{ RPD} = [(S - D) / ((S + D) / 2)] \times 100$ ³ Reporting Units: aqueous, ug/L; solid, mg/kg

NC - Non calculable RPD due to value(s) less than CRDL

000010

Form XI

INSTRUMENT DETECTION LIMITS (Quarterly)

LAB NAME NYTEST ENVIRONMENTAL

DATE _____

ICP/Flame AA (Circle One) Model Number 5000Furnace AA Number 5100

Element	Wavelength (nm)	CRDL (ug/L)	IDL (ug/L)	Element	Wavelength (nm)	CRDL (ug/L)	IDL (ug/L)
1. Aluminum	309.3 B	200	175 A	13. Magnesium	202.6 B	5000	50 A
2. Antimony	217.6 B	60	50 F	14. Manganese	279.5 B	15	6 A
3. Arsenic	193.7 B	10	2 F	15. Mercury	253.7 B	0.2	0.13 A
4. Barium	553.6 B	200	100 A	16. Nickel	232.0 B	40	15 A
5. Beryllium	234.9 B	5	3 A	17. Potassium	766.5 B	5000	50 A
6. Cadmium	228.8 B	5	3 A	18. Selenium	196.0 B	5	2 F
7. Calcium	422.7 B	5000	50 A	19. Silver	328.1 B	10	5 A
8. Chromium	357.9 B	10	9 A	20. Sodium	330.0 B	5000	50 A
9. Cobalt	240.7 B	50	10 A	21. Thallium	276.8 B	10	2 F
10. Copper	324.7 B	25	10 A	22. Tin	286.3 B	40	40 F
11. Iron	348.3 B	100	10 A	23. Vanadium	318.4 B	50	25 A
12. Lead	283.3 B	5	2 F	24. Zinc	213.9 B	20	2 A

Footnotes: o Indicate the instrument for which the IDL applies with a "P" (for ICP), an "A" (for Flame AA), or an "F" (for Furnace AA) behind the IDL value.

o Indicate elements commonly run with background correction (AA) with a "B" behind the analytical wavelength.

o If more than one ICP/Flame or Furnace AA is used, submit separate Forms XI-XIII for each instrument.

COMMENTS: _____

Lab Manager _____

Town of Hampton

Element File: TIJ
Date: 2/01/88
Data Storage File: A902011733
Technique: HGA

Element: TI
Time: 17.45
ID/Weight File:
Calibration Type: Nonlinear

Sample ID: Blank Sequence No.: 00001 Sampler Position: 1
Blank Corrected PK Area (A-S): 0.130
Blank Corrected PK Area (A-S): 0.083
Mean PK Area (A-S): 0.106 SD: 0.0332 RSD(%): 31.2

Auto-zero performed.

Sample ID: Standard 1 Sequence No.: 00002 Sampler Position: 2
Blank Corrected PK Area (A-S): 0.237
Background absorbance signal is changing during BOC operation.
Blank Corrected PK Area (A-S): 0.146
Mean PK Area (A-S): 0.191 SD: 0.0648 RSD(%): 33.8

Standard number 1 applied. [50.]

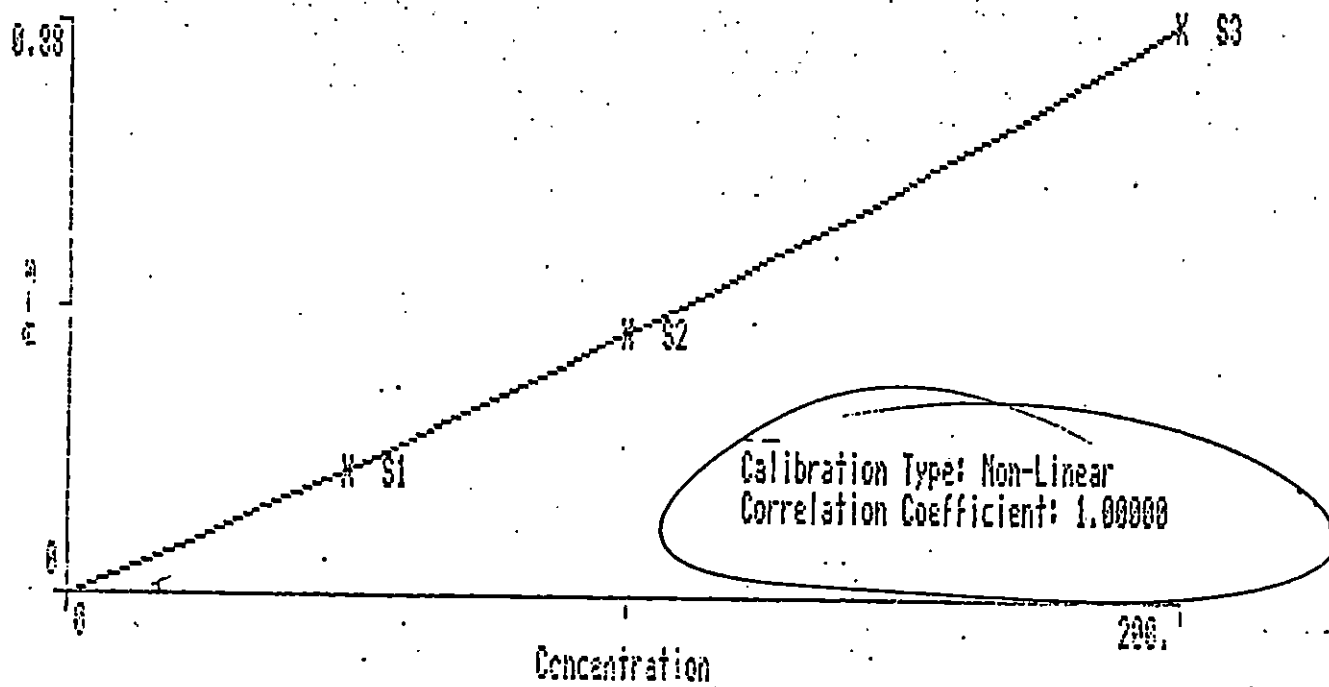
Sample ID: Standard 2 Sequence No.: 00003 Sampler Position: 3
The height of this peak exceeds the rollover value.
Concentration (ug/L): 105.
The height of this peak exceeds the rollover value.
Concentration (ug/L): 105.
Mean Conc (ug/L): 105. SD: 0.0 RSD(%): 0.0

Standard number 2 applied. [100.]

Sample ID: Standard 3 Sequence No.: 00004 Sampler Position: 4
The height of this peak exceeds the rollover value.
Concentration (ug/L): 209.
Background absorbance signal is changing during BOC operation.
Concentration (ug/L): 184.
Mean Conc (ug/L): 197. SD: 17.5 RSD(%): 8.9

Standard number 3 applied. [200.]

000012



000013

Sample ID: 5 Sequence No.: 00005 Sampler Position: 5

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 0.

Concentration (ug/L): 2.

Mean Conc (ug/L): 1. SD: 1.6 RSD(%): 130.8

Blank

Sample ID: 6 Sequence No.: 00006 Sampler Position: 6

Concentration (ug/L): -16.

Concentration (ug/L): -13.

Mean Conc (ug/L): -17. SD: 1.5 RSD(%): 8.7

P Blank

Sample ID: 7 Sequence No.: 00007 Sampler Position: 7

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 98.

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 89.

Mean Conc (ug/L): 93. SD: 6.0 RSD(%): 6.4

EPA ICAP 19 1:10

Sample ID: 8 Sequence No.: 00008 Sampler Position: 8

The height of this peak exceeds the rollover value.

Concentration (ug/L): 104.

Concentration (ug/L): 83.

Mean Conc (ug/L): 94. SD: 14.5 RSD(%): 15.5

EPA ICAP 19 1:10

Sample ID: 9 Sequence No.: 00009 Sampler Position: 9

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 29.

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 1.

Mean Conc (ug/L): 15. SD: 20.0 RSD(%): 132.7

Town of Hempstead 1, 2, 3 AL

Sample ID: 10 Sequence No.: 00010 Sampler Position: 10

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 77.

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 63.

Mean Conc (ug/L): 72. SD: 6.3 RSD(%): 8.7

05 spike 1, 2, 3 AL

Sample ID: 11 Sequence No.: 00011 Sampler Position: 11

000014

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 5.

Concentration (ug/L): -8.

Mean Conc (ug/L): -1. SD: 9.2 RSD(%): 728.5

4, 5 AL
Sample ID: 12 Sequence No.: 00012 Sampler Position: 12

Concentration (ug/L): 63.

Concentration (ug/L): 67.

Mean Conc (ug/L): 65. SD: 3.2 RSD(%): 5.2

0.05 Spike 4, 5 AL
Sample ID: 13 Sequence No.: 00013 Sampler Position: 13

Concentration (ug/L): -15.

Concentration (ug/L): -27.

Mean Conc (ug/L): -21. SD: 8.7 RSD(%): 41.2

6 AL
Sample ID: 14 Sequence No.: 00014 Sampler Position: 14

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 55.

Concentration (ug/L): 61.

Mean Conc (ug/L): 58. SD: 4.8 RSD(%): 8.3

0.05 Spike 6 AL
Sample ID: 15 Sequence No.: 00015 Sampler Position: 15

Concentration (ug/L): -32.

Concentration (ug/L): -10.

Mean Conc (ug/L): -37. SD: 9.6 RSD(%): 33.0

Dupl 6 AL
Sample ID: 16 Sequence No.: 00016 Sampler Position: 16

Concentration (ug/L): 61.

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): 57.

Mean Conc (ug/L): 59. SD: 2.2 RSD(%): 4.7

0.05 Spike 6 AL
Sample ID: 17 Sequence No.: 00017 Sampler Position: 17

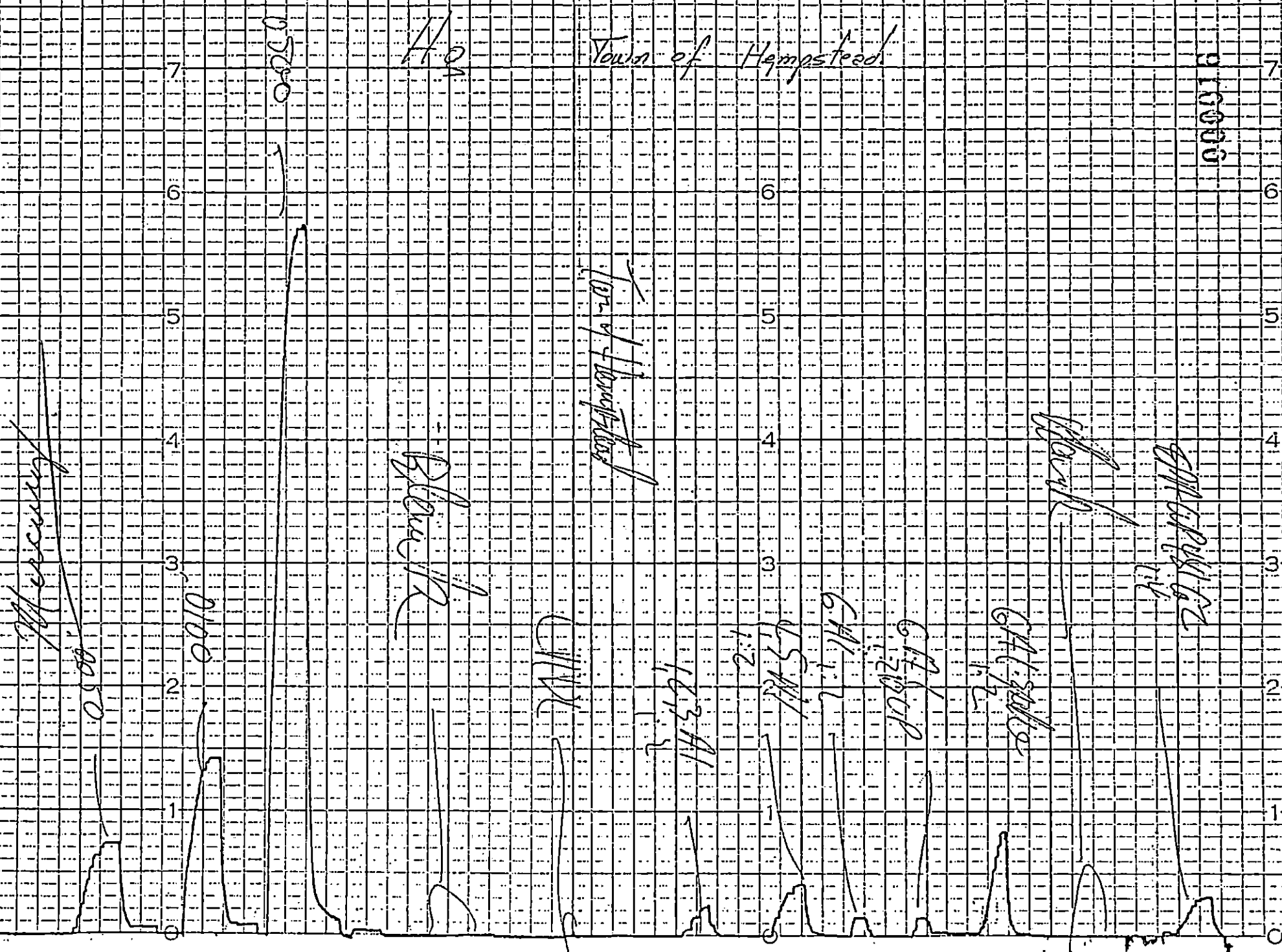
Concentration (ug/L): -32.

Background absorbance signal is changing during BOC operation.

Concentration (ug/L): -30.

Mean Conc (ug/L): -31. SD: 1.3 RSD(%): 4.2

000015



Town of Hempstead

Element File: asJ

Date: 2/01/85

Data Storage File: NYTL

Technique: HGA

Element: As

Time: 10.27

ID/Weight File:

Calibration Type: Nonlinear

Sample ID: Blank

Sequence No.: C0001

Sampler Position: 1

Background absorbance signal is changing during SOC operation.

Peak Area (A-s): 0.032

Peak Height (A): 0.020

Background PK Area (A-s): 1.815

Background PK Height (A): 0.491

Blank Corrected PK Area (A-s): 0.032

Peak Area (A-s): 0.015

Peak Height (A): 0.051

Background PK Area (A-s): 1.195

Background PK Height (A): 0.277

Blank Corrected PK Area (A-s): 0.015

Mean PK Area (A-s): 0.024

SD: 0.0125

RSD(%): 53.3

Auto-zero performed.

Sample ID: Standard 1

Sequence No.: 00002

Sampler Position: 2

Peak Area (A-s): 0.135

Peak Height (A): 0.271

Background PK Area (A-s): 1.614

Background PK Height (A): 0.400

Blank Corrected PK Area (A-s): 0.111

Peak Area (A-s): 0.152

Peak Height (A): 0.260

Background PK Area (A-s): 0.731

Background PK Height (A): 0.180

Blank Corrected PK Area (A-s): 0.128

Mean PK Area (A-s): 0.120

SD: 0.0120

RSD(%): 10.0

Standard number 1 applied. [50.1

Sample ID: Standard 2

Sequence No.: 00003

Sampler Position: 3

Peak Area (A-s): 0.398

Peak Height (A): 0.538

Background PK Area (A-s): 1.211

Background PK Height (A): 0.276

Blank Corrected PK Area (A-s): 0.275

Concentration (ug/L): 115.

Peak Area (A-s): 0.278

Peak Height (A): 0.507

Background PK Area (A-s): 1.237

Background PK Height (A): 0.291

Blank Corrected PK Area (A-s): 0.254

Concentration (ug/L): 106.

Mean Conc (ug/L): 111.

SD: 6.1

RSD(%): 5.5

Standard number 2 applied. [100.1

000017

Sample ID: Standard 3

Sequence No.: 00004

Sampler Position: 4

Peak Area (A-s): 0.545

Peak Height (A): 1.052

Background PK Area (A-s): 1.487
Blank Corrected PK Area (A-s): 0.521
Concentration (ug/L): 169.

Background PK Height (A): 0.326

Peak Area (A-s): 0.555
Background PK Area (A-s): 1.435
Blank Corrected PK Area (A-s): 0.532
Concentration (ug/L): 171.

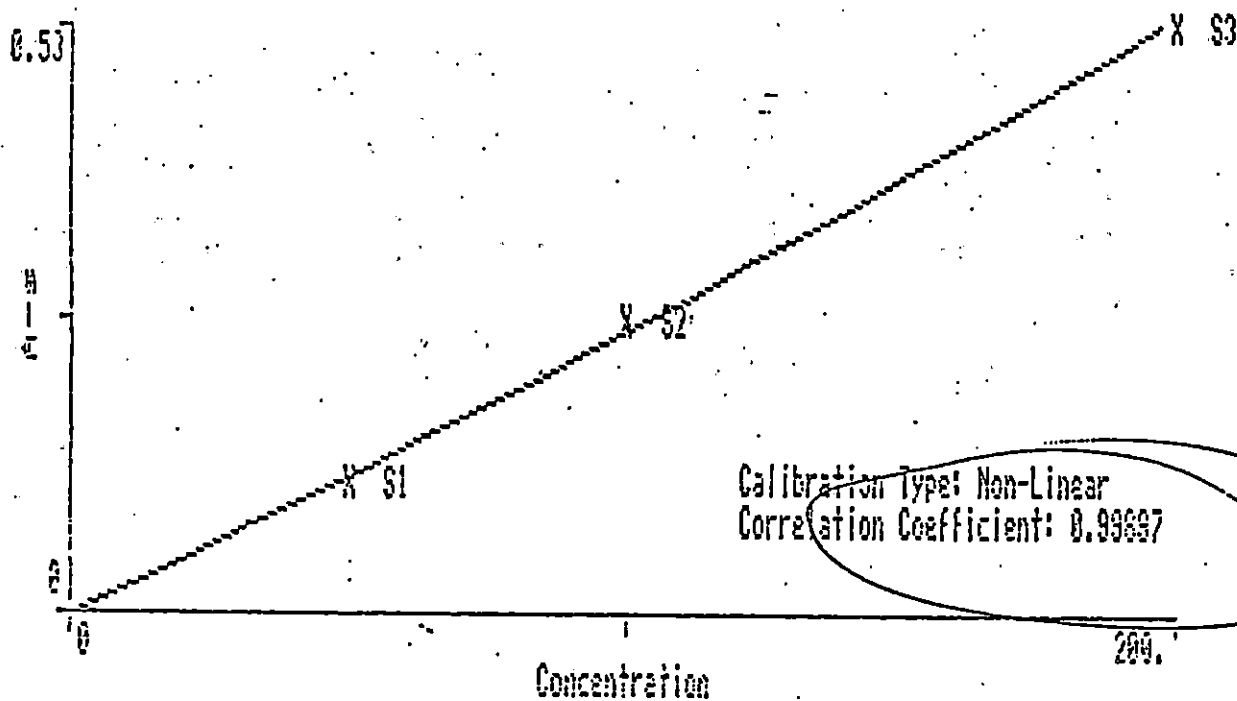
Peak Height (A): 0.972
Background PK Height (A): 0.333

Mean Conc (ug/L): 170.

SD: 1.7

RSD(%): 1.0

S-shaped calibration curve detected. Two-coefficient equation used.
Standard number 3 applied r 200.1



000018

Sample ID: 5 Sequence No.: 00005 Sampler Position: 5

Peak Area (A-S): 0.042 Peak Height (A): 0.081
Background PK Area (A-S): 1.529 Background PK Height (A): 0.366
Blank Corrected PK Area (A-S): 0.018
Concentration (ug/L): 8.

Peak Area (A-S): 0.058 Peak Height (A): 0.092
Background PK Area (A-S): 1.538 Background PK Height (A): 0.367
Blank Corrected PK Area (A-S): 0.034
Concentration (ug/L): 14.

Mean Conc (ug/L): 11. SD: 4.7 RSD(%): 42.7
.010 CRDL

Sample ID: 6 Sequence No.: 00006 Sampler Position: 6

Peak Area (A-S): -0.002 Peak Height (A): 0.043
Background PK Area (A-S): 1.370 Background PK Height (A): 0.355
Blank Corrected PK Area (A-S): -0.028
Concentration (ug/L): -11.

Background absorbance signal is changing during BOC operation.
Peak Area (A-S): -0.006 Peak Height (A): 0.045
Background PK Area (A-S): 1.335 Background PK Height (A): 0.343
Blank Corrected PK Area (A-S): -0.030
Concentration (ug/L): -12.

Mean Conc (ug/L): -11. SD: 1.2 RSD(%): 10.5
Blank

Sample ID: 7 Sequence No.: 00007 Sampler Position: 7

Background absorbance signal is changing during BOC operation.
Peak Area (A-S): 0.283 Peak Height (A): 0.600
Background PK Area (A-S): 1.362 Background PK Height (A): 0.324
Blank Corrected PK Area (A-S): 0.260
Concentration (ug/L): 102.

Peak Area (A-S): 0.285 Peak Height (A): 0.592
Background PK Area (A-S): 1.153 Background PK Height (A): 0.273
Blank Corrected PK Area (A-S): 0.261
Concentration (ug/L): 103.

Mean Conc (ug/L): 103. SD: 0.4 RSD(%): 0.4
EPA IC AP 19

Sample ID: 8 Sequence No.: 00008 Sampler Position: 8

Peak Area (A-S): 0.277 Peak Height (A): 0.565
Background PK Area (A-S): 1.040 Background PK Height (A): 0.273
Blank Corrected PK Area (A-S): 0.250
Concentration (ug/L): 100.

Peak Area (A-S): 0.311 Peak Height (A): 0.643
Background PK Area (A-S): 1.022 Background PK Height (A): 0.281
Blank Corrected PK Area (A-S): 0.288

000019

Concentration (ug/L): 113.

Mean Conc (ug/L): 106.

SD: 9.1

RSD(%): 9.6

LC 5 (1 std)

Sample ID: 9

Sequence No.: 00009

Sampler Position: 9

Peak Area (A-s): 0.042

Peak Height (A): 0.084

Background PK Area (A-s): 1.040

Background PK Height (A): 0.403

Blank Corrected PK Area (A-s): 0.018

Concentration (ug/L): 7.

Peak Area (A-s): 0.027

Peak Height (A): 0.088

Background PK Area (A-s): 0.336

Background PK Height (A): 0.345

Blank Corrected PK Area (A-s): 0.004

Concentration (ug/L): 2.

Mean Conc (ug/L): 5.

SD: 4.2

RSD(%): 92.7

Town of Hempstead 12, 3 AL

Sample ID: 10

Sequence No.: 00010

Sampler Position: 10

Peak Area (A-s): 0.159

Peak Height (A): 0.370

Background PK Area (A-s): 0.919

Background PK Height (A): 0.347

Blank Corrected PK Area (A-s): 0.135

Concentration (ug/L): 53.

Peak Area (A-s): 0.191

Peak Height (A): 0.403

Background PK Area (A-s): 1.040

Background PK Height (A): 0.403

Blank Corrected PK Area (A-s): 0.163

Concentration (ug/L): 67.

Mean Conc (ug/L): 61.

SD: 9.1

RSD(%): 14.9

.05 Spike 1, 2, 3

Sample ID: 11

Sequence No.: 00011

Sampler Position: 11

Peak Area (A-s): 0.155

Peak Height (A): 0.393

Background PK Area (A-s): 1.233

Background PK Height (A): 0.743

Blank Corrected PK Area (A-s): 0.131

Concentration (ug/L): 53

Peak Area (A-s): 0.143

Peak Height (A): 0.490

Background PK Area (A-s): 1.244

Background PK Height (A): 0.772

Blank Corrected PK Area (A-s): 0.125

Concentration (ug/L): 50.

Mean Conc (ug/L): 52.

SD: 1.3

RSD(%): 3.3

4.5 AL

Sample ID: 12

Sequence No.: 00012

Sampler Position: 12

Peak Area (A-s): 0.274

Peak Height (A): 0.531

Background PK Area (A-s): 1.428

Background PK Height (A): 0.756

Blank Corrected PK Area (A-s): 0.250

Concentration (ug/L): 99.

000020

Peak Area (A-s): 0.237

Peak Height (A): 0.538

Background PK Area (A-s): 1.521

Background PK Height (A): 0.754

Blank Corrected PK Area (A-S): 0.233
Concentration (ug/L): 104.

Mean Conc (ug/L): 101. SD: 3.4 RSD(%): 3.4

.....0.5 Spike 4.5 AL.....

Sample ID: 13 Sequence No.: 00013 Sampler Position: 13

Peak Area (A-S): 0.019 Peak Height (A): 0.061
Background PK Area (A-S): 2.035 Background PK Height (A): 0.573
Blank Corrected PK Area (A-S): -0.004
Concentration (ug/L): -2.

Peak Area (A-S): 0.024 Peak Height (A): 0.058
Background PK Area (A-S): 2.501 Background PK Height (A): 0.631
Blank Corrected PK Area (A-S): 0.010
Concentration (ug/L): 4.

Mean Conc (ug/L): 1. SD: 4.3 RSD(%): 352.5

.....6 AL.....

Sample ID: 14 Sequence No.: 00014 Sampler Position: 14

Peak Area (A-S): 0.015 Peak Height (A): 0.075
Background PK Area (A-S): 2.240 Background PK Height (A): 0.571
Blank Corrected PK Area (A-S): -0.009
Concentration (ug/L): -4.

Peak Area (A-S): 0.022 Peak Height (A): 0.067
Background PK Area (A-S): 2.275 Background PK Height (A): 0.577
Blank Corrected PK Area (A-S): -0.002
Concentration (ug/L): -1.

Mean Conc (ug/L): -2. SD: 2.1 RSD(%): 91.9

.....Dupl. 6 AL.....

Sample ID: 15 Sequence No.: 00015 Sampler Position: 15

Peak Area (A-S): 0.154 Peak Height (A): 0.279
Background PK Area (A-S): 2.345 Background PK Height (A): 0.533
Blank Corrected PK Area (A-S): 0.131
Concentration (ug/L): 53.

Peak Area (A-S): 0.124 Peak Height (A): 0.295
Background PK Area (A-S): 3.360 Background PK Height (A): 0.535
Blank Corrected PK Area (A-S): 0.100
Concentration (ug/L): 41.

Mean Conc (ug/L): 47. SD: 8.5 RSD(%): 18.1

.....0.5 6 AL spike.....

Sample ID: 16 Sequence No.: 00016 Sampler Position: 16

Peak Area (A-S): -0.001 Peak Height (A): 0.041
Background PK Area (A-S): 0.756 Background PK Height (A): 0.244
Blank Corrected PK Area (A-S): -0.025
Concentration (ug/L): -10.

Peak Area (A-S): 0.023 Peak Height (A): 0.050

000021

Background PK Area (A-S): 0.582
Blank Corrected PK Area (A-S): 0.004
Concentration (ug/L): 2

Background PK Height (A): 0.132

Mean Conc (ug/L): -4.

SD: 8.3

RSD(%): 203.2

Blank

Sample ID: 17

Sequence No.: 00017

Sampler Position: 17

Peak Area (A-S): 0.307
Background PK Area (A-S): 0.393
Blank Corrected PK Area (A-S): 0.283
Concentration (ug/L): 111.

Peak Height (A): 0.572
Background PK Height (A): 0.129

Peak Area (A-S): 0.303
Background PK Area (A-S): 0.905
Blank Corrected PK Area (A-S): 0.280
Concentration (ug/L): 110.

Peak Height (A): 0.622
Background PK Height (A): 0.233

Mean Conc (ug/L): 110.

SD: 0.9

RSD(%): 0.8

EPA ICAP 19

Sample ID: 18

Sequence No.: 00018

Sampler Position: 18

Peak Area (A-S): 0.013
Background PK Area (A-S): 0.527
Blank Corrected PK Area (A-S): -0.011
Concentration (ug/L): -5.

Peak Height (A): 0.041
Background PK Height (A): 0.180

Peak Area (A-S): 0.008
Background PK Area (A-S): 1.070
Blank Corrected PK Area (A-S): -0.016
Concentration (ug/L): -7.

Peak Height (A): 0.039
Background PK Height (A): 0.282

Mean Conc (ug/L): -6.

SD: 1.5

RSD(%): 23.2

Sample ID: 19

Sequence No.: 00019

Sampler Position: 19

Peak Area (A-S): 0.005
Background PK Area (A-S): 0.899
Blank Corrected PK Area (A-S): -0.018
Concentration (ug/L): -8.

Peak Height (A): 0.039
Background PK Height (A): 0.263

Peak Area (A-S): 0.013
Background PK Area (A-S): 0.555
Blank Corrected PK Area (A-S): -0.004
Concentration (ug/L): -2.

Peak Height (A): 0.052
Background PK Height (A): 0.164

Mean Conc (ug/L): -5.

SD: 4.2

RSD(%): 86.6

000022

Sample ID: 20

Sequence No.: 00020

Sampler Position: 20

Peak Area (A-S): 0.002
Background PK Area (A-S): 0.923
Blank Corrected PK Area (A-S): -0.022

Peak Height (A): 0.040
Background PK Height (A): 0.261

NYSDEC & Town of Hempstead

Sb

2/2/88

Element File: Sb
Date: 2/02/88
Data Storage File: A802021721
Technique: HGA

Element: Sb
Time: 18:01
ID/Weight File:
Calibration Type: Nonlinear

Sample ID: Blank Sequence No.: 00001 Sampler Position: 1
Peak Area (A-S): 0.056 Peak Height (A): 0.051
Background PK Area (A-S): 0.123 Background PK Height (A): 0.320
Blank Corrected PK Area (A-S): 0.056
Peak Area (A-S): 0.067 Peak Height (A): 0.060
Background PK Area (A-S): 0.109 Background PK Height (A): 0.104
Blank Corrected PK Area (A-S): 0.067
Mean PK Area (A-S): 0.062 SD: 0.0060 RSD(%): 12.9

Auto-zero performed.

Sample ID: Standard 1 Sequence No.: 00002 Sampler Position: 2
Peak Area (A-S): 0.355 Peak Height (A): 0.228
Background PK Area (A-S): 0.301 Background PK Height (A): 0.118
Blank Corrected PK Area (A-S): 0.293
Peak Area (A-S): 0.338 Peak Height (A): 0.220
Background PK Area (A-S): 0.348 Background PK Height (A): 0.113
Blank Corrected PK Area (A-S): 0.276
Mean PK Area (A-S): 0.285 SD: 0.0118 RSD(%): 4.1
Standard number 1 applied. [50.1

Sample ID: Standard 2 Sequence No.: 00003 Sampler Position: 2
Peak Area (A-S): 0.634 Peak Height (A): 0.372
Background PK Area (A-S): 0.247 Background PK Height (A): 0.103
Blank Corrected PK Area (A-S): 0.572
Concentration (ug/L): 100.
Peak Area (A-S): 0.646 Peak Height (A): 0.382
Background PK Area (A-S): 0.166 Background PK Height (A): 0.107
Blank Corrected PK Area (A-S): 0.594
Concentration (ug/L): 103.
Mean Conc (ug/L): 102. SD: 1.5 RSD(%): 1.4
Standard number 2 applied. [100.1

000023

Sample ID: Standard 3 Sequence No.: 00004 Sampler Position: 2
Peak Area (A-S): 1.163 Peak Height (A): 0.594
Background PK Area (A-S): 0.109 Background PK Height (A): 0.092

Blank Corrected PK Area (A-S): 1.101
Concentration (ug/L): 186.

Background absorbance signal is changing during BOC operation.

Peak Area (A-S): 1.134

Peak Height (A): 0.775

Background PK Area (A-S): 0.257

Background PK Height (A): 0.097

Blank Corrected PK Area (A-S): 1.072

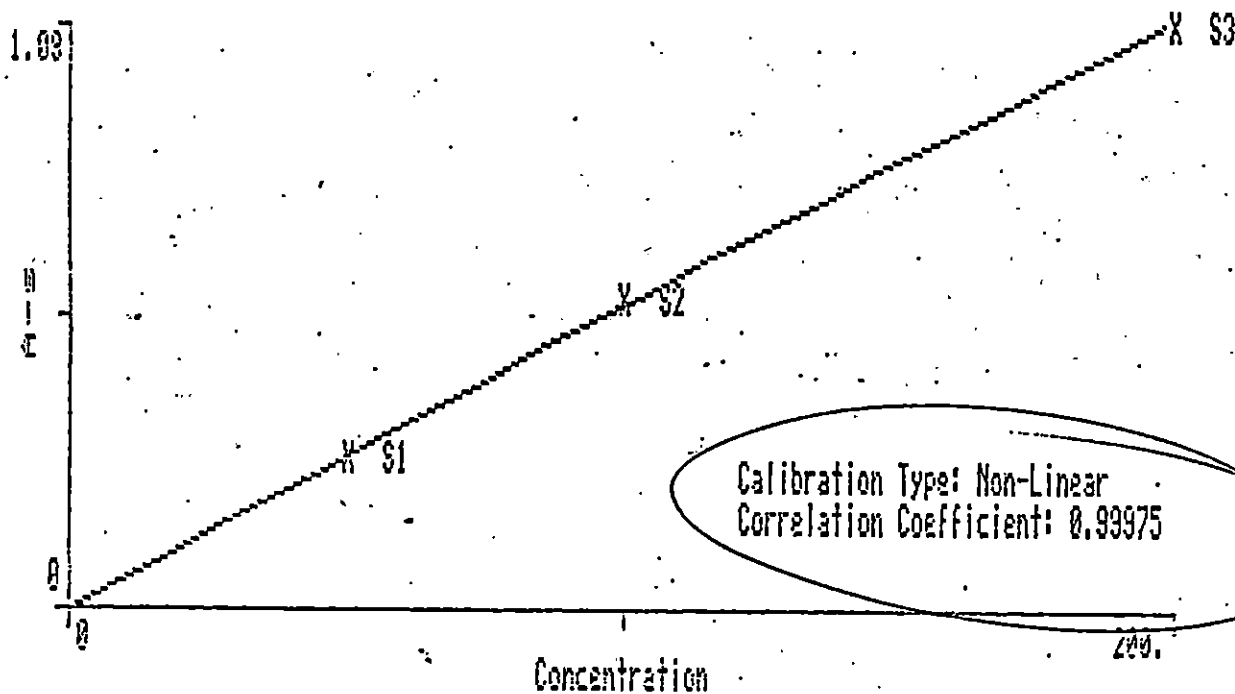
Concentration (ug/L): 181.

Mean Conc (ug/L): 183.

SD: 3.2

RSD(%): 1.7

S-shaped calibration curve detected. Two-coefficient equation used.
Standard number 3 applied. [200.]



000024

Sample ID: 3 Sequence No.: 00005 Sampler Position: 3

Peak Area (A-s): 0.087 Peak Height (A): 0.069
Background PK Area (A-s): 0.150 Background PK Height (A): 0.090
Blank Corrected PK Area (A-s): 0.025
Concentration (ug/L): 4. Corrected Conc (ug/L): 9.

Peak Area (A-s): 0.099 Peak Height (A): 0.072
Background PK Area (A-s): 0.169 Background PK Height (A): 0.079
Blank Corrected PK Area (A-s): 0.037
Concentration (ug/L): 6. Corrected Conc (ug/L): 13.

Mean Conc (ug/L): 5. SD: 1.5 RSD(%): 27.3
Corrected Conc (ug/L): 11.

Blank

Sample ID: 3 Sequence No.: 00006 Sampler Position: 3

Peak Area (A-s): 0.215 Peak Height (A): 0.157
Background PK Area (A-s): 0.132 Background PK Height (A): 0.079
Blank Corrected PK Area (A-s): 0.153
Concentration (ug/L): 26. Corrected Conc (ug/L): 53.

Peak Area (A-s): 0.232 Peak Height (A): 0.138
Background PK Area (A-s): 0.110 Background PK Height (A): 0.090
Blank Corrected PK Area (A-s): 0.170
Concentration (ug/L): 29. Corrected Conc (ug/L): 58.

Mean Conc (ug/L): 28. SD: 2.0 RSD(%): 7.3
Corrected Conc (ug/L): 56.

Recovery is 89.6 %

0.05 Spike

Sample ID: 4 Sequence No.: 00007 Sampler Position: 4

Peak Area (A-s): 0.109 Peak Height (A): 0.070
Background PK Area (A-s): 0.117 Background PK Height (A): 0.089
Blank Corrected PK Area (A-s): 0.039
Concentration (ug/L): 7. Corrected Conc (ug/L): 13.

Peak Area (A-s): 0.093 Peak Height (A): 0.070
Background PK Area (A-s): 0.172 Background PK Height (A): 0.079
Blank Corrected PK Area (A-s): 0.035
Concentration (ug/L): 6. Corrected Conc (ug/L): 12.

Mean Conc (ug/L): 6. SD: 0.5 RSD(%): 7.9
Corrected Conc (ug/L): 13.

Sample ID: 4 Sequence No.: 00008 Sampler Position: 4

Peak Area (A-s): 0.224 Peak Height (A): 0.156
Background PK Area (A-s): 0.104 Background PK Height (A): 0.098
Blank Corrected PK Area (A-s): 0.133
Concentration (ug/L): 28. Corrected Conc (ug/L): 56.

000025

Peak Area (A-s): 0.244
Background PK Area (A-s): 0.104
Blank Corrected PK Area (A-s): 0.182
Concentration (ug/L): 31.

Peak Height (A): 0.151
Background PK Height (A): 0.080
Corrected Conc (ug/L): 63.

Mean Conc (ug/L): 30.
Corrected Conc (ug/L): 59.

SD: 2.3 RSD(%): 7.9

060 CRDL

Sample ID: 5

Sequence No.: 00009

Sampler Position: 5

Peak Area (A-s): 0.341
Background PK Area (A-s): 0.122
Blank Corrected PK Area (A-s): 0.279
Concentration (ug/L): 49.

Peak Height (A): 0.208
Background PK Height (A): 0.077
Corrected Conc (ug/L): 97.

Peak Area (A-s): 0.237
Background PK Area (A-s): 0.363
Blank Corrected PK Area (A-s): 0.175
Concentration (ug/L): 30.

Peak Height (A): 0.183
Background PK Height (A): 0.119
Corrected Conc (ug/L): 60.

Mean Conc (ug/L): 39.
Corrected Conc (ug/L): 79.

SD: 12.9 RSD(%): 33.0

Sample ID: 5

Sequence No.: 00010

Sampler Position: 5

Peak Area (A-s): 0.430
Background PK Area (A-s): 0.150
Blank Corrected PK Area (A-s): 0.369
Concentration (ug/L): 64.

Peak Height (A): 0.261
Background PK Height (A): 0.072
Corrected Conc (ug/L): 138.

Peak Area (A-s): 0.450
Background PK Area (A-s): 0.092
Blank Corrected PK Area (A-s): 0.338
Concentration (ug/L): 68.

Peak Height (A): 0.266
Background PK Height (A): 0.073
Corrected Conc (ug/L): 135.

Mean Conc (ug/L): 62.
Corrected Conc (ug/L): 132.

SD: 2.5 RSD(%): 3.8

Recovery is 107.3 %

Sample ID: 5

Sequence No.: 00011

Sampler Position: 5

Peak Area (A-s): 0.329
Background PK Area (A-s): 0.104
Blank Corrected PK Area (A-s): 0.267
Concentration (ug/L): 46.

Peak Height (A): 0.217
Background PK Height (A): 0.074
Corrected Conc (ug/L): 92.

Peak Area (A-s): 0.346
Background PK Area (A-s): 0.128
Blank Corrected PK Area (A-s): 0.285
Concentration (ug/L): 49.

Peak Height (A): 0.528
Background PK Height (A): 0.493
Corrected Conc (ug/L): 99.

Mean Conc (ug/L): 48.
Corrected Conc (ug/L): 95.

SD: 2.2 RSD(%): 4.6

EPA WP 1183 C2

000026

Sample ID: 5 Sequence No.: 00012 Sampler Position: 5
Peak Area (A-s): 0.461 Peak Height (A): 0.261
Background PK Area (A-s): 0.065 Background PK Height (A): 0.073
Blank Corrected PK Area (A-s): 0.399
Concentration (ug/L): 70. Corrected Conc (ug/L): 139.
Peak Area (A-s): 0.451 Peak Height (A): 0.263
Background PK Area (A-s): 0.108 Background PK Height (A): 0.081
Blank Corrected PK Area (A-s): 0.389
Concentration (ug/L): 68. Corrected Conc (ug/L): 136.
Mean Conc (ug/L): 69. SD: 1.3 RSD(%): 1.9
Corrected Conc (ug/L): 138.

Recovery is 84.1 %

0.05 Spike EPA Wp1183 C2

Sample ID: 6 Sequence No.: 00013 Sampler Position: 6
Peak Area (A-s): 0.329 Peak Height (A): 0.212
Background PK Area (A-s): 0.118 Background PK Height (A): 0.075
Blank Corrected PK Area (A-s): 0.257
Concentration (ug/L): 46. Corrected Conc (ug/L): 93.
Peak Area (A-s): 0.339 Peak Height (A): 0.230
Background PK Area (A-s): 0.113 Background PK Height (A): 0.075
Blank Corrected PK Area (A-s): 0.277
Concentration (ug/L): 48. Corrected Conc (ug/L): 96.
Mean Conc (ug/L): 47. SD: 1.3 RSD(%): 2.7
Corrected Conc (ug/L): 94.

100 LCS

Sample ID: 6 Sequence No.: 00014 Sampler Position: 6
Peak Area (A-s): 0.467 Peak Height (A): 0.271
Background PK Area (A-s): 0.100 Background PK Height (A): 0.078
Blank Corrected PK Area (A-s): 0.403
Concentration (ug/L): 71. Corrected Conc (ug/L): 142.
Peak Area (A-s): 0.433 Peak Height (A): 0.259
Background PK Area (A-s): 0.119 Background PK Height (A): 0.070
Blank Corrected PK Area (A-s): 0.371
Concentration (ug/L): 65. Corrected Conc (ug/L): 129.
Mean Conc (ug/L): 68. SD: 4.3 RSD(%): 6.4
Corrected Conc (ug/L): 136.

Recovery is 82.4 %

0.05 Spike LCS

Sample ID: 7 Sequence No.: 00015 Sampler Position: 7
Peak Area (A-s): 0.102 Peak Height (A): 0.071
Background PK Area (A-s): 0.204 Background PK Height (A): 0.097
Blank Corrected PK Area (A-s): 0.040

000027

Concentration (ug/L): 7. Corrected Conc (ug/L): 14.
The height of this peak exceeds the rollover value.
Peak Area (A-s): 0.102 Peak Height (A): 1.824
Background PK Area (A-s): 0.255 Background PK Height (A): 1.601
Blank Corrected PK Area (A-s): 0.040
Concentration (ug/L): 7. Corrected Conc (ug/L): 14.
Mean Conc (ug/L): 7. SD: 0.0 RSD(%): 0.2
Corrected Conc (ug/L): 14.

NYS DEC E 187-036-11

Sample ID: 7 Sequence No.: 00016 Sampler Position: 7

Background absorbance signal is changing during BOC operation.
Peak Area (A-s): 0.190 Peak Height (A): 0.129
Background PK Area (A-s): 0.162 Background PK Height (A): 0.103
Blank Corrected PK Area (A-s): 0.123
Concentration (ug/L): 23. Corrected Conc (ug/L): 44.
Peak Area (A-s): 0.174 Peak Height (A): 0.118
Background PK Area (A-s): 0.116 --Background PK Height (A): 0.076
Blank Corrected PK Area (A-s): 0.113
Concentration (ug/L): 19. Corrected Conc (ug/L): 39.
Mean Conc (ug/L): 21. SD: 1.9 RSD(%): 9.2
Corrected Conc (ug/L): 41.

Recovery is 55.1 %

05 Spike E 187-036-11

Sample ID: 8 Sequence No.: 00017 Sampler Position: 8

Peak Area (A-s): 0.071 Peak Height (A): 0.071
Background PK Area (A-s): 0.191 Background PK Height (A): 0.091
Blank Corrected PK Area (A-s): 0.009
Concentration (ug/L): 2. Corrected Conc (ug/L): 3.
Peak Area (A-s): 0.070 Peak Height (A): 0.037
Background PK Area (A-s): 0.197 Background PK Height (A): 0.097
Blank Corrected PK Area (A-s): 0.009
Concentration (ug/L): 1. Corrected Conc (ug/L): 3.
Mean Conc (ug/L): 2. SD: 0.1 RSD(%): 5.8
Corrected Conc (ug/L): 3.

E 187-209-11-2

Sample ID: 8 Sequence No.: 00018 Sampler Position: 8

Peak Area (A-s): 0.170 Peak Height (A): 0.117
Background PK Area (A-s): 0.170 Background PK Height (A): 0.034
Blank Corrected PK Area (A-s): 0.108
Concentration (ug/L): 19. Corrected Conc (ug/L): 37.
Peak Area (A-s): 0.230 Peak Height (A): 0.143
Background PK Area (A-s): 0.190 Background PK Height (A): 0.090
Blank Corrected PK Area (A-s): 0.159
Concentration (ug/L): 29. Corrected Conc (ug/L): 58.

000028

Mean Conc (ug/L): 24. SD: 7.4 RSD(%): 31.1
Corrected Conc (ug/L): 48.

Recovery is 88.9 %

Sample ID: 9

Sequence No.: 00019

Sampler Position: 9

Peak Area (A-s): 0.073
Background PK Area (A-s): 0.184
Blank Corrected PK Area (A-s): 0.011
Concentration (ug/L): 2.

Peak Height (A): 0.069
Background PK Height (A): 0.112

Corrected Conc (ug/L): 4.

Peak Area (A-s): 0.078
Background PK Area (A-s): 0.182
Blank Corrected PK Area (A-s): 0.016
Concentration (ug/L): 3.

Peak Height (A): 0.068
Background PK Height (A): 0.114

Corrected Conc (ug/L): 6.

Mean Conc (ug/L): 2. SD: 0.6 RSD(%): 26.2
Corrected Conc (ug/L): 5.

Sample ID: 9

Sequence No.: 00020

Sampler Position: 9

Peak Area (A-s): 0.216
Background PK Area (A-s): 0.210
Blank Corrected PK Area (A-s): 0.154
Concentration (ug/L): 27.

Peak Height (A): 0.154
Background PK Height (A): 0.100

Corrected Conc (ug/L): 53.

Peak Area (A-s): 0.272
Background PK Area (A-s): 0.174
Blank Corrected PK Area (A-s): 0.211
Concentration (ug/L): 36.

Peak Height (A): 0.189
Background PK Height (A): 0.090

Corrected Conc (ug/L): 73.

Mean Conc (ug/L): 31. SD: 6.9 RSD(%): 22.0
Corrected Conc (ug/L): 63.

Recovery is 116.2 %

Sample ID: 10

Sequence No.: 00021

Sampler Position: 10

Background absorbance signal is changing during BOC operation.

Peak Area (A-s): 0.064
Background PK Area (A-s): 0.111
Blank Corrected PK Area (A-s): 0.003
Concentration (ug/L): 0.

Peak Height (A): 0.060
Background PK Height (A): 0.082

Corrected Conc (ug/L): 1.

Peak Area (A-s): 0.074
Background PK Area (A-s): 0.126
Blank Corrected PK Area (A-s): 0.012
Concentration (ug/L): 2.

Peak Height (A): 0.060
Background PK Height (A): 0.098

Corrected Conc (ug/L): 4.

Mean Conc (ug/L): 1. SD: 1.1 RSD(%): 90.6
Corrected Conc (ug/L): 2.

Sample ID: 10

Sequence No.: 00022

Sampler Position: 10

000029

Peak Area (A-s): 0.192
Background PK Area (A-s): 0.139
Blank Corrected PK Area (A-s): 0.130
Concentration (ug/L): 22.

Peak Height (A): 0.133
Background PK Height (A): 0.099

Corrected Conc (ug/L): 45.

Peak Area (A-s): 0.153
Background PK Area (A-s): 0.141
Blank Corrected PK Area (A-s): 0.091
Concentration (ug/L): 16.

Peak Height (A): 0.109
Background PK Height (A): 0.086

Corrected Conc (ug/L): 31.

Mean Conc (ug/L): 19.
Corrected Conc (ug/L): 38.

SD: 4.7 RSD(%): 24.9

Recovery is 71.0 %

.05 Spike E 187-209-41

Sample ID: 11 Sequence No.: 00023 Sampler Position: 11

Peak Area (A-s): 0.060
Background PK Area (A-s): 0.142
Blank Corrected PK Area (A-s): -0.001
Concentration (ug/L): -0.

Peak Height (A): 0.060
Background PK Height (A): 0.090

Peak Area (A-s): 0.074
Background PK Area (A-s): 0.141
Blank Corrected PK Area (A-s): 0.012
Concentration (ug/L): 2.

Peak Height (A): 0.066
Background PK Height (A): 0.084
Corrected Conc (ug/L): 4.

Mean Conc (ug/L): 1.
Corrected Conc (ug/L): 2.

SD: 1.7 RSD(%): 176.8

E 187-209-31

Sample ID: 11 Sequence No.: 00024 Sampler Position: 11

Peak Area (A-s): 0.197
Background PK Area (A-s): 0.185
Blank Corrected PK Area (A-s): 0.135
Concentration (ug/L): 23.

Peak Height (A): 0.146
Background PK Height (A): 0.095
Corrected Conc (ug/L): 46.

Peak Area (A-s): 0.178
Background PK Area (A-s): 0.176
Blank Corrected PK Area (A-s): 0.116
Concentration (ug/L): 20.

Peak Height (A): 0.130
Background PK Height (A): 0.081
Corrected Conc (ug/L): 40.

Mean Conc (ug/L): 22.
Corrected Conc (ug/L): 43.

SD: 2.3 RSD(%): 10.8

Recovery is 82.3 %

.05 Spike E 187-209-31

Sample ID: 12 Sequence No.: 00025 Sampler Position: 12

Peak Area (A-s): 0.056
Background PK Area (A-s): 0.161
Blank Corrected PK Area (A-s): -0.006
Concentration (ug/L): -1.

Peak Height (A): 0.050
Background PK Height (A): 0.085
Corrected Conc (ug/L): -2.

Peak Area (A-s): 0.055
Background PK Area (A-s): 0.259

Peak Height (A): 0.057
Background PK Height (A): 0.284

000030

Blank Corrected PK Area (A-s): -0.007
Concentration (ug/L): -1. Corrected Conc (ug/L): -2.

Mean Conc (ug/L): -1. SD: 0.1 RSD(%): 14.1
Corrected Conc (ug/L): -2.

E 187-209-21

Sample ID: 12 Sequence No.: 00026 Sampler Position: 12

Peak Area (A-s): 0.183 Peak Height (A): 0.120
Background PK Area (A-s): 0.406 Background PK Height (A): 0.205
Blank Corrected PK Area (A-s): 0.121
Concentration (ug/L): 21. Corrected Conc (ug/L): 42.

Peak Area (A-s): 0.198 Peak Height (A): 0.134
Background PK Area (A-s): 0.182 Background PK Height (A): 0.100
Blank Corrected PK Area (A-s): 0.137
Concentration (ug/L): 23. Corrected Conc (ug/L): 47.

Mean Conc (ug/L): 22. SD: 1.9 RSD(%): 8.5
Corrected Conc (ug/L): 44. --

Recovery is 92.6 %

0.05 Spike E 187-209-21

Sample ID: 13 Sequence No.: 00027 Sampler Position: 13

Peak Area (A-s): 0.050 Peak Height (A): 0.053
Background PK Area (A-s): 0.151 Background PK Height (A): 0.031
Blank Corrected PK Area (A-s): -0.002
Concentration (ug/L): -0. Corrected Conc (ug/L): -1.

Peak Area (A-s): 0.066 Peak Height (A): 0.053
Background PK Area (A-s): 0.156 Background PK Height (A): 0.079
Blank Corrected PK Area (A-s): 0.004
Concentration (ug/L): 1.

Mean Conc (ug/L): 0. SD: 0.7 RSD(%): 440.6

Dupl E 187-209-21

Sample ID: 13 Sequence No.: 00028 Sampler Position: 13

Peak Area (A-s): 0.202 Peak Height (A): 0.147
Background PK Area (A-s): 0.192 Background PK Height (A): 0.093
Blank Corrected PK Area (A-s): 0.140
Concentration (ug/L): 24. Corrected Conc (ug/L): 43.

Peak Area (A-s): 0.195 Peak Height (A): 0.139
Background PK Area (A-s): 0.147 Background PK Height (A): 0.085
Blank Corrected PK Area (A-s): 0.123
Concentration (ug/L): 21. Corrected Conc (ug/L): 42.

Mean Conc (ug/L): 23. SD: 2.2 RSD(%): 9.6
Corrected Conc (ug/L): 45.

Recovery is 89.7 %

0.05 Spike Dupl E 187-209-21

Sample ID: 14 Sequence No.: 00029 Sampler Position: 14

000031

Peak Area (A-s): 0.370
Background PK Area (A-s): 0.135
Blank Corrected PK Area (A-s): 0.309
Concentration (ug/L): 54.

Peak Height (A): 0.223
Background PK Height (A): 0.072

Corrected Conc (ug/L): 107.

Peak Area (A-s): 0.355
Background PK Area (A-s): 0.145
Blank Corrected PK Area (A-s): 0.293
Concentration (ug/L): 51.

Peak Height (A): 0.219
Background PK Height (A): 0.076

Corrected Conc (ug/L): 102.

Mean Conc (ug/L): 52.
Corrected Conc (ug/L): 104.

SD: 2.0 RSD(%): 3.8

-100 Spike E 187-209-21

Sample ID: 14 Sequence No.: 00030 Sampler Position: 14

Peak Area (A-s): 0.482
Background PK Area (A-s): 0.153
Blank Corrected PK Area (A-s): 0.421
Concentration (ug/L): 74.

Peak Height (A): 0.297
Background PK Height (A): 0.081

Corrected Conc (ug/L): 147.

Peak Area (A-s): 0.517
Background PK Area (A-s): 0.153
Blank Corrected PK Area (A-s): 0.456
Concentration (ug/L): 80.

Peak Height (A): 0.328
Background PK Height (A): 0.085

Corrected Conc (ug/L): 160.

Mean Conc (ug/L): 77.
Corrected Conc (ug/L): 153.

SD: 4.4 RSD(%): 5.8

Recovery is 93.0 %

-150 Spike E 187-209-21

Sample ID: 15 Sequence No.: 00031 Sampler Position: 15

Peak Area (A-s): 0.035
Background PK Area (A-s): 0.106
Blank Corrected PK Area (A-s): -0.003
Concentration (ug/L): -1.

Peak Height (A): 0.057
Background PK Height (A): 0.099

Corrected Conc (ug/L): -2.

Peak Area (A-s): 0.058
Background PK Area (A-s): 0.074
Blank Corrected PK Area (A-s): -0.004
Concentration (ug/L): -1.

Peak Height (A): 0.062
Background PK Height (A): 0.088

Mean Conc (ug/L): -1.
Corrected Conc (ug/L): -2.

SD: 0.3 RSD(%): 37.4

Blank

Sample ID: 15 Sequence No.: 00032 Sampler Position: 15

Peak Area (A-s): 0.197
Background PK Area (A-s): 0.089
Blank Corrected PK Area (A-s): 0.135
Concentration (ug/L): 23.

Peak Height (A): 0.130
Background PK Height (A): 0.094

Corrected Conc (ug/L): 46.

Peak Area (A-s): 0.200
Background PK Area (A-s): 0.068
Blank Corrected PK Area (A-s): 0.138

Peak Height (A): 0.126
Background PK Height (A): 0.077

000032

Concentration (ug/L): 24. Corrected Conc (ug/L): 47.

Mean Conc (ug/L): 23. SD: 0.3 RSD(%): 1.5

Corrected Conc (ug/L): 47.

Recovery is 97.1 %

05 Spike

Sample ID: 16 Sequence No.: 00033 Sampler Position: 16

Peak Area (A-s): 0.314

Peak Height (A): 0.213

Background PK Area (A-s): 0.218

Background PK Height (A): 0.181

Blank Corrected PK Area (A-s): 0.252

Concentration (ug/L): 44.

Corrected Conc (ug/L): 87.

Peak Area (A-s): 0.345

Peak Height (A): 0.229

Background PK Area (A-s): 0.170

Background PK Height (A): 0.138

Blank Corrected PK Area (A-s): 0.284

Concentration (ug/L): 49.

Corrected Conc (ug/L): 98.

Mean Conc (ug/L): 46.

SD: 3.9

RSD(%): 8.5

Corrected Conc (ug/L): 93.

EPA Wp 1183

Sample ID: 16 Sequence No.: 00034 Sampler Position: 16

Peak Area (A-s): 0.542

Peak Height (A): 0.328

Background PK Area (A-s): 0.159

Background PK Height (A): 0.187

Blank Corrected PK Area (A-s): 0.481

Concentration (ug/L): 84.

Corrected Conc (ug/L): 169.

Peak Area (A-s): 0.407

Peak Height (A): 0.266

Background PK Area (A-s): 0.388

Background PK Height (A): 0.344

Blank Corrected PK Area (A-s): 0.345

Concentration (ug/L): 60.

Corrected Conc (ug/L): 120.

Mean Conc (ug/L): 72.

SD: 17.1

RSD(%): 23.7

Corrected Conc (ug/L): 144.

Recovery is 103.2 %

05 Spike EPA Wp 1183

Sample ID: 17 Sequence No.: 00035 Sampler Position: 17

Peak Area (A-s): 0.106

Peak Height (A): 0.081

Background PK Area (A-s): 0.593

Background PK Height (A): 0.244

Blank Corrected PK Area (A-s): 0.045

Concentration (ug/L): 8.

Corrected Conc (ug/L): 15.

Peak Area (A-s): 0.103

Peak Height (A): 0.081

Background PK Area (A-s): 0.566

Background PK Height (A): 0.205

Blank Corrected PK Area (A-s): 0.041

Concentration (ug/L): 7.

Corrected Conc (ug/L): 14.

Mean Conc (ug/L): 7.

SD: 0.4

RSD(%): 5.6

Corrected Conc (ug/L): 15.

Town of Hempstead 3, 2, 3, A1

Sample ID: 17 Sequence No.: 00036 Sampler Position: 17

000033

Peak Area (A-s): 0.244
Background PK Area (A-s): 0.562
Blank Corrected PK Area (A-s): 0.182
Concentration (ug/L): 31.

Peak Height (A): 0.159
Background PK Height (A): 0.202
Corrected Conc (ug/L): 63.

Peak Area (A-s): 0.233
Background PK Area (A-s): 0.640
Blank Corrected PK Area (A-s): 0.171
Concentration (ug/L): 29.

Peak Height (A): 0.147
Background PK Height (A): 0.221
Corrected Conc (ug/L): 59.

Mean Conc (ug/L): 30.
Corrected Conc (ug/L): 61.

SD: 1.3 RSD(%): 4.2

Recovery is 92.2 %

.05 Spike 1,2,3 Al

Sample ID: 18

Sequence No.: 00037

Sampler Position: 18

Peak Area (A-s): 0.089
Background PK Area (A-s): 0.563
Blank Corrected PK Area (A-s): 0.027
Concentration (ug/L): 5.

Peak Height (A): 0.072
Background PK Height (A): 0.236
Corrected Conc (ug/L): 9.

Peak Area (A-s): 0.084
Background PK Area (A-s): 0.590
Blank Corrected PK Area (A-s): 0.022
Concentration (ug/L): 4.

Peak Height (A): 0.077
Background PK Height (A): 0.223
Corrected Conc (ug/L): 8.

Mean Conc (ug/L): 4.
Corrected Conc (ug/L): 8.

SD: 0.5 RSD(%): 12.6

4,5 Al

Sample ID: 18

Sequence No.: 00038

Sampler Position: 18

Peak Area (A-s): 0.215
Background PK Area (A-s): 0.551
Blank Corrected PK Area (A-s): 0.154
Concentration (ug/L): 26.

Peak Height (A): 0.142
Background PK Height (A): 0.175
Corrected Conc (ug/L): 53.

Peak Area (A-s): 0.224
Background PK Area (A-s): 0.555
Blank Corrected PK Area (A-s): 0.163
Concentration (ug/L): 29.

Peak Height (A): 0.141
Background PK Height (A): 0.179
Corrected Conc (ug/L): 56.

Mean Conc (ug/L): 27.
Corrected Conc (ug/L): 54.

SD: 1.1 RSD(%): 4.1

Recovery is 91.8 %

.05 4,5 Al

Sample ID: 19

Sequence No.: 00039

Sampler Position: 19

Peak Area (A-s): 0.096
Background PK Area (A-s): 0.590
Blank Corrected PK Area (A-s): 0.024
Concentration (ug/L): 6.

Peak Height (A): 0.075
Background PK Height (A): 0.234
Corrected Conc (ug/L): 12.

Peak Area (A-s): 0.087

Peak Height (A): 0.074

000034

Blank Corrected PK Area (A-S): 0.025
Concentration (ug/L): 4.

Background PK Height (A): 0.364

Corrected Conc (ug/L): 9.4

Mean Conc (ug/L): 5.
Corrected Conc (ug/L): 10.

SD: 1.1 RSD(%): 22.5

Sample ID: 19

Sequence No.: 00040

Sampler Position: 19

Peak Area (A-S): 0.215
Background PK Area (A-S): 0.610
Blank Corrected PK Area (A-S): 0.153
Concentration (ug/L): 25.

Peak Height (A): 0.143
Background PK Height (A): 0.232

Corrected Conc (ug/L): 53.

Peak Area (A-S): 0.234
Background PK Area (A-S): 0.426
Blank Corrected PK Area (A-S): 0.172
Concentration (ug/L): 30.

Peak Height (A): 0.145
Background PK Height (A): 0.143

Corrected Conc (ug/L): 59.

Mean Conc (ug/L): 28.
Corrected Conc (ug/L): 56.

SD: 2.3 RSD(%): 8.3

Recovery is 91.6 %

Sample ID: 20

Sequence No.: 00041

Sampler Position: 20

Peak Area (A-S): 0.077
Background PK Area (A-S): 0.977
Blank Corrected PK Area (A-S): 0.015
Concentration (ug/L): 3.

Peak Height (A): 0.073
Background PK Height (A): 0.598

Corrected Conc (ug/L): 3.

Peak Area (A-S): 0.072
Background PK Area (A-S): 0.507
Blank Corrected PK Area (A-S): 0.010
Concentration (ug/L): 2.

Peak Height (A): 0.082
Background PK Height (A): 0.201

Corrected Conc (ug/L): 4.

Mean Conc (ug/L): 2.
Corrected Conc (ug/L): 4.

SD: 0.6 RSD(%): 26.0

Sample ID: 20

Sequence No.: 00042

Sampler Position: 20

Peak Area (A-S): 0.303
Background PK Area (A-S): 0.329
Blank Corrected PK Area (A-S): 0.141
Concentration (ug/L): 24.

Peak Height (A): 0.126
Background PK Height (A): 0.163

Corrected Conc (ug/L): 49.

Peak Area (A-S): 0.171
Background PK Area (A-S): 0.842
Blank Corrected PK Area (A-S): 0.109
Concentration (ug/L): 19.

Peak Height (A): 0.128
Background PK Height (A): 0.848

Corrected Conc (ug/L): 37.

Mean Conc (ug/L): 21.
Corrected Conc (ug/L): 43.

SD: 3.9 RSD(%): 18.4

Recovery is 77.3 %

0.05 Spike Dupl 6 AL

000035

Sample ID: 21 Sequence No.: 00043 Sampler Position: 21
Peak Area (A-s): 0.324 Peak Height (A): 0.177
Background PK Area (A-s): 0.417 Background PK Height (A): 0.249
Blank Corrected PK Area (A-s): 0.262
Concentration (ug/L): 45. Corrected Conc (ug/L): 91.
Peak Area (A-s): 0.353 Peak Height (A): 0.197
Background PK Area (A-s): 0.457 Background PK Height (A): 0.341
Blank Corrected PK Area (A-s): 0.292
Concentration (ug/L): 51. Corrected Conc (ug/L): 101.
Mean Conc (ug/L): 48. SD: 3.7 RSD(%): 7.8
Corrected Conc (ug/L): 96.

1 Spike 6 AL

Sample ID: 21 Sequence No.: 00044 Sampler Position: 21
Peak Area (A-s): 0.435 Peak Height (A): 0.250
Background PK Area (A-s): 0.299 Background PK Height (A): 0.149
Blank Corrected PK Area (A-s): 0.423
Concentration (ug/L): 74. Corrected Conc (ug/L): 148.
Peak Area (A-s): 0.450 Peak Height (A): 0.227
Background PK Area (A-s): 0.273 Background PK Height (A): 0.118
Blank Corrected PK Area (A-s): 0.389
Concentration (ug/L): 68. Corrected Conc (ug/L): 136.
Mean Conc (ug/L): 71. SD: 4.3 RSD(%): 6.1
Corrected Conc (ug/L): 142.

Recovery is 91.8 %

0.05 Spike 1 Spike 6 AL

Sample ID: 22 Sequence No.: 00045 Sampler Position: 22
Peak Area (A-s): 0.090 Peak Height (A): 0.060
Background PK Area (A-s): 0.208 Background PK Height (A): 0.112
Blank Corrected PK Area (A-s): 0.018
Concentration (ug/L): 3. Corrected Conc (ug/L): 6.
Peak Area (A-s): 0.091 Peak Height (A): 0.063
Background PK Area (A-s): 0.172 Background PK Height (A): 0.118
Blank Corrected PK Area (A-s): 0.029
Concentration (ug/L): 5. Corrected Conc (ug/L): 10.
Mean Conc (ug/L): 4. SD: 1.3 RSD(%): 33.1
Corrected Conc (ug/L): 8.

Blank

Sample ID: 22 Sequence No.: 00046 Sampler Position: 22
Peak Area (A-s): 0.193 Peak Height (A): 0.104
Background PK Area (A-s): 0.128 Background PK Height (A): 0.083
Blank Corrected PK Area (A-s): 0.131
Concentration (ug/L): 23. Corrected Conc (ug/L): 45.

000036

Background PK Area (A-S): 0.116
Blank Corrected PK Area (A-S): 0.111
Concentration (ug/L): 19.

Background PK Height (A): 0.096
Corrected Conc (ug/L): 38.

Mean Conc (ug/L): 21.
Corrected Conc (ug/L): 42.

SD: 2.4 RSD(%): 11.7

Recovery is 67.3 %

0.5 Spike Blank

Sample ID: 23

Sequence No.: 00047

Sampler Position: 23

Peak Area (A-S): 0.262
Background PK Area (A-S): 0.129
Blank Corrected PK Area (A-S): 0.202
Concentration (ug/L): 35.

Peak Height (A): 0.128
Background PK Height (A): 0.136
Corrected Conc (ug/L): 69.

Peak Area (A-S): 0.282
Background PK Area (A-S): 0.122
Blank Corrected PK Area (A-S): 0.220
Concentration (ug/L): 38.

Peak Height (A): 0.133
Background PK Height (A): 0.119
Corrected Conc (ug/L): 76.

Mean Conc (ug/L): 36.
Corrected Conc (ug/L): 73.

SD: 2.3 RSD(%): 3.3

Sample ID: 23

Sequence No.: 00048

Sampler Position: 23

Peak Area (A-S): 0.328
Background PK Area (A-S): 0.102
Blank Corrected PK Area (A-S): 0.266
Concentration (ug/L): 43.

Peak Height (A): 0.155
Background PK Height (A): 0.094
Corrected Conc (ug/L): 92.

Peak Area (A-S): 0.314
Background PK Area (A-S): 0.092
Blank Corrected PK Area (A-S): 0.252
Concentration (ug/L): 44.

Peak Height (A): 0.154
Background PK Height (A): 0.070
Corrected Conc (ug/L): 87.

Mean Conc (ug/L): 45.
Corrected Conc (ug/L): 90.

SD: 1.3 RSD(%): 3.0

Recovery is 33.3 %

Sample ID: 23

Sequence No.: 00049

Sampler Position: 23

Peak Area (A-S): 0.230
Background PK Area (A-S): 0.049
Blank Corrected PK Area (A-S): 0.139
Concentration (ug/L): 29.

Peak Height (A): 0.122
Background PK Height (A): 0.067
Corrected Conc (ug/L): 58.

Peak Area (A-S): 0.158
Background PK Area (A-S): 0.131
Blank Corrected PK Area (A-S): 0.097
Concentration (ug/L): 17.

Peak Height (A): 0.099
Background PK Height (A): 0.159
Corrected Conc (ug/L): 33.

Mean Conc (ug/L): 23.
Corrected Conc (ug/L): 46.

SD: 2.8 RSD(%): 39.7

000037

Sample ID: 23 Sequence No.: 00050 Sampler Position: 23

Peak Area (A-S): 0.374	Peak Height (A): 0.189
Background PK Area (A-S): 0.051	Background PK Height (A): 0.061
Blank Corrected PK Area (A-S): 0.312	
Concentration (ug/L): 54	Corrected Conc (ug/L): 109.
Peak Area (A-S): 0.341	Peak Height (A): 0.162
Background PK Area (A-S): 0.079	Background PK Height (A): 0.071
Blank Corrected PK Area (A-S): 0.279	
Concentration (ug/L): 48.	Corrected Conc (ug/L): 97.
Mean Conc (ug/L): 51.	SD: 4.2 RSD(%): 8.1
Corrected Conc (ug/L): 102.	

EPA Wp 1183 C2

Sample ID: 23 Sequence No.: 00051 Sampler Position: 23

Peak Area (A-S): 0.274	Peak Height (A): 0.133
Background PK Area (A-S): 0.182	Background PK Height (A): 0.202
Blank Corrected PK Area (A-S): 0.212	
Concentration (ug/L): 27.	Corrected Conc (ug/L): 73.
Peak Area (A-S): 0.340	Peak Height (A): 0.154
Background PK Area (A-S): 0.081	Background PK Height (A): 0.155
Blank Corrected PK Area (A-S): 0.278	
Concentration (ug/L): 48.	Corrected Conc (ug/L): 96.
Mean Conc (ug/L): 42.	SD: 3.2 RSD(%): 19.3
Corrected Conc (ug/L): 85.	

Recovery is -35.2 %

Sample ID: 24 Sequence No.: 00052 Sampler Position: 24

Peak Area (A-S): 0.057	Peak Height (A): 0.047
Background PK Area (A-S): 0.102	Background PK Height (A): 0.175
Blank Corrected PK Area (A-S): -0.005	
Concentration (ug/L): -1.	Corrected Conc (ug/L): -2.
Peak Area (A-S): 0.033	Peak Height (A): 0.034
Background PK Area (A-S): 0.120	Background PK Height (A): 0.198
Blank Corrected PK Area (A-S): -0.029	
Concentration (ug/L): -5.	Corrected Conc (ug/L): -10.
Mean Conc (ug/L): -3.	SD: 2.9 RSD(%): 102.7
Corrected Conc (ug/L): -6.	

NY 5 DEC F 187-513-01

Sample ID: 21 Sequence No.: 00053 Sampler Position: 24

Peak Area (A-S): 0.059	Peak Height (A): 0.033
Background PK Area (A-S): 0.357	Background PK Height (A): 0.520
Blank Corrected PK Area (A-S): -0.003	
Concentration (ug/L): -1.	

000038

Peak Area (A-s): 0.048
Background PK Area (A-s): 0.135
Blank Corrected PK Area (A-s): -0.014
Concentration (ug/L): -2.

Peak Height (A): 0.058
Background PK Height (A): 0.145
Corrected Conc (ug/L): -5.

Mean Conc (ug/L): -1.
Corrected Conc (ug/L): -3.

SD: 1.3 RSD(%): 37.6

Recovery is 5.5 %

Sample ID: 25

Sequence No.: 00034

Sampler Position: 25

Peak Area (A-s): 0.019
Background PK Area (A-s): 0.243
Blank Corrected PK Area (A-s): -0.043
Concentration (ug/L): -7.

Peak Height (A): 0.091
Background PK Height (A): 0.590
Corrected Conc (ug/L): -13.

Sample ID: 24

Sequence No.: 00058

Sampler Position: 24

Peak Area (A-s): 0.073
Background PK Area (A-s): 0.107
Blank Corrected PK Area (A-s): 0.011
Concentration (ug/L): 2.

Peak Height (A): 0.037
Background PK Height (A): 0.065
Corrected Conc (ug/L): 4.

000039

Background PK Area (A-s): 0.150 Background PK Height (A): 0.111
Blank Corrected PK Area (A-s): 0.027
Concentration (ug/L): 5. Corrected Conc (ug/L): 9.
Mean Conc (ug/L): 3. SD: 1.9 RSD(%): 58.5
Corrected Conc (ug/L): 6.

NYS DEC E 187-513-01

Sample ID: 24 Sequence No.: 00059 Sampler Position: 24

Peak Area (A-s): 0.215 Peak Height (A): 0.152
Background PK Area (A-s): 0.146 Background PK Height (A): 0.091
Blank Corrected PK Area (A-s): 0.153
Concentration (ug/L): 26. Corrected Conc (ug/L): 53.

Peak Area (A-s): 0.221 Peak Height (A): 0.160
Background PK Area (A-s): 0.177 Background PK Height (A): 0.103
Blank Corrected PK Area (A-s): 0.150
Concentration (ug/L): 27. Corrected Conc (ug/L): 55.

Mean Conc (ug/L): 27. SD: 0.7 RSD(%): 2.6
Corrected Conc (ug/L): 54.

Recovery is 94.6 %

05 Spike E 187-513-01

Sample ID: 25 Sequence No.: 00060 Sampler Position: 25

Peak Area (A-s): 0.035 Peak Height (A): 0.081
Background PK Area (A-s): 0.172 Background PK Height (A): 0.105
Blank Corrected PK Area (A-s): 0.023
Concentration (ug/L): 4. Corrected Conc (ug/L): 9.

Peak Area (A-s): 0.035 Peak Height (A): 0.082
Background PK Area (A-s): 0.157 Background PK Height (A): 0.104
Blank Corrected PK Area (A-s): 0.023
Concentration (ug/L): 4. Corrected Conc (ug/L): 8.

Mean Conc (ug/L): 4 SD: 0.0 RSD(%): 0.2
Corrected Conc (ug/L): 8.

E 187-513-02

Sample ID: 25 Sequence No.: 00061 Sampler Position: 25

Peak Area (A-s): 0.222 Peak Height (A): 0.149
Background PK Area (A-s): 0.132 Background PK Height (A): 0.103
Blank Corrected PK Area (A-s): 0.161
Concentration (ug/L): 23. Corrected Conc (ug/L): 55.

Peak Area (A-s): 0.222 Peak Height (A): 0.164
Background PK Area (A-s): 0.172 Background PK Height (A): 0.102
Blank Corrected PK Area (A-s): 0.160
Concentration (ug/L): 28. Corrected Conc (ug/L): 55.

Mean Conc (ug/L): 28. SD: 0.0 RSD(%): 0.0
Corrected Conc (ug/L): 55.

05 Spike E 187-513-02

000040

Sample ID: 25

Sequence No.: 00062

Sampler Position: 26

Peak Area (A-s): 0.062

Peak Height (A): 0.080

Background PK Area (A-s): 0.357

Background PK Height (A): 0.391

Blank Corrected PK Area (A-s): -0.000

Concentration (ug/L): -0.

Peak Area (A-s): 0.021

Peak Height (A): 0.063

Background PK Area (A-s): 0.182

Background PK Height (A): 0.119

Blank Corrected PK Area (A-s): 0.019

Concentration (ug/L): 3.

Corrected Conc (ug/L): 7.

Mean Conc (ug/L): 2.

SD: 2.4

RSD(%): 145.8

Corrected Conc (ug/L): 3.

Sample ID: 26

Sequence No.: 00063

Sampler Position: 26

Peak Area (A-s): 0.230

Peak Height (A): 0.175

Background PK Area (A-s): 0.144

Background PK Height (A): 0.094

Blank Corrected PK Area (A-s): 0.133

Concentration (ug/L): 29.

Corrected Conc (ug/L): 58.

Background absorbance signal is changing during BOC operation.

Peak Area (A-s): 0.248

Peak Height (A): 0.159

Background PK Area (A-s): 0.141

Background PK Height (A): 0.090

Blank Corrected PK Area (A-s): 0.126

Concentration (ug/L): 32.

Corrected Conc (ug/L): 64.

Mean Conc (ug/L): 31.

SD: 2.2

RSD(%): 7.2

Corrected Conc (ug/L): 61.

Recovery is 115.6 %

Sample ID: 27

Sequence No.: 00064

Sampler Position: 27

Peak Area (A-s): 0.073

Peak Height (A): 0.074

Background PK Area (A-s): 0.170

Background PK Height (A): 0.115

Blank Corrected PK Area (A-s): 0.011

Concentration (ug/L): 2.

Corrected Conc (ug/L): 4.

Peak Area (A-s): 0.066

Peak Height (A): 0.065

Background PK Area (A-s): 0.323

Background PK Height (A): 0.311

Blank Corrected PK Area (A-s): 0.004

Concentration (ug/L): 1.

Corrected Conc (ug/L): 2.

Mean Conc (ug/L): 1.

SD: 0.8

RSD(%): 61.9

Corrected Conc (ug/L): 3.

Sample ID: 27

Sequence No.: 00065

Sampler Position: 27

Peak Area (A-s): 0.121

Peak Height (A): 0.133

Background PK Area (A-s): 0.346

Background PK Height (A): 0.372

Blank Corrected PK Area (A-s): 0.119

000041

Background PK Area (A-s): 0.154
Blank Corrected PK Area (A-s): 0.158
Concentration (ug/L): 27.

Peak Height (A): 0.158
Background PK Height (A): 0.109
Corrected Conc (ug/L): 54.

Mean Conc (ug/L): 24.
Corrected Conc (ug/L): 47.

SD: 4.7 RSD(%): 19.9

Recovery is 89.6 %

0.05 Spike E 187-513-04

Sample ID: 28

Sequence No.: 00066

Sampler Position: 28

Peak Area (A-s): 0.084
Background PK Area (A-s): 0.359
Blank Corrected PK Area (A-s): 0.022
Concentration (ug/L): 4.

Peak Height (A): 0.067
Background PK Height (A): 0.295

Corrected Conc (ug/L): 8.

Peak Area (A-s): 0.082
Background PK Area (A-s): 0.166
Blank Corrected PK Area (A-s): 0.021
Concentration (ug/L): 4.

Peak Height (A): 0.076
Background PK Height (A): 0.119

Corrected Conc (ug/L): 7.

Mean Conc (ug/L): 4.
Corrected Conc (ug/L): 7.

SD: 0.2 RSD(%): 6.1

Dupl E 187-513-04

Sample ID: 28

Sequence No.: 00067

Sampler Position: 28

Peak Area (A-s): 0.216
Background PK Area (A-s): 0.146
Blank Corrected PK Area (A-s): 0.154
Concentration (ug/L): 27.

Peak Height (A): 0.141
Background PK Height (A): 0.100

Corrected Conc (ug/L): 53.

Peak Area (A-s): 0.225
Background PK Area (A-s): 0.166
Blank Corrected PK Area (A-s): 0.163
Concentration (ug/L): 28.

Peak Height (A): 0.164
Background PK Height (A): 0.115

Corrected Conc (ug/L): 53.

Mean Conc (ug/L): 27.
Corrected Conc (ug/L): 55.

SD: 1.1 RSD(%): 4.0

Recovery is 94.4 %

0.05 Spike Dupl E 187-513-04

Sample ID: 29

Sequence No.: 00068

Sampler Position: 29

Peak Area (A-s): 0.388
Background PK Area (A-s): 0.142
Blank Corrected PK Area (A-s): 0.326
Concentration (ug/L): 57.

Peak Height (A): 0.247
Background PK Height (A): 0.099

Corrected Conc (ug/L): 113.

Peak Area (A-s): 0.396
Background PK Area (A-s): 0.156
Blank Corrected PK Area (A-s): 0.334
Concentration (ug/L): 59.

Peak Height (A): 0.246
Background PK Height (A): 0.109

Corrected Conc (ug/L): 115.

000042

Mean Conc (ug/L): 57. SD: 1.0

Mean Conc (ug/L): 57. SD: 1.0 RSD(%): 1.7
Corrected Conc (ug/L): 115.

- 1 Spike E 187-513-04

Sample ID: 29 Sequence No.: 00069 Sampler Position: 29

Peak Area (A-s): 0.549 Peak Height (A): 0.347
Background PK Area (A-s): 0.132 Background PK Height (A): 0.093
Blank Corrected PK Area (A-s): 0.487
Concentration (ug/L): 86. Corrected Conc (ug/L): 171.

Peak Area (A-s): 0.493 Peak Height (A): 0.314
Background PK Area (A-s): 0.152 Background PK Height (A): 0.097
Blank Corrected PK Area (A-s): 0.431
Concentration (ug/L): 75. Corrected Conc (ug/L): 151.

Mean Conc (ug/L): 80. SD: 7.2 RSD(%): 8.9
Corrected Conc (ug/L): 161.

Recovery is 92.6 %

- 0.5 Spike 1 Spike E 187-513-04

Sample ID: 30 Sequence No.: 00070 Sampler Position: 30

Peak Area (A-s): 0.097 Peak Height (A): 0.093
Background PK Area (A-s): 0.133 Background PK Height (A): 0.124
Blank Corrected PK Area (A-s): 0.035
Concentration (ug/L): 6. Corrected Conc (ug/L): 12.

Peak Area (A-s): 0.079 Peak Height (A): 0.064
Background PK Area (A-s): 0.236 Background PK Height (A): 0.230
Blank Corrected PK Area (A-s): 0.016
Concentration (ug/L): 3. Corrected Conc (ug/L): 6.

Mean Conc (ug/L): 4. SD: 2.3 RSD(%): 52.9
Corrected Conc (ug/L): 9.

Blank

Sample ID: 30 Sequence No.: 00071 Sampler Position: 30

Peak Area (A-s): 0.164 Peak Height (A): 0.134
Background PK Area (A-s): 0.275 Background PK Height (A): 0.287
Blank Corrected PK Area (A-s): 0.102
Concentration (ug/L): 18. Corrected Conc (ug/L): 35.

Peak Area (A-s): 0.210 Peak Height (A): 0.150
Background PK Area (A-s): 0.141 Background PK Height (A): 0.112
Blank Corrected PK Area (A-s): 0.149
Concentration (ug/L): 26. Corrected Conc (ug/L): 51.

Mean Conc (ug/L): 22. SD: 5.7 RSD(%): 26.3
Corrected Conc (ug/L): 43.

Recovery is 68.4 %

- 0.5 Spike Blank

Sample ID: 31 Sequence No.: 00072 Sampler Position: 31

Peak Area (A-s): 0.304 Peak Height (A): 0.223
000043

Background Pk Area (A-s): 0.206
Blank Corrected Pk Area (A-s): 0.242
Concentration (ug/L): 42.

Background Pk Height (A): 0.221
Corrected Conc (ug/L): 84.

Peak Area (A-s): 0.376
Background Pk Area (A-s): 0.132
Blank Corrected Pk Area (A-s): 0.314
Concentration (ug/L): 54.

Peak Height (A): 0.260
Background Pk Height (A): 0.107
Corrected Conc (ug/L): 109.

Mean Conc (ug/L): 48.
Corrected Conc (ug/L): 96.

SD: 8.9 RSD(%): 18.5

EPA Wp 1183 C2

Sample ID: 31

Sequence No.: 00073

Sampler Position: 31

Peak Area (A-s): 0.419
Background Pk Area (A-s): 0.239
Blank Corrected Pk Area (A-s): 0.353
Concentration (ug/L): 62.

Peak Height (A): 0.306
Background Pk Height (A): 0.181
Corrected Conc (ug/L): 124.

Peak Area (A-s): 0.540
Background Pk Area (A-s): 0.121
Blank Corrected Pk Area (A-s): 0.473
Concentration (ug/L): 84.

Peak Height (A): 0.343
Background Pk Height (A): 0.097
Corrected Conc (ug/L): 168.

Mean Conc (ug/L): 73.
Corrected Conc (ug/L): 146.

SD: 15.3 RSD(%): 20.9

Recovery is 99.2 %

.05 Spike Wp 1183 C2

000044

Town of Hempstead
1-24-88

Ni
CO2
Blank
CAOL
EPA 257
1,2,3 AL
4,5 AL
GAL
Dup. GAL
Spike
GAL
Blank
EPA 257

Town of Hempstead
1-24-88

Zn
CO2
Blank
CAOL
EPA 481
1:10
1,2,3 AL
1:10
4,5 AL
GAL
Dup. GAL
Spike
GAL
Blank
EPA 481

Pb
Zn
Bc

Blank
Blank
Blank
EPA 386C1
1,2,3 AL
4,5 AL
GAL
Dup. GAL
Spike
GAL
Blank
EPA 386C1

2-4-88

Blank
Blank
Blank
Blank
CRDL
X
EPA 686
1,2,3 AL
4,5 AL
GAL
Dup. GAL
Spike GAL
Blank
X
X
EPA 686

000045

N.Y.S. DEC.
Proficiency

K
1-24-58
C.U.2
Blank
CAOL
EPA 686

Town of Hempstead

Blank
EPA 686
1,2,3 AL
1
1,2,3 AL
1
4,5 AI
2
Blank
2
1,2,3 AL
4,5 AL
2
GAI
3
Dup
GAI
Blank
5
EPA 686

N.Y.S. DEC.
Proficiency

NQ.
1-29-58
Blank
CAOL
EPA 686

Town of Hempstead

1,2,3 AL
4,5 AI
Blank
4,5 AL
1,2,3
GAI
GAI
Dup
Blank
EPA 686

Town of Hempstead
Mg 2-1-58
July

Blank
CAOL
EPA 686
1,2,3 AI
4,5 AI
6 AI
6 AI Dup
Blank
EPA 686

Town of Hempstead
Co 1-30

Blank
EPA 481C
1,2,3 AI
4,5 AI
6 AI
6 AI Dup
Spill
Blank
EPA 481

V	Sample	Concentration	Unit	Sample	Concentration	Unit	Sample	Concentration	Unit	Sample	Concentration	Unit	Sample	Concentration	Unit	Sample	Concentration	Unit
1	Blank	0.001	AV	1	Blank	0.001	AV	1	Blank	0.001	AV	1	Blank	0.001	AV	1	Blank	0.001
2	CRDL	0.001	AV	2	CRDL	0.001	AV	2	CRDL	0.001	AV	2	CRDL	0.001	AV	2	CRDL	0.001
3	Spr STD	0.001	AV	3	Spr STD	0.001	AV	3	Spr STD	0.001	AV	3	Spr STD	0.001	AV	3	Spr STD	0.001
4	X	0.001	AV	4	X	0.001	AV	4	X	0.001	AV	4	X	0.001	AV	4	X	0.001
5	EPA	0.001	AV	5	EPA	0.001	AV	5	EPA	0.001	AV	5	EPA	0.001	AV	5	EPA	0.001
6	W48162	0.001	AV	6	W48162	0.001	AV	6	W48162	0.001	AV	6	W48162	0.001	AV	6	W48162	0.001
7	Hempstead	0.001	AV	7	Hempstead	0.001	AV	7	Hempstead	0.001	AV	7	Hempstead	0.001	AV	7	Hempstead	0.001
8	12,3 AL	0.001	AV	8	12,3 AL	0.001	AV	8	12,3 AL	0.001	AV	8	12,3 AL	0.001	AV	8	12,3 AL	0.001
9	4,5 AL	0.001	AV	9	4,5 AL	0.001	AV	9	4,5 AL	0.001	AV	9	4,5 AL	0.001	AV	9	4,5 AL	0.001
10	6 AL	0.001	AV	10	6 AL	0.001	AV	10	6 AL	0.001	AV	10	6 AL	0.001	AV	10	6 AL	0.001
11	6 AL DUP	0.001	AV	11	6 AL DUP	0.001	AV	11	6 AL DUP	0.001	AV	11	6 AL DUP	0.001	AV	11	6 AL DUP	0.001
12	6 AL SPIKE	0.001	AV	12	6 AL SPIKE	0.001	AV	12	6 AL SPIKE	0.001	AV	12	6 AL SPIKE	0.001	AV	12	6 AL SPIKE	0.001
13	Blank	0.001	AV	13	Blank	0.001	AV	13	Blank	0.001	AV	13	Blank	0.001	AV	13	Blank	0.001
14	EPA	0.001	AV	14	EPA	0.001	AV	14	EPA	0.001	AV	14	EPA	0.001	AV	14	EPA	0.001
15	W48162	0.001	AV	15	W48162	0.001	AV	15	W48162	0.001	AV	15	W48162	0.001	AV	15	W48162	0.001
16	W481	0.001	AV	16	W481	0.001	AV	16	W481	0.001	AV	16	W481	0.001	AV	16	W481	0.001
17	AP-01	0.001	AV	17	AP-01	0.001	AV	17	AP-01	0.001	AV	17	AP-01	0.001	AV	17	AP-01	0.001
18	AP-02	0.001	AV	18	AP-02	0.001	AV	18	AP-02	0.001	AV	18	AP-02	0.001	AV	18	AP-02	0.001

000048

Element File: Sn_1

Date: 2/22/82

Data Storage File: A802231944

Technique: HGA

Element: Sn

Time: 19:50

ID/Weight File:

Calibration Type: Nonlinear

Sample ID: Blank

Sequence No.: 00001

Sampler Position: 1

Peak Area (A-s): 0.029

Peak Height (A): 0.071

Background PK Area (A-s): 2.855

Background PK Height (A): 1.427

Blank Corrected PK Area (A-s): 0.029

Peak Area (A-s): 0.007

Peak Height (A): 0.015

Background PK Area (A-s): 0.152

Background PK Height (A): 0.430

Blank Corrected PK Area (A-s): 0.007

Mean PK Area (A-s): 0.018

SD: 0.0139

RSD(%): 28.2

Auto-zero performed.

Sample ID: Standard 1

Sequence No.: 00002

Sampler Position: 2

Peak Area (A-s): 0.082

Peak Height (A): 0.102

Background PK Area (A-s): 0.240

Background PK Height (A): 0.645

Blank Corrected PK Area (A-s): 0.084

Peak Area (A-s): 0.090

Peak Height (A): 0.115

Background PK Area (A-s): 0.234

Background PK Height (A): 0.673

Blank Corrected PK Area (A-s): 0.072

Mean PK Area (A-s): 0.035

SD: 0.0057

RSD(%): 8.4

Standard number 1 applied. [125.1

Sample ID: Standard 2

Sequence No.: 00003

Sampler Position: 2

Peak Area (A-s): 0.153

Peak Height (A): 0.197

Background PK Area (A-s): 0.263

Background PK Height (A): 0.604

000049

Blank Corrected PK Area (A-S): 0.125
Concentration (ug/L): 247

Peak Area (A-S): 0.165
Background PK Area (A-S): 0.224
Blank Corrected PK Area (A-S): 0.147
Concentration (ug/L): 268

Peak Height (A): 0.213
Background PK Height (A): 0.638

Mean Conc (ug/L): 258. SD: 14.6 RSD(%): 5.7

Standard number 2 applied. I 250.1

Sample ID: Standard 2 Sequence No.: 00004 Sampler Position: 3

Peak Area (A-S): 0.314
Background PK Area (A-S): 0.234
Blank Corrected PK Area (A-S): 0.290
Concentration (ug/L): 494

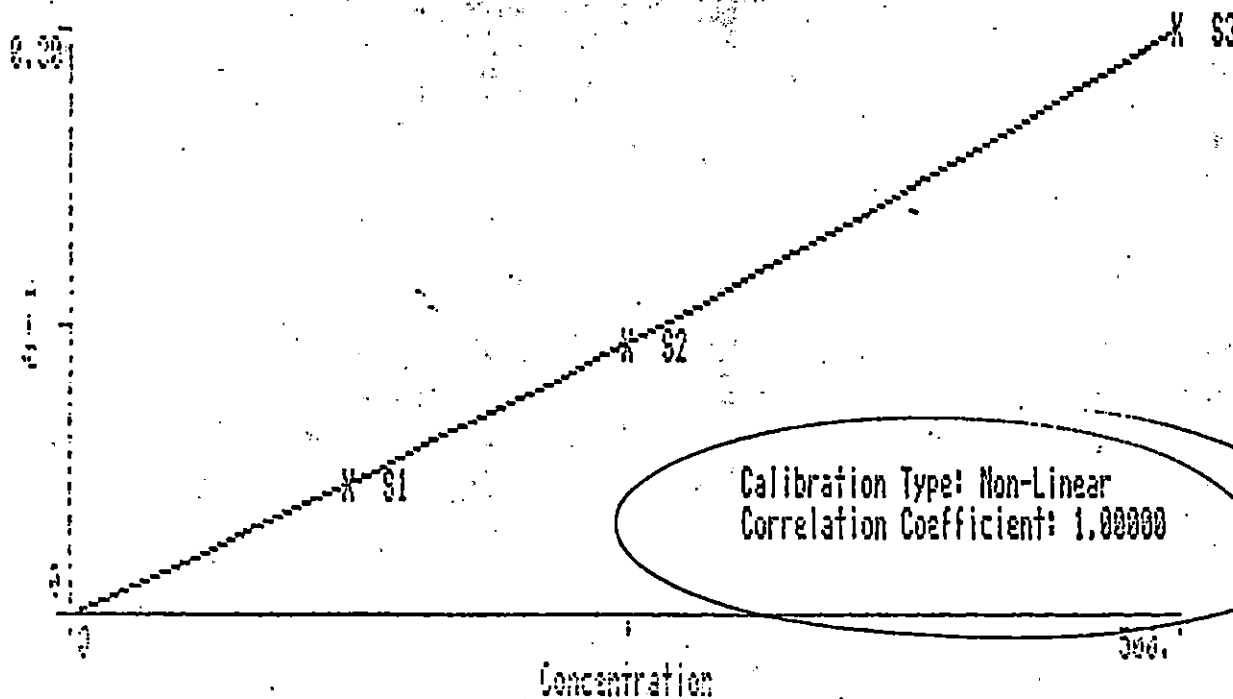
Peak Height (A): 0.303
Background PK Height (A): 0.570

Peak Area (A-S): 0.320
Background PK Area (A-S): 0.249
Blank Corrected PK Area (A-S): 0.302
Concentration (ug/L): 502

Peak Height (A): 0.403
Background PK Height (A): 0.597

Mean Conc (ug/L): 498. SD: 5.4 RSD(%): 1.1

Standard number 3 applied. I 500.1



000050

Sample ID: 3 Sequence No.: 00005 Sampler Position: 3

Peak Area (A-S): 0.012 Peak Height (A): 0.019
Background PK Area (A-S): 0.231 Background PK Height (A): 0.612
Blank Corrected PK Area (A-S): -0.006
Concentration (ug/L): -11.

Peak Area (A-S): 0.005 Peak Height (A): 0.022
Background PK Area (A-S): 0.547 Background PK Height (A): 0.792
Blank Corrected PK Area (A-S): -0.010
Concentration (ug/L): -15.

Mean Conc (ug/L): -15. SD: 5.7 RSD(%): 38.2

Blank

Sample ID: 4 Sequence No.: 00006 Sampler Position: 4

Peak Area (A-S): 0.029 Peak Height (A): 0.029
Background PK Area (A-S): 0.600 Background PK Height (A): 0.870
Blank Corrected PK Area (A-S): 0.011
Concentration (ug/L): 22.

Peak Area (A-S): 0.031 Peak Height (A): 0.039
Background PK Area (A-S): 0.325 Background PK Height (A): 0.657
Blank Corrected PK Area (A-S): 0.013
Concentration (ug/L): 24.

Mean Conc (ug/L): 23. SD: 1.6 RSD(%): 7.2

CRDL

7:1

Sample ID: 5 Sequence No.: 00007 Sampler Position: 5

Peak Area (A-S): 0.256 Peak Height (A): 0.302
Background PK Area (A-S): 0.270 Background PK Height (A): 0.617
Blank Corrected PK Area (A-S): 0.238
Concentration (ug/L): 406.

Peak Area (A-S): 0.244 Peak Height (A): 0.330
Background PK Area (A-S): 0.627 Background PK Height (A): 0.637
Blank Corrected PK Area (A-S): 0.236
Concentration (ug/L): 383.

Mean Conc (ug/L): 397. SD: 12.6 RSD(%): 3.2

.400 NBS

Sample ID: 6 Sequence No.: 00008 Sampler Position: 6

Peak Area (A-S): 0.161 Peak Height (A): 0.222
Background PK Area (A-S): 0.632 Background PK Height (A): 0.648
Blank Corrected PK Area (A-S): 0.143
Concentration (ug/L): 233.

Peak Area (A-S): 0.161 Peak Height (A): 0.229
Background PK Area (A-S): 0.652 Background PK Height (A): 0.674
Blank Corrected PK Area (A-S): 0.140
Concentration (ug/L): 233.

000051

Mean Conc (ug/L): 252. SD: 0.0 RSD(%): 0.0

250 LC S

Sample ID: 7 Sequence No.: 00009 Sampler Position: 7

Peak Area (A-S): 0.023 Peak Height (A): 0.020
Background PK Area (A-S): 0.631 Background PK Height (A): 0.632
Blank Corrected PK Area (A-S): 0.005
Concentration (ug/L): 10

Peak Area (A-S): 0.020 Peak Height (A): 0.015
Background PK Area (A-S): 0.355 Background PK Height (A): 0.419
Blank Corrected PK Area (A-S): 0.002
Concentration (ug/L): 5

Mean Conc (ug/L): 0. SD: 4.6 RSD(%): 72.5

NYS DEC 515-01

Sample ID: 8 Sequence No.: 00010 Sampler Position: 8

Peak Area (A-S): 0.080 Peak Height (A): 0.071
Background PK Area (A-S): 0.711 Background PK Height (A): 0.363
Blank Corrected PK Area (A-S): 0.071
Concentration (ug/L): 125

Peak Area (A-S): 0.094 Peak Height (A): 0.071
Background PK Area (A-S): 0.369 Background PK Height (A): 0.435
Blank Corrected PK Area (A-S): 0.076
Concentration (ug/L): 125

Mean Conc (ug/L): 134. SD: 7.1 RSD(%): 5.3

10 Spike 515-01

Sample ID: 9 Sequence No.: 00011 Sampler Position: 9

Peak Area (A-S): 0.014 Peak Height (A): 0.017
Background PK Area (A-S): 0.322 Background PK Height (A): 0.371
Blank Corrected PK Area (A-S): -0.004
Concentration (ug/L): -2

Peak Area (A-S): 0.012 Peak Height (A): 0.014
Background PK Area (A-S): 0.331 Background PK Height (A): 0.401
Blank Corrected PK Area (A-S): -0.003
Concentration (ug/L): -2

Mean Conc (ug/L): -10. SD: 2.7 RSD(%): 20.3

515-02

Sample ID: 10 Sequence No.: 00012 Sampler Position: 10

Peak Area (A-S): 0.076 Peak Height (A): 0.063
Background PK Area (A-S): 0.202 Background PK Height (A): 0.417
Blank Corrected PK Area (A-S): 0.066
Concentration (ug/L): 110

Peak Area (A-S): 0.077 Peak Height (A): 0.062
Background PK Area (A-S): 0.233 Background PK Height (A): 0.421
Blank Corrected PK Area (A-S): 0.059
Concentration (ug/L): 108

000052

Mean Conc (ug/L) : 100. SD: 0.9 RSD(%): 0.8

-10 Spike 515-02

Sample ID: 11 Sequence No.: 00013 Sampler Position: 11

Peak Area (A-S): 0.014 Peak Height (A): 0.012
Background PK Area (A-S): 0.449 Background PK Height (A): 0.470
Blank Corrected PK Area (A-S): -0.004
Concentration (ug/L): -7.

Peak Area (A-S): 0.015 Peak Height (A): 0.016
Background PK Area (A-S): 0.273 Background PK Height (A): 0.432
Blank Corrected PK Area (A-S): -0.003
Concentration (ug/L): -6.

Mean Conc (ug/L) : -3. SD: 0.9 RSD(%): 14.4

515-03

Sample ID: 12 Sequence No.: 00014 Sampler Position: 12

Peak Area (A-S): 0.033 Peak Height (A): 0.065
Background PK Area (A-S): 0.315 Background PK Height (A): 0.465
Blank Corrected PK Area (A-S): 0.033
Concentration (ug/L): 112.

Peak Area (A-S): 0.073 Peak Height (A): 0.062
Background PK Area (A-S): 0.640 Background PK Height (A): 0.518
Blank Corrected PK Area (A-S): 0.060
Concentration (ug/L): 110.

Mean Conc (ug/L) : 114. SD: 6.3 RSD(%): 5.5

-10 Spike 515-03

Sample ID: 13 Sequence No.: 00015 Sampler Position: 13

Peak Area (A-S): 0.033 Peak Height (A): 0.029
Background PK Area (A-S): 0.072 Background PK Height (A): 0.473
Blank Corrected PK Area (A-S): 0.017
Concentration (ug/L): 31.

Peak Area (A-S): 0.035 Peak Height (A): 0.028
Background PK Area (A-S): 0.424 Background PK Height (A): 0.470
Blank Corrected PK Area (A-S): 0.017
Concentration (ug/L): 30.

Mean Conc (ug/L) : 31. SD: 0.0 RSD(%): 0.1

515-04

Sample ID: 14 Sequence No.: 00016 Sampler Position: 14

Peak Area (A-S): 0.034 Peak Height (A): 0.075
Background PK Area (A-S): 0.520 Background PK Height (A): 0.627
Blank Corrected PK Area (A-S): 0.030
Concentration (ug/L): 121.

Peak Area (A-S): 0.073 Peak Height (A): 0.052
Background PK Area (A-S): 0.075 Background PK Height (A): 0.503
Blank Corrected PK Area (A-S): 0.053

000053

Concentration (ug/L) : 101

Mean Conc (ug/L) : 111 SD: 14.2

RSD(%): 12.7

10515-04 Spike

Sample ID: 15 Sequence No.: 00017 Sampler Position: 15

Peak Area (A-S): 0.037

Peak Height (A): 0.032

Background PK Area (A-S): 0.019

Background PK Height (A): 0.030

Blank Corrected PK Area (A-S): 0.019

Concentration (ug/L) : 26.

Peak Area (A-S): 0.037

Peak Height (A): 0.033

Background PK Area (A-S): 0.472

Background PK Height (A): 0.486

Blank Corrected PK Area (A-S): 0.019

Concentration (ug/L) : 26.

Mean Conc (ug/L) : 33. SD: 0.4

RSD(%): 1.1

515-04

Sample ID: 15 Sequence No.: 00018 Sampler Position: 15

Peak Area (A-S): 0.003

Peak Height (A): 0.020

Background PK Area (A-S): 0.007

Background PK Height (A): 0.017

Blank Corrected PK Area (A-S): -0.012

Concentration (ug/L) : -23.

Peak Area (A-S): 0.003

Peak Height (A): 0.012

Background PK Area (A-S): 0.002

Background PK Height (A): 0.476

Blank Corrected PK Area (A-S): -0.012

Concentration (ug/L) : -24.

Mean Conc (ug/L) : -24. SD: 1.1

RSD(%): 4.2

Dupl 515-04

Sample ID: 16 Sequence No.: 00019 Sampler Position: 16

Peak Area (A-S): 0.068

Peak Height (A): 0.049

Background PK Area (A-S): 0.003

Background PK Height (A): 0.487

Blank Corrected PK Area (A-S): 0.060

Concentration (ug/L) : 92.

Peak Area (A-S): 0.055

Peak Height (A): 0.073

Background PK Area (A-S): 0.002

Background PK Height (A): 0.674

Blank Corrected PK Area (A-S): 0.066

Concentration (ug/L) : 127

Mean Conc (ug/L) : 108. SD: 22.6

RSD(%): 20.9

10 Spike 515-04

Sample ID: 17 Sequence No.: 00020 Sampler Position: 17

Peak Area (A-S): 0.006

Peak Height (A): 0.017

Background PK Area (A-S): 0.003

Background PK Height (A): 0.768

Blank Corrected PK Area (A-S): -0.012

Concentration (ug/L) : -24.

Peak Area (A-S): 0.006

Peak Height (A): 0.009

Background PK Area (A-S): 0.245

Background PK Height (A): 0.820

000054

Concentration (ug/L): -17.7

Mean Conc (ug/L): -20. SD: 4.2 RSD(%): 20.7

Blank

Sample ID: 18 Sequence No.: 00021 Sampler Position: 18

Peak Area (A-S): 0.237 Peak Height (A): 0.276
Background PK Area (A-S): 0.339 Background PK Height (A): 0.632
Blank Corrected PK Area (A-S): 0.219
Concentration (ug/L): 377.

Peak Area (A-S): 0.235 Peak Height (A): 0.335
Background PK Area (A-S): 0.339 Background PK Height (A): 0.747
Blank Corrected PK Area (A-S): 0.217
Concentration (ug/L): 374.

Mean Conc (ug/L): 376. SD: 1.8 RSD(%): 0.5

.400 NBS

Sample ID: 19 Sequence No.: 00022 Sampler Position: 19

The sample absorbance is greater than that of the highest standard.
Peak Area (A-S): 0.302 Peak Height (A): 0.409
Background PK Area (A-S): 0.711 Background PK Height (A): 0.474
Blank Corrected PK Area (A-S): 0.374
Concentration (ug/L): 610.

Town of Hempstead 1,2,3

Sample ID: 19 Sequence No.: 00023 Sampler Position: 19

Peak Area (A-S): 0.092 Peak Height (A): 0.097
Background PK Area (A-S): 0.938 Background PK Height (A): 0.639
Blank Corrected PK Area (A-S): 0.074
Concentration (ug/L): 134. Corrected Conc (ug/L): 557.

Peak Area (A-S): 0.093 Peak Height (A): 0.100
Background PK Area (A-S): 0.951 Background PK Height (A): 0.640
Blank Corrected PK Area (A-S): 0.075
Concentration (ug/L): 137. Corrected Conc (ug/L): 547.

Mean Conc (ug/L): 136. SD: 1.8 RSD(%): 1.3

Corrected Conc (ug/L): 542.

Town of Hempstead 1,2,3

Sample ID: 20 Sequence No.: 00024 Sampler Position: 20

The sample absorbance is greater than that of the highest standard.
Peak Area (A-S): 0.307 Peak Height (A): 0.370
Background PK Area (A-S): 0.375 Background PK Height (A): 0.489
Blank Corrected PK Area (A-S): 0.370
Concentration (ug/L): 616.

1,2,3 10 Spike

Sample ID: 20 Sequence No.: 00025 Sampler Position: 20

Peak Area (A-S): 0.097 Peak Height (A): 0.103
Background PK Area (A-S): 0.995 Background PK Height (A): 0.632

000055

Blank Corrected PK Area (A-3): 0.079
Concentration (ug/L): 144.

Corrected Conc (ug/L): 575.

Peak Area (A-3): 0.030
Background PK Area (A-3): 1.026
Blank Corrected PK Area (A-3): 0.071
Concentration (ug/L): 129.

Peak Height (A): 0.033
Background PK Height (A): 0.634

Corrected Conc (ug/L): 517.

Main Conc (ug/L): 137.
Corrected Conc (ug/L): 546.

SD: 10.2

RSD(%): 7.5

1,2,3 .1 Spike

Sample ID: 21 Sequence No.: 00020 Sampler Position: 21

The sample absorbance is greater than that of the highest standard.

Peak Area (A-3): 0.473
Background PK Area (A-3): 0.244
Blank Corrected PK Area (A-3): 0.458
Concentration (ug/L): 727.

Peak Height (A): 0.504
Background PK Height (A): 0.477

4,5 AL

Sample ID: 21 Sequence No.: 00027 Sampler Position: 21

Peak Area (A-3): 0.127
Background PK Area (A-3): 0.022
Blank Corrected PK Area (A-3): 0.100
Concentration (ug/L): 108.

Peak Height (A): 0.132
Background PK Height (A): 0.023

Corrected Conc (ug/L): 732.

Peak Area (A-3): 0.127
Background PK Area (A-3): 0.023
Blank Corrected PK Area (A-3): 0.100
Concentration (ug/L): 108.

Peak Height (A): 0.125
Background PK Height (A): 0.022

Corrected Conc (ug/L): 731.

Main Conc (ug/L): 103.
Corrected Conc (ug/L): 723.

SD: 0.7

RSD(%): 0.3

4,5 AL

Sample ID: 22 Sequence No.: 00028 Sampler Position: 22

The sample absorbance is greater than that of the highest standard.

Peak Area (A-3): 0.522
Background PK Area (A-3): 0.323
Blank Corrected PK Area (A-3): 0.514
Concentration (ug/L): 641.

Peak Height (A): 0.541
Background PK Height (A): 0.437

Spike 4,5 AL

Sample ID: 22 Sequence No.: 00029 Sampler Position: 22

Peak Area (A-3): 0.143
Background PK Area (A-3): 0.772
Blank Corrected PK Area (A-3): 0.137
Concentration (ug/L): 127.

Peak Height (A): 0.132
Background PK Height (A): 0.733

Corrected Conc (ug/L): 693.

Peak Area (A-3): 0.140
Background PK Area (A-3): 0.905
Blank Corrected PK Area (A-3): 0.122
Concentration (ug/L): 218.

Peak Height (A): 0.135
Background PK Height (A): 0.812

Corrected Conc (ug/L): 314.

Main Conc (ug/L): 223.

SD: 0.1

RSD(%): 0.3

000056

.....:10 Spike 4.5 AL
Sample ID: 23 Sequence No. 00020 Sampler Position: 23

Peak Area (A-3): 0.012 Peak Height (A): 0.009
Background PK Area (A-B): 0.788 Background PK Height (A): 0.477
Blank Corrected PK Area (A-B): -0.007
Concentration (ug/L): -12.

Peak Area (A-3): 0.011 Peak Height (A): 0.010
Background PK Area (A-B): 0.751 Background PK Height (A): 0.488
Blank Corrected PK Area (A-B): -0.007
Concentration (ug/L): -12.

Peak Conc (ug/L): 17 SD: 0.2 ADD(%) 4.3

.....:10 Spike 6 AL
Sample ID: 24 Sequence No. 00021 Sampler Position: 24

Peak Area (A-3): 0.008 Peak Height (A): 0.008
Background PK Area (A-B): 0.711 Background PK Height (A): 0.207
Blank Corrected PK Area (A-B): 0.040
Concentration (ug/L): 73

Peak Area (A-3): 0.057 Peak Height (A): 0.020
Background PK Area (A-B): 0.709 Background PK Height (A): 0.388
Blank Corrected PK Area (A-B): 0.039
Concentration (ug/L): 72.

Peak Conc (ug/L): 73 SD: 1.0 ADD(%) 2.7

.....:10 Spike 6 AL
Sample ID: 25 Sequence No. 00022 Sampler Position: 25

Peak Area (A-3): 0.011 Peak Height (A): 0.010
Background PK Area (A-B): 0.799 Background PK Height (A): 0.377
Blank Corrected PK Area (A-B): -0.007
Concentration (ug/L): -13

Peak Area (A-3): 0.012 Peak Height (A): 0.009
Background PK Area (A-B): 0.683 Background PK Height (A): 0.380
Blank Corrected PK Area (A-B): -0.009
Concentration (ug/L): -11.

Peak Conc (ug/L): 12 SD: 0.2 ADD(%) 1.3

.....:10 Spike 6 AL
Sample ID: 26 Sequence No. 00023 Sampler Position: 26

Peak Area (A-3): 0.009 Peak Height (A): 0.008
Background PK Area (A-B): 0.714 Background PK Height (A): 0.490
Blank Corrected PK Area (A-B): 0.041
Concentration (ug/L): 70.

Peak Area (A-3): 0.008 Peak Height (A): 0.008
Background PK Area (A-B): 0.700 Background PK Height (A): 0.379
Blank Corrected PK Area (A-B): 1.000
Concentration (ug/L): 70.

000057

Mean Conc (ug/L) 73.1 SD: 0.7 RSD(%): 0.1

100 Spike Dupl CAL

Sample ID: 27 Sequence No.: 00034 Sampler Position: 27

Peak Area (A) 0.008 Peak Height (A): 0.002
Background B1 Area (A-B1) 0.041 Background PK Height (A): 0.426
Blank Corrected PK Area (A-B1) -0.010
Concentration (ug/L) -19

Peak Area (A) 0.011 Peak Height (A): 0.003
Background B1 Area (A-B1) 0.016 Background PK Height (A): 0.408
Blank Corrected PK Area (A-B1) -0.007
Concentration (ug/L) -14

Mean Conc (ug/L) 32.1 SD: 0.1 RSD(%): 0.2

Blank

Sample ID: 28 Sequence No.: 00035 Sampler Position: 28

Peak Area (A) 0.021 Peak Height (A): 0.002
Background B1 Area (A-B1) 0.000 Background PK Height (A): 0.000
Blank Corrected PK Area (A-B1) 0.021
Concentration (ug/L) 32.1

Peak Area (A) 0.021 Peak Height (A): 0.002
Background B1 Area (A-B1) 0.000 Background PK Height (A): 0.000
Blank Corrected PK Area (A-B1) 0.021
Concentration (ug/L) 32.1

Mean Conc (ug/L) 11.0 SD: 11.0 RSD(%): 100

A00 NBS

Sample ID: 29 Sequence No.: 00036 Sampler Position: 29

Peak Area (A) 0.000 Peak Height (A): 0.000
Background B1 Area (A-B1) 0.000 Background PK Height (A): 0.000
Blank Corrected PK Area (A-B1) 0.000
Concentration (ug/L) 0

Peak Area (A) 0.000 Peak Height (A): 0.000
Background B1 Area (A-B1) 0.000 Background PK Height (A): 0.000
Blank Corrected PK Area (A-B1) 0.000
Concentration (ug/L) 0

Mean Conc (ug/L) 11.0 SD: 11.0 RSD(%): 100

Sample ID: 30 Sequence No.: 00037 Sampler Position: 30

Peak Area (A) 0.000 Peak Height (A): 0.000
Background B1 Area (A-B1) 0.000 Background PK Height (A): 0.000
Blank Corrected PK Area (A-B1) 0.000
Concentration (ug/L) 0

Peak Area (A) 0.000 Peak Height (A): 0.000
Background B1 Area (A-B1) 0.000 Background PK Height (A): 0.000
Blank Corrected PK Area (A-B1) 0.000
Concentration (ug/L) 0

000055

Concentration (ug/L) : 92.

Mean Conc (ug/L) : 93.

SD: 1.3

RSD(%): 1.4

Sample ID: 30

Sequence No.: 00000

Sampler Position: 00

Peak Area (A-5): 0.103

Peak Height (A): 0.107

Background PK Area (A-3): 0.033

Background PK Height (A): 0.042

Blank Corrected PK Area (A-5): 0.082

Concentration (ug/L) : 150.

Peak Area (A-5): 0.102

Peak Height (A): 0.102

Background PK Area (A-3): 0.079

Background PK Height (A): 0.082

Blank Corrected PK Area (A-5): 0.054

Concentration (ug/L) : 153

Mean Conc (ug/L) : 151.

SD: 2.2

RSD(%): 1.5

000059

Town of Hempstead

A1

BLANK

0.95
-1.01
0.29
0.20 AV
0.00 AZ
0.008
0.007
0.011
0.000 AV
2.50 S1
5.22 C
5.28 C
5.12 C
5.21 AV
5.00 S2
10.90 C
10.44 C
10.02 C
10.45 AV
10.00 C

BLANK

0.00
0.00 AV
0.19
0.19

CRDL

0.19 AV
0.75
0.75

EPA 48102

0.75
0.75 AV
-0.00

-0.00
-0.00
-0.00

A1 423

05 AV
05 ER
05 ER
05 ER

0.010
2.53
2.05

A1 423 1:50

2.54
2.33 AV
04 ER

A1 415

04 ER
04 ER
04 ER

0.11
-0.41
-0.22

-0.13 AV
2.23
1.79

A1 415 1:20

2.45
2.34 AV
1.53

A1 415 1:2

2.05
1.63
1.75 AV

Dup. A1 6A

4.93
5.03
3.33

8.44 AV
-0.00
0.00

BLANK

-0.00
-0.00 AV
0.75

EPA

0.75
0.75 AV

000060

APPENDIX E
WELL SAMPLING DATA

WELL SAMPLING DATA SHEET

PROJECT/NO. Phase II Investigation
of the Merrick Landfill
 LOCATION Merrick, N.Y.
 WEATHER breezy, 50°f, sunny, dry

DATE 11-13-87
 WELL NO. M1A
 SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of pvc well
 MEASURING POINT (MP) casing at 1.5ft.
above grade
 MP ELEVATION 19.81
 * WELL DEPTH 29.2 ft.
 * DEPTH TO WATER 21.72 ft.
 HELD 18.5 ft.
 WET 0.6 ft.
 WATER-LEVEL ELEV. 1.91
 LENGTH OF WATER 11.3 ft.
 COLUMN
 VOLUME OF WATER 1.81 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 8:20 am END 10:20 am
 VOLUME REMOVED 9.04 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 11:00 am END 11:10 am
 TEMPERATURE 14.6°c pH 7.30
 COLOR amber yellow
 ODOR odors present
 APPEARANCE slightly opaque
 CONDUCTIVITY 1970 ppm
 REMARKS: _____

<u>ANALYSIS</u>	<u>CONTAINER/PRESERVATIVE</u>
<u>Full HSI</u>	<u>HNO₃, H₂SO₄</u>
<u>Analysis</u>	<u>NaOH, Ice</u>

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investigation of the Merrick Landfill DATE 11-13-87
 LOCATION Merrick, N.Y. WELL NO. M1B
 WEATHER breezy, 50° f, sunny, dry SAMPLER (s) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well
 MEASURING POINT (MP) casing at 1.9 ft.
above grade.
 MP ELEVATION 20.05
 * WELL DEPTH 49.60 ft.
 * DEPTH TO WATER 18.15 ft.
 HELD 19.5 ft.
 WET 1.35 ft.
 WATER-LEVEL ELEV. 1.90
 LENGTH OF WATER 31.5 ft.
 COLUMN
 VOLUME OF WATER 5.04 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 8:20 am END 10:20 am
 VOLUME REMOVED 25.2 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 11:00 am END 11:10 am
 TEMPERATURE 14.4° c pH 7.37
 COLOR pale, yellow gray
 ODOR odors present
 APPEARANCE moderately opaque
 CONDUCTIVITY 2410 ppm
 REMARKS: _____

ANALYSIS	CONTAINER/PRESERVATIVE
Full HSL	HNO ₃ , H ₂ SO ₄
Analysis	NaOH, Ice

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

Velzy
ASSOCIATES

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSD&C Phase II Investigation of the Merrick Landfill

DATE 11-13-87

LOCATION Merrick, N.Y.

WELL NO. M2A

WEATHER Cool, breezy, sunny, 65°F

SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.0 ft. above
grade surface.
 MP ELEVATION 18.64
 * WELL DEPTH 19.5 ft.
 * DEPTH TO WATER 11.41 ft.
 HELD 13.0 ft.
 WET 1.59 ft.
 WATER-LEVEL ELEV. 7.23 ft.
 LENGTH OF WATER 8.0 ft.
 COLUMN
 VOLUME OF WATER 1.28 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 11:30am END 1:40 pm
 VOLUME REMOVED 6.4 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 1:05 pm END 1:15 pm
 TEMPERATURE 15.4°C pH 7.05
 COLOR Dark gray to black
 ODOR odors present
 APPEARANCE very turbid/silty
 CONDUCTIVITY 2320ppm
 REMARKS: _____

ANALYSIS

CONTAINER/PRESERVATIVE

Full HSL	HNO ₃ , H ₂ SO ₄
Analysis	NaOH, Ice

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

Velzy ASSOCIATES

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investigation of the Merrick Landfill

DATE 11-13-87

LOCATION Merrick, N.Y.

WELL NO. M2B

WEATHER Cool, Sunny, 66°F

SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 Nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.1 ft. above
grade surface.
 MP ELEVATION 18.62
 • WELL DEPTH 45.0 ft.
 • DEPTH TO WATER 16.76 ft.
 HELD 18.0 ft.
 WET 1.24 ft.
 WATER-LEVEL ELEV. 1.86 ft.
 LENGTH OF WATER 28.2 ft.
 COLUMN
 VOLUME OF WATER 4.51 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 11:30 am END 1:40 pm
 VOLUME REMOVED 22.6 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD bailing
 TIME: BEG. 12:30 pm END 12:45 pm
 TEMPERATURE 13.9°C pH 6.71
 COLOR Dark Amber
 ODOR odors present
 APPEARANCE Turbid
 CONDUCTIVITY 4740 ppm
 REMARKS: _____

ANALYSIS CONTAINER/PRESERVATIVE

Full HSL HNO₃, H₂SO₄
 Analysis NaOH, Ice

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. Phase II Investigation
of the Merrick Landfill
 LOCATION Merrick, N.Y.
 WEATHER breezy, sunny, 65°F

DATE 11-13-87
 WELL NO. M3A
 SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well
 MEASURING POINT (MP) casing at 1.9 ft.
above grade
 MP ELEVATION 22.88
 * WELL DEPTH 34.7 ft
 * DEPTH TO WATER 21.0 ft
 HELD 22.0 ft.
 WET 1.0 ft.
 WATER-LEVEL ELEV. 1.88
 LENGTH OF WATER 13.7 ft.
 COLUMN
 VOLUME OF WATER 2.2 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 1:40pm END 3:25pm
 VOLUME REMOVED 10.96 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 2:50pm END 3:00 pm
 TEMPERATURE 14.2°C pH 6.47
 COLOR yellow-gray
 ODOR odors present
 APPEARANCE moderately turbid
 CONDUCTIVITY 710 ppm
 REMARKS: _____

<u>ANALYSIS</u>	<u>CONTAINER/PRESERVATIVE</u>
<u>Full HSL</u>	<u>HNO₃ , H₂SO₄</u>
<u>Analysis</u>	<u>NaOH, Ice</u>

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. Phase II Investigation of
the Merrick landfill
 LOCATION Merrick, N.Y.
 WEATHER Cool, breezy, sunny, 65°F

DATE 11-13-87
 WELL NO. N3B
 SAMPLER (S) John Rhyner/Jim Huccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF MEASURING POINT (MP) Top of PVC well casing
at 1.7 ft. above
grade surface
 MP ELEVATION 22.69
 * WELL DEPTH 54.5 ft.
 * DEPTH TO WATER 20.77 ft.
 HELD 22.0 ft.
 WET 1.23 ft.
 WATER-LEVEL ELEV. 1.92
 LENGTH OF WATER COLUMN 33.7 ft.
 VOLUME OF WATER COLUMN 5.39 gal.
 EVACUATION METHOD Bailing
 TIME: BEG. 1:40 pm END 3:25 pm
 VOLUME REMOVED 26.96 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 3:15 pm END 3:25 pm
 TEMPERATURE 14.0°C pH 6.7
 COLOR Pale yellow gray
 ODOR odors present
 APPEARANCE slightly turbid
 CONDUCTIVITY 1850 ppm
 REMARKS: _____

ANALYSIS

Full HSL
Analysis

CONTAINER/PRESERVATIVE

HNO₃, H₂SO₄
NaOH, Ice

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investiga-
tion of the Merrick Landfill

DATE 11-12-87
WELL NO. M4A
SAMPLER (S) John Rhyner/Jim Nuccio

LOCATION Merrick, N.Y.
WEATHER Sunny, breezy, cold, dry

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
DESCRIPTION OF Top of PVC well
MEASURING POINT (MP) casing at 2.2ft.
above grade.
MP ELEVATION 21.66
• WELL DEPTH 34.7 ft.
• DEPTH TO WATER 19.43 ft.
HELD 20.5 ft.
WET 1.07 ft.
WATER-LEVEL ELEV. 2.23
LENGTH OF WATER 15.27 ft.
COLUMN
VOLUME OF WATER 2.44 gal.
COLUMN
EVACUATION METHOD bailing
TIME: BEG. 2:30 pm END 4:30 pm
VOLUME REMOVED 12.22 gal.
RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
TIME: BEG. 3:20pm END 3:35pm
TEMPERATURE 14.8^oc pH 5.15
COLOR Gray-yellow
ODOR odors present
APPEARANCE Turbid
CONDUCTIVITY 2646 ppm
REMARKS: _____

ANALYSIS	CONTAINER/PRESERVATIVE
Full HSL	HNO ₃ , H ₂ SO ₄
Analysis	NaOH, Ice

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investiga-
tion of the Merrick Landfill
 LOCATION Merrick, N.Y.
 WEATHER Cool, sunny, breezy, dry

DATE 11-12-87
 WELL NO. M4B
 SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 3.0ft. above
grade surface.
 MP ELEVATION 22.65
 WELL DEPTH 56.20 ft.
 DEPTH TO WATER 20.46 ft.
 HELD 21.30 ft.
 WET .84 ft.
 WATER-LEVEL ELEV. 2.19
 LENGTH OF WATER 35.74 ft.
 COLUMN
 VOLUME OF WATER 5.72 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 2:30pm END 4:30 pm
 VOLUME REMOVED 28.59 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 4:10pm END 4:20 pm
 TEMPERATURE 13.9°c pH 5.12
 COLOR gray-yellow
 ODOR slight H₂S odors present
 APPEARANCE slightly turbid
 CONDUCTIVITY 5640ppm
 REMARKS: _____

ANALYSIS CONTAINER/PRESERVATIVE

Full HSL	HNO ₃ , H ₂ SO ₄
Analysis	NaOH, Ice

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investigation of the Merrick Landfill DATE 11-12-87
 WELL NO. M5A
 LOCATION Merrick, N.Y. SAMPLER (S) John Rhyner/Jim Nuccio
 WEATHER Cold, breezy, sunny, dry

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.3ft. above
grade surface.
 MP ELEVATION 25.73
 * WELL DEPTH 40.25 ft.
 * DEPTH TO WATER 23.25 ft.
 HELD 24.50 ft.
 WET 1.25ft
 WATER-LEVEL ELEV. 2.48
 LENGTH OF WATER 17.0 ft
 COLUMN
 VOLUME OF WATER 2.72 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 8:30am END 12:40pm
 VOLUME REMOVED 13.6 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 10:45 am END 11:00 am
 TEMPERATURE 14.7⁰c pH 7.6
 COLOR Very pale yellow
 ODOR Odors present
 APPEARANCE Slightly opaque
 CONDUCTIVITY 1330 ppm
 REMARKS: _____

ANALYSIS

CONTAINER/PRESERVATIVE

<u>Full HSL</u>	<u>HNO₃, H₂SO₄</u>
<u>Analysis</u>	<u>NaOH, Ice</u>

NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investiga- DATE 11-12-87
tion of the Merrick Landfill WELL NO. M5B
 LOCATION Merrick, N.Y. SAMPLER (S) John Rhyner/Jim Nuccio
 WEATHER Sunny, breezy, cold, dry

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.4 ft. above
grade surface.
 MP ELEVATION 26.35
 • WELL DEPTH +53 ft.
 • DEPTH TO WATER 24.09 ft.
 HELD 24.60 ft.
 WET .51 ft.
 WATER-LEVEL ELEV. 2.26
 LENGTH OF WATER 31.0 ft.
 COLUMN
 VOLUME OF WATER 4.96 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 8:30am END 12:40 pm
 VOLUME REMOVED 24.8 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 11:50am END 12:10 pm
 TEMPERATURE 16.6°C pH 7.98
 COLOR Very Pale yellow
 ODOR odors present
 APPEARANCE slightly opaque
 CONDUCTIVITY 2130 ppm
 REMARKS: _____

ANALYSIS	CONTAINER/PRESERVATIVE
Full HST	HNO ₃ , H ₂ SO ₄
Analysis	NaOH, Ice

* NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDFC Phase II Investiga-
tion of the Merrick Landfill
 LOCATION Merrick, N.Y.
 WEATHER Sunny, dry, 65°F

DATE 11-16-87
 WELL NO. M6A
 SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.6 ft. above
grade.

MP ELEVATION 8.43

* WELL DEPTH 20.5 ft.

* DEPTH TO WATER 7.34 ft.

HELD 8.0 ft.

WET .66 ft.

WATER-LEVEL ELEV. 1.09

LENGTH OF WATER 13.16 ft.
 COLUMN

VOLUME OF WATER 2.11 gal.
 COLUMN

EVACUATION METHOD Bailing

TIME: BEG. 11:00 am END 2:00 pm

VOLUME REMOVED 10.52 gal.

RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing

TIME: BEG. 1:05 pm END 1:15pm

TEMPERATURE 16.1°C pH 6.67

COLOR Very pale yellow

ODOR none apparent

APPEARANCE slightly turbid

CONDUCTIVITY 670 ppm

REMARKS: _____

ANALYSIS

Full HSL

Analysis

CONTAINER/PRESERVATIVE

HNO₃, H₂SO₄

NaOH, Ice

* NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES

GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investiga-
tion of the Merrick Landfill

DATE 11-16-87

LOCATION Merrick, N.Y.

WELL NO. M6B

WEATHER Sunny, dry, 65°F

SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.0 ft. above
grade surface.

MP ELEVATION 7.90

* WELL DEPTH 40.3 ft.

* DEPTH TO WATER 6.79 ft.

HELD 7.1 ft.

WET .31 ft.

WATER-LEVEL ELEV. 1.11

LENGTH OF WATER 33.51 ft.
 COLUMN

VOLUME OF WATER 5.36 gal.
 COLUMN

EVACUATION METHOD Bailing

TIME: BEG. 11:00 am END 2:00 pm

VOLUME REMOVED 7.17 gal.

RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing

TIME: BEG. 1:45 pm END 1:55 pm

TEMPERATURE 15.8°C pH 5.53

COLOR very pale yellow

ODOR none apparent

APPEARANCE slightly turbid

CONDUCTIVITY 930 ppm

REMARKS:

ANALYSIS

CONTAINER/PRESERVATIVE

Full ILSL

HNO₃, H₂SO₄

Analysis

NaOH, Ice

* NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES

GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investiga- DATE 11-16-87
tion of the Merrick Landfill
 LOCATION Merrick, N.Y. WELL NO. M7A
 WEATHER Sunny, dry, 65°F SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.0 ft. above
grade surface.
 MP ELEVATION 9.48
 * WELL DEPTH 16.0 ft.
 * DEPTH TO WATER 7.03 ft.
 HELD 7.5 ft.
 WET .47 ft.
 WATER-LEVEL ELEV. 2.45
 LENGTH OF WATER 8.97 ft.
 COLUMN
 VOLUME OF WATER 1.43 gal.
 COLUMN
 EVACUATION METHOD Bailing
 TIME: BEG. 2:00pm END 4:30 pm
 VOLUME REMOVED 7.17 gal.
 RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing
 TIME: BEG. 3:00pm END 3:00 pm
 TEMPERATURE 14.9°C pH 5.81
 COLOR pale orange-tan
 ODOR none apparent
 APPEARANCE moderately Turbid
 CONDUCTIVITY 280 ppm
 REMARKS:

ANALYSIS	CONTAINER/PRESERVATIVE
Full HSL	HNO ₃ , H ₂ SO ₄
Analysis	NaOH, Ice

* NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES				
GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investigation of the Merrick Landfill DATE 11-16-87
LOCATION Merrick, N.Y. WELL NO. M7B
WEATHER Sunny, dry, 65°F SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
DESCRIPTION OF Top of PVC well casing
MEASURING POINT (MP) at 2.1 ft. above grade.

MP ELEVATION 9.59

* WELL DEPTH 39.7 ft.

* DEPTH TO WATER 7.19 ft.

HELD 8.0 ft.

WET .81 ft.

WATER-LEVEL ELEV. 2.40

LENGTH OF WATER COLUMN 32.5 ft.

VOLUME OF WATER COLUMN 5.2 gal.

EVACUATION METHOD Bailing

TIME: BEG. 2:00 pm END 4:30 pm

VOLUME REMOVED 26.0 gal.

RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing

TIME: BEG. 3:20pm END 3:30 pm

TEMPERATURE 13.5°C pH 5.08

COLOR Very pale yellow-gray

ODOR none apparent

APPEARANCE slightly turbid

CONDUCTIVITY 50ppm

REMARKS: _____

ANALYSIS

CONTAINER/PRESERVATIVE

Full IHL

HNO₃, H₂SO₄

Analysis

NaOH, Ice

* NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES

GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

WELL SAMPLING DATA SHEET

PROJECT/NO. NYSDEC Phase II Investiga-
tion of the Merrick Landfill

DATE 11-12-87

LOCATION Merrick, N.Y.

WELL NO. M8

WEATHER Cool, sunny, breezy, dry

SAMPLER (S) John Rhyner/Jim Nuccio

EVACUATION DATA

WELL DIAMETER 2.06 nominal I.D.
 DESCRIPTION OF Top of PVC well casing
 MEASURING POINT (MP) at 2.0ft. above
grade surface.

MP ELEVATION 30.69

* WELL DEPTH 60.0 ft.

* DEPTH TO WATER 28.51ft.

HELD 29.0 ft.

WET .49 ft.

WATER-LEVEL ELEV. 2.18

LENGTH OF WATER 31.5 ft.
 COLUMN

VOLUME OF WATER 5.04 gal.
 COLUMN

EVACUATION METHOD Bailing

TIME: BEG. 12:00pm END 2:30 pm

VOLUME REMOVED 25.2 gal.

RECHARGE WAIT N/A

SAMPLING DATA

SAMPLING METHOD Bailing

TIME: BEG. 2:00 pm END 2:15 pm

TEMPERATURE 21.0°C pH 5.51

COLOR Dark amber yellow

ODOR odors present

APPEARANCE clear

CONDUCTIVITY 2290 ppm

REMARKS: _____

ANALYSIS

Full HSL

Analysis

CONTAINER/PRESERVATIVE

HNO₃, H₂SO₄

NaOH, Ice

* NOTE: MEASURED FROM TOP OF WELL CASING.

WELL CASING VOLUMES

GAL./FT.	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

APPENDIX F
SIEVE ANALYSES

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M1 Location Merrick Landfill

Date Sample No. CRVA M1-2 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
254	6.350	14.4				
4	4.750	28.3	13.9	91.2	90.8	
6	3.000					
10	2.000	33.6	5.3	12.7	87.3	
16	1.190					
20	.840	58.7	25.1	16.6	29.3	70.7
30	.590					
40	.420	108.0	49.3	32.7	62.0	38.0
50	.297					
60	.250	140.9	32.9	21.8	83.8	16.2
70	.210					
80	.177					
100	.149	150.3	91.4	6.2	90.0	10.0
140	.104					
200	.074	156.1	51.8	31.8	93.8	6.2
270	.053					
325	.044					
PAN		165.3	91.2	6.1	100.0	0.0
TOTAL			1501.9	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE

ELOWS

LAYERS

Soil + Tare

gm

H

cm

γ

gm/cc

H

cm

γ

gm/cm

Tare

gm

A

cm

γ_m

PFC

A

cm

γ_m

PFC

Dry Soil

gm

V

cm

e

V

cm

e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

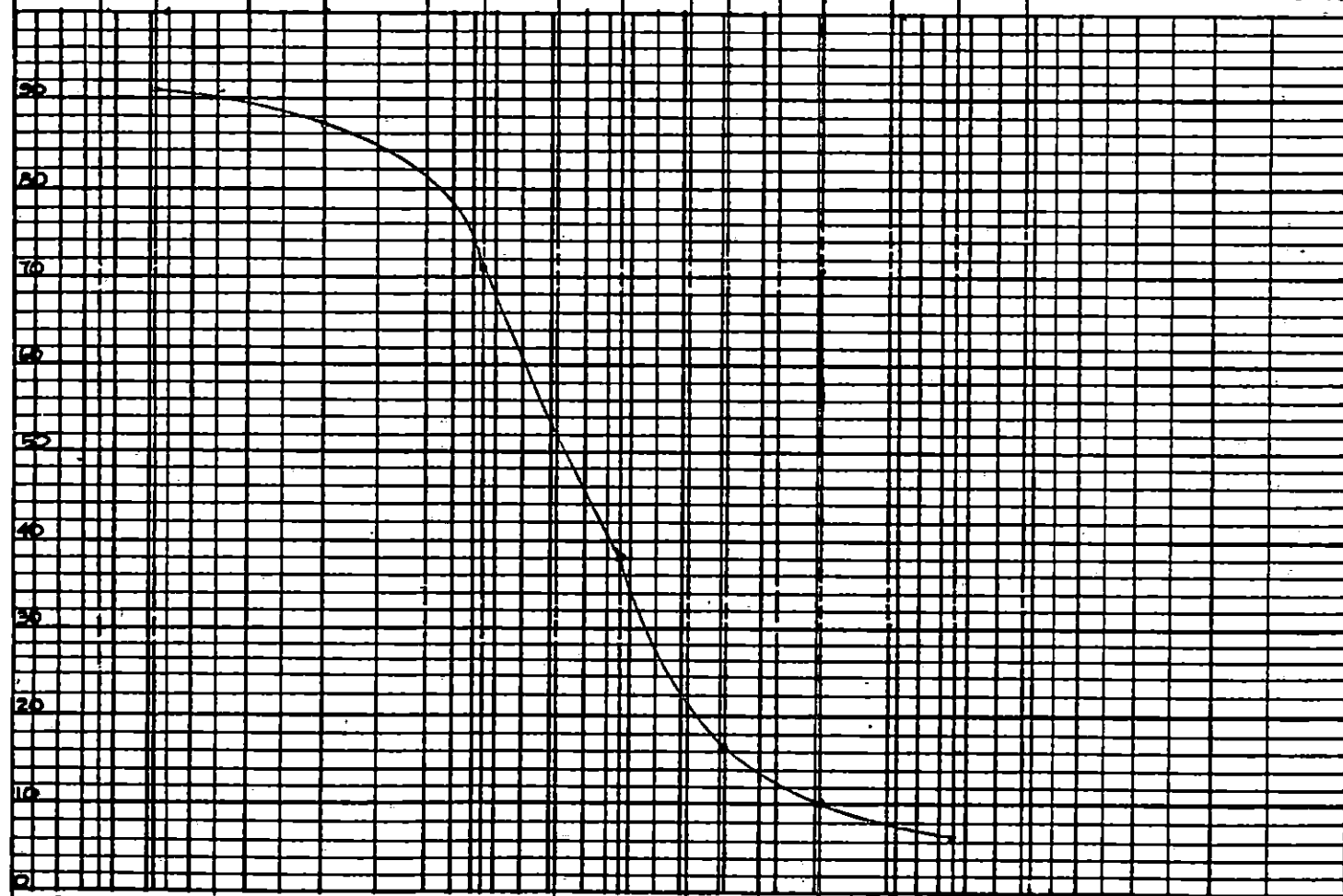
JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF

1/4" 4 6 10 16 20 30 40 50 60 80 100 140 200 270 SIEVE NUMBERS

PERCENT FINER BY DRY WEIGHT



M1-2

5 2 1 .5 .25 .1 .05 .01
 GRAIN SIZE IN MILLIMETERS

GRAVEL

COARSE SAND

MED SAND

FINE SAND

SILT & CLAY

— $\frac{W}{A}$ CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M1 Location Merrick Landfill

Date Sample No. 111-3 MT Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.5				
4	4.750	30.4	15.9	81.6	91.4	
6	3.000					
10	2.000	58.5	28.1	23.7	76.3	
16	1.190					
20	.840	105.1	46.6	48.8	51.2	
30	.590					
40	.420	164.1	59.0	80.6	19.4	
50	.297					
60	.240	186.6	22.5	92.7	7.3	
70	.210					
80	.177					
100	.149	195.3	8.7	97.4	2.6	
140	.104					
200	.074	199.0	3.7	99.4	0.6	
270	.053					
325	.044					
PAN		200.1	1.1	100.0	0.0	
TOTAL			185.6	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE - FLOWS

LAYERS

Soil + Tare

gm

H

cm

γ

gm/cc

H

cm

γ

gm/cm

Tare

gm

A

cm²

γ_m

PFC

A

cm²

γ_m

PFC

Dry Soil

gm

V

cm³

e

V

cm³

e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

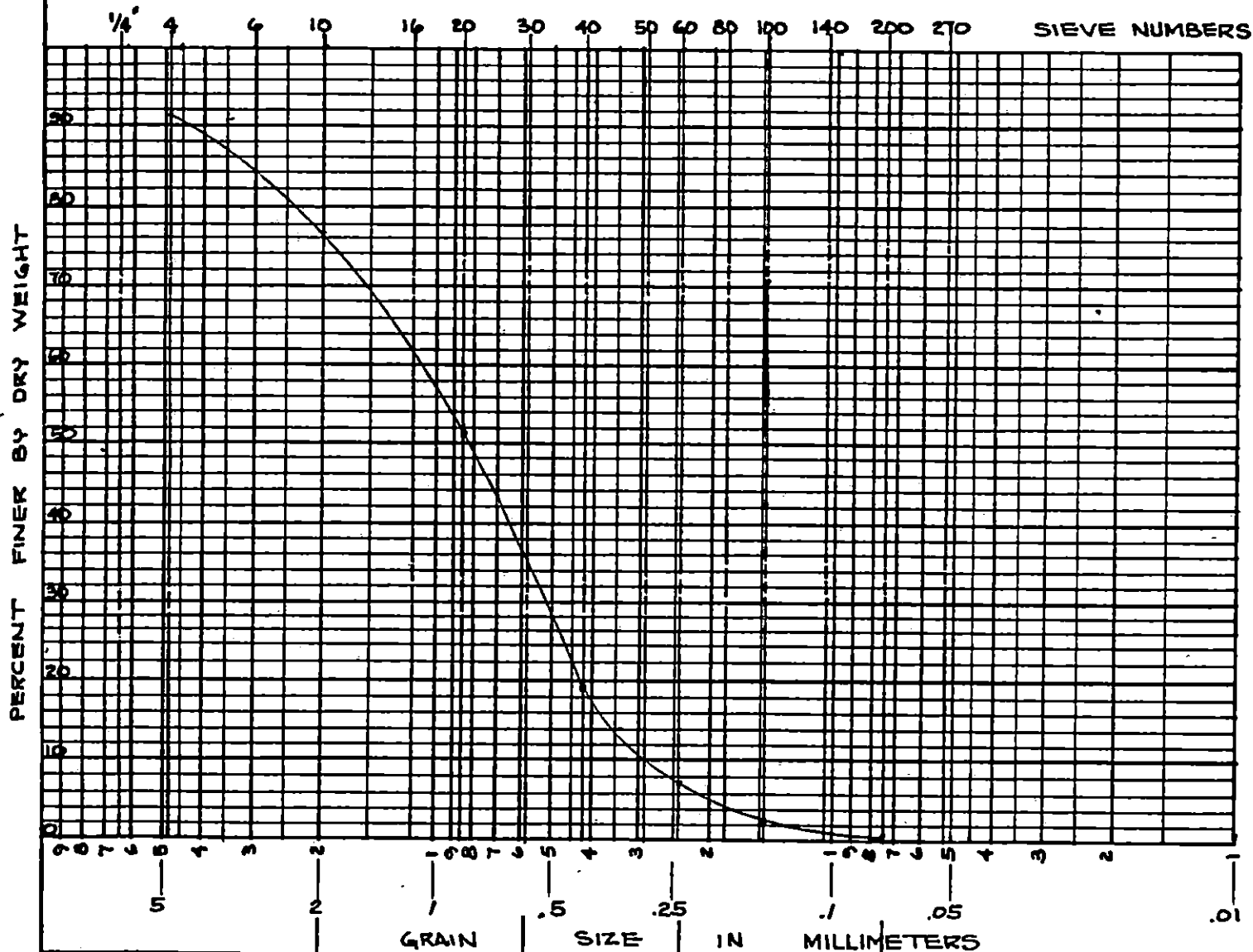
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFK



M1-3

GRAVEL

COARSE SAND

MED. SAND

FINE SAND

SILT & CLAY

— A CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT- _____

Signed J. [Signature]

Date 9-11-86

MORETRENCH CORPORATION ROCKAWAY, NEW JERSEY
Soils Laboratory
SOILS FINER THEN 1/4" MECHANICAL ANALYSIS ASTM E-11 & D-422

Contractor _____

Job _____

Town of Hempstead PW-58-86

Location _____

Nassau County, New York

Soil _____

Boring no. M1 Location Merrick Landfill

Date _____ Sample No. M1-4 Top Datum _____ Depth _____ Sample El. _____

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
20 #	6.350	14.1	1	1	1	
4	4.750	—	—	—	—	
6	3.000	—	—	—	—	
10	2.000	18.5	4.4	1.5	98.5	
16	1.190	—	—	—	—	
20	.840	57.3	38.0	12.9	141.4	851.6
30	.590	—	—	—	—	
40	.420	210.2	152.9	51.0	65.4	341.6
50	.297	—	—	—	—	
60	.240	303.2	93.0	31.0	96.4	31.6
70	.210	—	—	—	—	
80	.177	—	—	—	—	
100	.149	311.6	81.4	2.8	99.2	01.8
140	.104	—	—	—	—	
200	.074	313.4	11.8	0.6	99.8	01.2
270	.053	—	—	—	—	
325	.044	—	—	—	—	
PAN	—	313.9	01.5	01.2	100.0	01.0
TOTAL		2991.8	100.0			

UNIT MASS

DENSITY

LOOSE

Soil + Tare

_____ gm

H

_____ cm

_____ gm/cc

DENSE

— BLOWS

LAYERS

Tare

_____ gm

A

_____ cm

_____ PFC

H

_____ cm

_____ gm/cm

Dry Soil

_____ gm

V

_____ cm

_____ "e"

A

_____ cm

_____ PFC

V

_____ cm

_____ "e"

COLOR _____

AVE. GRAIN SHAPE _____

MINERALOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

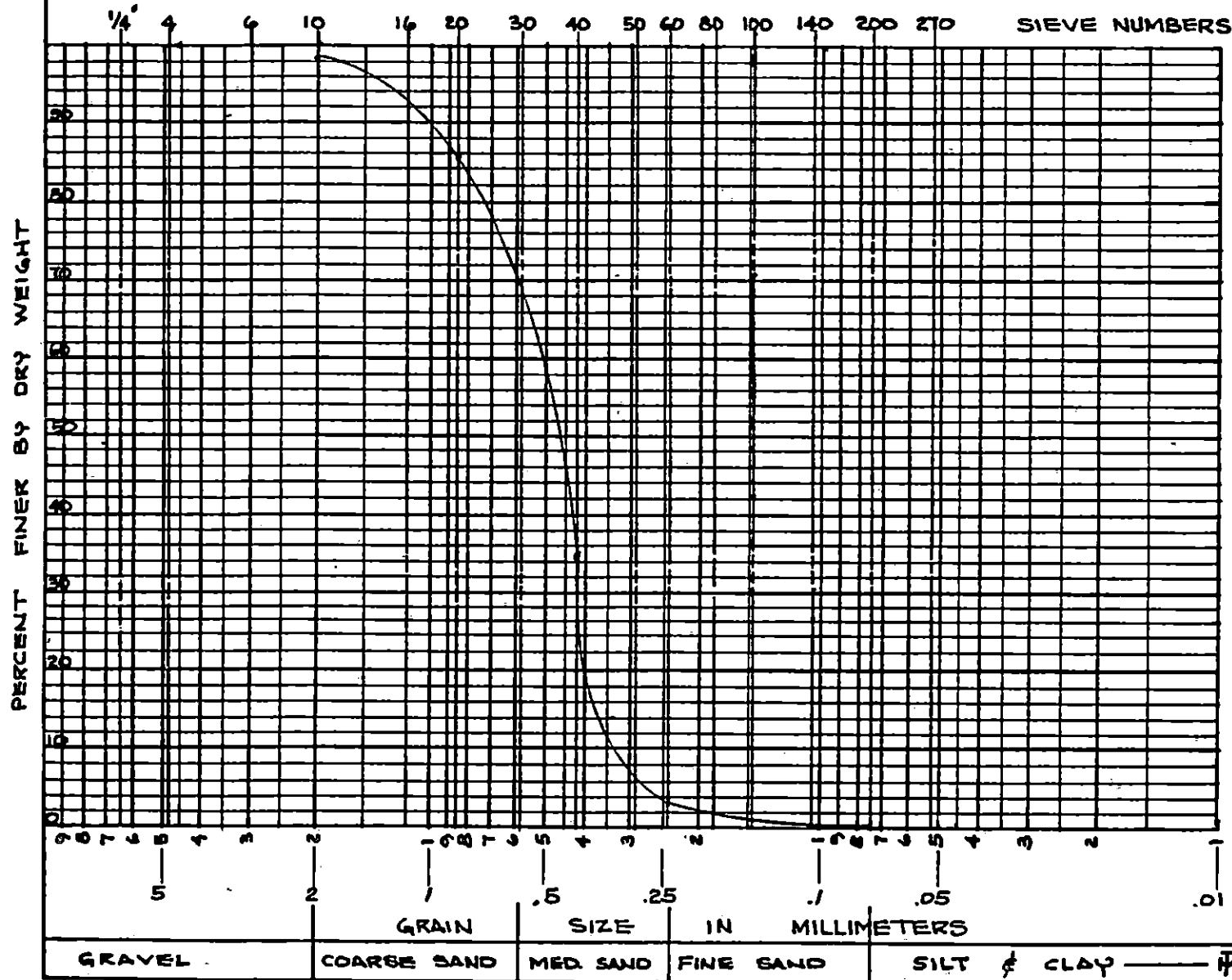
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



M1-4

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. Fullan

Date

9/27/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no.

M1

Location

Merrick Landfill

Date

Sample No.

M1-5

Top Datum

Depth

Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
DISH						
1/4	6.350	14.5				
4	4.750	18.4	31.9	31.2	96.8	
6	3.000					
10	2.000	30.0	11.6	91.4	871.4	
16	1.190					
20	.840	49.9	19.9	161.1	281.7	711.3
30	.590					
40	.420	96.6	46.7	37.8	66.5	331.5
50	.297					
60	.240	121.9	25.3	20.5	87.0	131.0
70	.210					
80	.177					
100	.149	132.2	10.3	81.3	95.3	41.7
140	.104					
200	.074	136.0	3.8	31.1	98.4	11.6
270	.053					
325	.044					
PAN		138.1	21.1	11.7	100.0	0.0
TOTAL			1231.6	100.0		

UNIT MASS

DENSITY

LOOSE

H

A

V

cm

cm

cm

g

g

g

cc

PFC

e

DENSE

BLOWS

LAYERS

H

A

V

cm

cm

cm

g

g

g

cc

PFC

e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

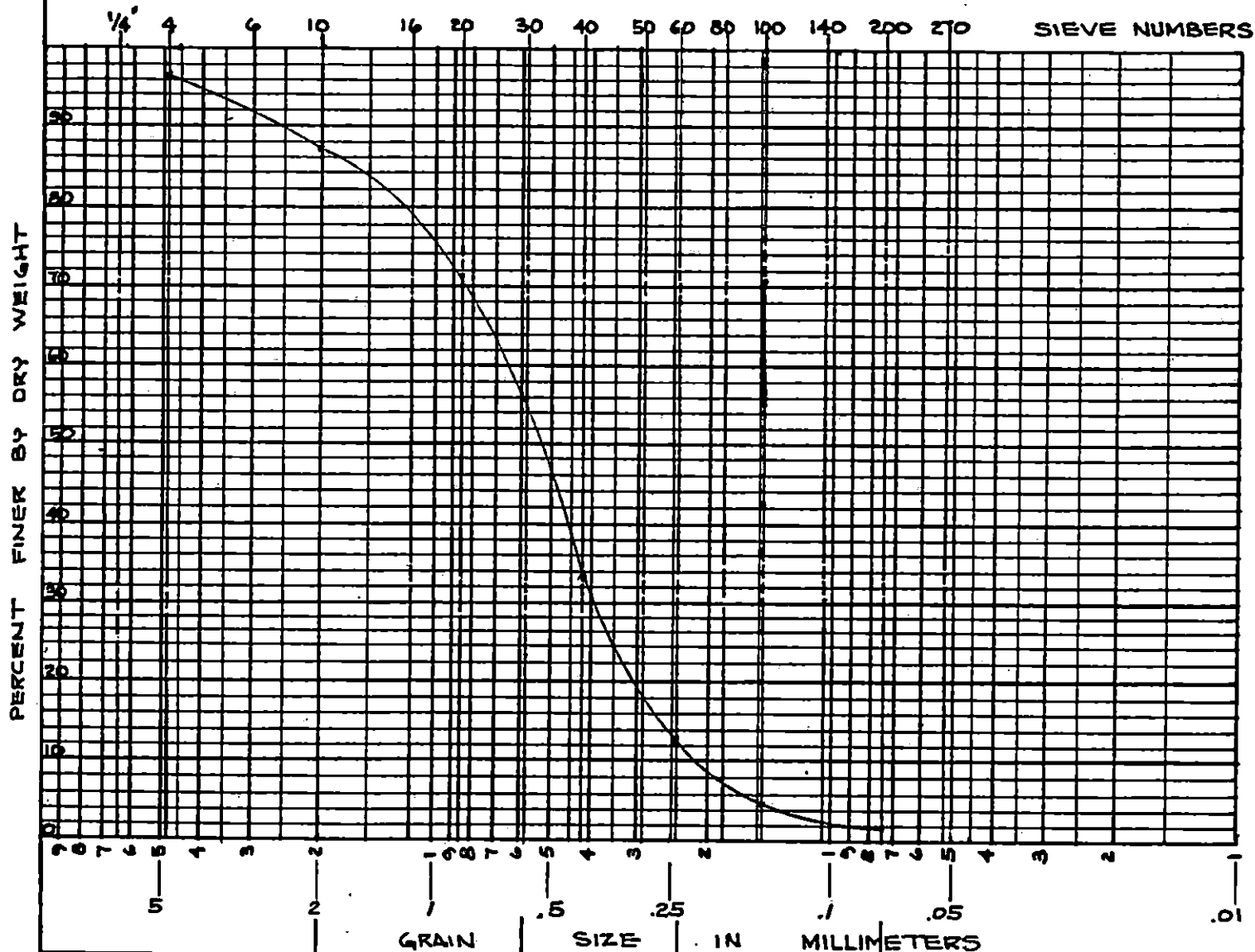
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M1-5

GRAVEL

COARSE SAND

MED SAND

FINE SAND

SILT & CLAY

— $\overline{M}$ A CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. J. Sullivan

Date 9/22/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M1 Location Merrick Landfill

Date 9/22/87 Sample No. M1-6 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
<u>DISH</u> 1/4	6.350	14.5	1	1	1	
4	4.750	20.9	61.4	41.2	95.6	
6	3.000					
10	2.000	28.7	71.8	51.1	90.7	
16	1.190					
20	.840	41.8	131.1	81.5	82.2	
30	.590					
40	.420	99.5	571.7	37.6	55.4	
50	.297					
60	.240	150.4	501.9	33.2	88.6	
70	.210					
80	.177					
100	.149	162.7	121.3	81.0	96.6	
140	.104					
200	.074	166.4	31.7	21.4	99.0	
270	.053					
325	.044					
PAN		168.0	111.6	11.0	100.0	
TOTAL			1531.5	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE - BLOWS

LAYERS

Soil + Tare

gm

H

cm

gm/cc

H

cm

gm/cm

Tare

gm

A

cm

PFC

A

cm

PFC

Dry Soil

gm

V

cm

"e"

V

cm

"e"

COLOR AVE. GRAIN SHAPE

MINERALOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

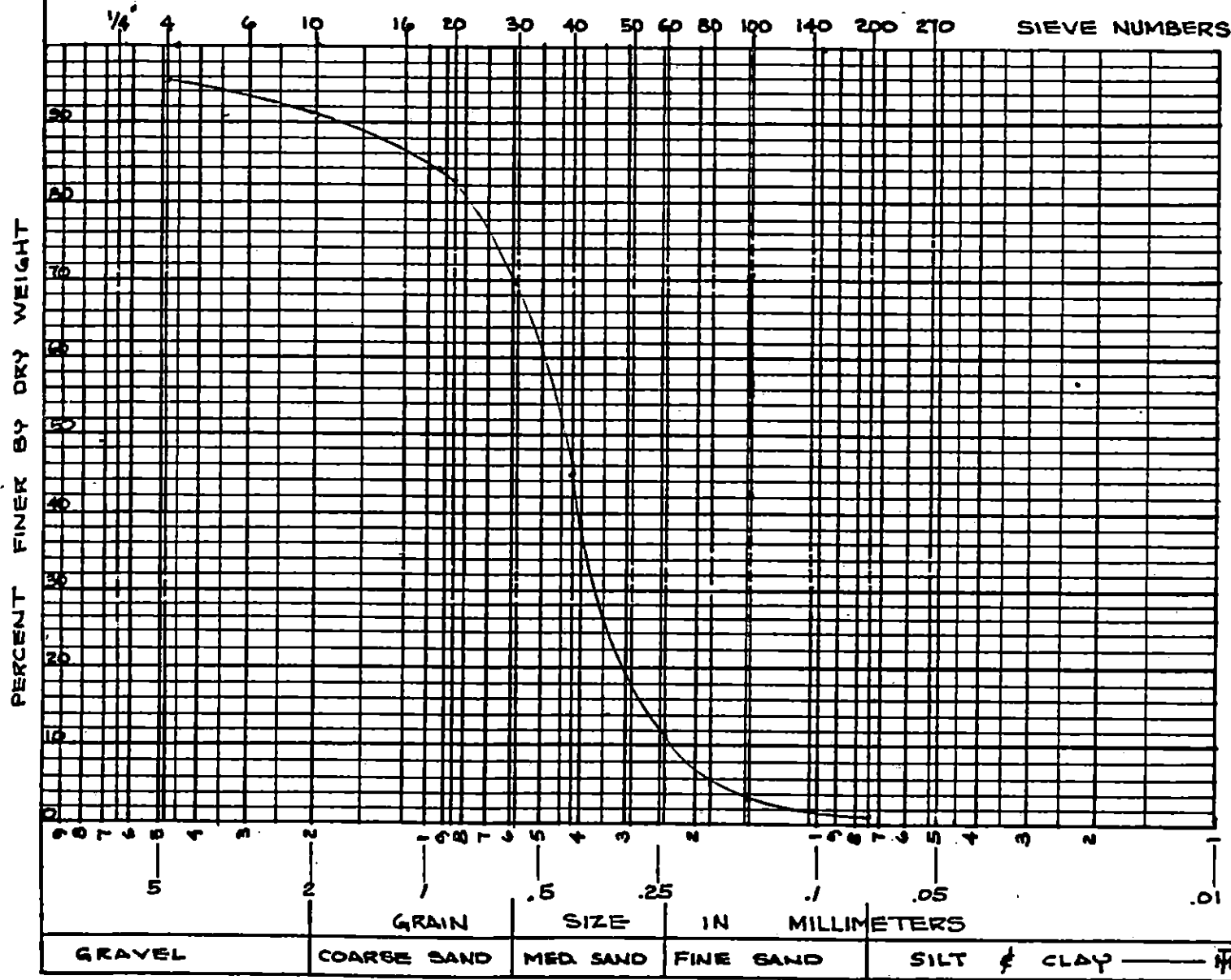
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



M1-6

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. Galli

Date

9/22/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M1 Location Merrick Landfill

Date Sample No. 11-7 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.5				
4	4.750	29.7	15.2	81.6	91.4	
6	3.000					
10	2.000	55.8	26.1	14.7	761.7	
16	1.190					
20	.840	83.1	27.3	15.4	381.7	611.3
30	.590					
40	.420	120.4	37.3	21.0	59.7	401.3
50	.297					
60	.240	152.7	32.3	18.2	77.9	221.1
70	.210					
80	.177					
100	.149	169.2	16.5	9.3	87.2	12.12
140	.104					
200	.074	180.7	11.5	6.5	93.7	61.3
270	.053					
325	.044					
PAN		191.9	11.2	6.3	100.0	0.0
TOTAL			177.4	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE

BLOWS

LAYERS

Soil + Tare

gm

H

cm

g/cc

H

cm

g/cm

Tare

gm

A

cm

PFC

A

cm

PFC

Dry Soil

gm

V

cm

e

V

cm

e

COLOR

AVE. GRAIN SHAPE

MINERALOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

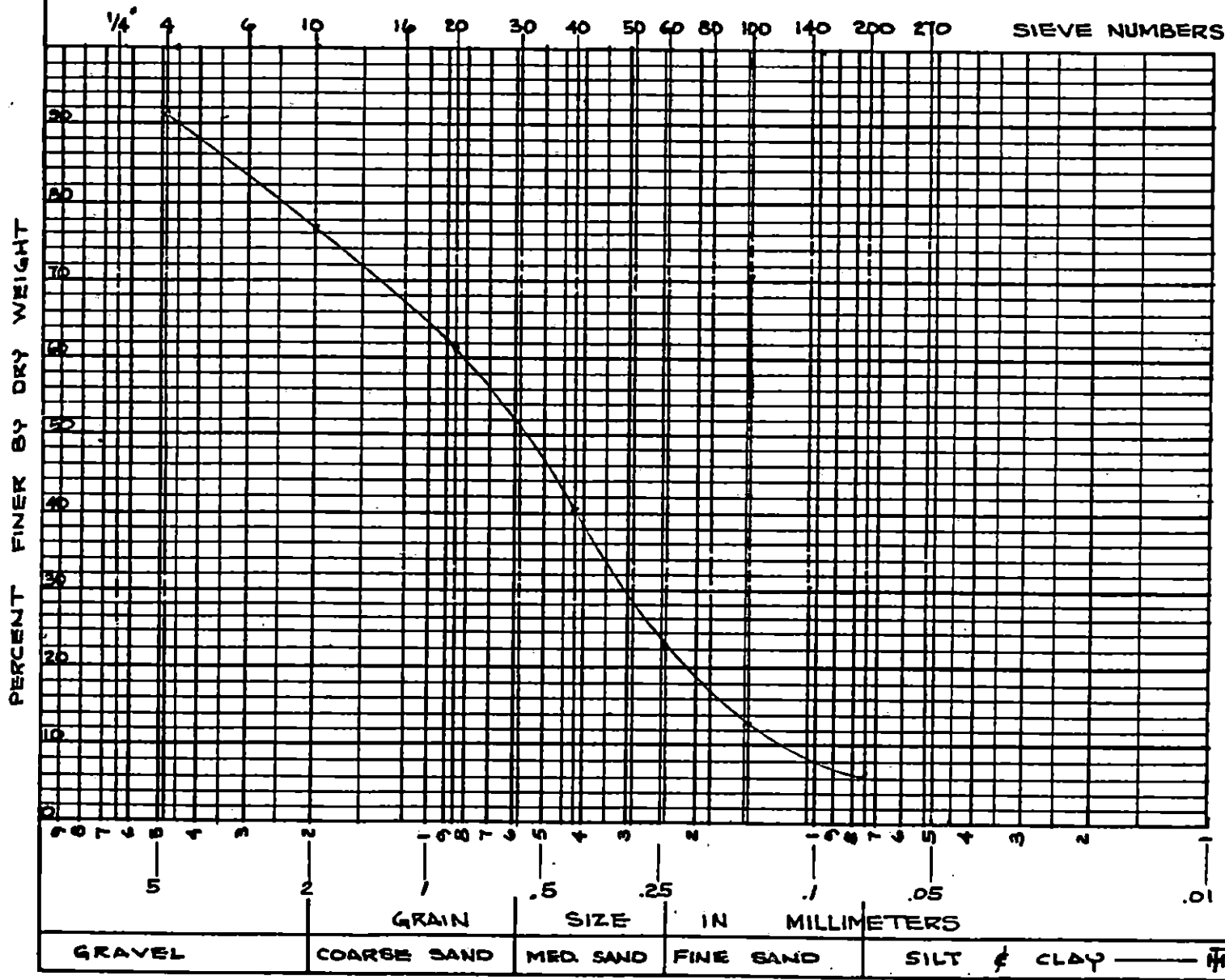
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M1-7

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. Buller

Date 9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M1 Location Merrick Landfill

Date 9-11 Sample No. M1-8 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
4	4.750	59.9	35.8	37.0	63.0	
6	3.000					
10	2.000	70.4	10.5	47.9	52.1	
16	1.190					
20	.840	82.8	12.4	60.7	39.3	
30	.590					
40	.420	98.5	15.7	76.9	23.1	
50	.297					
60	.240	109.1	10.6	87.9	12.1	
70	.210					
80	.177					
100	.149	114.1	5.0	93.1	6.9	
140	.104					
200	.074	117.9	3.8	97.0	3.0	
270	.053					
325	.044					
PAN		120.8	2.9	100.0	0.0	
TOTAL		96.7	100.0			

UNIT MASS

DENSITY

LOOSE

DENSE

- FLOWS

LAYERS

Soil + Tare

gm

H

cm

γ

gm/cc

H

cm

γ

gm/cm

Tare

gm

A

cm

γ_m

PFC

A

cm

γ_m

PFC

Dry Soil

gm

V

cm

e

V

cm

e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

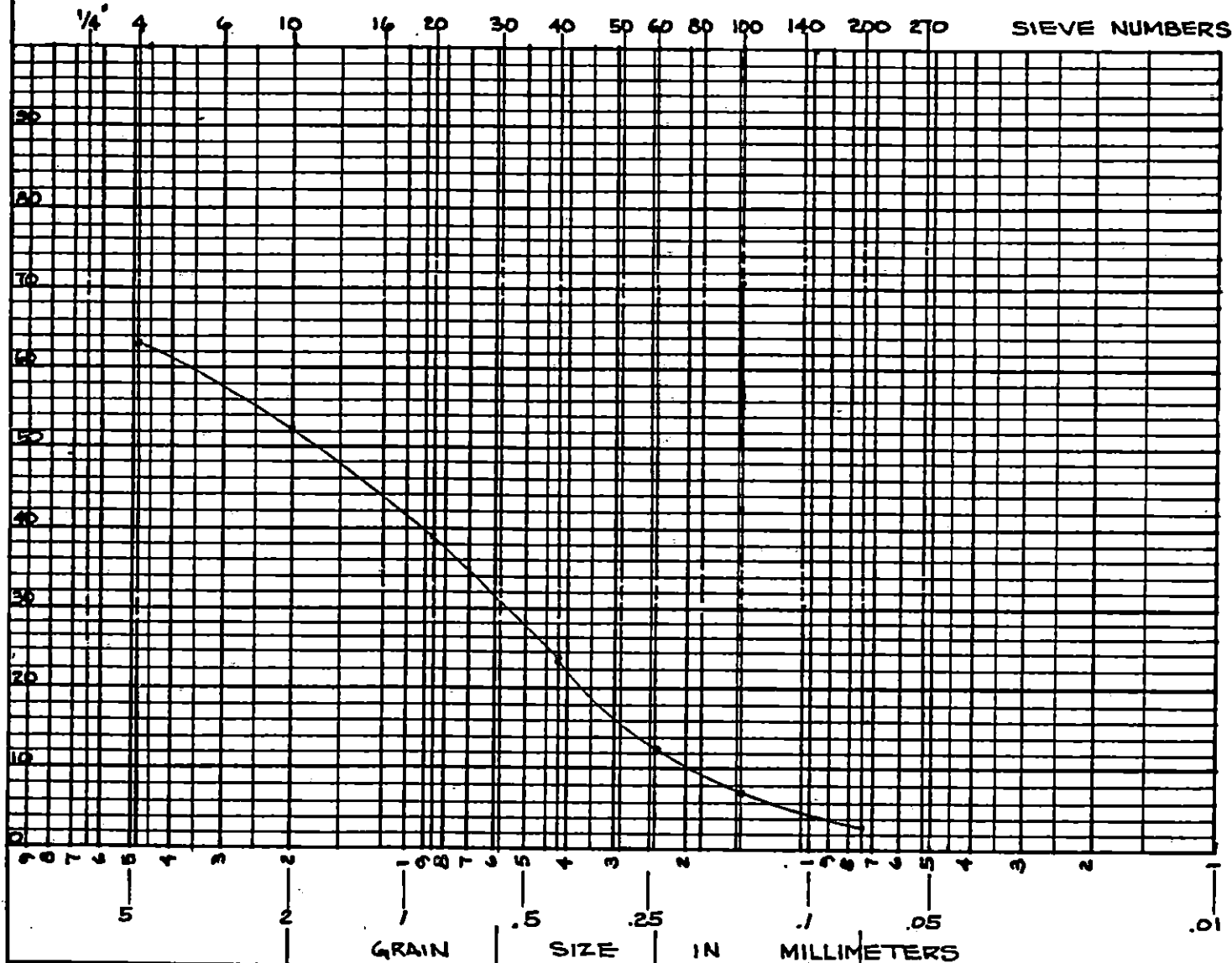
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/21/87

BY: JFF



M11-8

GRAVEL

COARSE SAND

MED. SAND

FINE SAND

SILT & CLAY

— MA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. Fuller

Date

9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M2 Location Merrick Landfill

Date Sample No. 72-3 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
20	0.850	14.1	14.1	14.1	85.9	
40	0.425	76.5	62.4	231.0	77.0	
60	0.250	120.7	99.2	391.3	60.7	
100	0.150	170.6	99.9	571.7	42.1	
200	0.075	226.0	99.9	781.1	21.9	
400	0.045	256.2	99.9	891.2	10.8	
600	0.030	270.3	99.9	941.4	5.6	
800	0.025	278.3	99.9	971.3	2.7	
1000	0.020	285.7	99.9	1001.0	0.0	
TOTAL		271.6	100.0			

UNIT MASS	DENSITY	LOOSE	DENSE - FLOWS	LAYERS
Soil + Tare	gm	H	H	H
Tare	gm	A	A	A
Dry Soil	gm	V	V	V

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

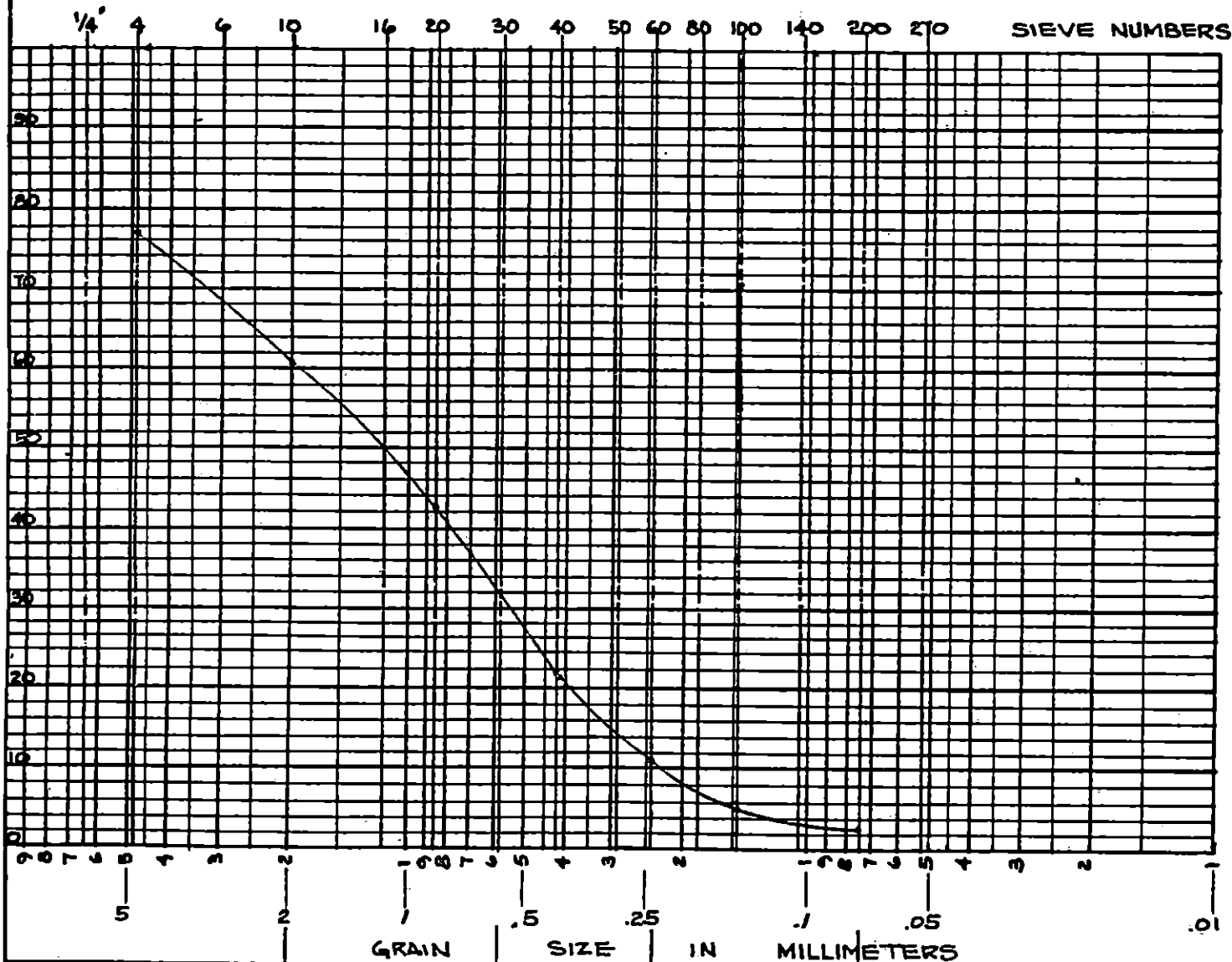
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



MZ-3

GRAVEL

COARSE SAND

MED. SAND

FINE SAND

SILT & CLAY

— HA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. J. Miller

Date

11/12/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M2 Location Merrick Landfill

Date 11/12/87 Sample No. 42-33 Top Datum Moretrench Depth 6 Sample El. 6

U. S. Test Sieve no.		Size MM	Weight Retained		% Retained	Total % Retained	% Finer	Notes
Medium Gravel	P 1/4	6.350	14.5					
	4	4.750	34.2	191.7	111.7	111.7	881.3	
	6	3.000						
	10	2.000	48.9	141.7	81.8	201.5	791.5	
	16	1.190						
Coarse Sand	20	.840	77.9	291.0	171.3	371.8	621.2	
	30	.590						
Medium Sand	40	.420	156.5	781.6	461.8	841.6	151.4	
	50	.297						
	60	.240	166.4	91.9	51.9	901.5	91.5	
Fine Sand	70	.210						
	80	.177						
	100	.149	168.6	21.2	11.3	911.8	81.2	
Fines VF S	140	.104						
	200	.074	172.6	41.0	21.4	941.2	51.8	
	270	.053						
Fines VF S	325	.044						
	PAN		182.5	91.9	51.9	1001.0	01.0	
TOTAL				1681.0	1001.0			

MORETRENCH AMERICAN CORPORATION

dewatering systems and services

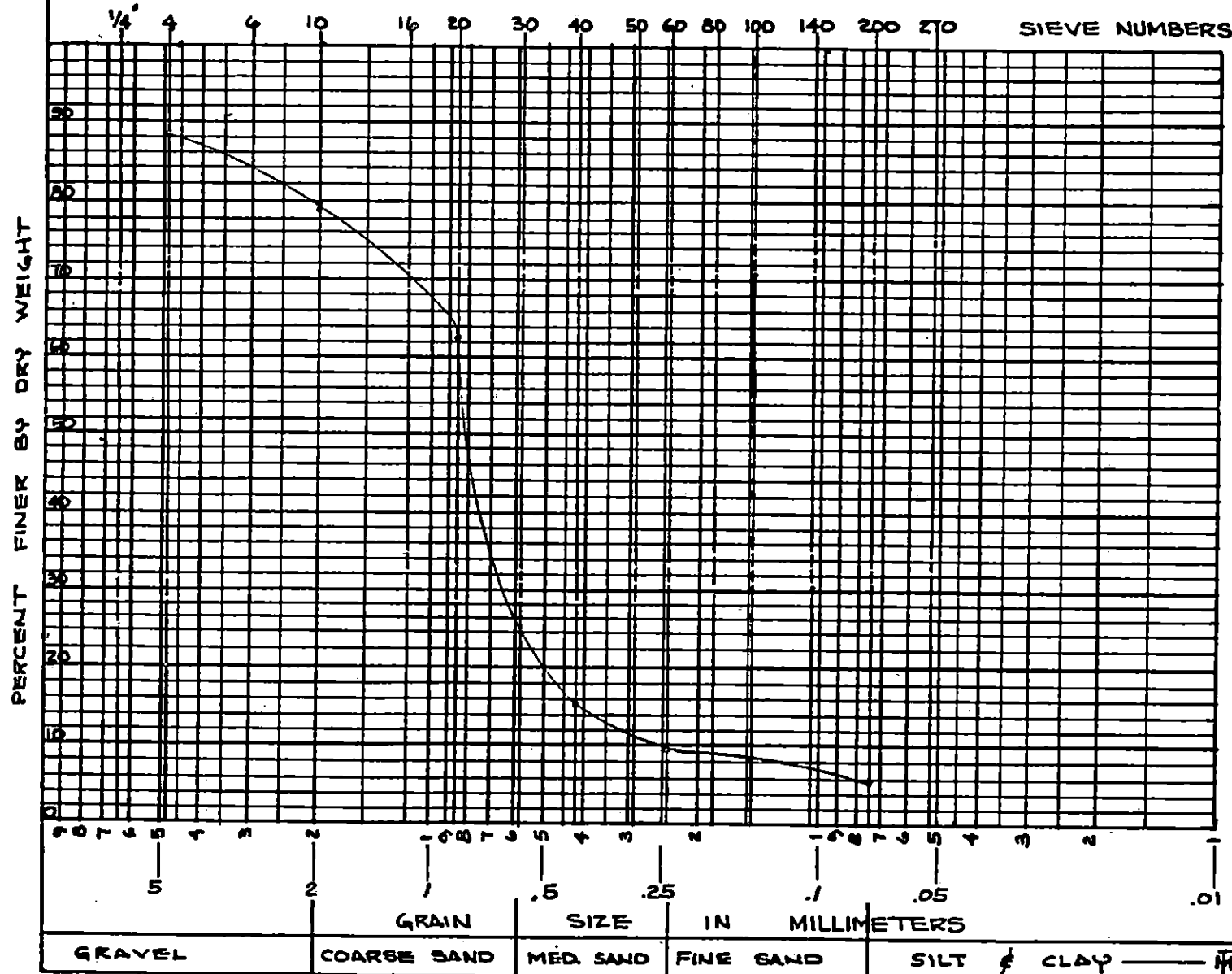
TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86

Merrick Landfill

DATE: 9/25/87

BY: JFF



M2-3B

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed P. C. [Signature]

Date 11/1/86

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M2 Location Merrick Landfill

Date 11/1/86 Sample No. M2-4 ^{MORETRENCH} Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4" DISH	6.350	14.5	1	1	1	
4	4.750	15.3	0.8	11.2	98.8	
6	3.000					
10	2.000	16.3	1.0	11.5	97.3	
16	1.190					
20	.840	21.2	4.9	101.1	891.9	
30	.590					
40	.420	42.3	21.1	32.1	42.2	571.8
50	.297					
60	.240	62.0	19.7	29.7	72.1	271.9
70	.210					
80	.177					
100	.149	72.8	10.8	16.4	88.5	111.5
140	.104					
200	.074	77.4	4.6	71.0	95.5	41.5
270	.053					
325	.044					
PAN		80.3	2.9	4.4	100.0	0.0
TOTAL			651.8	100.0		

UNIT MASS

DENSITY

LOOSE

Soil + Tare

_____ gm

H

_____ cm

_____ gm/cc

DENSE -

BLOWS

LAYERS

Tare

_____ gm

A

_____ cm

_____ PFC

H

_____ cm

_____ gm/cm

Dry Soil

_____ gm

V

_____ cm

_____ e

A

_____ cm

_____ PFC

V

_____ cm

_____ e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

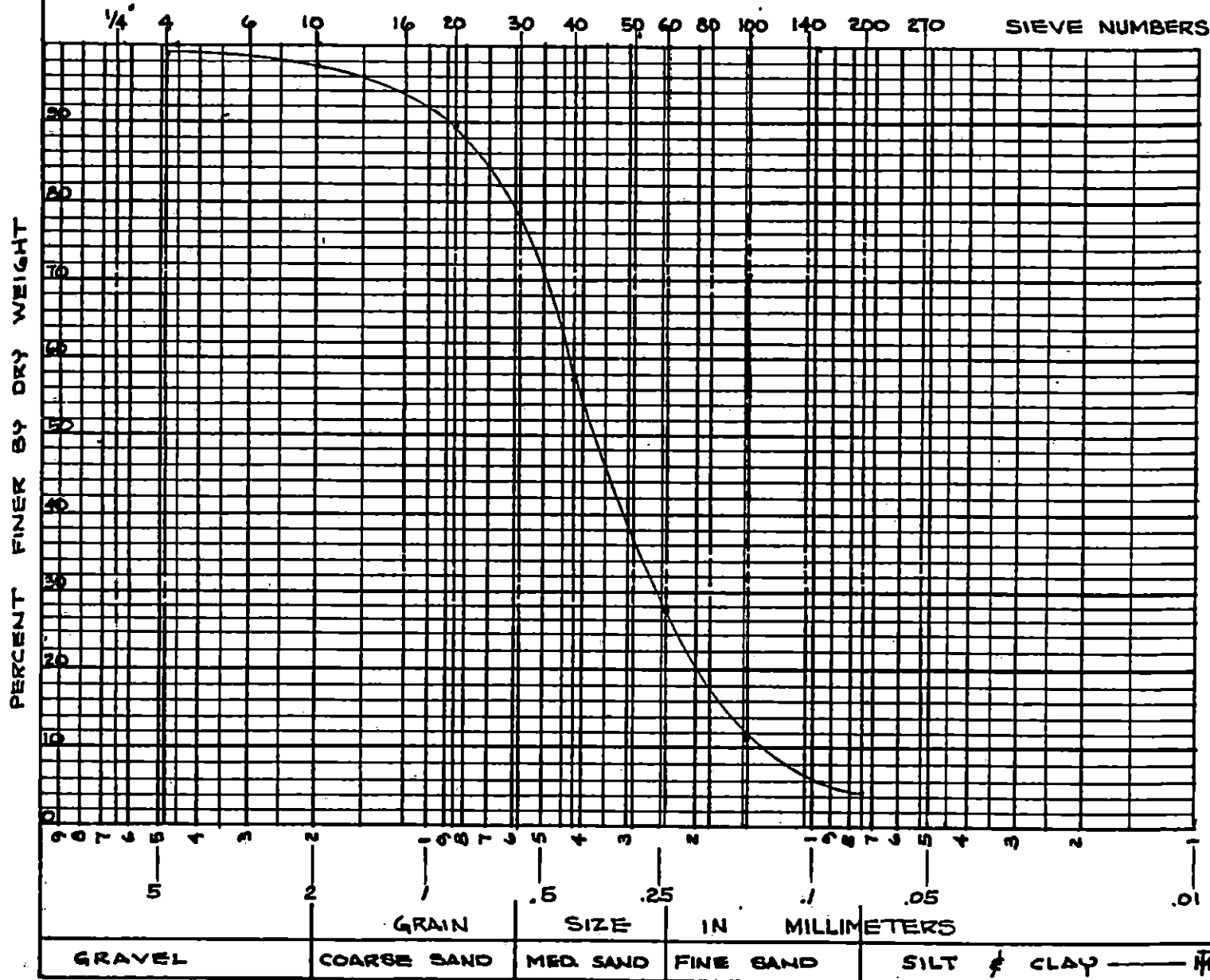
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



N12-4

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. Fullin

Date

7/22/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M2 Location Merrick Landfill

Date Sample No. 172-5 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
DISH 1/4	6.350	12.5				
4	4.750	29.5	15.0	61.9	93.1	
6	3.000					
10	2.000	42.2	12.7	51.8	87.3	
16	1.190					
20	.840	59.6	17.4	81.0	79.3	
30	.590					
40	.420	133.5	73.9	34.0	54.7	
50	.297					
60	.240	213.6	80.1	36.8	91.5	
70	.210					
80	.177					
100	.149	229.5	15.9	71.3	98.8	
140	.104					
200	.074	231.3	11.8	01.8	99.6	
270	.053					
325	.044					
PAN		231.9	01.6	01.3	100.0	
TOTAL		217.4	100.0			

UNIT MASS

DENSITY

LOOSE

DENSE

BLOWS

LAYERS

Soil + Tare

gm

H

cm

γ

gm/cc

γ_m

PFC

γ

cm²

γ

cm³

γ_m

PFC

γ

cm²

γ

cm³

γ_m

PFC

Tare

gm

A

cm

γ

gm/cc

γ_m

PFC

γ

cm²

γ

cm³

γ_m

PFC

γ

cm²

γ

cm³

γ_m

PFC

Dry Soil

gm

V

cm

γ

gm/cc

γ_m

PFC

γ

cm²

γ

cm³

γ_m

PFC

γ

cm²

γ

cm³

γ_m

PFC

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

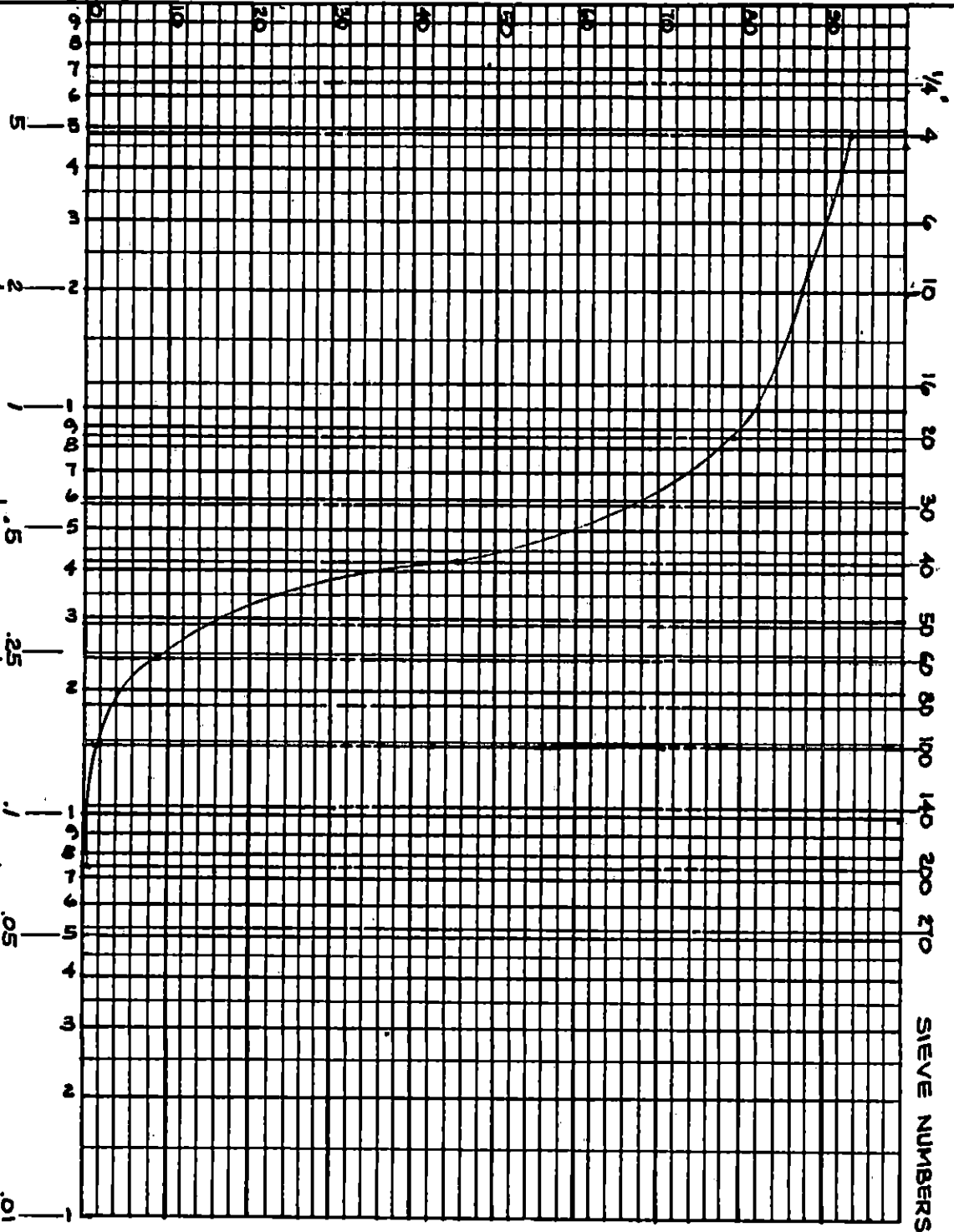
JOB: Town of Hempstead PW-58-86

Merrick Landfill

DATE: 9/22/87

BY: JSK

PERCENT FINER BY DRY WEIGHT



M2-5

GRAVEL COARSE SAND MED SAND FINE SAND SILT & CLAY ——— PTA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. Fullin

Date

2/27/64

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no.

M2

Location

Merrick Landfill

Date

Sample No. M2-6 Top Datum

Depth

Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
015H 1/4	6.350	14.5				
4	4.750	23.7	91.2	31.1	96.9	
6	3.000					
10	2.000	26.7	3.0	41.1	951.9	
16	1.190					
20	.840	45.5	18.8	61.4	101.5	891.5
30	.590					
40	.420	130.9	85.4	29.2	39.7	601.3
50	.297					
60	.240	272.6	141.7	48.4	88.1	111.9
70	.210					
80	.177					
100	.149	301.0	281.4	9.7	97.8	21.2
140	.104					
200	.074	306.0	51.0	11.7	99.5	01.5
270	.053					
325	.044					
PAN		307.4	11.4	01.5	100.0	0.0
TOTAL			2921.9	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE

ELOWS

LAYERS

Soil +Tare

gm

H

cm

γ

gm/cc

H

cm

γ

gm/cc

γ_m

PFC

Tare

gm

A

cm

γ_m

PFC

A

cm

γ_m

PFC

γ_m

PFC

Dry Soil

gm

V

cm

γ_c

V

cm

γ_c

γ_c

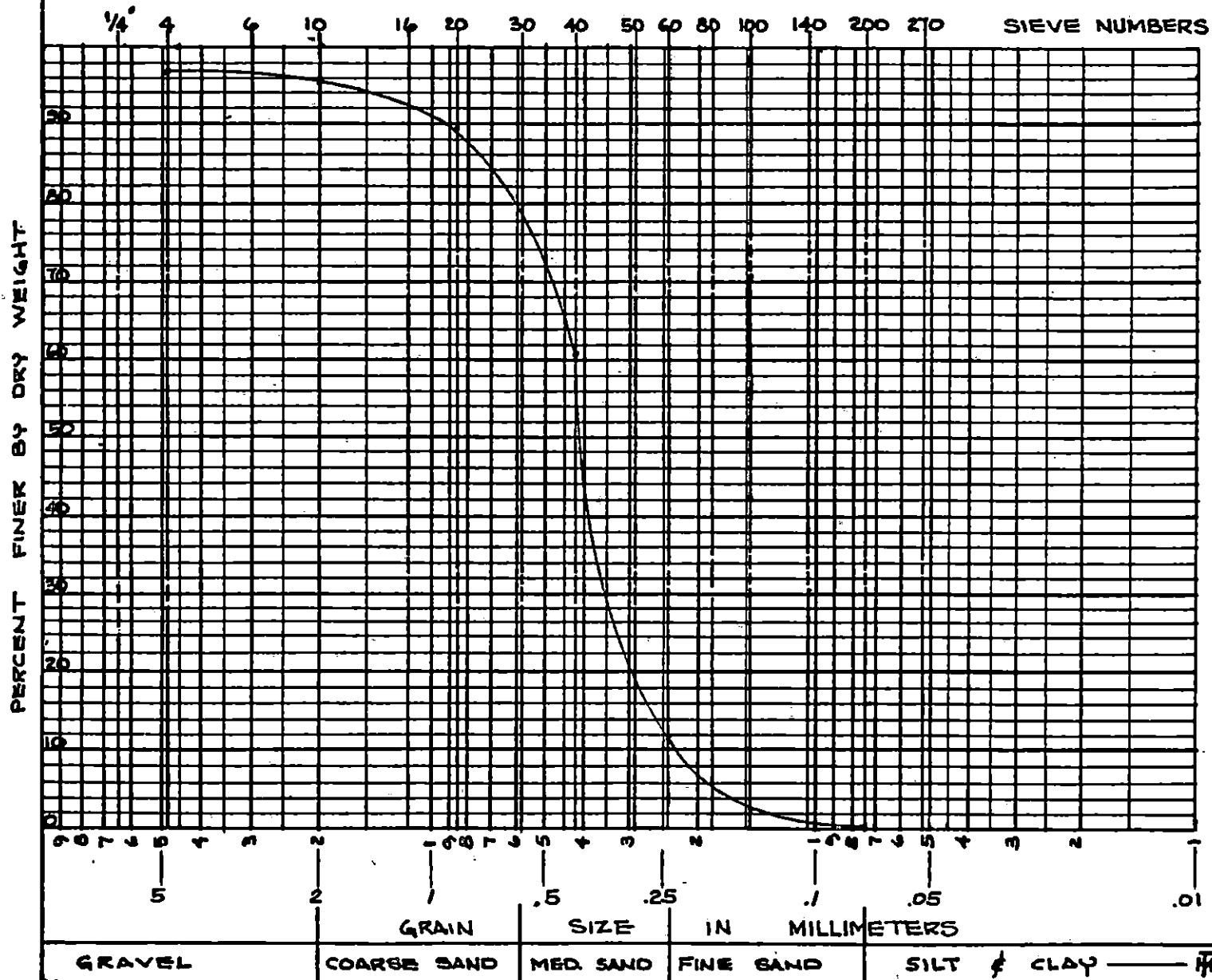
COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

BY: JFF



I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. F. [Signature]

Date 7/27/67

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M2 Location Merrick Landfill

Date 7/27/67 Sample No. M2-7A Top Datum Depth Sample El.

	U. S. Test Sieve no.	Size MM	Weight Retained		% Retained	Total % Retained	% Finer	Notes
Coarse P Medium G Gravel	P/S # 1/4	6.350	11.5					
	4	4.750	28.9	14.4	81.5	81.5	91.5	
	6	3.000						
	10	2.000	48.4	19.5	11.6	201.1	791.9	
	16	1.190						
Coarse Sand	20	.840	66.7	18.3	10.8	301.9	691.1	
	30	.590						
	40	.420	110.4	43.7	25.9	56.8	431.2	
Medium Sand	50	.297						
	60	.250	168.8	58.4	34.6	91.4	81.6	
	70	.210						
Fine Sand	80	.177						
	100	.149	181.6	121.8	7.6	99.0	110	
	140	.104						
Fines V F S	200	.074	182.8	11.2	0.7	99.7	01.3	
	270	.053						
	325	.044						
Fines PAN			183.3	01.5	0.3	100.0	0.0	
TOTAL				1681.8	100.0			

UNIT MASS		DENSITY	LOOSE		DENSE - BLOWS		LAYERS	
Soil + Tare	gm		H	cm	H	cm	H	cm
Tare	gm		A	cm	A	cm	A	cm
Dry Soil	gm		V	cm	V	cm	V	cm

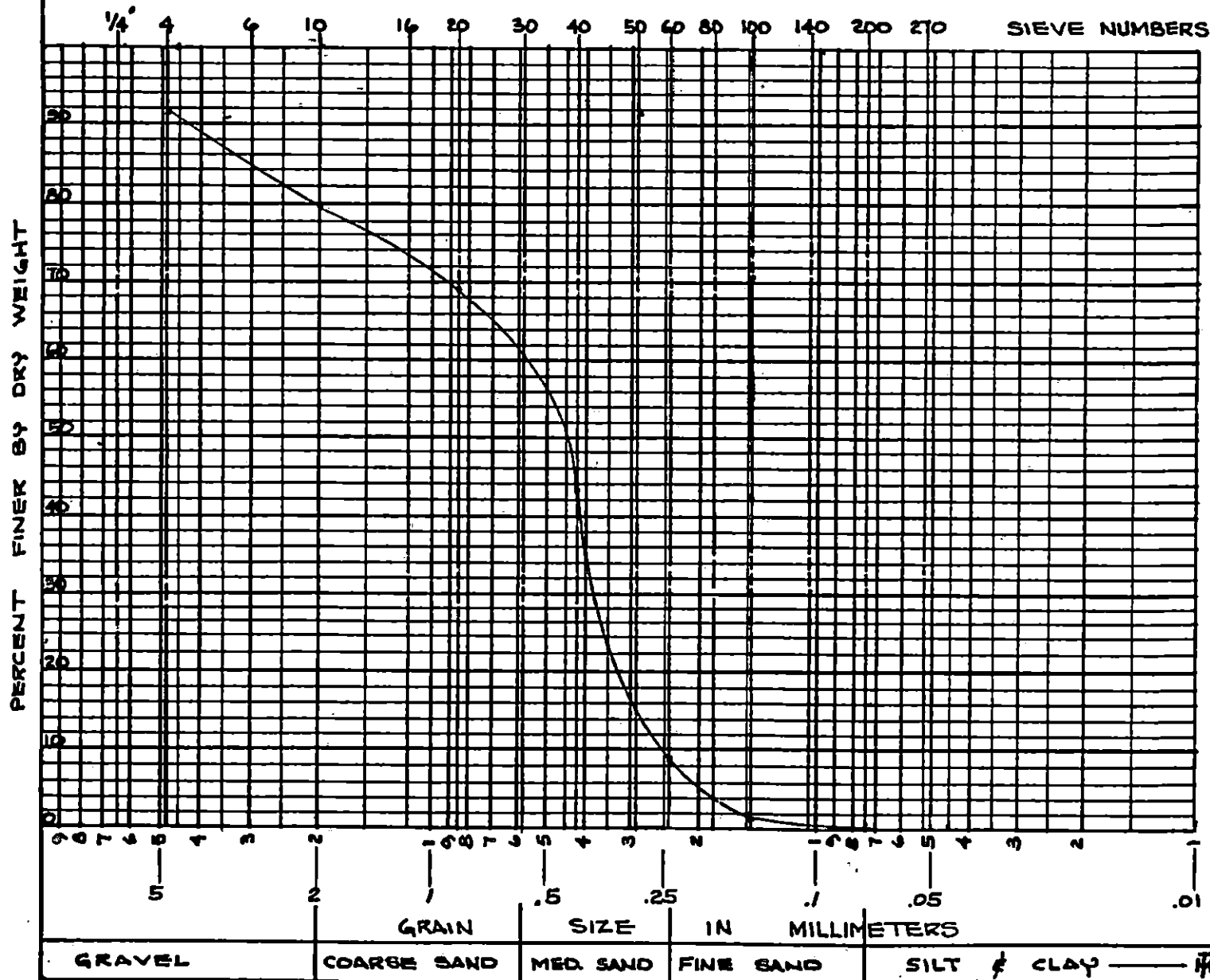
COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

Merrick Landfill

BY: JFF



I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

9/22/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M3 Location Merrick Landfill

Date Sample No. 143-1 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
DISH 1/4	6.350	14.5				
4	4.750					
6	3.000					
10	2.000	16.5	2.0	11.1	981.9	
16	1.190					
20	.840	38.1	21.6	11.6	121.7	971.3
30	.590					
40	.420	106.4	68.3	36.7	49.4	501.6
50	.297					
60	.250	149.7	42.3	23.3	72.7	271.3
70	.210					
80	.177	158.2	9.0	4.8	77.5	221.5
100	.149	161.7	31.0	1.6	79.1	201.9
140	.104	164.5	21.8	1.6	80.6	191.4
200	.074	169.8	51.3	21.8	83.4	61.6
270	.053					
325	.044					
PAN		200.7	301.9	161.6	100.0	0.0
TOTAL			1861.2	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE

BLOWS

LAYERS

Soil + Tare

gm

H

cm

γ

gm/cc

H

cm

γ

gm/cm

Tare

gm

A

cm²

γ_m

PFC

A

cm²

γ_m

PFC

Dry Soil

gm

V

cm³

"e"

V

cm³

"e"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

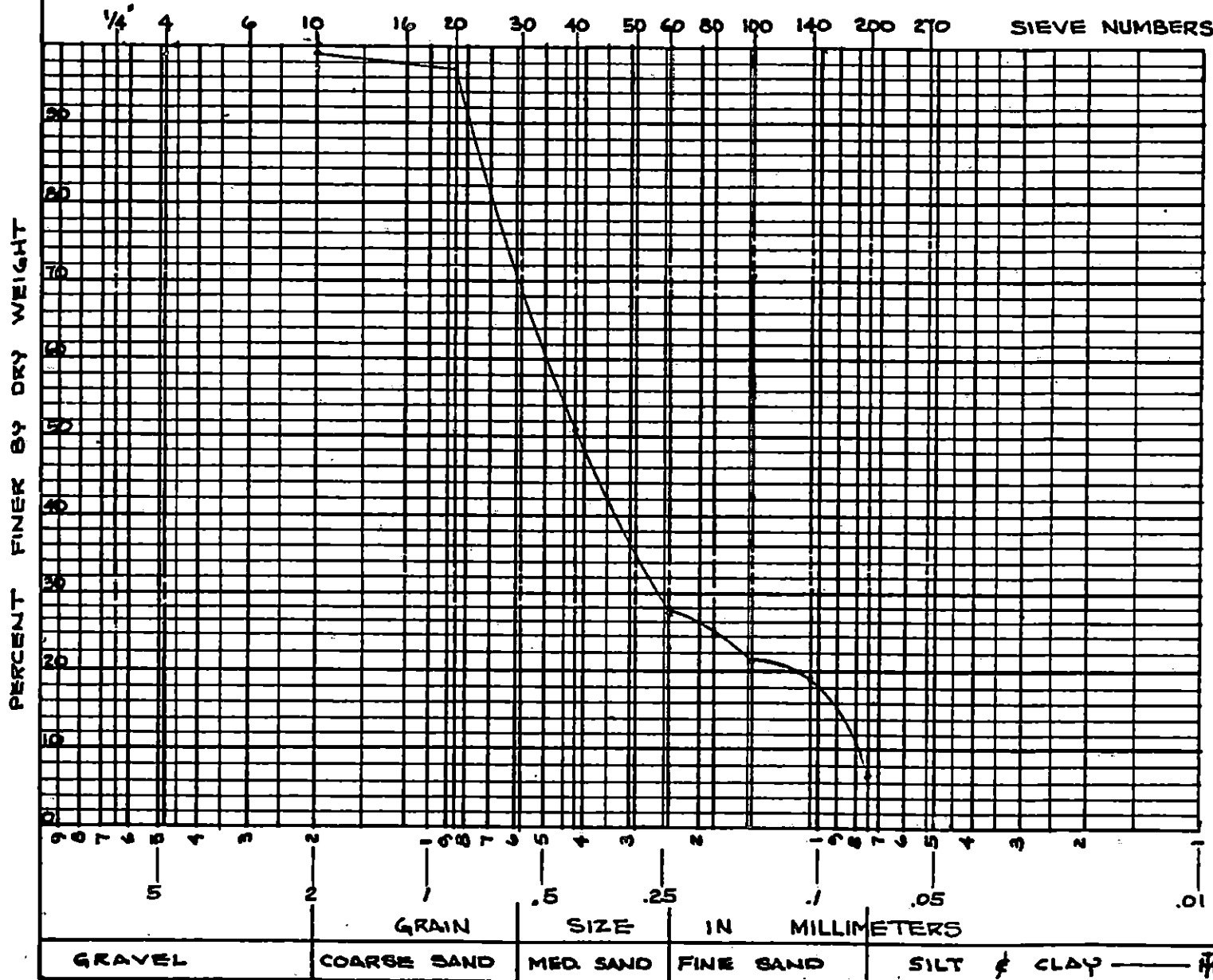
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



M3-1

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed [Signature]

Date 9/7/86

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M3 Location Merrick Landfill

Date 9/7/86 Sample No. M3-2 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
P15H 1/4	6.350	14.5				
4	4.750	55.5	87.0	131.0	87.0	
6	3.000					
10	2.000	89.5	34.0	101.8	761.2	
16	1.190					
20	.840	141.2	51.7	161.4	401.2	591.8
30	.590					
40	.420	248.6	107.4	341.0	74.2	251.8
50	.297					
60	.250	307.8	59.2	181.7	92.9	71.1
70	.210					
80	.177					
100	.149	321.8	141.0	41.4	97.3	21.7
140	.104					
200	.074	327.2	51.4	11.7	99.0	11.0
270	.053					
325	.044					
PAN		330.5	31.3	11.0	100.0	0.0
TOTAL			316.0	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	e

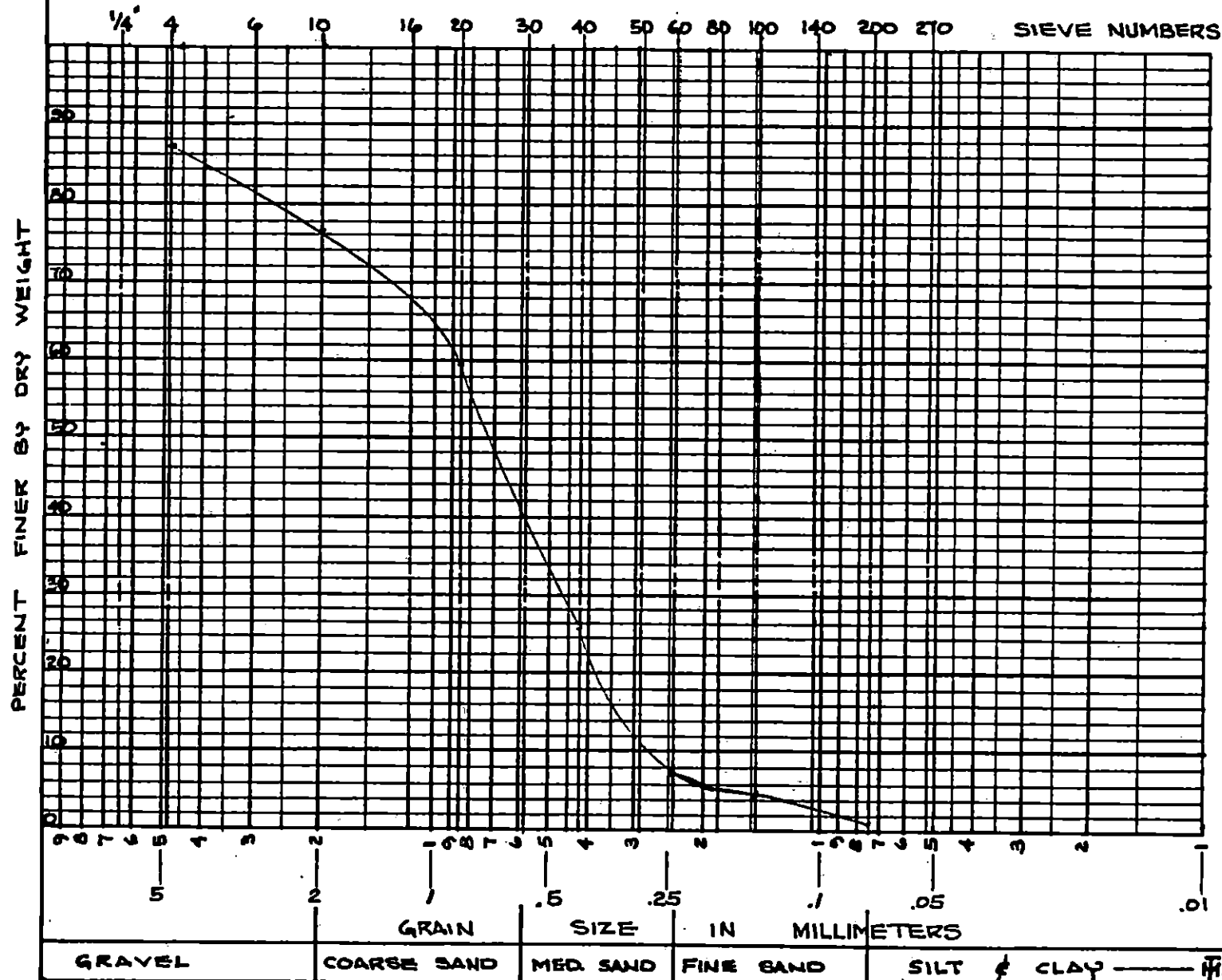
COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

dewatering systems and services

JOB: Town of Hempstead PW-58-86
Merrick Landfill

BY: JFF



I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M3 Location Merrick Landfill

Date Sample No. M3-3 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.1				
4	4.750	17.7	31.6	51.1	94.9	
6	3.000					
10	2.000	26.9	91.2	181.1	811.9	
16	1.190					
20	.840	36.5	91.6	131.6	681.3	
30	.590					
40	.420	48.3	111.8	161.7	481.4	
50	.297					
60	.240	68.0	191.7	271.8	761.2	
70	.210					
80	.177					
100	.149	78.6	101.6	151.0	911.2	
140	.104					
200	.074	82.4	31.8	51.4	961.6	
270	.053					
325	.044					
PAN		84.9	21.5	31.5	1001.0	010
TOTAL			701.8	1001.0		

UNIT MASS

DENSITY

LOOSE

DENSE

ELOWS

LAYERS

Soil + Tare

gm

H

cm

g

gm/cc

H

cm

g

gm/cm

Tare

gm

A

cm

g

PFC

A

cm

g

PFC

Dry Soil

gm

V

cm

e

V

cm

e

e

COLOR

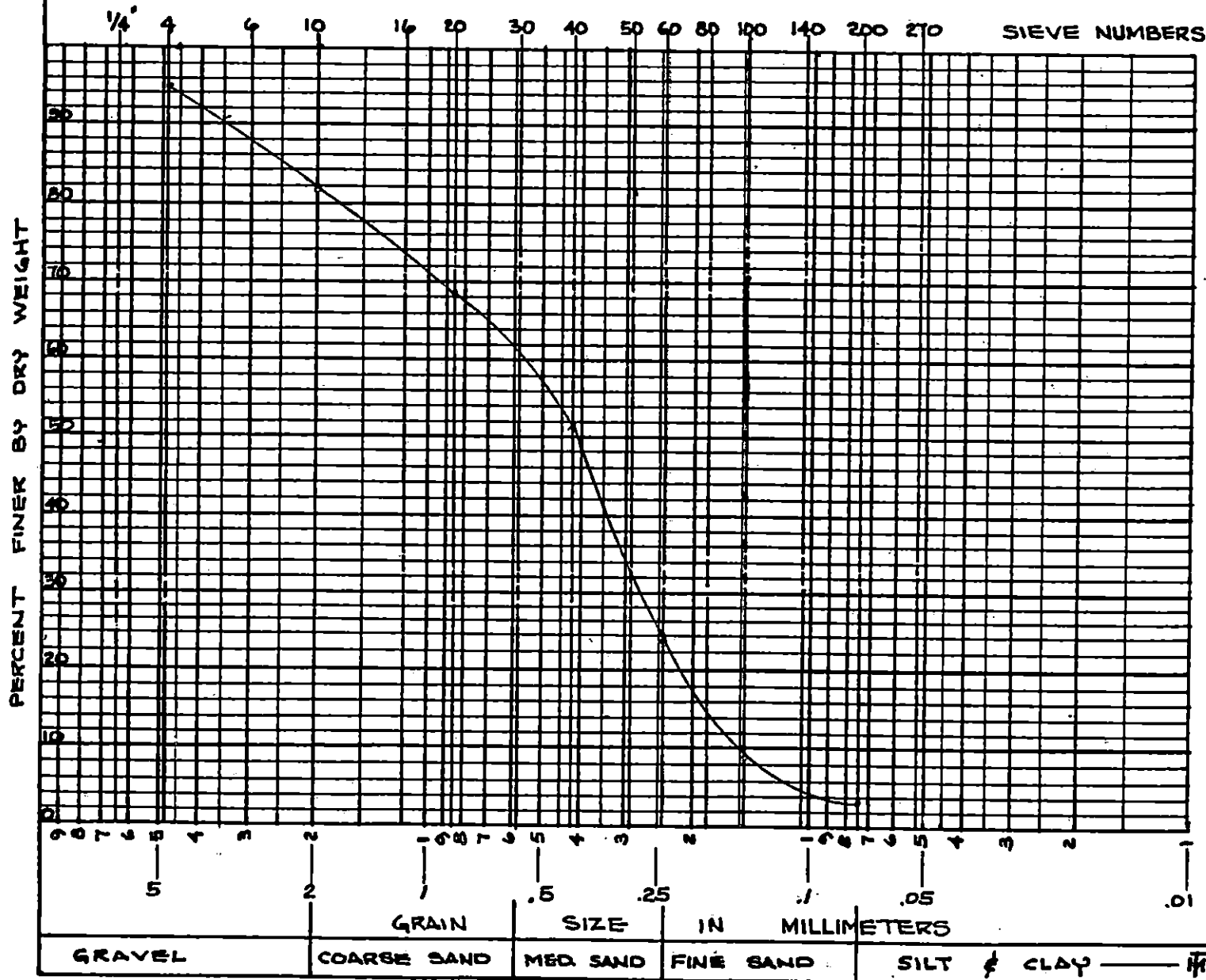
AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

dewatering systems and services

JOB: Town of Hempstead PW-58-86
Merrick Landfill

BY: JFF



I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. J. J. J.

Date 7-12-1987

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M3 Location Merrick Landfill

Date 7-12-1987 Sample No. M3-4 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
4	4.750	19.7	5.2	21.2	97.8	
6	3.000					
10	2.000	26.3	6.6	27.8	95.0	
16	1.190					
20	.840	45.9	19.6	81.4	86.6	
30	.590					
40	.420	139.0	93.1	131.5	46.5	
50	.297					
60	.250	224.2	85.2	216.7	91.8	
70	.210					
80	.177					
100	.149	242.2	181.0	279.8	21.0	
140	.104					
200	.074	245.4	31.2	311.4	0.6	
270	.053					
325	.044					
PAN		246.5	11.1	322.5	0.0	
TOTAL		2321.0	100.0			

UNIT MASS

DENSITY

LOOSE

DENSE

BLOWS

LAYERS

Soil + Tare

gm

H

cm

γ

gm/cc

H

cm

γ

gm/cm

Tare

gm

A

cm²

γ_m

PFC

A

cm²

γ_m

PFC

Dry Soil

gm

V

cm³

γ_c

V

cm³

γ_c

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

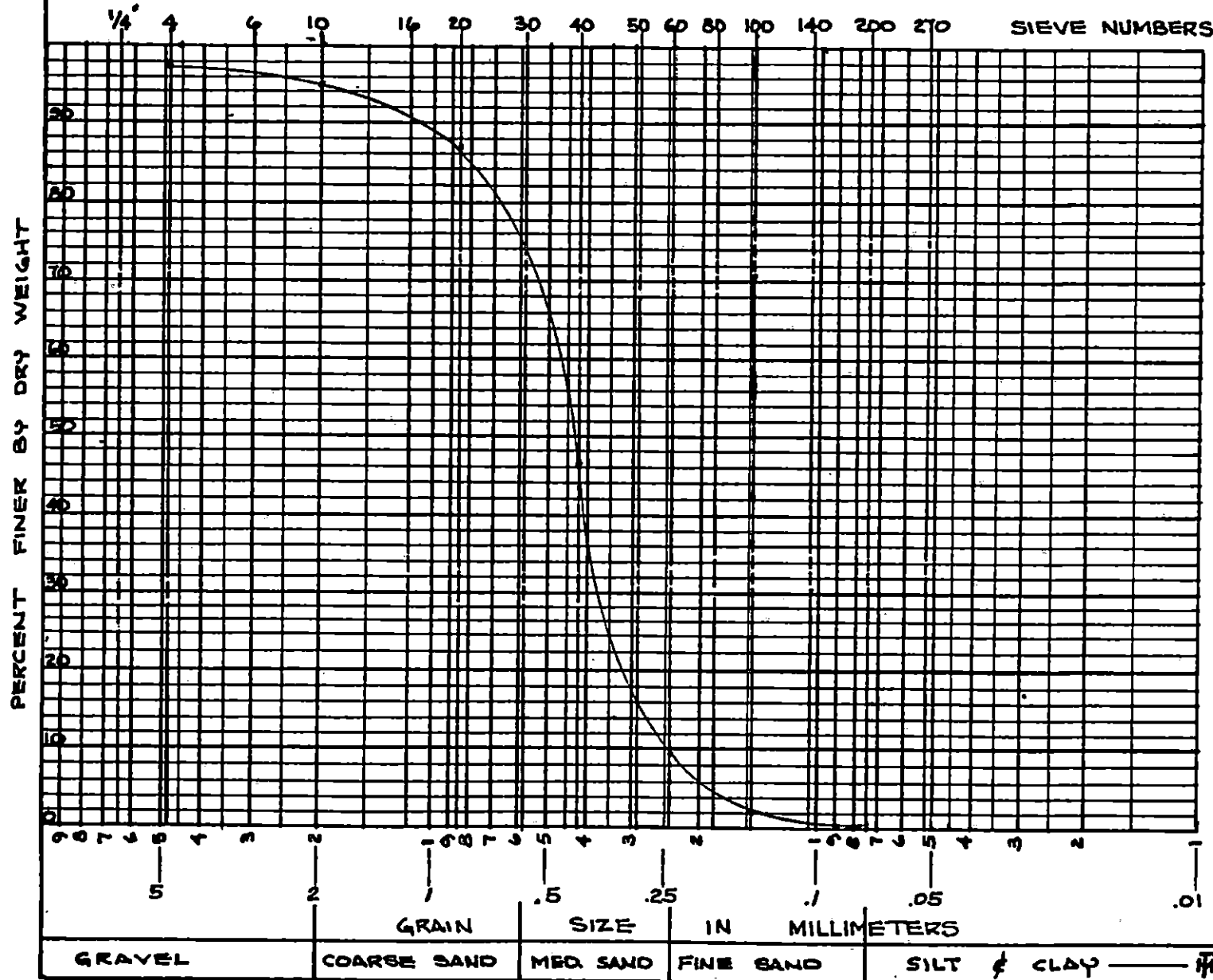
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. F. Sullivan

Date

7/27/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no.

M3

Location

Merrick Landfill

Date

Sample No.

M3-5

Top Datum

Depth

Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4"	6.350	14.5	1	1	1	
4	4.750	23.9	81.9	41.0	96.0	
6	3.000					
10	2.000	33.6	10.2	41.6	91.4	
16	1.190					
20	.840	43.3	9.7	41.3	87.1	
30	.590					
40	.420	116.7	73.4	32.9	45.8	
50	.297					
60	.250	207.7	91.0	40.8	86.6	
70	.210					
80	.177					
100	.149	230.2	22.5	10.1	96.7	
140	.104					
200	.074	236.0	5.8	2.6	99.3	
270	.053					
325	.044					
PAN		237.8	1.8	0.8	100.0	0.0
TOTAL			223.3	100.0		

UNIT MASS
Soil + Tare
Tare
Dry Soil

DENSITY
gm
gm
gm

LOOSE
H
A
V

cm
cm
cm
gm/cc
PFC
e

DENSE - BLOWS
H
A
V
cm
cm
cm

LAYERS
gm/cm
PFC
e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

dewatering systems and services

TELEX: 136446, MORETRENCH ROCKAWAY, NEW JERSEY

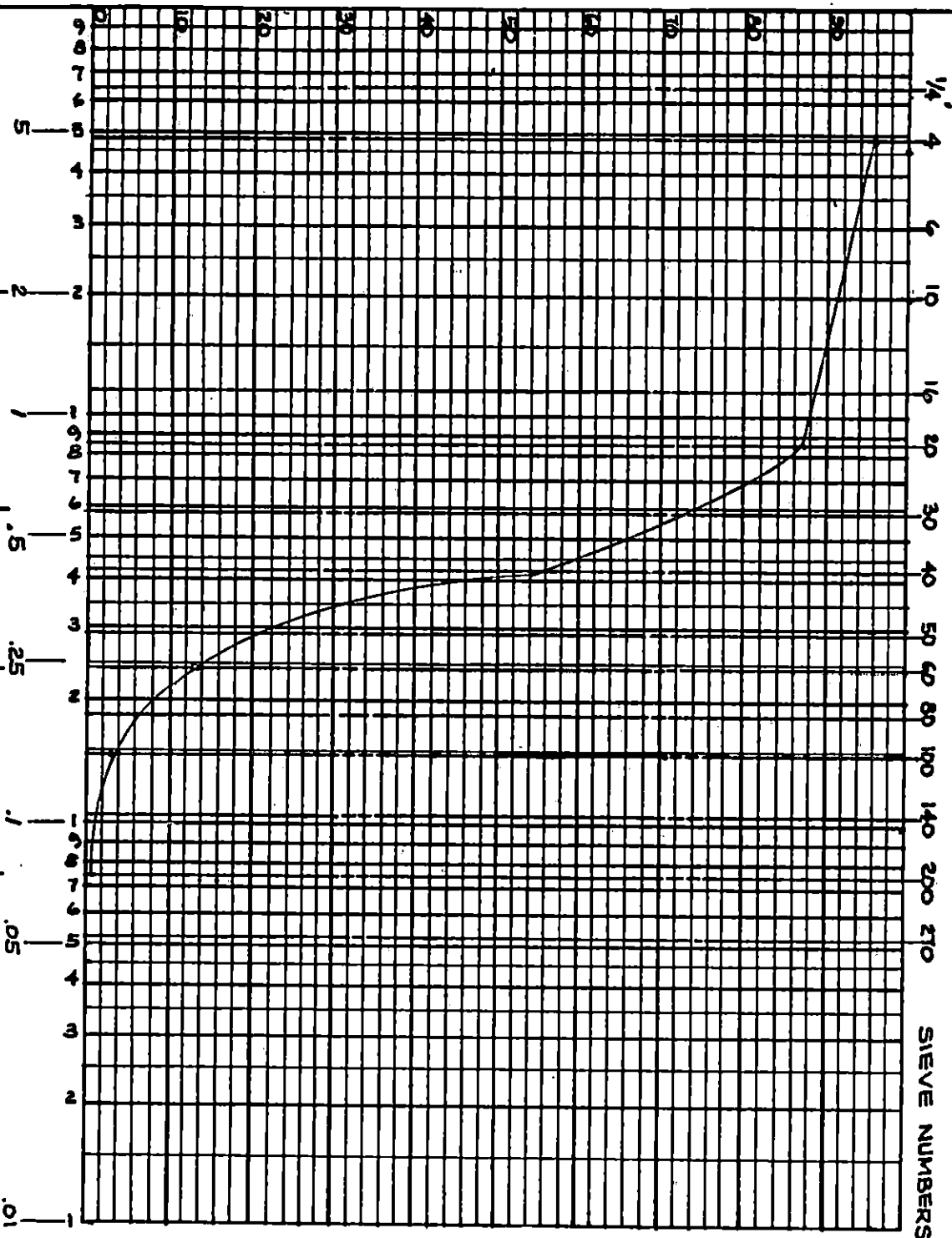
JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFS

M 3-5

PERCENT FINER BY DRY WEIGHT



GRAVEL COARSE SAND MED SAND FINE SAND SILT & CLAY ——— IFA CLASSIFICATION

GRAIN SIZE IN MILLIMETERS

5 2 1 .5 .25 .1 .05 .01

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. P. [Signature]

Date 10/15/57

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor _____

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil _____

Boring no. M3 Location Merrick Landfill

Date _____ Sample No. M3-6 Top Datum _____ Depth _____ Sample El. _____

	U. S. Test Sieve no.	Size MM	Weight Retained		% Retained	Total % Retained	% Finer	Notes
Coarse F Medium G Gravel	1/2"	6.350	14.5	1	1	1	1	
	4	4.750	17.7	31.2	11.6	11.6	98.4	
	6	3.000						
	10	2.000	24.0	61.3	31.1	41.7	951.3	
	16	1.190						
Coarse Sand	20	.840	93.7	191.7	91.8	141.5	851.5	
	30	.590						
	40	.420	133.4	891.7	44.6	591.1	401.9	
Medium Sand	50	.297						
	60	.240	201.7	681.3	33.9	931.0	71.0	
	70	.210						
Fine Sand	80	.177						
	100	.149	214.0	121.3	61.1	991.1	01.9	
	140	.104						
Fines VF S	200	.074	215.4	11.4	01.7	991.8	01.2	
	270	.053						
	325	.044						
Fines	PAR		215.7	01.3	01.1	1001.0	01.0	
TOTAL				201.2	1001.0			

UNIT MASS	DENSITY	LOOSE		DENSE - BLOWS	LAYERS
Soil +Tare _____ gm		H _____ cm	γ _____ gm/cc	H _____ cm	γ _____ gm/cm
Tare _____ gm		A _____ cm	γ_m _____ PFC	A _____ cm	γ_m _____ PFC
Dry Soil _____ gm		V _____ cm	e _____	V _____ cm	e _____

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

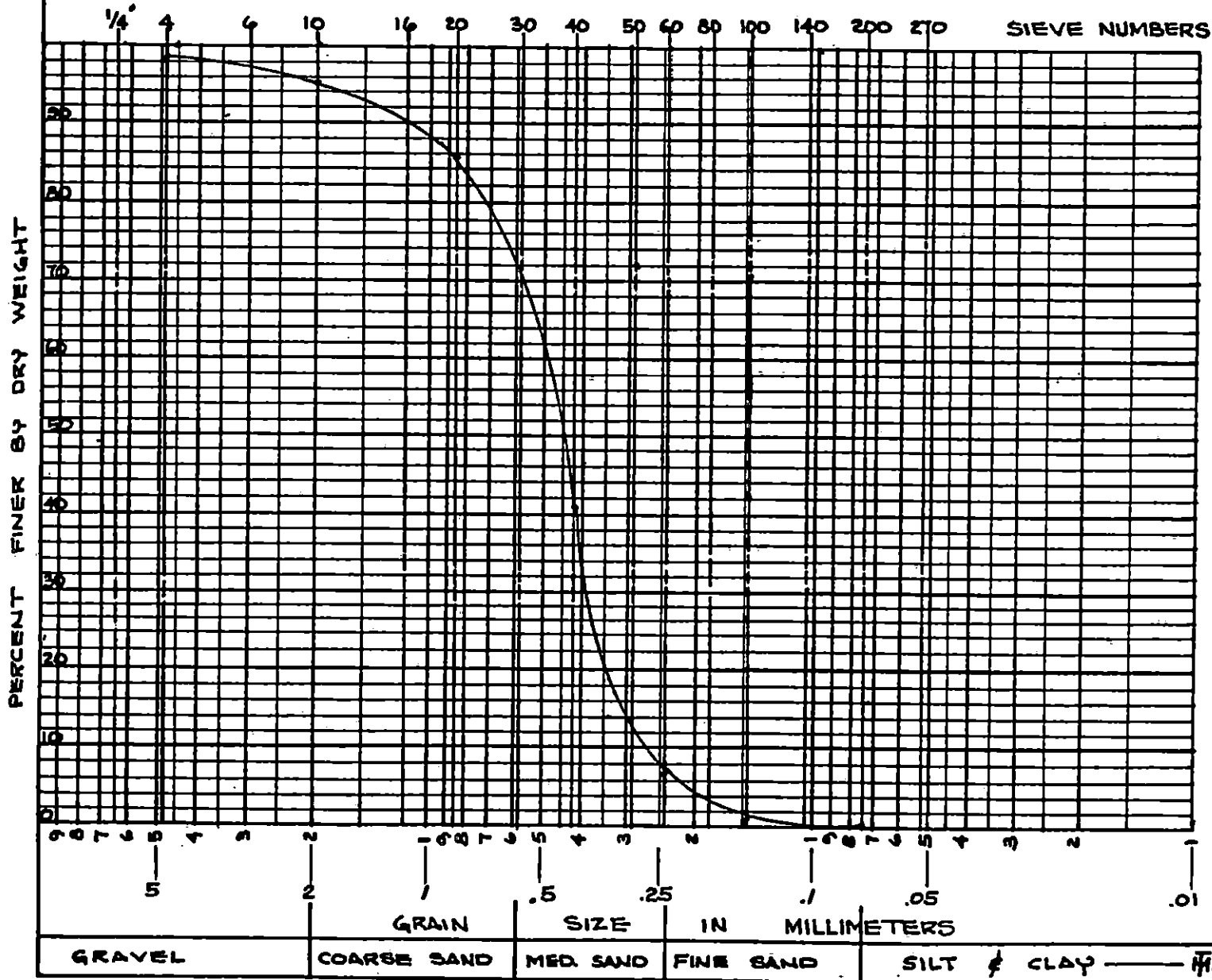
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M3-6

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. Fuller

Date 9/22/82

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M3 Location Merrick Landfill

Date	Sample No.	Top Datum	Depth	Sample El.			
U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes	
<u>DISH</u> <u>1/4</u>	<u>6.350</u>	<u>14.5</u>	<u>1</u>	<u>1</u>	<u>1</u>		
Coarse F Medium G Gravel	<u>4</u>	<u>4.750</u>	<u>39.0</u>	<u>24.5</u>	<u>11.9</u>	<u>11.9</u>	<u>88.1</u>
	<u>6</u>	<u>3.000</u>					
	<u>10</u>	<u>2.000</u>	<u>69.0</u>	<u>30.0</u>	<u>14.5</u>	<u>26.4</u>	<u>73.6</u>
	<u>16</u>	<u>1.190</u>					
Coarse Sand	<u>20</u>	<u>.840</u>	<u>99.2</u>	<u>30.2</u>	<u>14.6</u>	<u>41.0</u>	<u>59.0</u>
	<u>30</u>	<u>.590</u>					
	<u>40</u>	<u>.420</u>	<u>135.8</u>	<u>36.6</u>	<u>17.7</u>	<u>58.7</u>	<u>41.3</u>
Medium Sand	<u>50</u>	<u>.297</u>					
	<u>60</u>	<u>.240</u>	<u>170.3</u>	<u>34.5</u>	<u>16.7</u>	<u>75.4</u>	<u>24.6</u>
	<u>70</u>	<u>.210</u>					
Fine Sand	<u>80</u>	<u>.177</u>					
	<u>100</u>	<u>.149</u>	<u>793.3</u>	<u>23.0</u>	<u>11.1</u>	<u>86.5</u>	<u>13.5</u>
	<u>140</u>	<u>.104</u>					
	<u>200</u>	<u>.074</u>	<u>202.0</u>	<u>13.7</u>	<u>6.6</u>	<u>93.1</u>	<u>6.9</u>
Fines V F S	<u>270</u>	<u>.053</u>					
	<u>325</u>	<u>.044</u>					
	<u>PAN</u>		<u>221.0</u>	<u>14.0</u>	<u>6.8</u>	<u>100.0</u>	<u>0.0</u>
TOTAL			<u>2061.5</u>	<u>100.0</u>			

UNIT MASS	DENSITY	LOOSE	DENSE - FLOWS	LAYERS
Soil + Tare	_____ gm	H _____ cm ³	H _____ cm ³	H _____ gm/cm ³
Tare	_____ gm	A _____ cm ³	A _____ cm ³	A _____ gm/cm ³
Dry Soil	_____ gm	V _____ cm ³	V _____ cm ³	V _____ gm/cm ³

COLOR _____ AVE. GRAIN SHAPE _____

MINERALOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

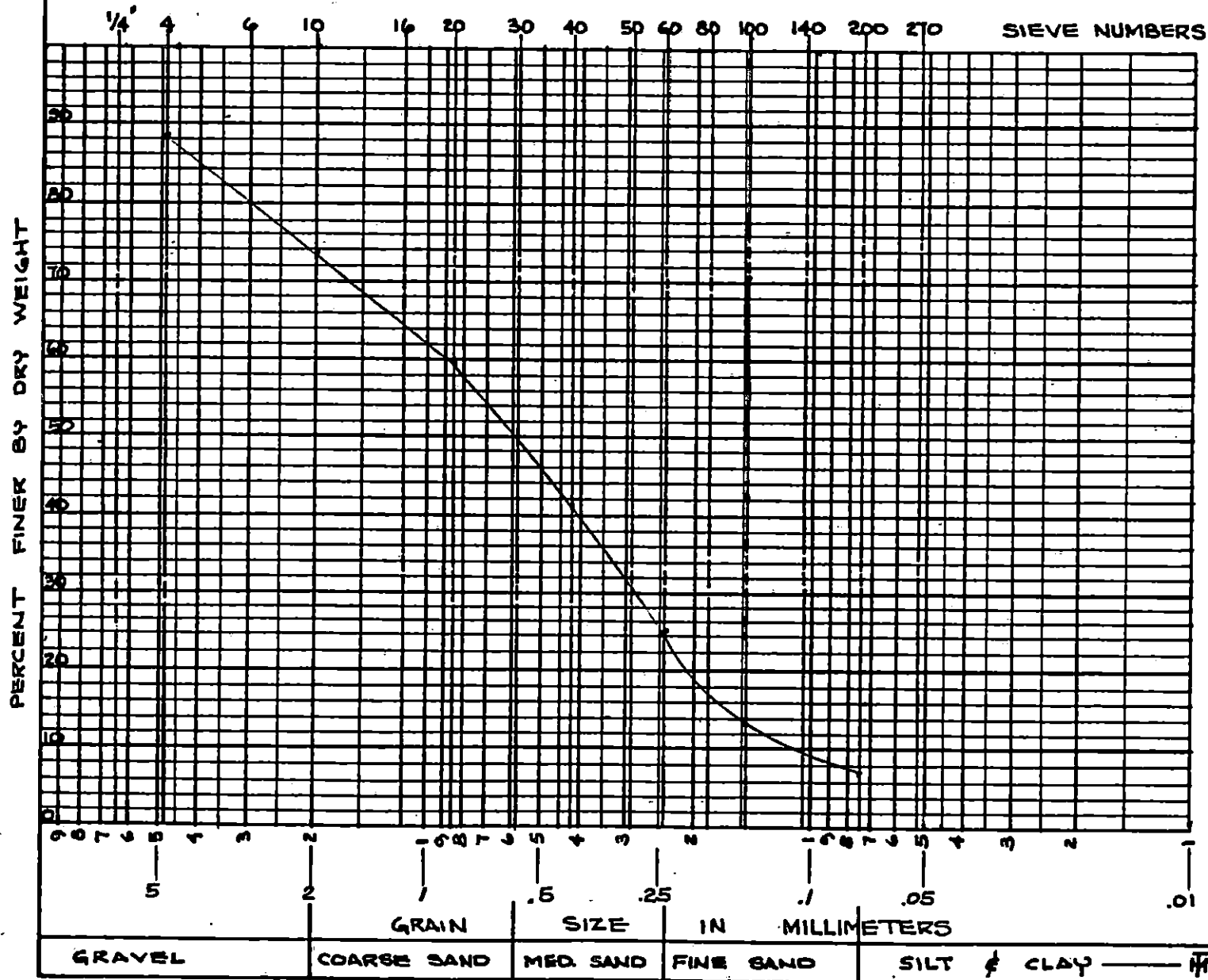
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M3-7

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

[Signature]

Date

9-17

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M3 Location Merrick Landfill

Date Sample No. M3-8 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	WEIGHT Retained	% Retained	Total % Retained	% Finer	Notes
DISH 1/4	6.350	19.1				
4	4.750	31.7	17.6	51.8	94.2	
6	3.000					
10	2.000	61.0	29.3	9.6	15.4	89.6
16	1.190					
20	.840	99.1	33.1	10.9	26.3	73.7
30	.590					
40	.420	151.8	57.7	18.9	45.2	54.8
50	.297					
60	.240	204.6	52.8	17.3	62.5	37.5
70	.210					
80	.177					
100	.149	265.9	61.3	20.1	82.6	17.4
140	.104					
200	.074	295.7	30.0	9.8	92.4	7.6
270	.053					
325	.044					
PAN		318.7	22.8	7.5	100.0	0.0
TOTAL		3041.6	100.0			

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	H	H
Tare	gm	A	A	A
Dry Soil	gm	V	V	V

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

dewatering systems and services

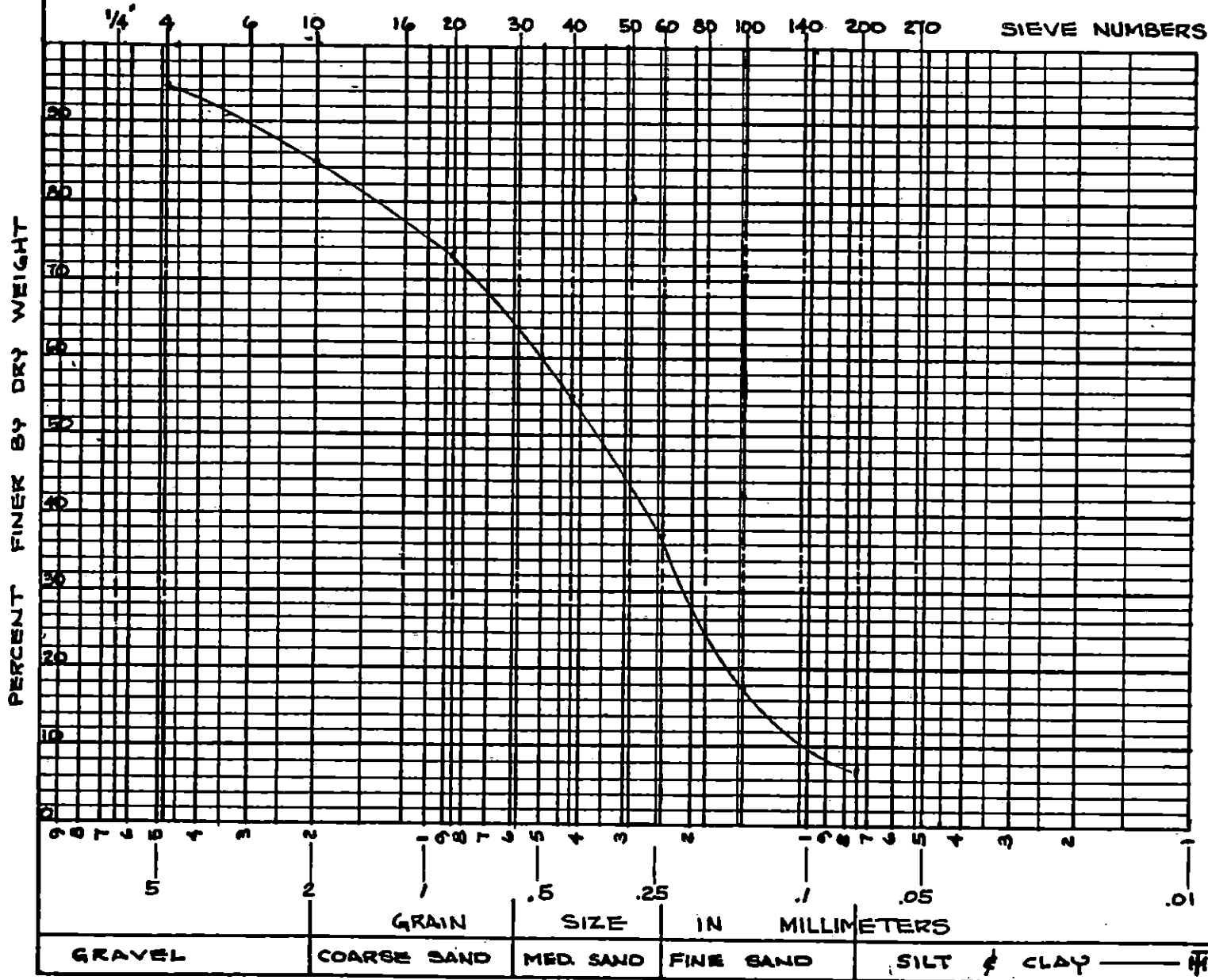
TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86

Merrick Landfill

DATE: 9/22/87

BY: JFF



M3-8

MORETRENCH AMERICAN CORPORATION

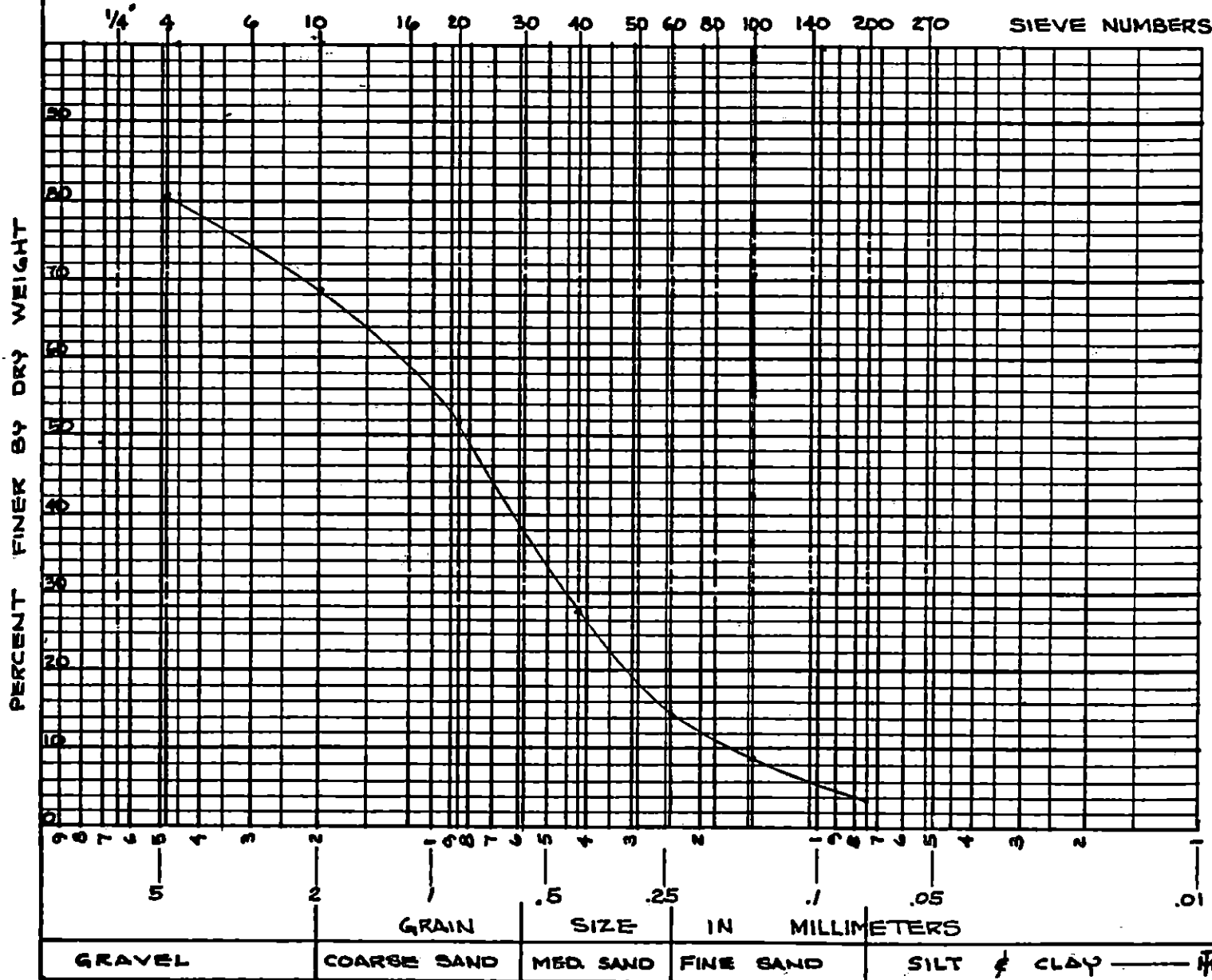
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M4-1

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M4 Location Merrick Landfill

Date Sample No. 14-2 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
4	4.750	30.0	15.3	9.7	90.3	
6	3.000					
10	2.000	38.9	8.9	5.6	15.3	84.7
16	1.190					
20	.840	55.5	16.6	10.5	25.8	74.2
30	.590					
40	.420	73.6	18.1	11.4	37.2	62.8
50	.297					
60	.240	131.6	58.0	36.6	73.8	26.2
70	.210					
80	.177					
100	.149	166.9	35.3	22.3	96.1	3.9
140	.104					
200	.074	172.2	5.3	3.3	99.4	0.6
270	.053					
325	.044					
PAN		173.1	0.9	0.6	100.0	0.0
TOTAL			158.4	100.0		

UNIT MASS
Soil + Tare
Tare
Dry Soil

DENSITY
gm
gm
gm

LOOSE

H cm γ gm/cc
A cm γ_m PFC
V cm e

DENSE - BLOWS

H cm γ gm/cc
A cm γ_m PFC
V cm e

LAYERS

gm/cc
PFC
 e

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

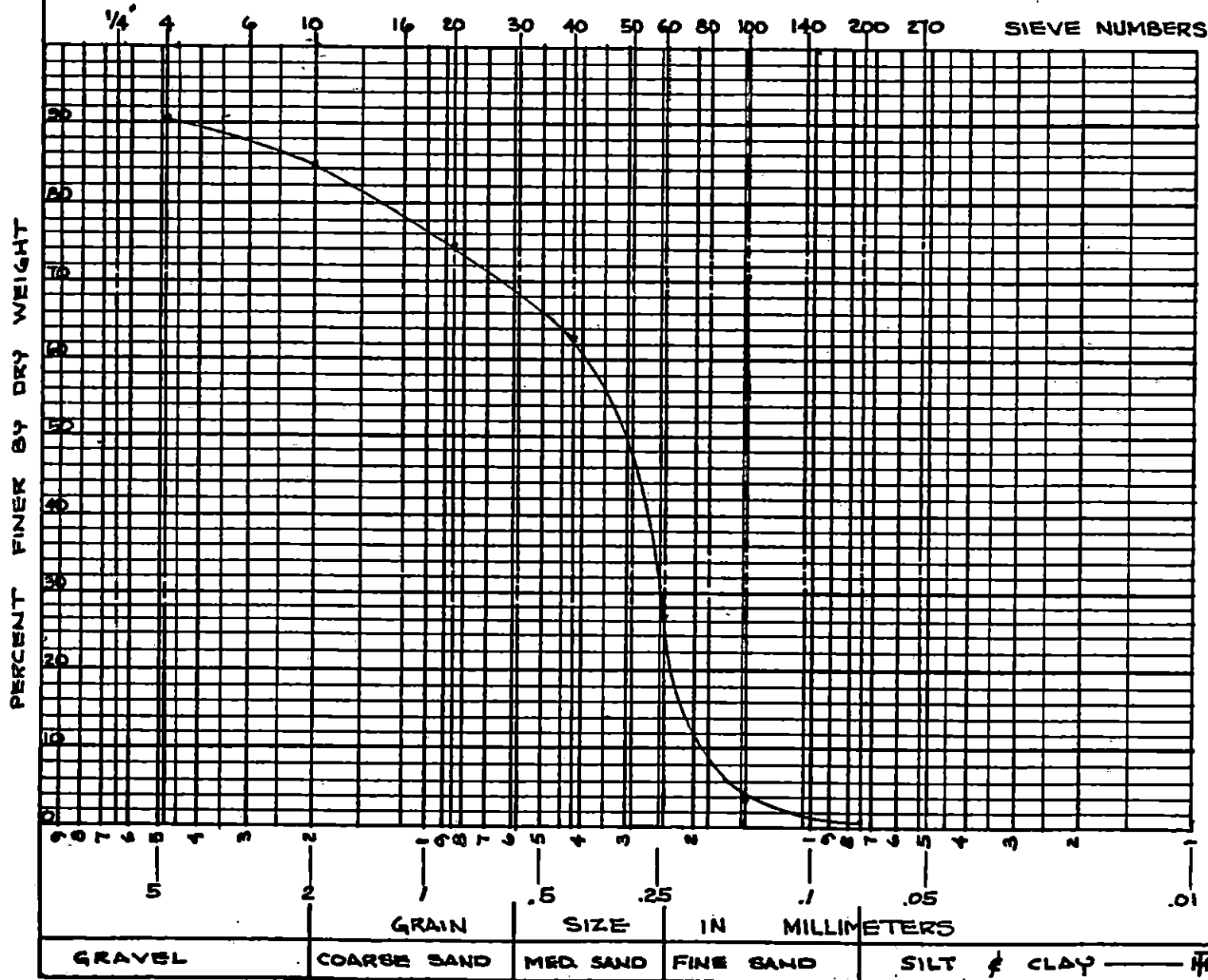
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



N1 4-2

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. H. R.

Date 9/23/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor _____

Job _____ Town of Hempstead PW-58-86

Location _____ Nassau County, New York

Soil _____

Boring no. M4 Location Merrick Landfill

Date _____ Sample No. M4-3 Top Datum _____ Depth _____ Sample Kl. _____

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
<u>1/4</u>	6.350	14.7				
4	4.750	36.2	21.5	14.6	85.4	
6	3.000					
10	2.000	61.8	25.6	17.4	32.0	68.0
16	1.190					
20	.840	101.9	40.1	27.3	59.3	40.7
30	.590					
40	.420	131.2	29.3	20.0	79.3	20.7
50	.297					
60	.240	149.2	18.0	12.3	91.6	8.4
70	.210					
80	.177					
100	.149	158.0	8.8	6.0	97.6	2.4
140	.104					
200	.074	160.9	2.9	2.0	97.6	0.4
270	.053					
325	.044					
PAN		161.5	0.6	0.4	100.0	0.0
TOTAL			146.8	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare _____ gm		H _____ cm	H _____ cm	H _____ gm/cm
Tare _____ gm		A _____ cm	A _____ cm	A _____ gm/cm
Dry Soil _____ gm		V _____ cm	V _____ cm	V _____ gm/cm

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

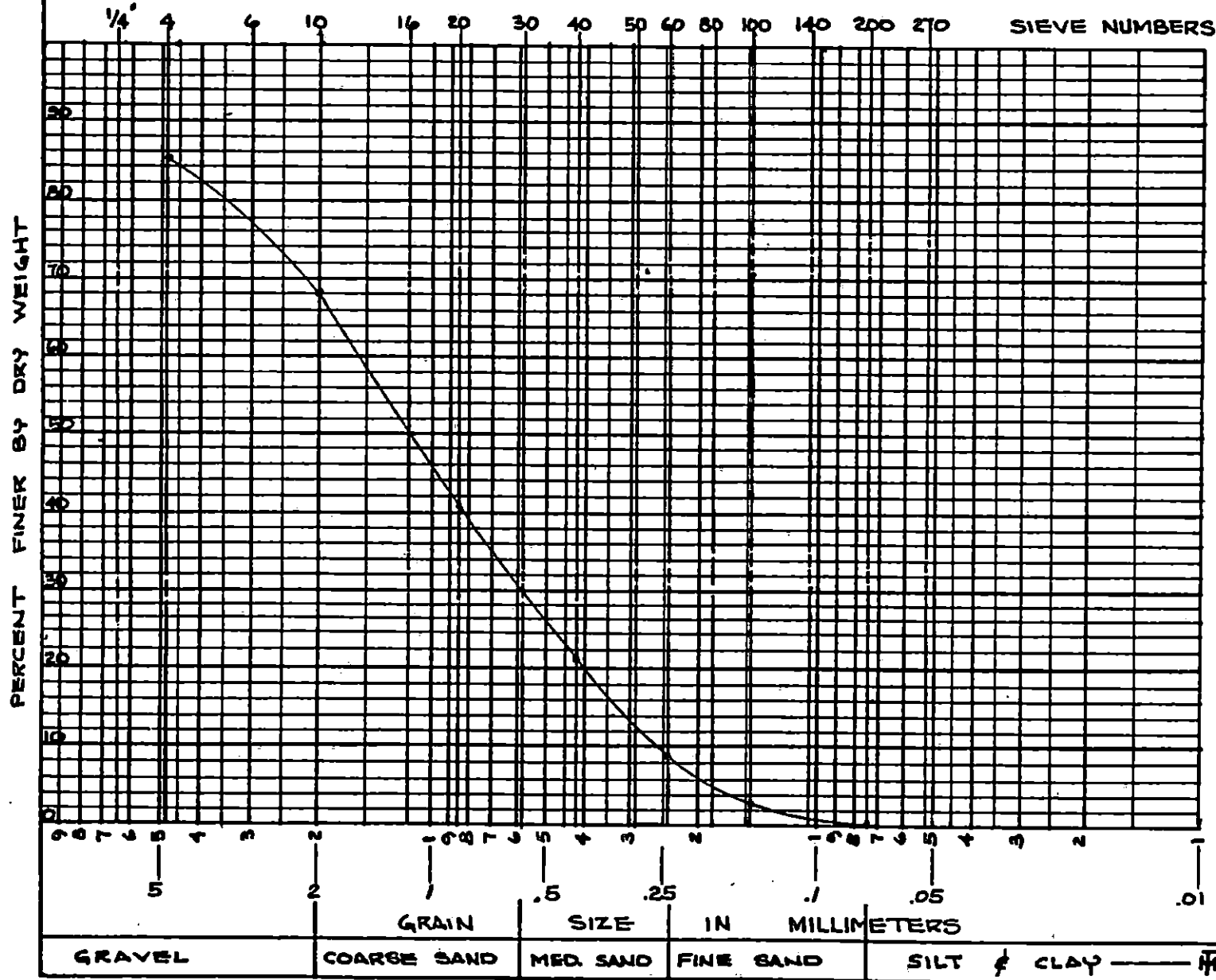
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M 4-3

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M4 Location Merrick Landfill

Date Sample No. M4-7 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.7				
4	4.750	24.3	91.6	51.2	94.8	
6	3.000					
10	2.000	27.7	3.4	1.8	71.0	
16	1.190					
20	.840	37.8	10.1	5.4	121.4	871.6
30	.590					
40	.420	100.8	63.0	33.9	46.3	531.7
50	.297					
60	.240	179.6	78.8	42.4	88.7	111.3
70	.210					
80	.177					
100	.149	198.9	19.3	10.4	99.1	01.9
140	.104					
200	.074	200.5	1.6	0.9	100.0	01.0
270	.053					
325	.044					
PAN		200.7	0.2	0.1	100.0	0.0
TOTAL		1861.0	100.0			

UNIT MASS
Soil + Tare

DENSITY
gm

LOOSE
H

cm

g/cc

cm

PFC

cm

e

DENSE - BLOWS
H

cm

cm

cm

LAYERS
H

gm/cm

PFC

e

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

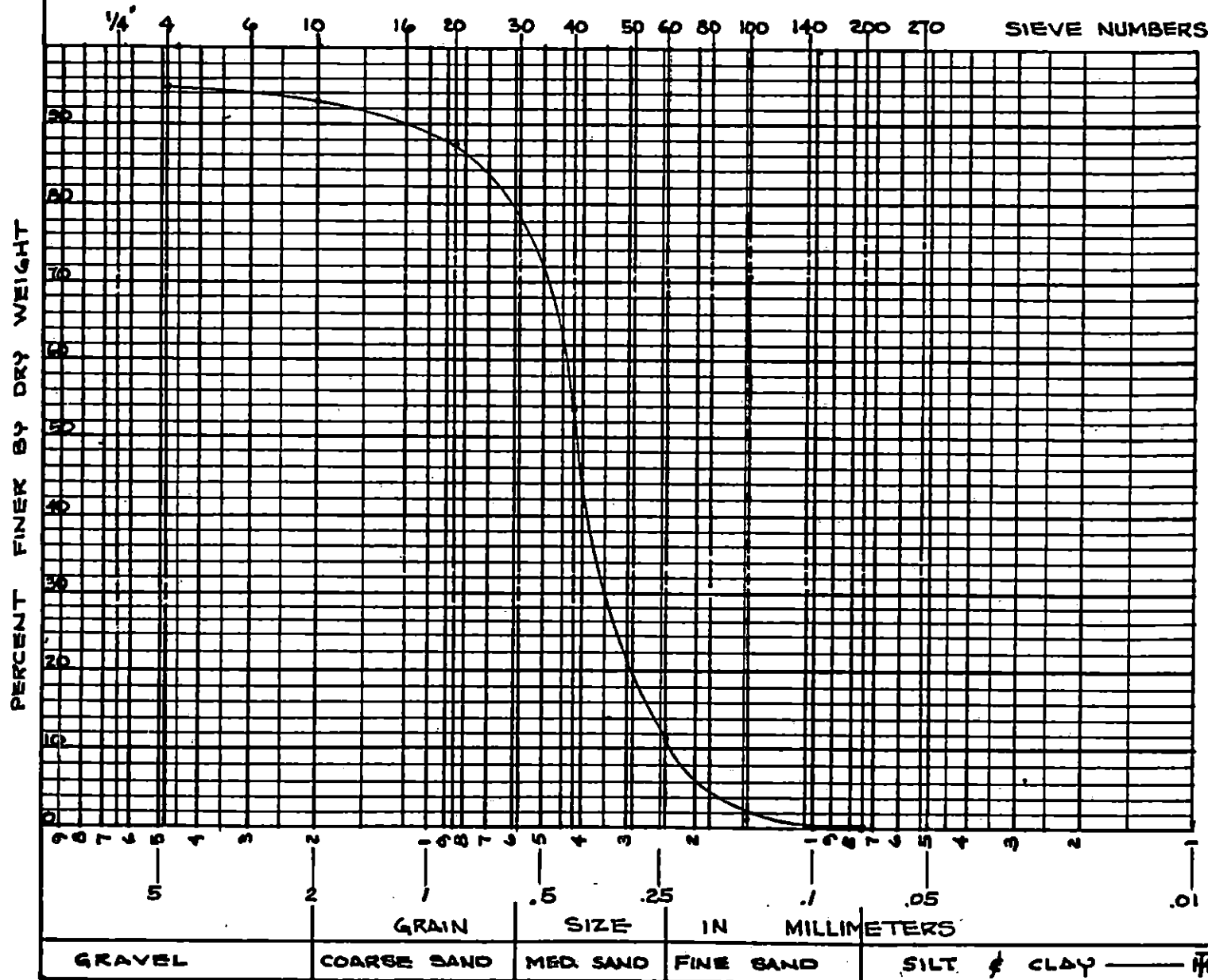
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M4-4

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date 7/23/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M4 Location Merrick Landfill

Date Sample No. M4-5 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.7				
4	4.750	41.1	26.4	201.2	79.8	
6	3.000					
10	2.000	66.1	25.0	19.2	39.4	601.6
16	1.190					
20	.840	97.3	31.2	23.9	631.2	261.7
30	.590					
40	.420	132.1	34.8	26.7	90.0	101.0
50	.297					
60	.240	142.1	10.0	7.7	92.7	21.3
70	.210					
80	.177					
100	.149	144.6	21.5	1.9	99.6	01.4
140	.104					
200	.074	145.1	01.5	01.4		
270	.053					
325	.044					
PAN		145.1	01.0		100.0	01.0
TOTAL			1301.4	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	H	H
Tare	gm	A	A	A
Dry Soil	gm	V	V	V

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

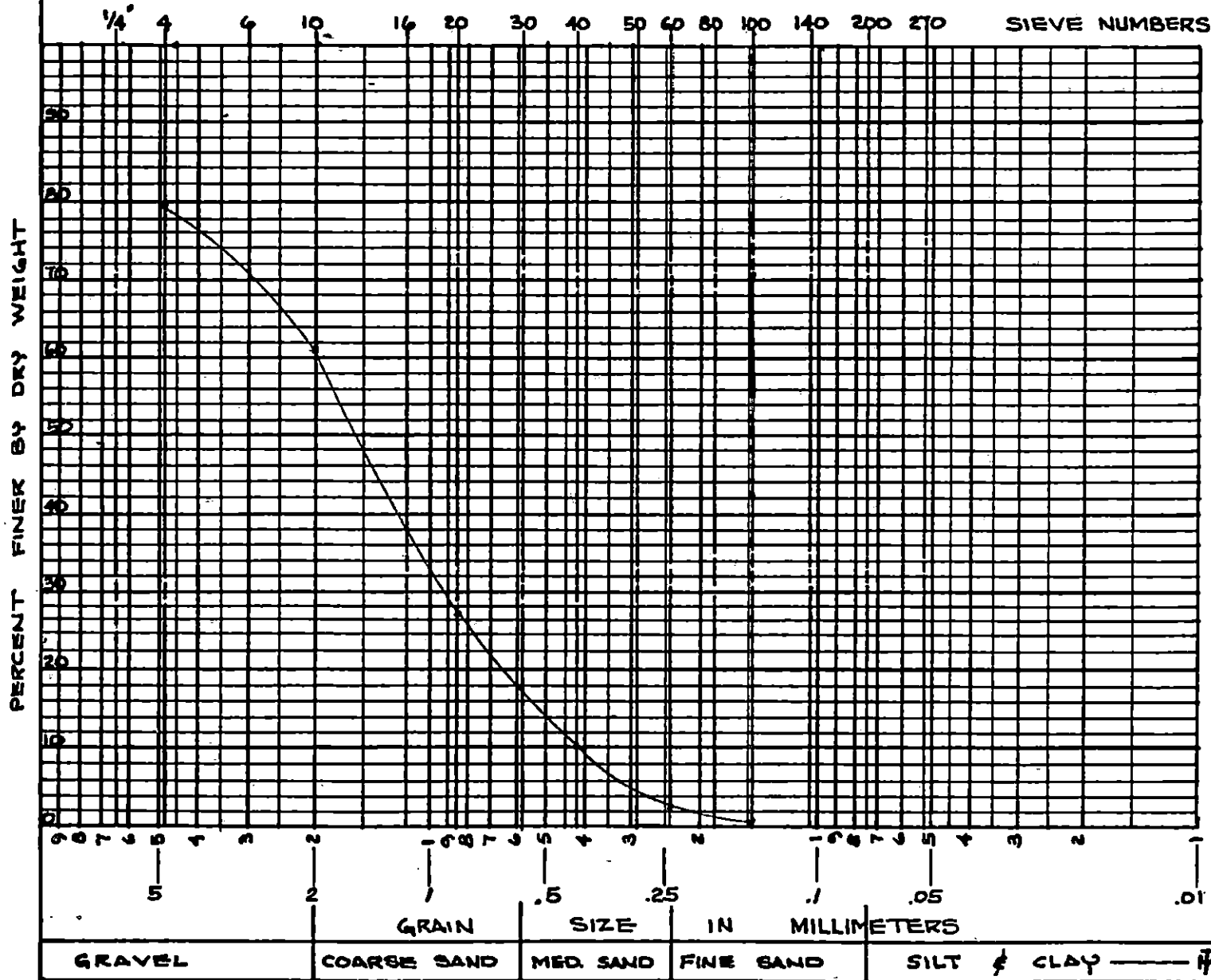
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M4-5

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. Fuller

Date

9/22/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no.

M4

Location

Merrick Landfill

Date

Sample No. M4-6

Top Datum

Depth

Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
0.075	1/4	6.350	14.5			
4	4.750	23.2	81.7	51.3	94.7	
6	3.000					
10	2.000	33.5	101.3	61.3	881.4	
16	1.190					
20	.840	59.6	26.1	151.0	271.6	621.3
30	.590					
40	.420	113.2	53.6	32.8	60.4	391.6
50	.297					
60	.240	137.4	24.2	14.8	75.2	24.8
70	.210					
80	.177					
100	.149	147.9	101.5	6.4	81.6	181.4
140	.104					
200	.074	162.4	14.5	81.9	90.5	91.5
270	.053					
325	.044					
PAF		178.1	15.7	29.6	100.0	0.0
TOTAL			1631.6	100.0		

UNIT MASS

DENSITY

LOOSE

Soil + Tare

gm

H

cm

γ

gm/cc

Tare

gm

A

cm²

γ_m

PFC

Dry Soil

gm

V

cm³

e

DENSE

BLOWS

LAYERS

H

cm

γ

gm/cc

A

cm²

γ_m

PFC

V

cm³

e

COLOR

AVE. GRAIN SHAPE

MINERALOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

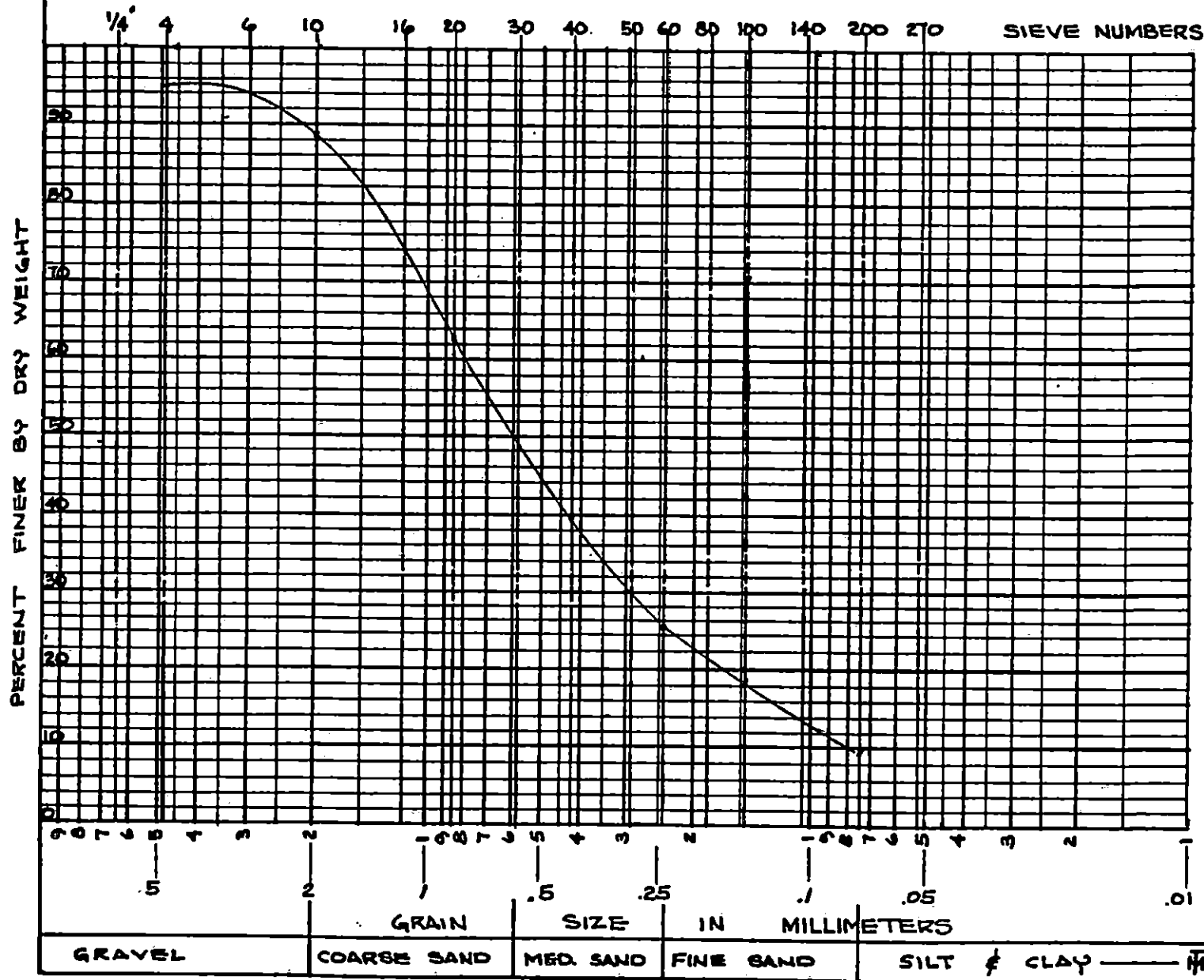
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



MA-6

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date 9/22/97

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M4 Location Merrick Landfill

Date Sample No. M4-7 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.5	1	1	1	
4	4.750	15.9	11.4	11.5	98.5	
6	3.000					
10	2.000	19.5	3.6	31.7	94.8	
16	1.190					
20	.840	32.9	13.4	13.9	80.9	
30	.590					
40	.420	72.7	39.8	41.4	60.5	
50	.297					
60	.250	99.8	27.1	28.2	88.7	
70	.210					
80	.177					
100	.149	106.8	71.0	71.3	96.0	
140	.104					
200	.074	109.0	21.2	21.3	98.3	
270	.053					
325	.044					
PAN		110.6	11.6	11.7	100.0	
TOTAL			96.1	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE - ELAWS

LAYERS

Soil + Tare

H

cm

γ

gm/cc

H

cm

γ

gm/cm

Tare

A

cm

γ_m

PFC

A

cm

γ_m

PFC

Dry Soil

V

cm

e

V

cm

e

COLOR

AVE. GRAIN SHAPE

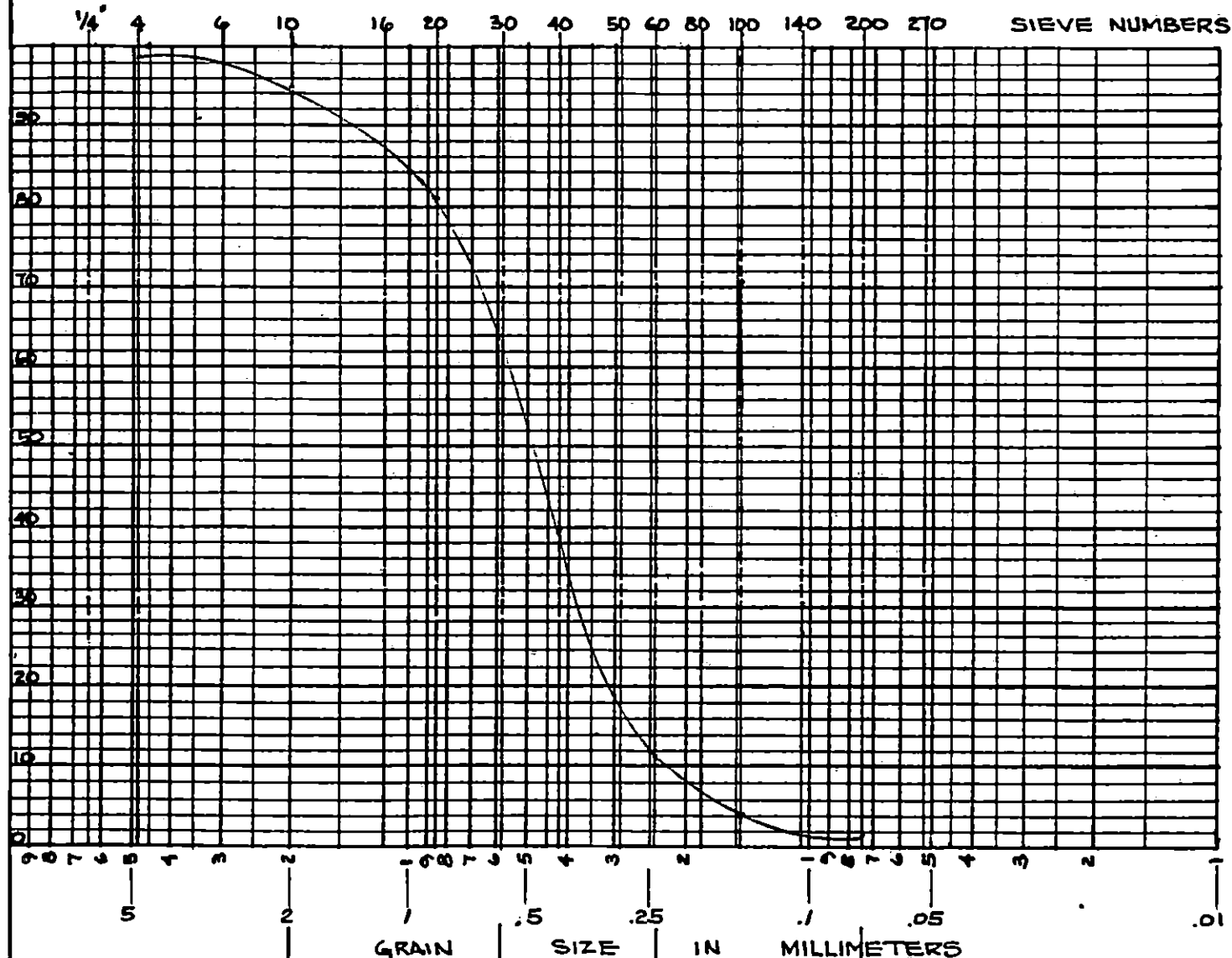
MINEROLOGY & REMARKS

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY



MA-7

GRAVEL

COARSE SAND

MED. SAND

FINE SAND

SILT & CLAY

SILT & CLAY ———— ~~HA~~ CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. G. Sullivan

Date 9-22

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M4 Location Merrick Landfill

Date 9-22 Sample No. M4-B Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
<u>1/4</u>	<u>6.350</u>	<u>14.5</u>	<u>1</u>	<u>1</u>	<u>1</u>	
<u>4</u>	<u>4.750</u>	<u>18.8</u>	<u>4.3</u>	<u>2.16</u>	<u>97.4</u>	
<u>6</u>	<u>3.000</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>10</u>	<u>2.000</u>	<u>22.4</u>	<u>3.6</u>	<u>2.2</u>	<u>4.18</u>	<u>95.2</u>
<u>16</u>	<u>1.190</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>20</u>	<u>.840</u>	<u>37.1</u>	<u>14.7</u>	<u>8.8</u>	<u>13.6</u>	<u>86.4</u>
<u>30</u>	<u>.590</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>40</u>	<u>.420</u>	<u>103.0</u>	<u>65.9</u>	<u>39.6</u>	<u>53.2</u>	<u>46.8</u>
<u>50</u>	<u>.297</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>60</u>	<u>.240</u>	<u>160.4</u>	<u>57.4</u>	<u>34.5</u>	<u>87.7</u>	<u>12.3</u>
<u>70</u>	<u>.210</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>80</u>	<u>.177</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>100</u>	<u>.149</u>	<u>176.9</u>	<u>16.5</u>	<u>9.9</u>	<u>97.6</u>	<u>2.4</u>
<u>140</u>	<u>.104</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>200</u>	<u>.074</u>	<u>180.0</u>	<u>3.1</u>	<u>1.9</u>	<u>99.5</u>	<u>.5</u>
<u>270</u>	<u>.053</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>325</u>	<u>.044</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>PAN</u>	<u> </u>	<u>186.1</u>	<u>1.1</u>	<u>0.7</u>	<u>100.0</u>	<u>0.0</u>
TOTAL		<u>166.6</u>	<u>100.0</u>	<u> </u>	<u> </u>	

UNIT MASS

DENSITY

LOOSE

DENSE - ELONG

LAYERS

Soil + Tare

gm

H

cm

gm/cc

H

cm

gm/cm

Tare

gm

A

cm

PFC

A

cm

PFC

Dry Soil

gm

V

cm

"e"

V

cm

"e"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

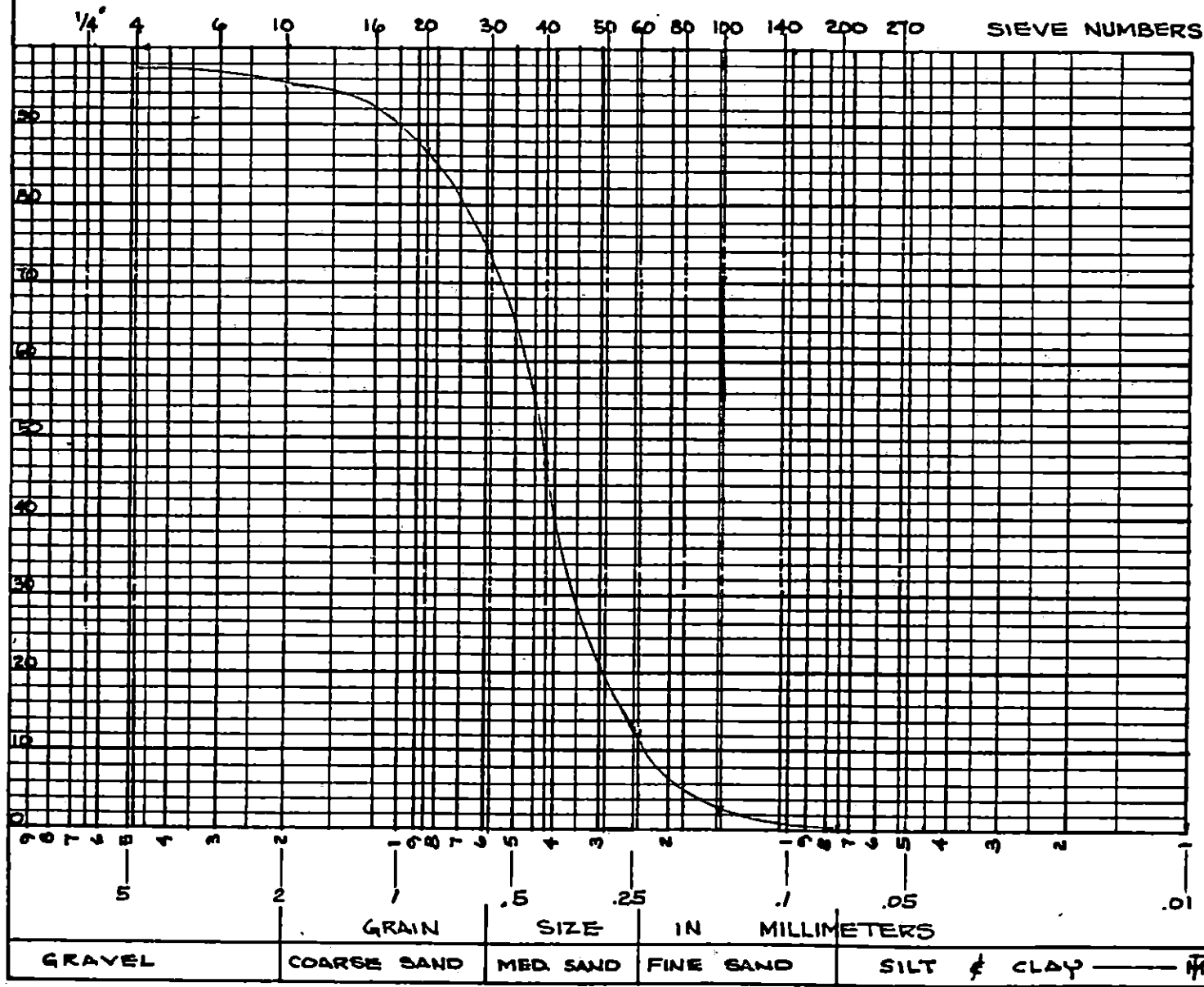
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hemstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



M4-B

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

9.11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no.

M5

Location

Merrick Landfill

Date

Sample No. M5-4

Top Datum

Depth

Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
DISH 1/4"	6.350	14.1				
4	4.750	37.4	23.3	11.2	88.8	
6	3.000					
10	2.000	58.3	20.9	10.0	78.8	
16	1.190					
20	.840	96.6	38.3	18.4	60.4	
30	.590					
40	.420	147.8	51.2	24.6	64.2	
50	.297					
60	.240	183.5	35.7	17.2	81.4	
70	.210					
80	.177					
100	.149	215.7	32.2	15.5	96.9	
140	.104					
200	.074	222.2	6.5	3.1	100.0	
270	.053					
325	.044					
PAN						
TOTAL		208.1	100.0			

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	"e"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

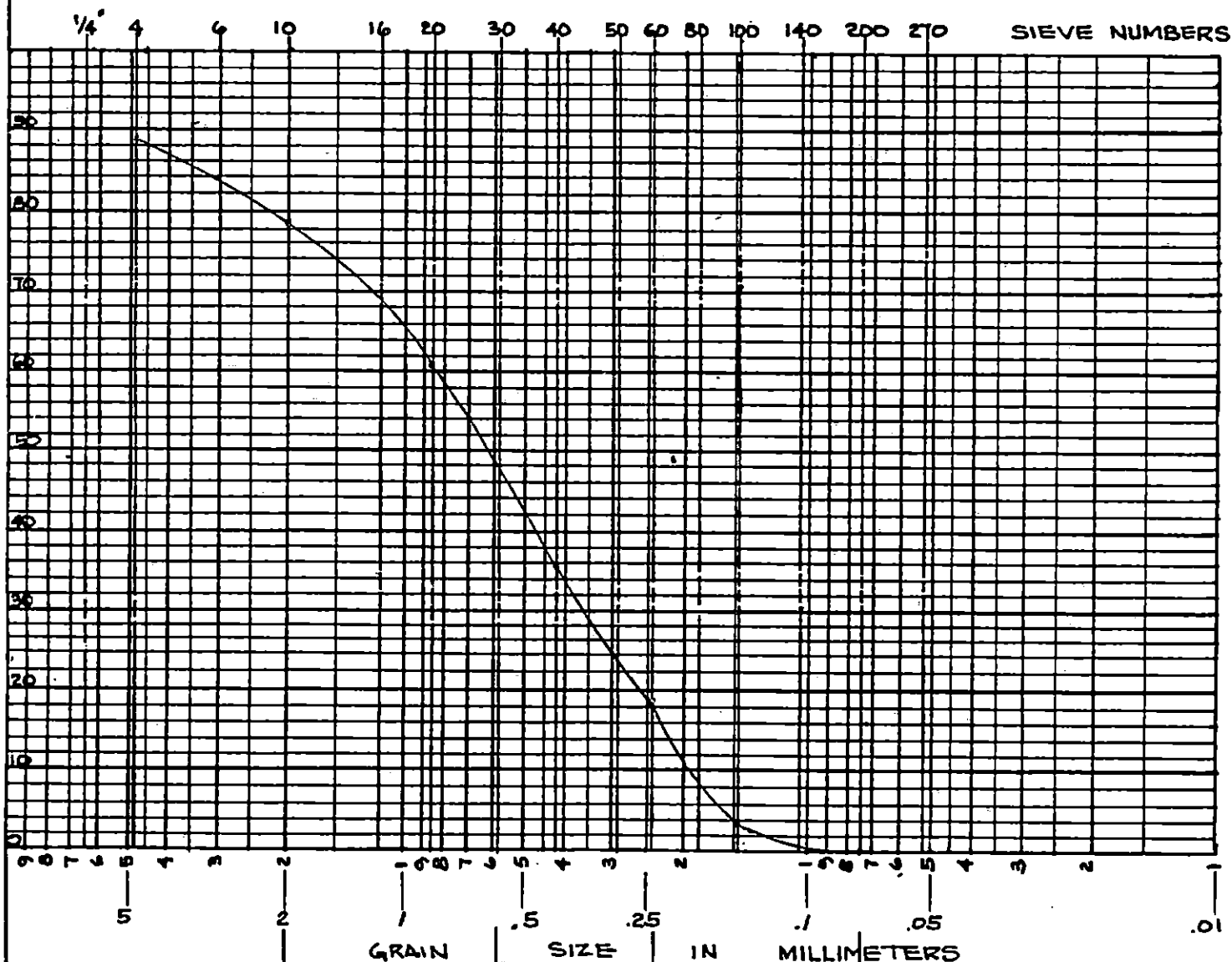
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/21/87

BY: JFF



M5-4

GRAVEL

COARSE SAND

MED SAND

FINE SAND

SILT & CLAY

— HA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M5 Location Merrick Landfill

Date Sample No. M5-5 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
DISH						
1/4	6.350	19.1				
4	4.750	35.6	21.5	11.6	88.4	
6	3.000					
10	2.000	84.6	49.0	26.4	62.0	
16	1.190					
20	.840	145.6	61.0	32.9	29.1	
30	.590					
40	.420	183.4	37.8	20.4	91.3	
50	.297					
60	.240	195.4	12.0	6.5	97.8	
70	.210					
80	.177					
100	.149	197.8	2.4	1.3	99.1	
140	.104					
200	.074	198.6	0.8	0.4	99.5	
270	.053					
325	.044					
PAN		199.7	1.1	0.6	100.0	
TOTAL		185.6	100.0			

UNIT MASS

DENSITY

LOOSE

DENSE - BLOWS

LAYERS

Soil +Tare

gm

H

cm

gm/cc

H

cm

gm/cm

Tare

gm

A

cm

PFC

A

cm

PFC

Dry Soil

gm

V

cm

"e"

V

cm

"e"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

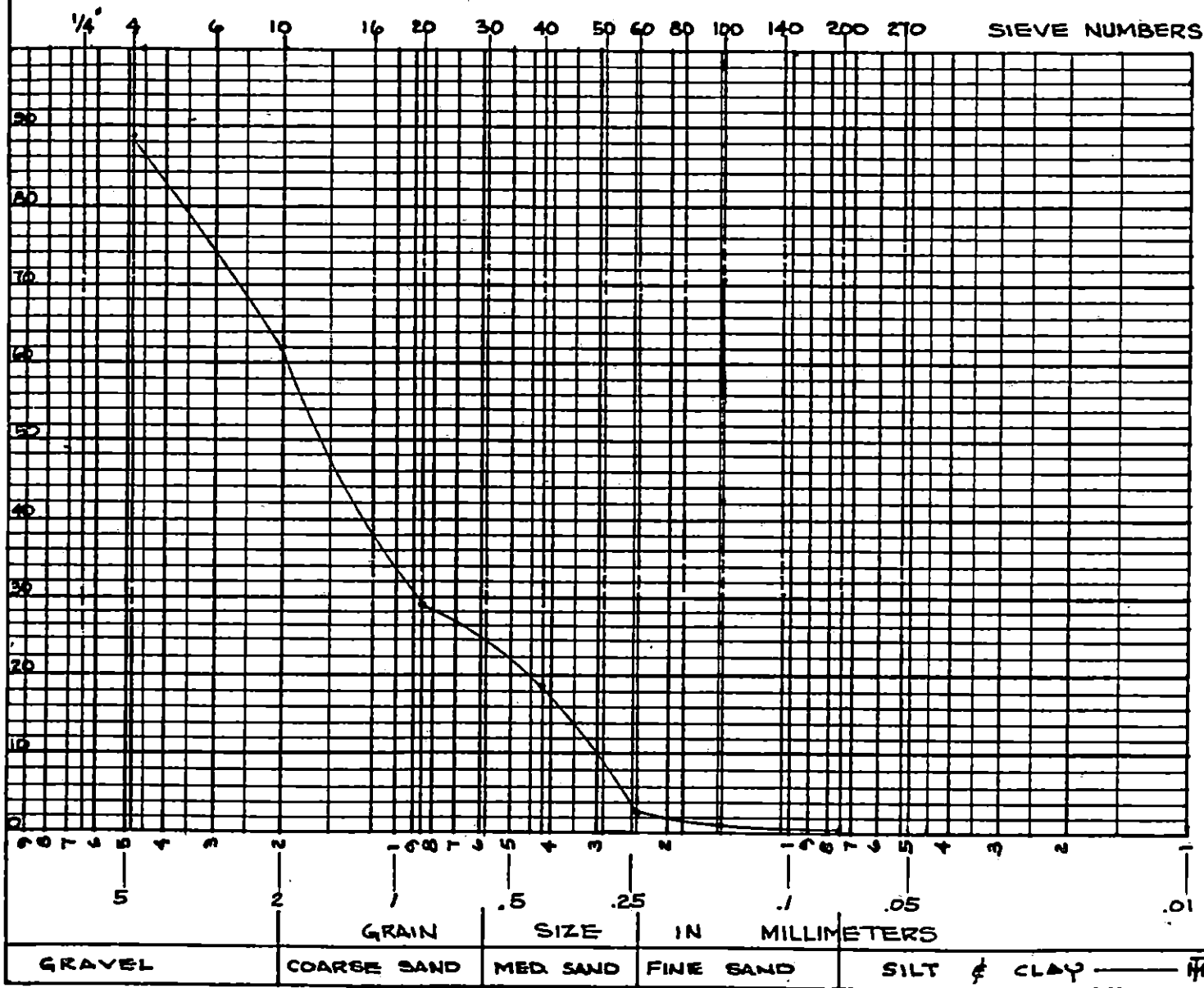
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/1/87

BY: JFF



M5-5

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. J. [Signature]

Date 9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M5 Location Merrick Landfill

Date 9-11 Sample No. M5-6 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.1				
4	4.750	20.2	61.1	51.1	94.9	
6	3.000					
10	2.000	27.9	71.7	61.4	881.5	
16	1.190					
20	.840	44.2	161.3	131.5	251.0	
30	.590					
40	.420	76.4	321.2	261.7	51.7	981.3
50	.297					
60	.240	107.8	311.4	261.1	771.8	221.2
70	.210					
80	.177					
100	.149	122.2	141.4	121.0	891.8	101.2
140	.104					
200	.074	129.5	71.3	61.1	951.9	41.1
270	.053					
325	.044					
PAN		134.5	51.0	41.2	1001.0	01.0
TOTAL			120.4	1001.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	_____ gm	H _____ cm	H _____ cm	H _____ gm/cm
Tare	_____ gm	A _____ cm	A _____ cm	A _____ gm/cm
Dry Soil	_____ gm	V _____ cm	V _____ cm	V _____ gm/cm

COLOR _____ AVE. GRAIN SHAPE _____
MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

dewatering systems and services

TELEX: 136446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86

Merrick Landfill

DATE: 9/2/87

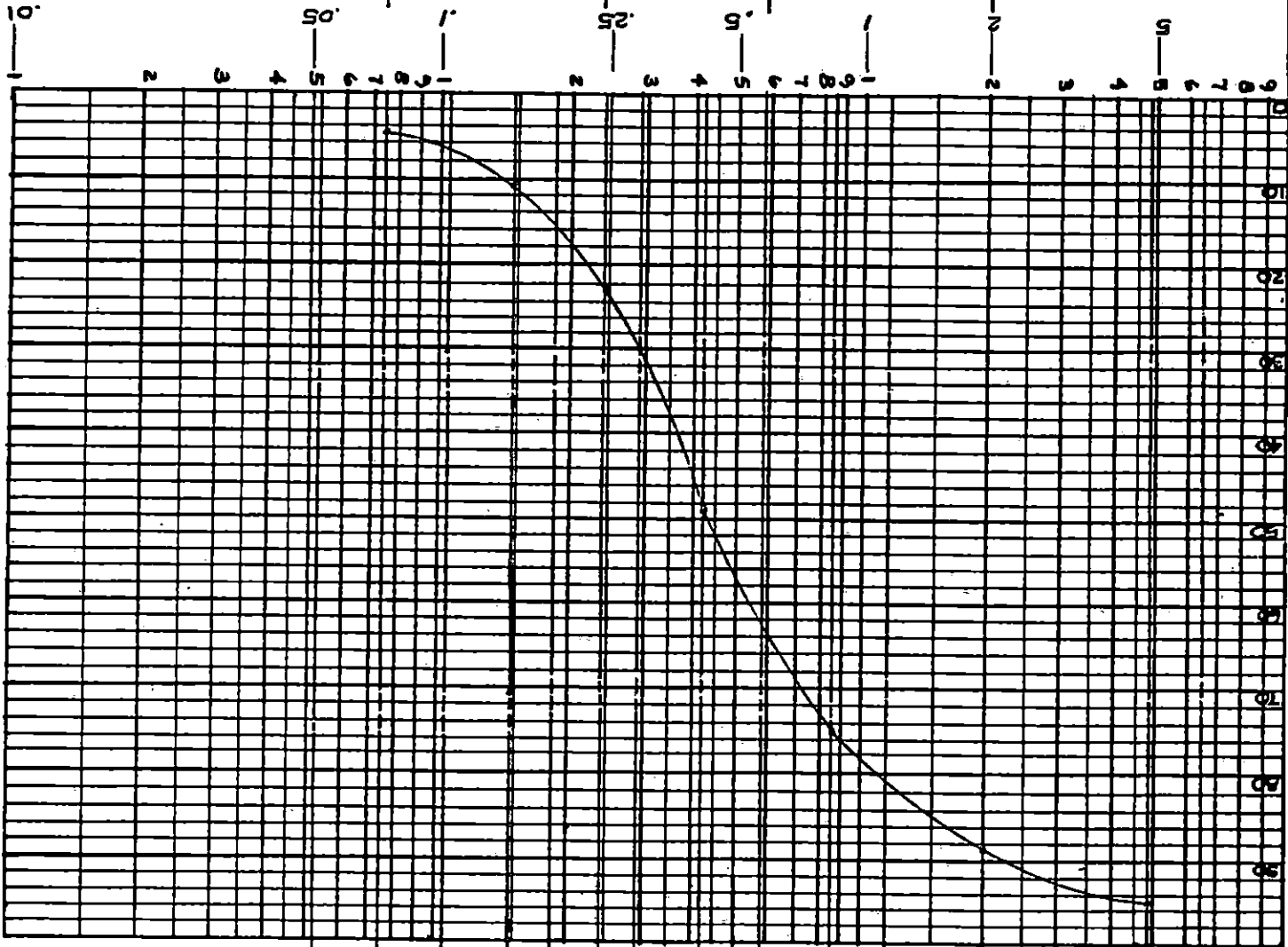
BY: JFF

1/4" 4 6 10 16 20 30 40 50 60 80 100 140 200 270

SIEVE NUMBERS

M5-6

PERCENT FINER BY DRY WEIGHT



GRAVEL
COARSE SAND
MED. SAND
FINE SAND
SILT & CLAY ——— IFA CLASSIFICATION

GRAIN SIZE IN MILLIMETERS

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. Fulk

Date

9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no.

M5

Location

Merrick Landfill

Date

Sample No. M5-7

Top Datum

Depth

Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.1				
4	4.750	20.0	51.9	41.3	95.7	
6	3.000					
10	2.000	25.6	51.6	41.1	91.6	
16	1.190					
20	.840	36.7	11.1	81.1	831.5	
30	.590					
40	.420	68.6	31.9	23.2	39.7	601.3
50	.297					
60	.240	105.7	37.1	27.0	66.7	331.3
70	.210					
80	.177					
100	.149	133.7	28.0	20.4	87.1	121.9
140	.104					
200	.074	144.5	10.8	71.9	95.0	51.0
270	.053					
325	.044					
PAN		151.5	7.0	51.1	100.0	0.0
TOTAL		1371.4	100.0			

UNIT MASS

DENSITY

LOOSE

DENSE - BLOWS

LAYERS

Soil + Tare

H

cm

γ

gm/cc

H

cm

γ

gm/cc

Tare

A

cm

γ_m

PFC

A

cm

γ_m

PFC

Dry Soil

V

cm

e

V

cm

e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

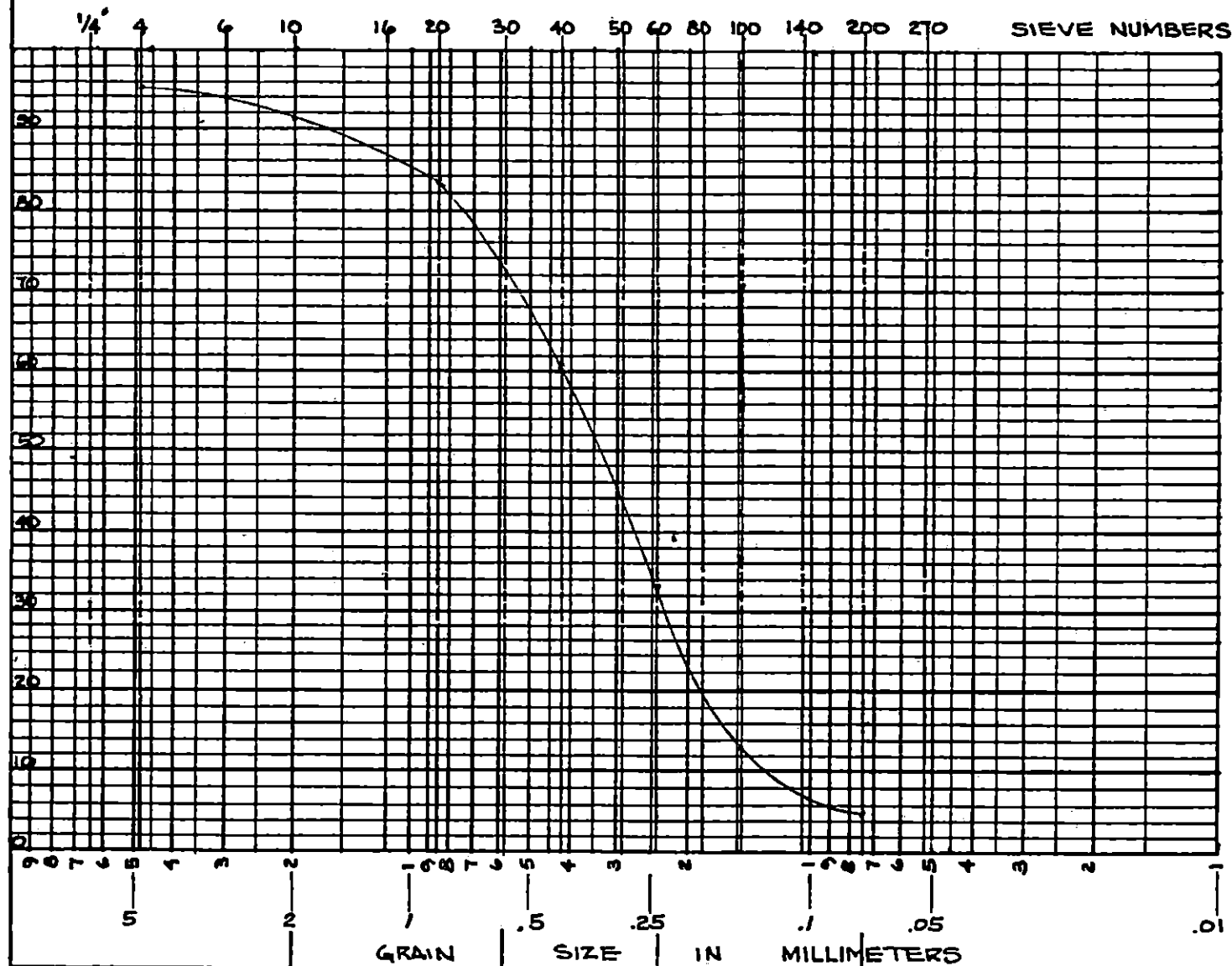
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/21/87

BY: JFF



M5-7

GRAVEL

COARSE SAND

MED. SAND

FINE SAND

SILT & CLAY

— HA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M5 Location Merrick Landfill

Date Sample No. M5-B Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
0194 1/4	6.350	14.1				
4	4.750	25.1	91.6	61.3	93.7	
6	3.000					
10	2.000	32.7	91.6	61.8	86.1	
16	1.190					
20	.840	53.4	20.7	14.6	72.3	
30	.590					
40	.420	95.4	42.0	29.5	57.2	
50	.297					
60	.250	125.0	29.6	20.8	78.0	
70	.210					
80	.177					
100	.149	136.3	11.3	7.9	85.9	
140	.104					
200	.074	197.0	10.7	7.5	93.4	
270	.053					
325	.044					
PAN		156.3	9.3	6.5	100.0	
TOTAL			142.2	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE - BLOWS

LAYERS

Soil + Tare

H

cm

g

g/cc

H

cm

g

g/cm

A

cm

g

PFC

Tare

A

cm

g

PFC

A

cm

g

PFC

Dry Soil

V

cm

g

PFC

V

cm

g

PFC

"c"

"c"

"c"

"c"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

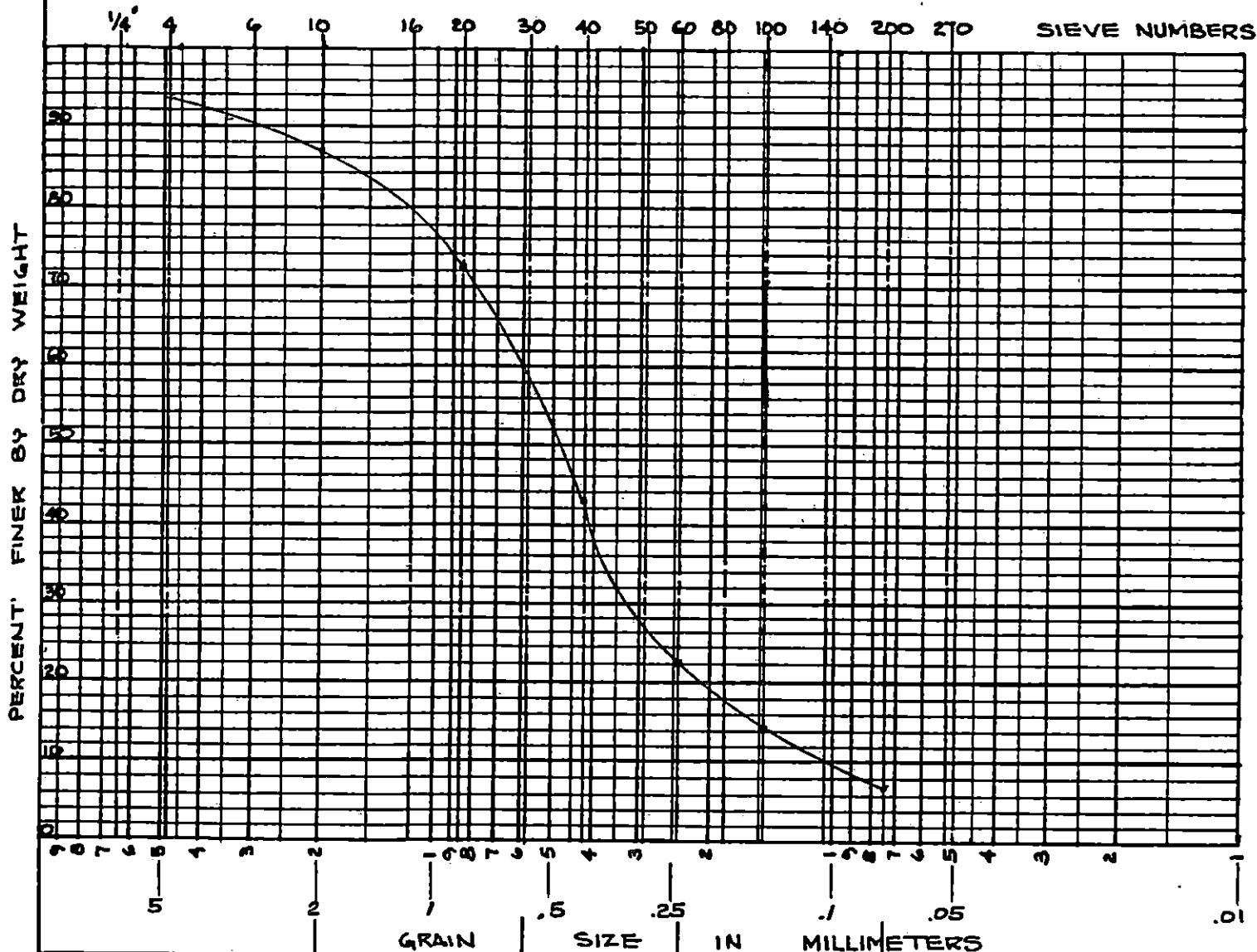
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/2/87

BY: JFF



M15-8

GRAVEL

COARSE SAND

MED SAND

FINE SAND

SILT & CLAY

— MA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M6 Location Merrick Landfill

Date Sample No. M6-2 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
DISH 1/4	6.350	14.7				
4	4.750	23.4	81.7	51.6	77.4	
6	3.000					
10	2.000	33.3	91.9	111.9	82.1	
16	1.190					
20	.840	48.0	141.7	211.3	78.1	
30	.590					
40	.420	101.9	531.9	341.6	55.9	
50	.297					
60	.240	155.4	531.5	341.3	90.2	
70	.210					
80	.177					
100	.149	166.3	101.9	71.0	97.1	
140	.104					
200	.074	169.3	31.0	11.9	99.1	
270	.053					
325	.044					
PAN		170.7	11.4	01.9	100.0	0.0
TOTAL		1561.0	100.0			

UNIT MASS

DENSITY

LOOSE

DENSE

ELOWS

LAYERS

Soil + Tare

gm

H

cm

gm/cc

H

cm

gm/cc

Tare

gm

A

cm

PFC

A

cm

PFC

Dry Soil

gm

V

cm

"e"

V

cm

"e"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

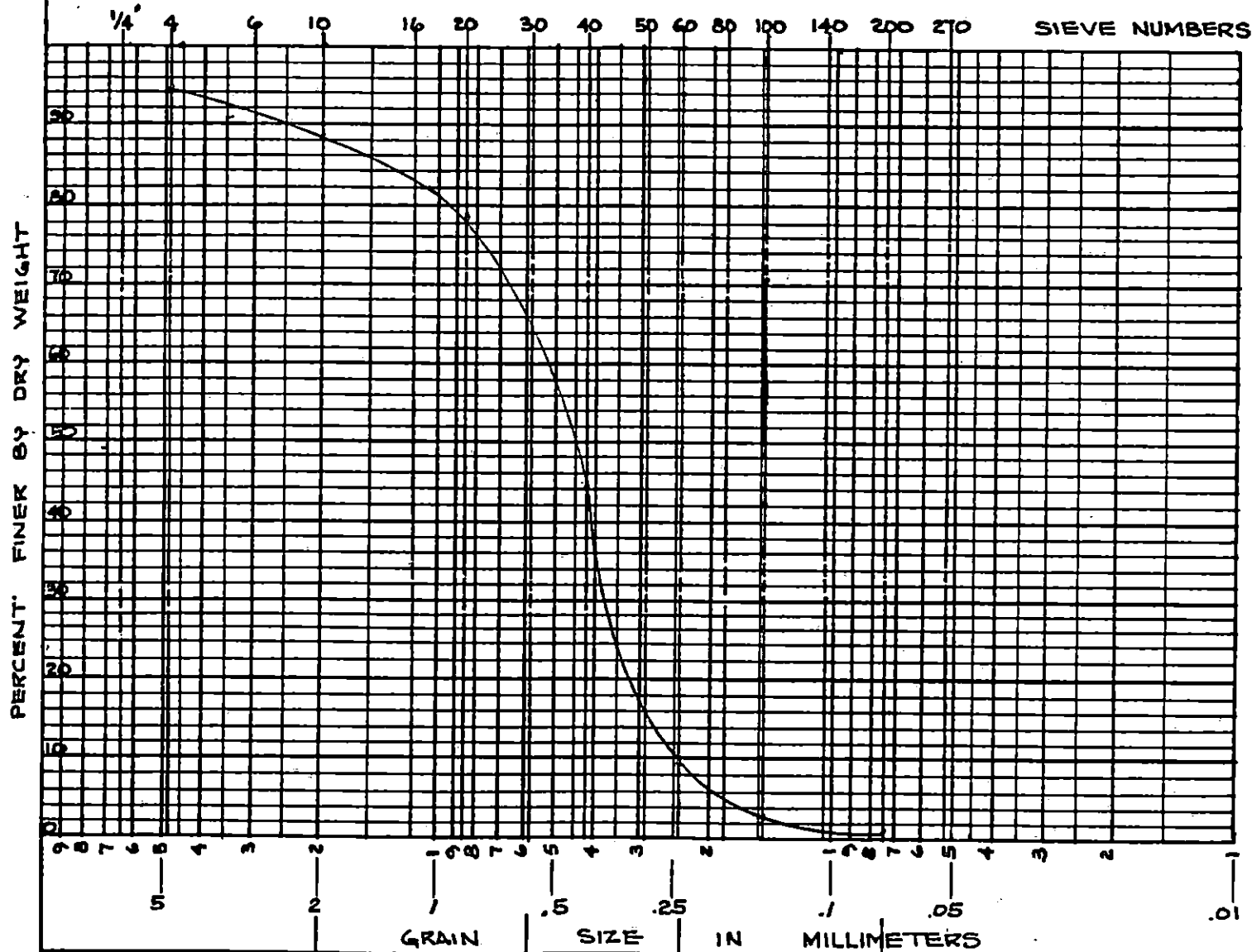
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M6-2

GRAVEL

COARSE SAND

MED SAND

FINE SAND

SILT & CLAY

— HA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. F. Sullivan

Date

2/1/86

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M6 Location Merrick Landfill

Date Sample No. M6-3 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	17.7	1	1	1	
4	4.750	21.0	6.3	41.4	95.6	
6	3.000					
10	2.000	27.8	6.8	47.7	90.9	
16	1.190					
20	.840	42.2	14.4	101.0	80.9	
30	.590					
40	.420	94.3	52.1	36.0	55.1	
50	.297					
60	.250	139.6	45.3	31.3	86.4	
70	.210					
80	.177					
100	.149	151.8	12.2	8.4	94.8	
140	.104					
200	.074	156.8	5.0	3.5	98.3	
270	.053					
325	.044					
PAN		159.3	2.5	1.7	100.0	
TOTAL			141.6	100.0		

UNIT MASS

DENSITY

LOOSE

DENSE

ELOWS

LAYERS

Soil + Tare

gm

H

cm

γ

gm/cc

H

cm

γ

gm/cm

Tare

gm

A

cm

γ_m

PFC

A

cm

γ_m

PFC

Dry Soil

gm

V

cm

e

V

cm

e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

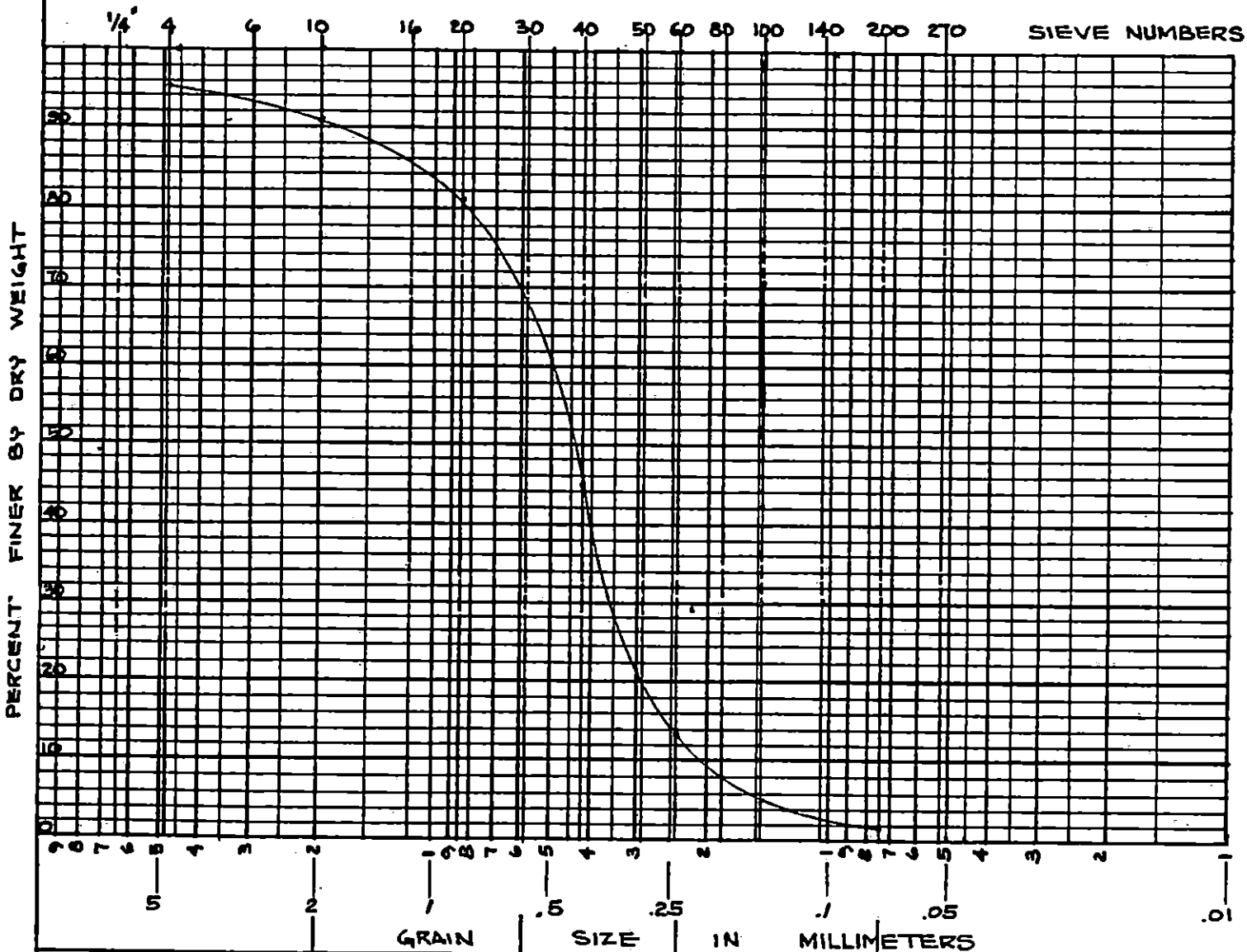
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



1116-3

GRAVEL

COARSE SAND

MED SAND

FINE SAND

SILT & CLAY

FA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. G. Hall

Date 4/2/86

MORESTRENGTH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M6 Location Merrick Landfill

Date 4/2/86 Sample No. M6-4 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.7	1	1	1	
4	4.750	17.3	21.6	01.9	99.1	
6	3.000					
10	2.000	29.9	12.6	4.5	94.6	
16	1.190					
20	.840	67.1	37.2	13.2	81.4	
30	.590					
40	.420	165.0	97.9	34.8	53.4	
50	.297					
60	.240	263.0	98.0	34.9	88.3	
70	.210					
80	.177					
100	.149	291.5	28.5	10.1	98.4	
140	.104					
200	.074	294.9	31.4	11.2	99.6	
270	.053					
325	.044					
PAN		295.7	0.8	0.3	100.0	0.6
TOTAL			28.5	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	H	H
Tare	gm	A	A	A
Dry Soil	gm	V	V	V

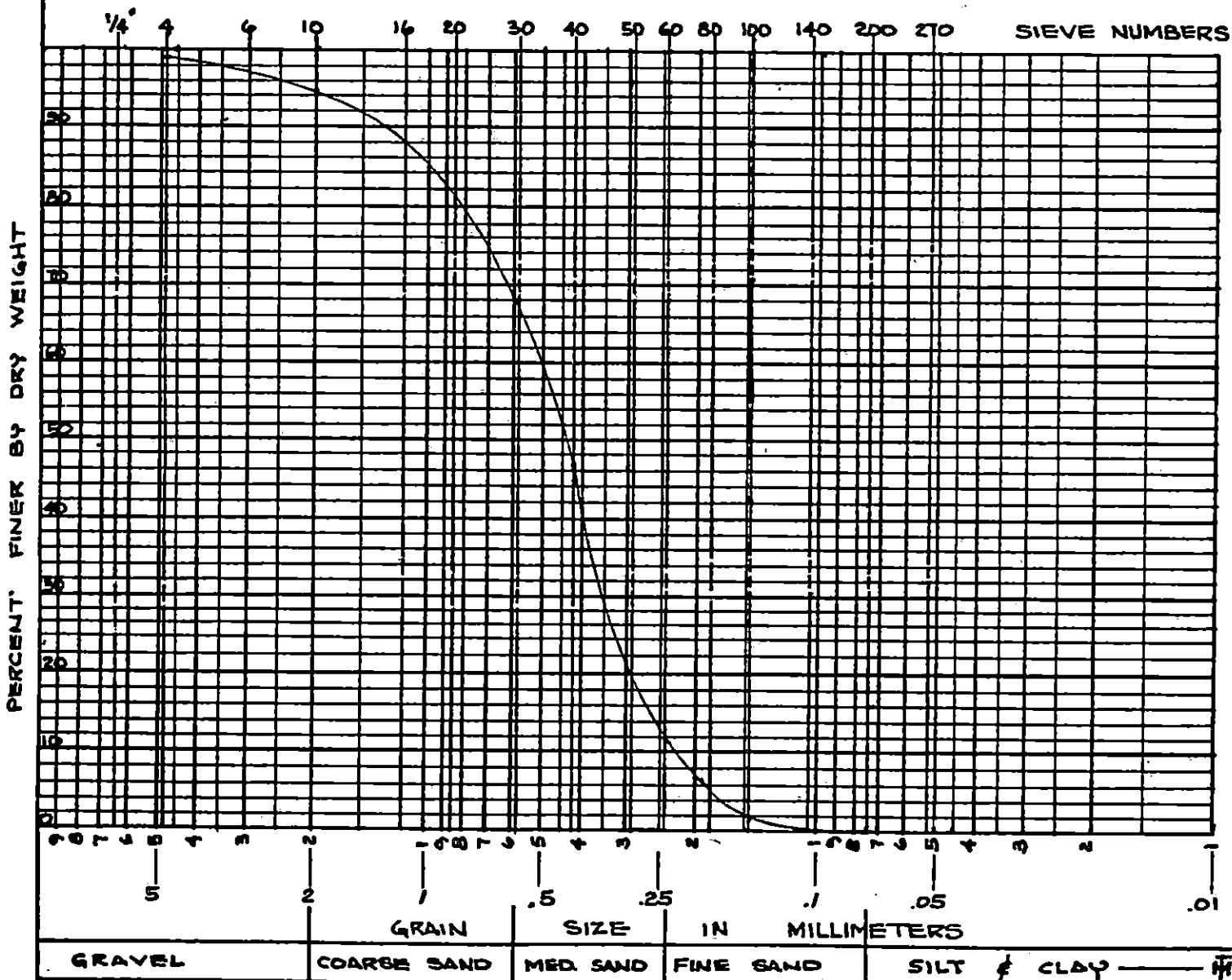
COLOR AVE. GRAIN SHAPE
MINEROLOGY & REMARKS

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY



M 6-4

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

J. G. P.

Date

9/23/27

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Boring no. M6 Location Merrick Landfill

Date Sample No. M6-5 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
P15H 1/4	6.350	14.7				
4	4.750	22.6	71.9	51.8	94.2	
6	3.000					
10	2.000	32.2	91.6	71.0	871.2	
16	1.190					
20	.840	43.2	111.0	81.7	201.9	791.1
30	.590					
40	.420	69.9	261.7	191.6	401.5	591.5
50	.297					
60	.240	119.9	501.0	361.8	771.3	221.7
70	.210					
80	.177					
100	.149	141.0	211.1	151.5	921.8	71.2
140	.104					
200	.074	147.4	61.4	41.7	971.5	21.5
270	.053					
325	.044					
PAN		150.9	31.5	21.6	1001.0	01.0
TOTAL			1361.2	1001.0		

UNIT MASS

DENSITY

LOOSE

Soil + Tare

gm

H

cm

gm/cc

DENSE - FLOWS

LAYERS

H

cm

gm/cm

A

cm²

PFC

V

cm³

"e"

Tare

gm

A

cm

PFC

Dry Soil

gm

V

cm

"e"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

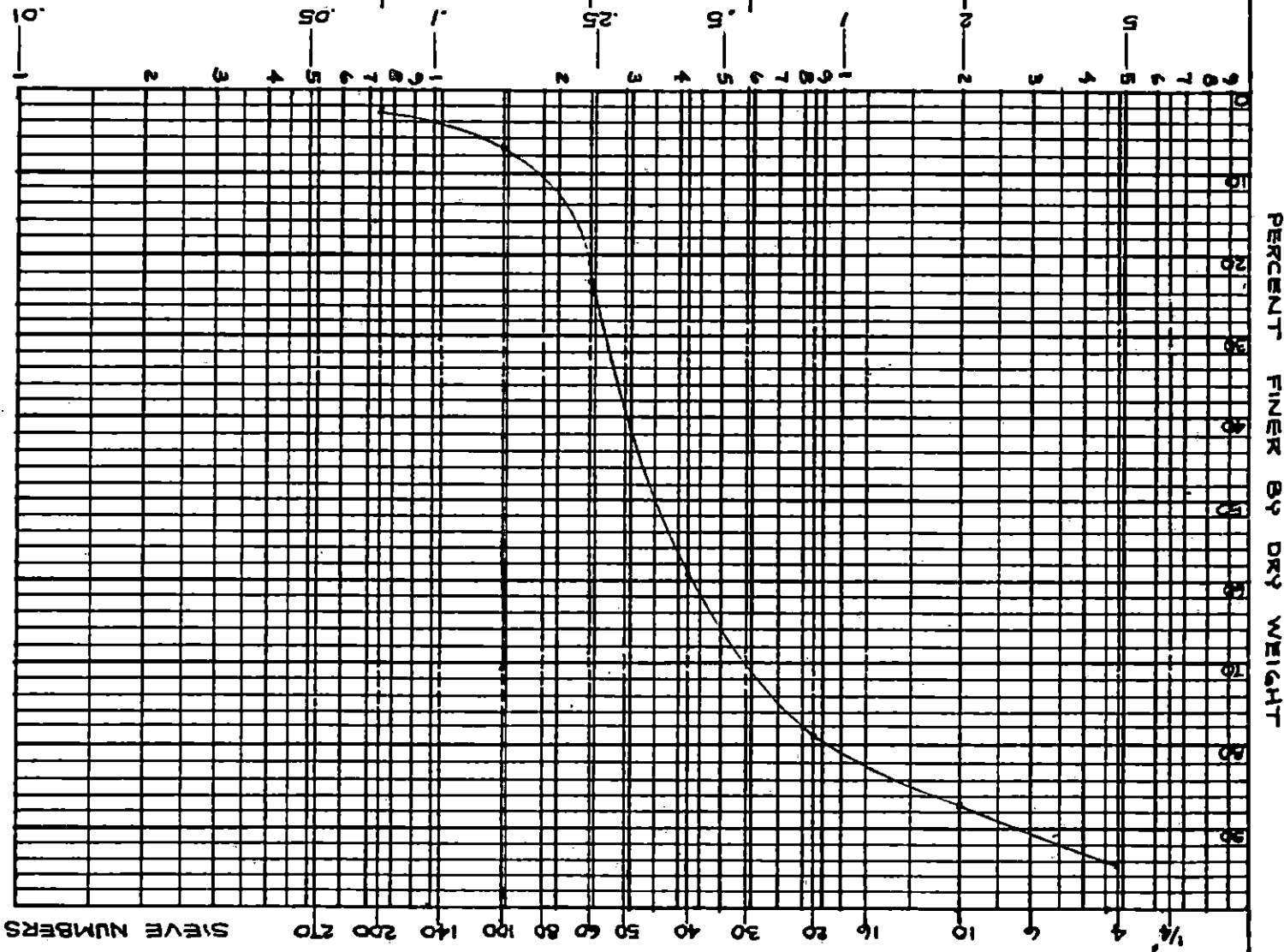
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

DATE: 9/25/87

BY: J.F.F.

JOB: Town of Hempstead PW-58-86
Merrick Landfill



N/6-5

GRAVEL
COARSE SAND
MED SAND
FINE SAND
SILT & CLAY ———— MHA CLASSIFICATION

PERCENT FINER BY DRY WEIGHT

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed P. J. Sullivan

Date 2/23/87

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor _____

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil _____

Boring no. M6 Location Merrick Landfill

Date _____ Sample No. M6-6 Top Datum _____ Depth _____ Sample El. _____

	U. S. Test Sieve no.	Size MM	Weight Retained		% Retained	Total % Retained	% Finer	Notes
Coarse F Medium G Gravel	1/4	6.350	14.7	531.9	231.4	231.4	761.6	
	4	4.750	80.6	121.0	51.2	281.6	711.4	
	6	3.000			1		1	
	10	2.000	121.2	401.6	171.6	461.2	531.8	
Coarse Sand	16	1.190						
	20	.840	145.0	231.8	101.3	561.5	431.5	
	30	.590						
	40	.420	174.7	291.7	121.9	691.4	301.6	
Medium Sand	50	.297						
	60	.240	217.4	421.7	181.5	871.9	121.1	
	70	.210						
	80	.177						
Fine Sand	100	.149	235.4	181.0	71.8	951.7	41.3	
	140	.104						
	200	.074	240.9	51.5	21.4	981.1	11.9	
	270	.053						
Fines V F S	325	.044						
	PAN		245.3	41.4	11.9	1001.0	01.0	
TOTAL				2301.6	1001.0			

UNIT MASS		DENSITY	LOOSE		DENSE - BLOWS		LAYERS
Soil + Tare	_____ gm	_____ gm/cc	H	_____ cm	H	_____ cm	_____ gm/cc
Tare	_____ gm	_____ gm/cc	A	_____ cm	A	_____ cm	_____ PFC
Dry Soil	_____ gm	_____ gm/cc	V	_____ cm	V	_____ cm	_____ "e"

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

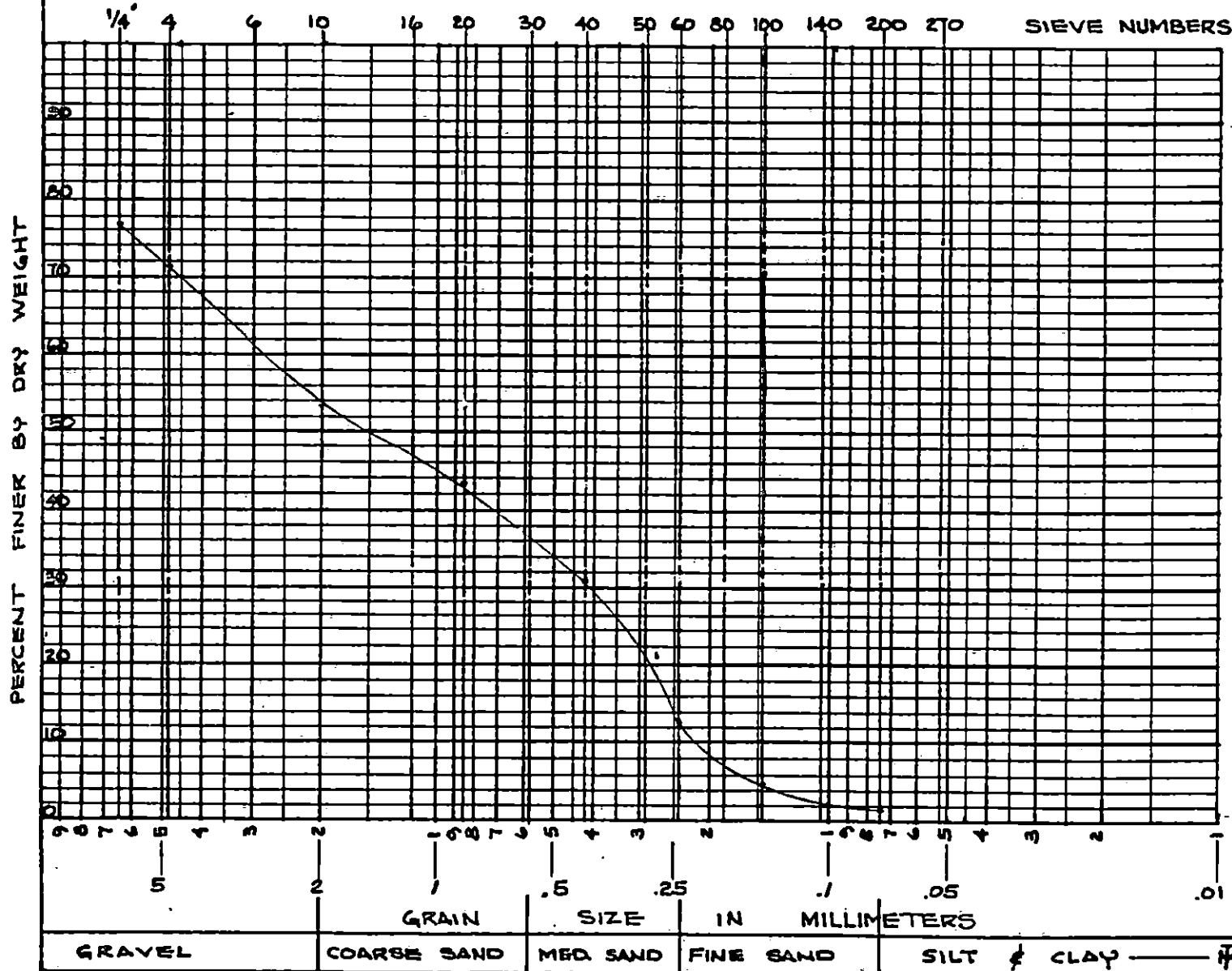
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M 5-5

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. G. Miller

Date 1-15-86

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M6 Location Merrick Landfill

Date 1-15-86 Sample No. M6-7 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	19.7				
4	4.750	53.2	28.5	201.8	71.5	
6	3.000					
10	2.000	104.3	51.1	27.6	48.4	
16	1.190					
20	.840	159.8	55.5	29.9	70.1	
30	.590					
40	.420	178.5	18.7	10.1	89.9	
50	.297					
60	.250	189.7	11.2	6.0	93.9	
70	.210					
80	.177					
100	.149	194.0	4.3	2.3	97.7	
140	.104					
200	.074	197.7	3.7	2.0	98.0	
270	.053					
325	.044					
PAK		200.1	2.4	1.3	100.0	0.0
TOTAL		1861.4	100.0			

UNIT MASS

DENSITY

LOOSE

DENSE - BLOWS

LAYERS

Soil + Tare

gm

H

cm

g/cc

H

cm

g/cm

Tare

gm

A

cm

PFC

A

cm

PFC

Dry Soil

gm

V

cm

e

V

cm

e

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

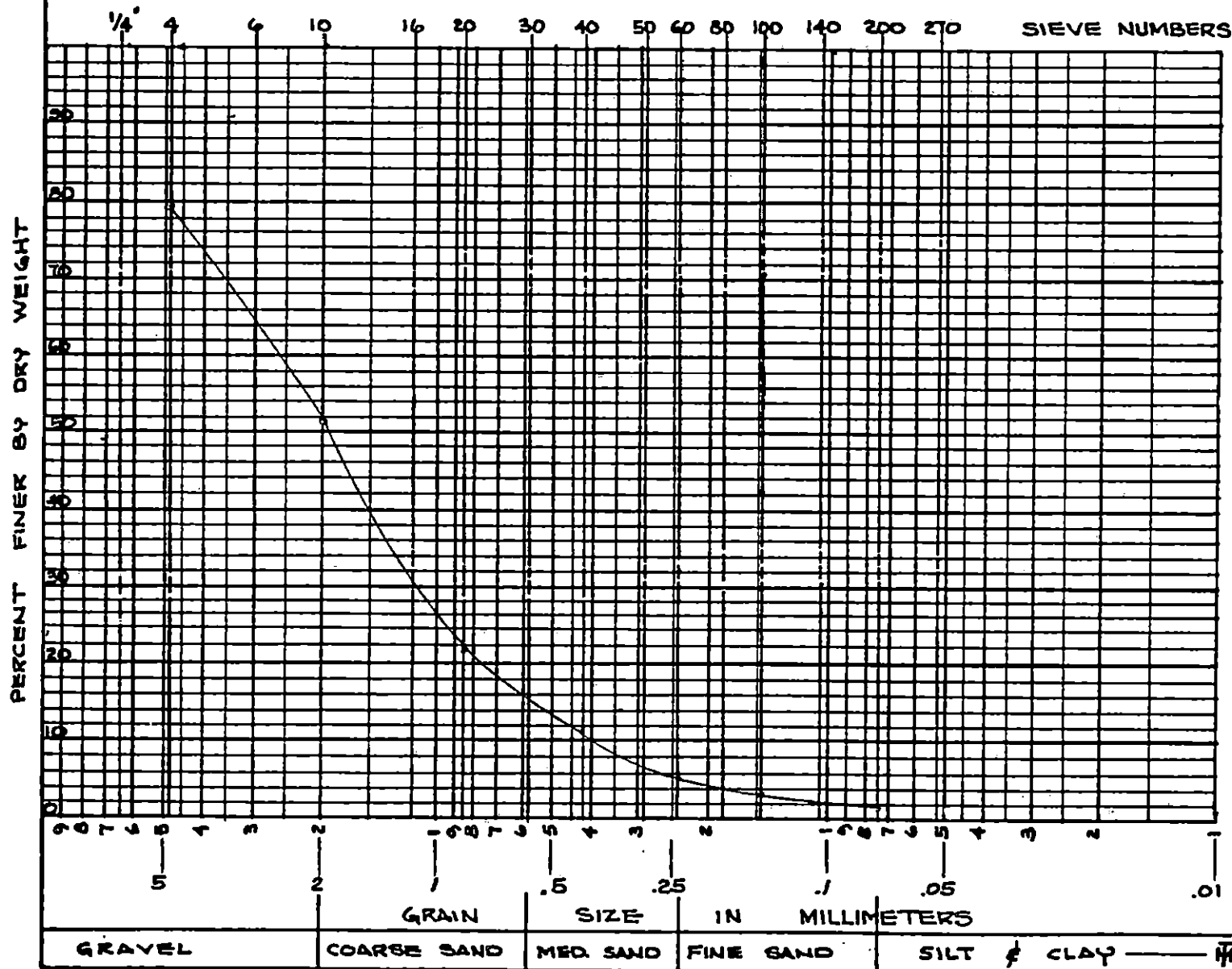
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M6-7

118.871

MORETRENCH AMERICAN CORPORATION

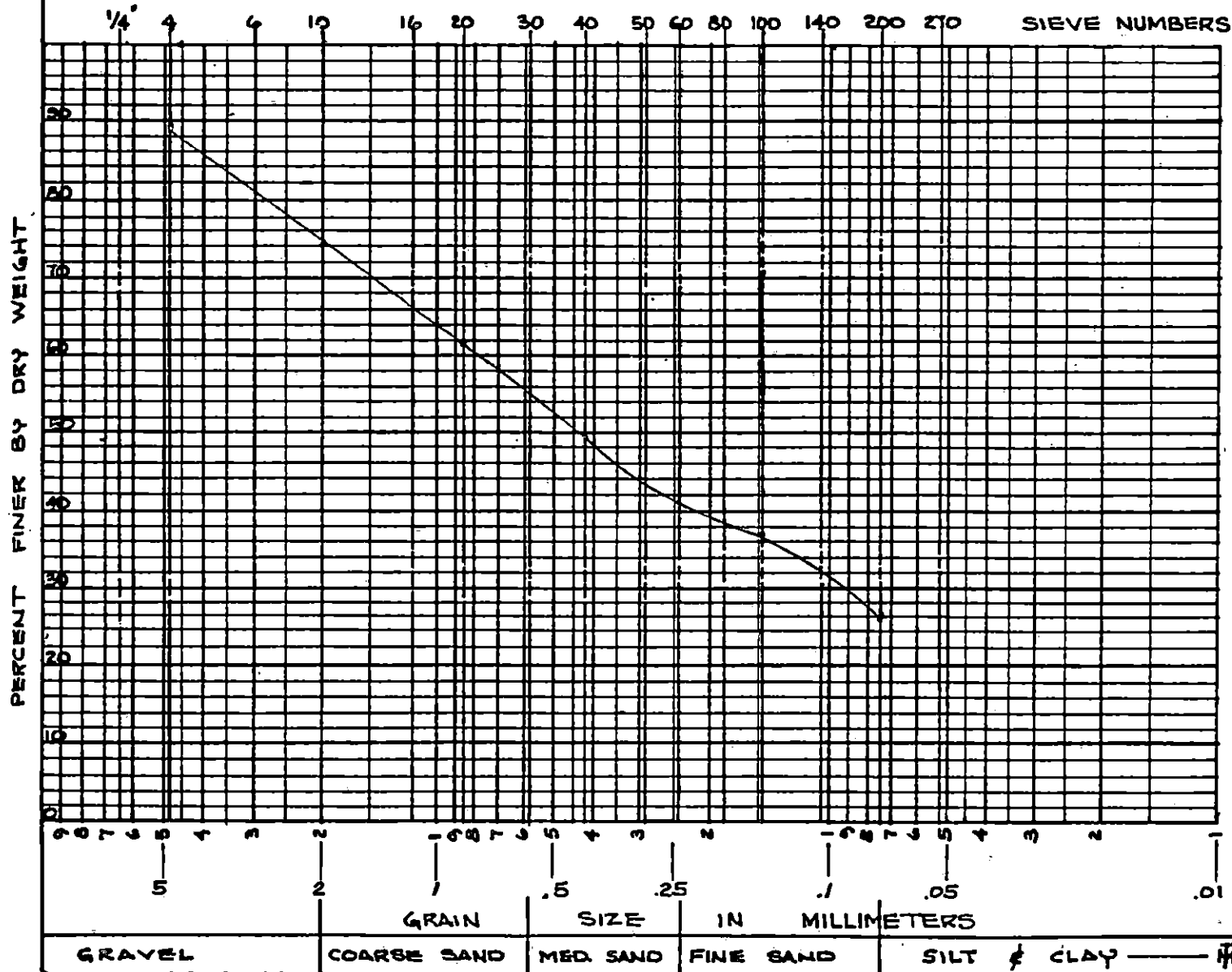
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M6-8

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M7 Location Merrick Landfill

Date Sample No. M7-1 Top Datum Depth Sample Kl.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.7				
4	4.750	58.2	43.5	14.7	25.3	
6	3.000					
10	2.000	109.6	51.4	17.4	671.9	
16	1.190					
20	.840	193.3	81.7	28.3	601.4	391.6
30	.590					
40	.420	271.2	77.9	26.4	86.8	131.2
50	.297					
60	.240	296.4	25.2	81.5	95.3	11.7
70	.210					
80	.177					
100	.149	303.0	61.6	21.2	97.5	1.5
140	.104					
200	.074	306.4	31.4	11.2	75.7	11.3
270	.053					
325	.044					
PAN		310.0	31.6	11.2	100.0	0.0
TOTAL			295.3	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	e

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

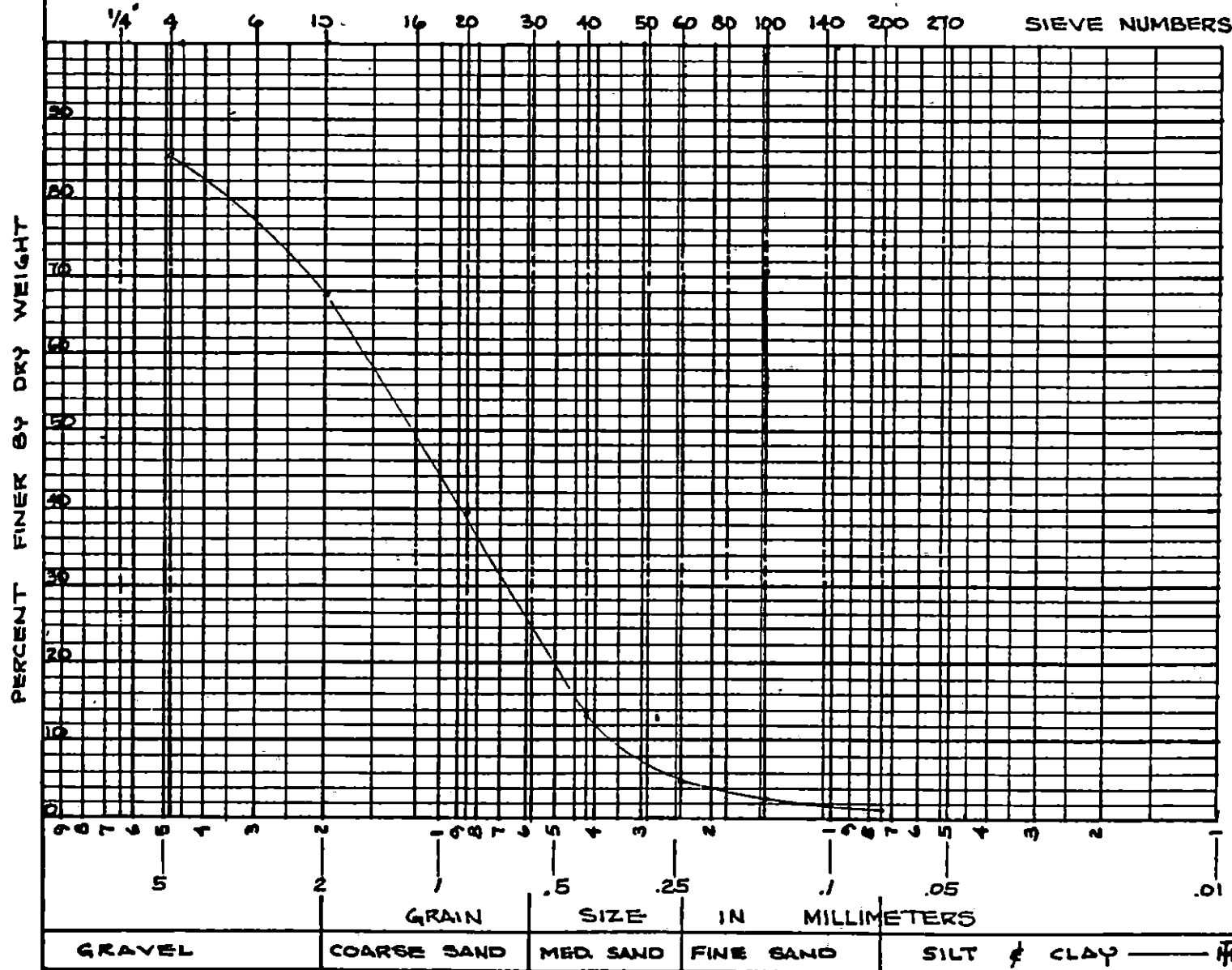
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M7-1

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

[Signature]

Date

1/3/85

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M7 Location Merrick Landfill

Date Sample No. M7-2 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.7				
4	4.750	18.3	31.6	11.7	78.3	
6	3.000					
10	2.000	22.0	37.7	31.7	68.3	
16	1.190					
20	.840	35.7	53.7	61.7	38.3	
30	.590					
40	.420	95.0	89.3	97.0	2.0	
50	.297					
60	.250	177.3	92.3	99.9	0.1	
70	.210					
80	.177					
100	.149	217.8	94.5	99.5	0.5	
140	.104					
200	.074	227.8	100.0	100.0	0.0	
270	.053					
325	.044					
PAN		231.9	100.0	100.0	0.0	
TOTAL		231.9	100.0	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	"e"

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

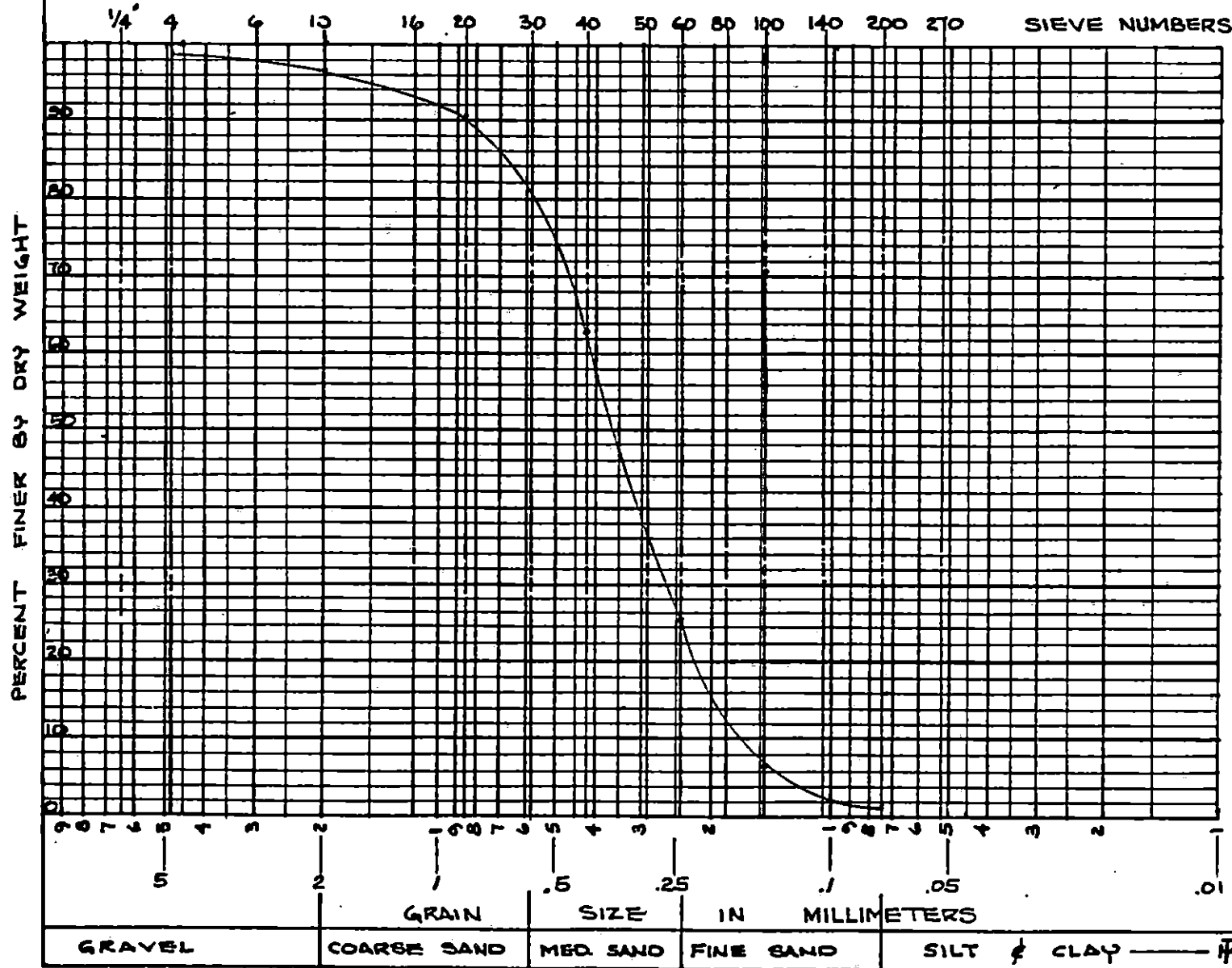
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: JFF



M7-2

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. J. Smith

Date 12-15-86

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M7 Location Merrick Landfill

Date 12-15-86 Sample No. M7-3 Top Datum Depth Sample Kt.

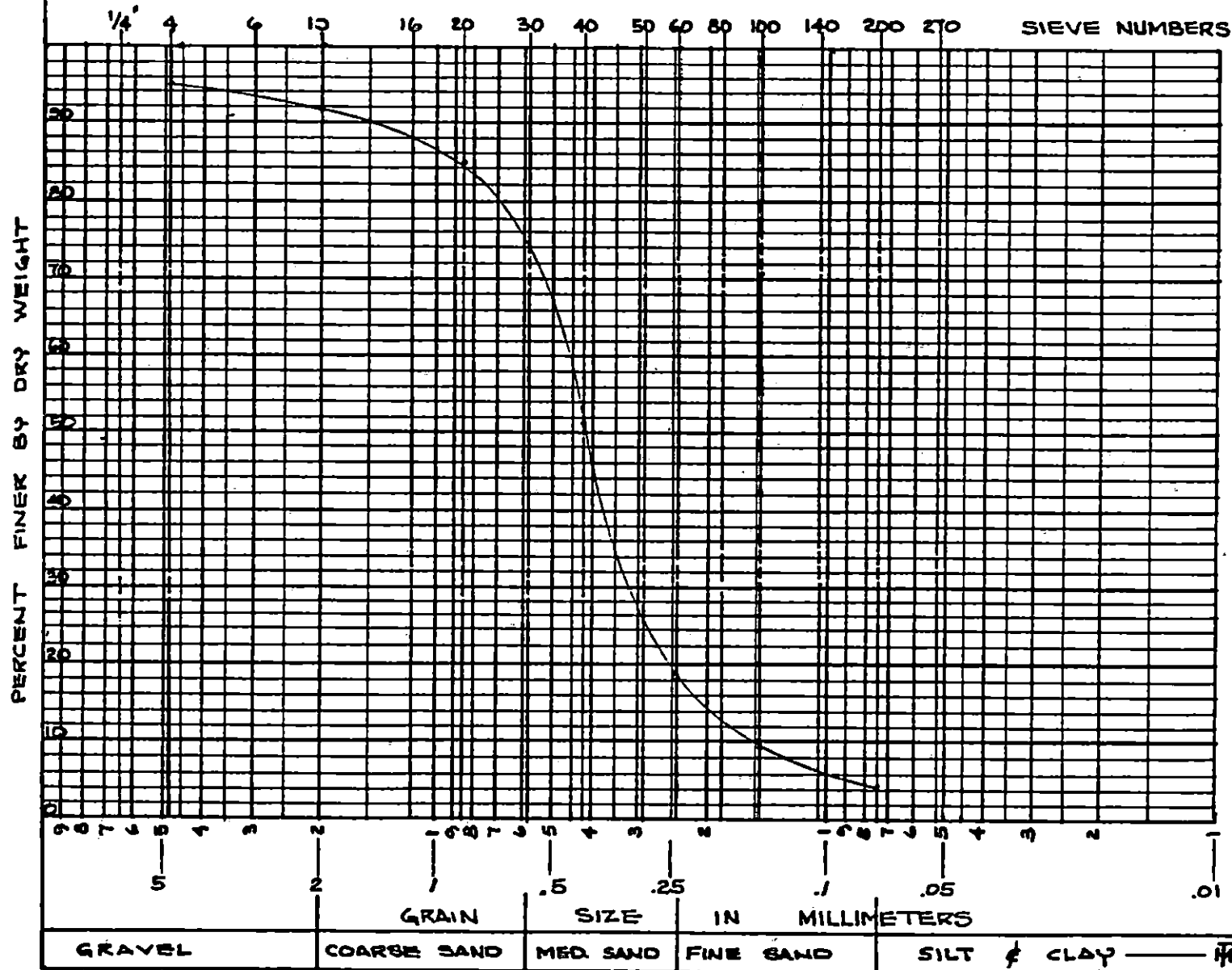
U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.7				
4	4.750	25.8	11.1	51.1	88.9	
6	3.000					
10	2.000	32.8	21.0	81.3	91.1	
16	1.190					
20	.840	48.5	15.7	96.6	98.4	
30	.590					
40	.420	120.2	71.5	98.6	99.8	
50	.297					
60	.240	191.2	71.2	98.6	99.8	
70	.210					
80	.177					
100	.149	209.8	18.6	98.6	99.8	
140	.104					
200	.074	221.6	18.8	98.6	99.8	
270	.053					
325	.044					
PAN		230.3	81.7	100.0	0.0	
TOTAL			2151.6	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - FLOWS	LAYERS
Soil + Tare	_____ gm	H _____ cm ³	H _____ cm ³	H _____ gm/cm ³
Tare	_____ gm	A _____ cm ³	A _____ cm ³	A _____ gm/cm ³
Dry Soil	_____ gm	V _____ cm ³	V _____ cm ³	V _____ gm/cm ³

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

BY: JFF



M. 7-3

Signed J. H. V. C.Date 10-1-86MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M7 Location Merrick LandfillDate _____ Sample No. M7-4 Top Datum _____ Depth _____ Sample M.

U. S. Test Sieve no.	Size MM	Weight Retained		% Retained	Total % Retained	% Finer	Notes
1/4	6.350	14.7					
4	4.750	34.4	191.7	71.2	71.2	92.8	
6	3.000						
10	2.000	61.6	272	101.0	171.2	92.8	
16	1.190						
20	.840	100.6	391.0	141.3	311.5	681.5	
30	.590						
40	.420	199.7	991.1	36.5	66.0	321.0	
50	.297						
60	.240	256.5	561.8	20.9	88.9	111.1	
70	.210						
80	.177						
100	.149	273.3	161.8	61.2	95.1	41.0	
140	.104						
200	.074	281.3	81.0	21.9	98.0	21.0	
270	.053						
325	.044						
PAN		286.5	51.2	11.9	100.0	0.0	
TOTAL			2711.8	100.0			

UNIT MASS	DENSITY	LOOSE		DENSE - BLOWS		LAYERS	
Soil + Tare	_____ gm	H	_____ cm	_____ gm/cc	H	_____ cm	_____ gm/cc
Tare	_____ gm	A	_____ cm	_____ PFC	A	_____ cm	_____ PFC
Dry Soil	_____ gm	V	_____ cm	_____ e	V	_____ cm	_____ e

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

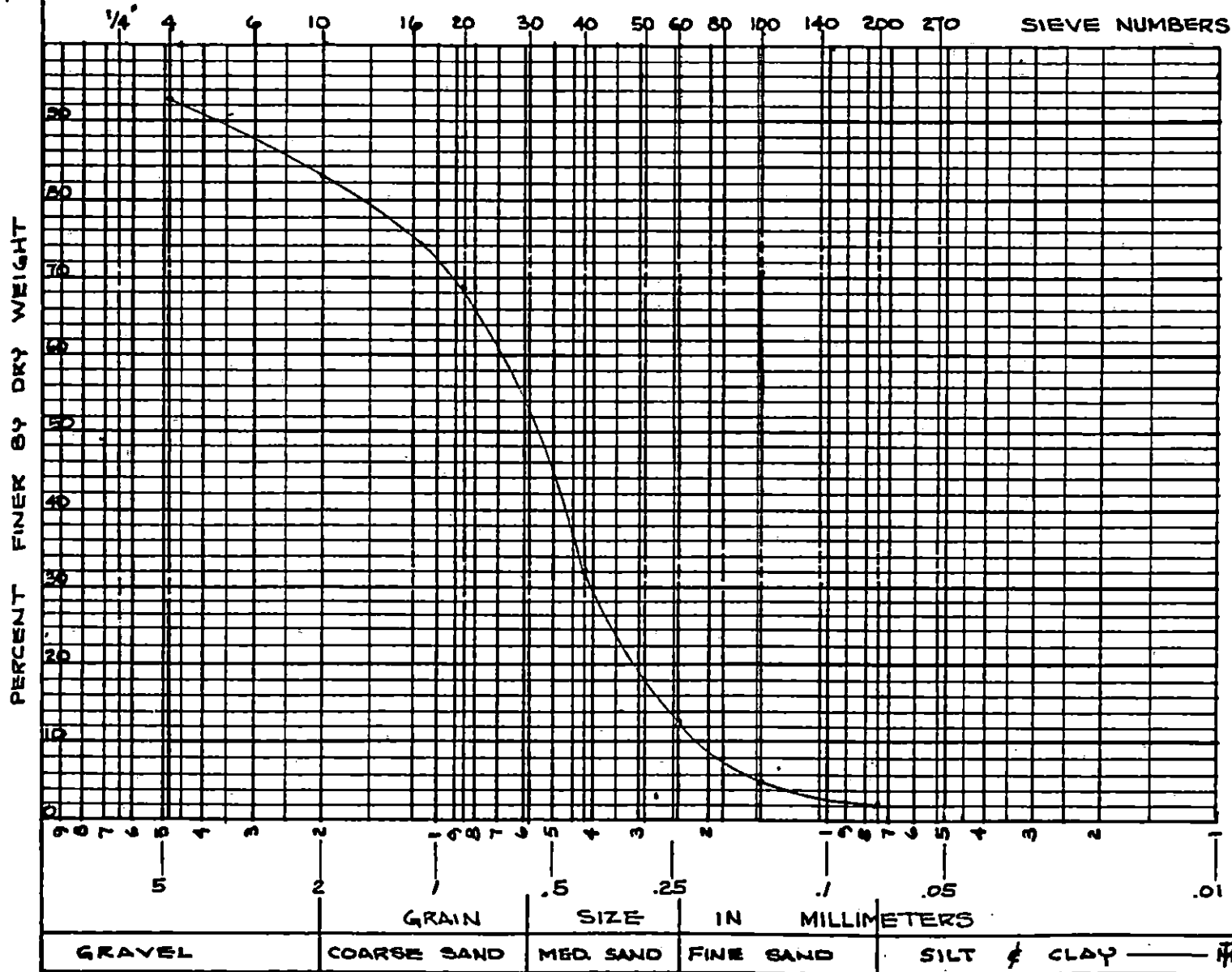
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/25/87

BY: 87



M 7-4

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. F. [Signature]

Date 9-17

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor _____

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil _____

Boring no. M7 Location Merrick Landfill

Date	Sample No.	Top Datum	Depth	Sample Kl.				
U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes		
0.075	6.350	19.1						
4	4.750	40.8	26.7	19.8	80.2			
6	3.000							
10	2.000	65.1	24.3	18.0	62.2			
16	1.190							
20	.840	87.5	22.4	16.6	45.6			
30	.590							
40	.420	108.3	20.8	15.4	30.2			
50	.297							
60	.250	122.8	14.5	10.8	19.4			
70	.210							
80	.177							
100	.149	131.2	8.2	6.1	131.3			
140	.104							
200	.074	139.2	8.2	6.1	71.2			
270	.053							
325	.044							
PAN		148.8	9.6	7.1	100.0			
TOTAL			134.7	100.0				

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	_____ gm	H _____ cm	H _____ cm	H _____ gm/cc
Tare	_____ gm	A _____ cm	A _____ cm	A _____ gm/cc
Dry Soil	_____ gm	V _____ cm	V _____ cm	V _____ gm/cc

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

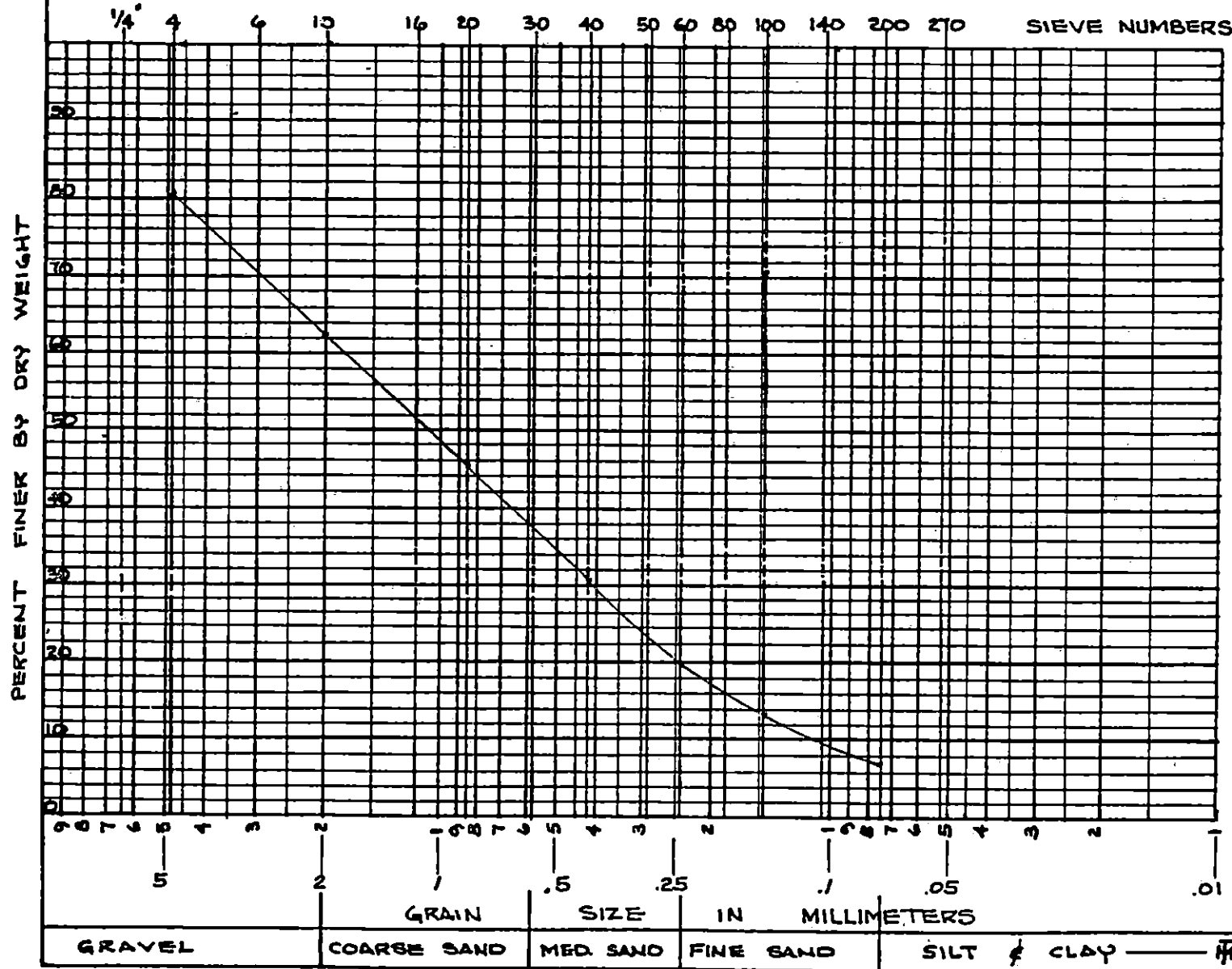
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/37

BY: JFF



M7-5

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. Smith

Date 9-1-86

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M7 Location Merrick Landfill

Date _____ Sample No. M7-6 Top Datum _____ Depth _____ Sample El. _____

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
<u>P1.5H</u> <u>1/4</u>	6.350	14.1				
Medium Gravel	4	47.0	32.9	15.0	15.0	85.0
	6	3.000				
	10	81.0	34.0	15.5	30.5	69.5
	16	1.190				
Coarse Sand	20	84.0	27.9	12.7	43.2	56.8
	30	.590				
	40	.420	162.4	53.5	24.4	67.6
	50	.297				
Medium Sand	60	.240	203.9	41.5	19.0	26.6
	70	.210				
	80	.177				
	100	.149	216.6	12.7	5.8	92.4
Fine Sand	140	.104				
	200	.074	225.5	8.9	4.1	96.5
	270	.053				
	325	.044				
Fines V F S	PAN	233.0	7.5	3.4	100.0	0.0
TOTAL			218.9	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	"e"

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

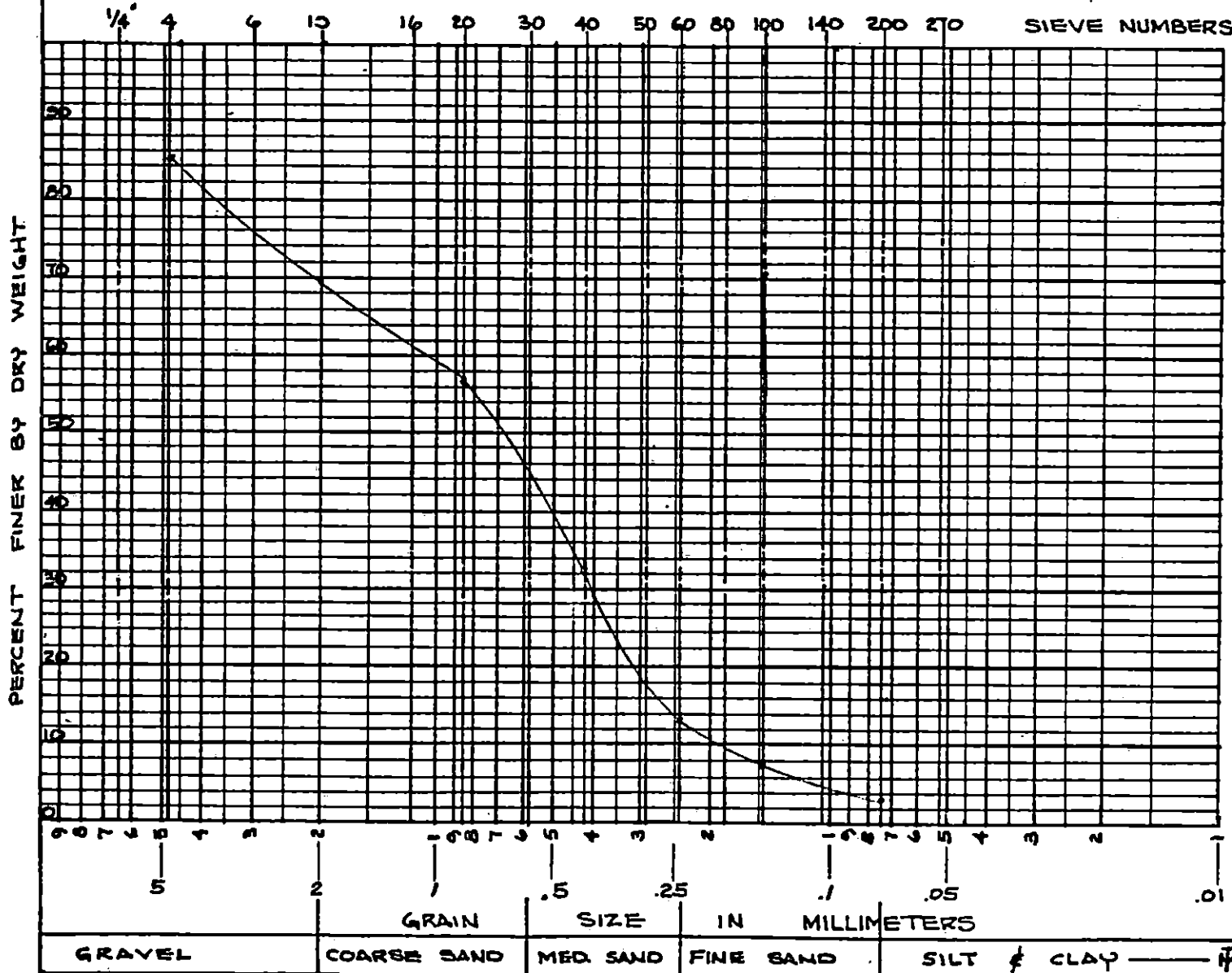
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



M.7-6

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. F. [Signature]

Date 9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M8 Location Merrick Landfill

Date _____ Sample No. 17B-3 Top Datum _____ Depth _____ Sample El. _____

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
VIS 1/4	6.350	17.1				
4	4.750	18.8	41.7	21.6	97.4	
6	3.000					
10	2.000	22.4	3.6	2.0	95.4	
16	1.190					
20	.840	35.5	13.1	7.2	88.2	
30	.590					
40	.420	98.0	62.5	39.3	51.7	
50	.297					
60	.250	170.8	72.8	40.0	13.0	
70	.210					
80	.177					
100	.149	192.7	21.9	12.0	11.9	
140	.104					
200	.074	195.7	31.0	1.6	40.3	
270	.053					
325	.044					
PAN		196.3	0.6	0.3	0.0	
TOTAL			182.2	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	"e"

COLOR _____ AVE. GRAIN SHAPE _____

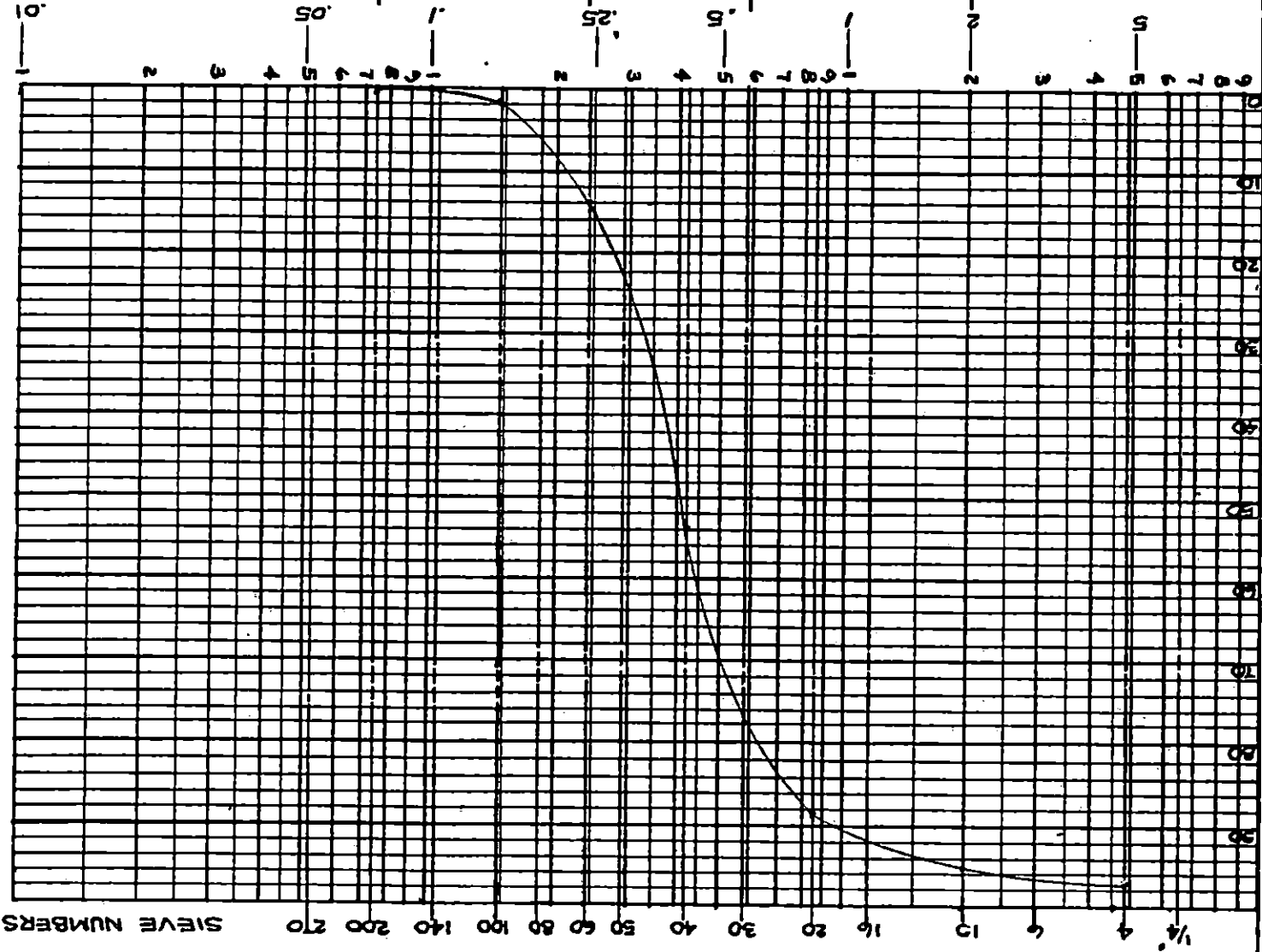
MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

dewatering systems and services

TELEX: 136446, MORETRENCH ROCKAWAY, NEW JERSEY

PERCENT FINER BY DRY WEIGHT



M-8-3

GRAVEL
COARSE SAND
MED. SAND
FINE SAND
SILT & CLAY ———— IMA CLASSIFICATION

Blank area for additional notes or calculations.

BY: J.F.F.

DATE: 9/21/87

JOB: Town of Hempstead PW-58-86
Merrick Landfill

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THAN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M8 Location Merrick Landfill

Date Sample No. 178-4 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
U.S. 1/4	6.350	14.1				
4	4.750	—	0.0	0.0	100.0	
6	3.000					
10	2.000	15.5	1.4	1.4	98.6	
16	1.190					
20	.840	22.3	6.8	6.8	93.2	
30	.590					
40	.420	80.5	58.2	58.2	41.8	
50	.297					
60	.250	128.9	47.9	91.5	8.5	
70	.210					
80	.177					
100	.149	137.6	91.2	98.9	1.1	
140	.104					
200	.074	138.6	11.0	99.7	0.3	
270	.053					
325	.044					
PAW		139.0	0.4	100.0	0.0	
TOTAL			1291.9	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	"e"

COLOR AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

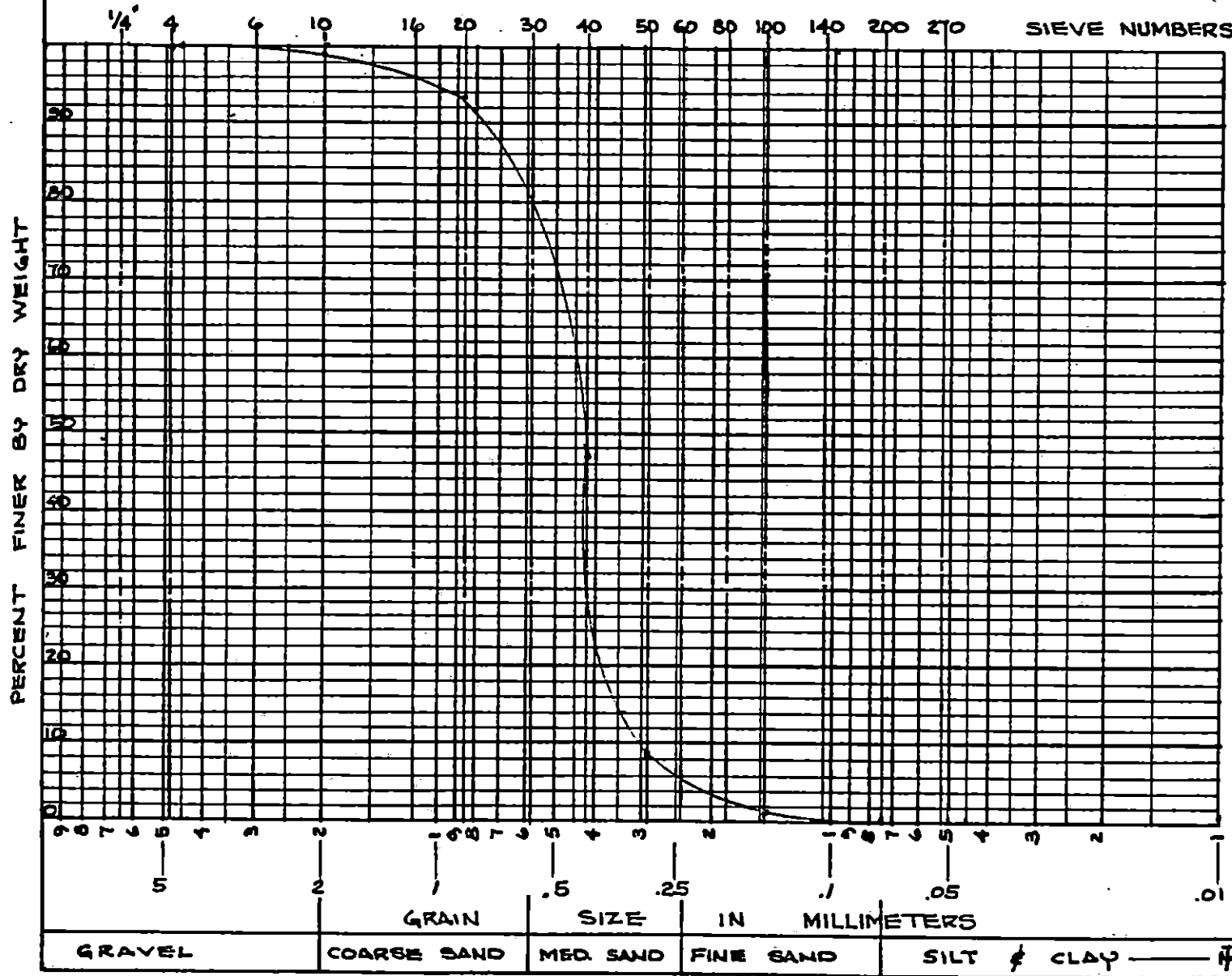
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 7/21/87

BY: JFF



M 8-4

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. G. Sullivan

Date 9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M8 Location Merrick Landfill

Date _____ Sample No. M8-5 Top Datum _____ Depth _____ Sample El. _____

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
4	4.750	19.8	51.7	21.4	97.6	
6	3.000					
10	2.000	29.8	10.0	41.2	93.4	
16	1.190					
20	.840	52.9	23.1	91.8	82.1	
30	.590					
40	.420	132.6	84.7	35.8	52.2	
50	.297					
60	.250	216.4	78.8	33.3	85.5	
70	.210					
80	.177					
100	.149	239.9	23.5	91.9	95.4	
140	.104					
200	.074	246.8	61.9	21.9	98.3	
270	.053					
325	.044					
PAN		250.7	31.9	11.6	100.0	
TOTAL		2361.6	100.0			

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil + Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	"e"

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

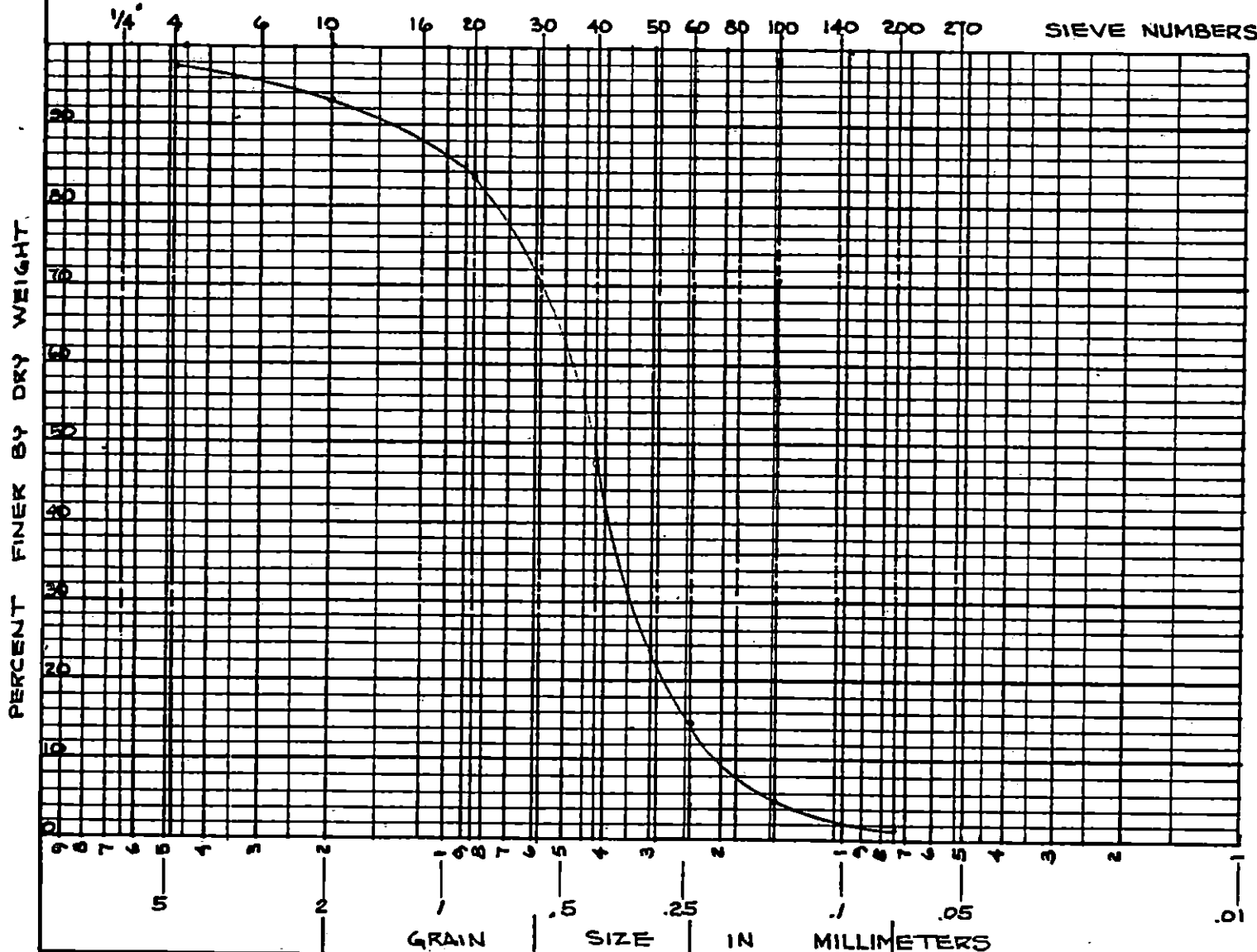
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/21/87

BY: JFF



M 8-5

GRAVEL

COARSE SAND

MED. SAND

FINE SAND

SILT & CLAY

— U.S. CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed

Date

9-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job

Town of Hempstead PW-58-86

Location

Nassau County, New York

Soil

Boring no. M8 Location Merrick Landfill

Date Sample No. MB-6 Top Datum Depth Sample El.

U. S. Test Sieve no.	Size MM	Weight Retained	% Retained	Total % Retained	% Finer	Notes
25 1/4	6.350	19.1				
4	4.750	21.3	71.2	31.4	76.6	
6	3.000					
10	2.000	38.5	17.2	8.2	88.1	
16	1.190					
20	.840	75.4	36.9	17.7	70.3	
30	.590					
40	.420	144.8	69.4	33.2	62.9	
50	.297					
60	.240	203.3	58.5	28.0	90.9	
70	.210					
80	.177					
100	.149	217.7	14.4	6.9	97.8	
140	.104					
200	.074	221.1	3.4	1.6	99.4	
270	.053					
325	.044					
PAN		223.0	1.9	0.9	100.0	
TOTAL			208.9	100.0		

UNIT MASS	DENSITY	LOOSE	DENSE - BLOWS	LAYERS
Soil +Tare	gm	H	cm	gm/cc
Tare	gm	A	cm	PFC
Dry Soil	gm	V	cm	"e"

COLOR

AVE. GRAIN SHAPE

MINEROLOGY & REMARKS

MORETRENCH AMERICAN CORPORATION

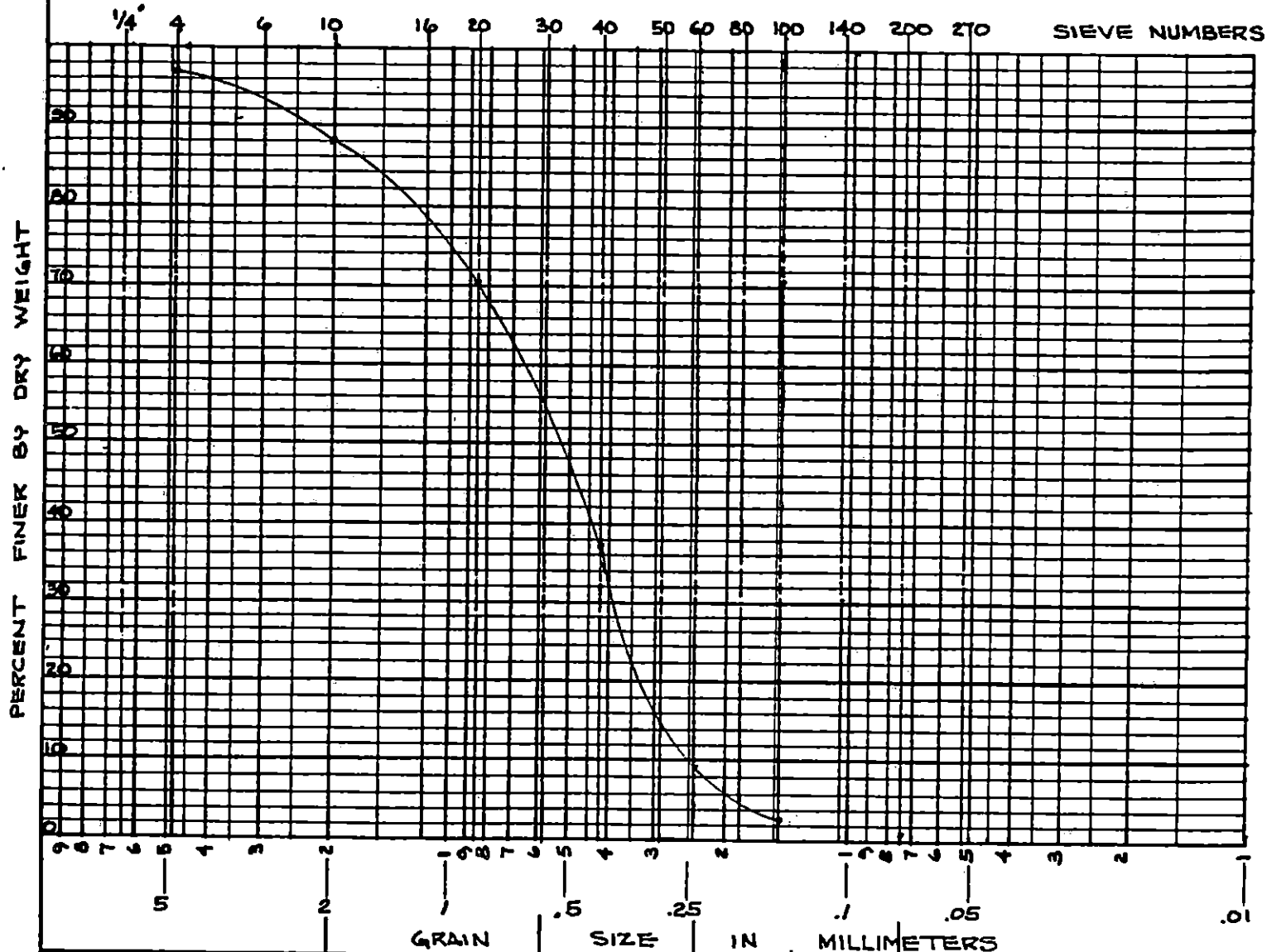
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/21/87

BY: JFF



M 8-6

GRAVEL

COARSE SAND

MED. SAND

FINE SAND

SILT & CLAY

— MA CLASSIFICATION

I certify that I have investigated for ASTM compliance, Analysis MT-

Signed J. Fullin

Date 7-11

MORETRENCH CORPORATION
ROCKAWAY, NEW JERSEY

Soils Laboratory

SOILS FINER THEN 1/4"
MECHANICAL ANALYSIS
ASTM E-11 & D-422

Contractor

Job Town of Hempstead PW-58-86

Location Nassau County, New York

Soil

Boring no. M8 Location Merrick Landfill

Date 7-11 Sample No. M8-7 Top Datum Depth Sample El.

	U. S. Test Sieve no.	Size MM	Weight Retained		% Retained	Total % Retained	% Finer	Notes
F Medium Gravel	4 <u>10</u>	4.750 <u>6.350</u>	38.7 <u>14.1</u>	24.6 <u> </u>	14.17 <u> </u>	14.17 <u> </u>	85.13 <u> </u>	
	4	4.750	38.7	24.6	14.17	14.17	85.13	
	6	3.000						
	10	2.000	53.7	15.0	9.0	23.17	76.13	
Coarse Sand	16	1.190						
	20	.840	73.7	20.0	12.10	35.17	64.13	
	30	.590						
	40	.420	118.8	45.1	27.0	62.17	37.13	
Medium Sand	50	.297						
	60	.240	151.6	32.8	19.17	82.14	17.16	
	70	.210						
	80	.177						
Fine Sand	100	.149	163.5	11.4	7.11	89.15	10.15	
	140	.104						
	200	.074	171.9	8.4	5.0	94.15	5.15	
	270	.053						
Fines VF S	325	.044						
	PAN		180.9	9.0	5.3	100.0	0.10	
TOTAL			1661.8		100.0			

UNIT MASS
Soil + Tare
Tare
Dry Soil

DENSITY
____ gm
____ gm
____ gm

LOOSE

H _____ cm γ _____ gm/cc
A _____ cm γ_m _____ PFC
V _____ cm γ_e _____

DENSE - BLOWS

H _____ cm γ _____ gm/cc
A _____ cm γ_m _____ PFC
V _____ cm γ_e _____

LAYERS

COLOR _____ AVE. GRAIN SHAPE _____

MINEROLOGY & REMARKS _____

MORETRENCH AMERICAN CORPORATION

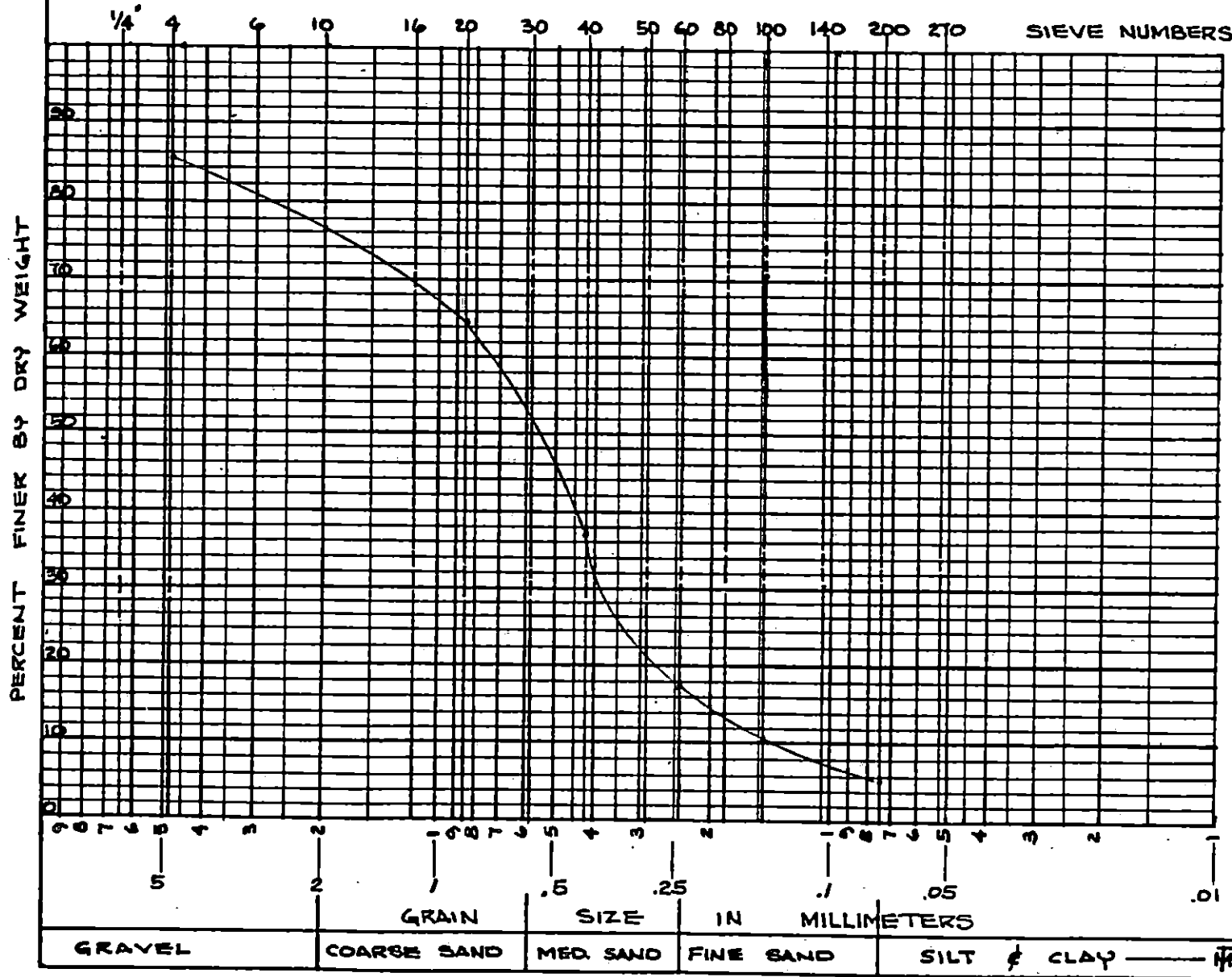
dewatering systems and services

TELEX: 136-446, MORETRENCH ROCKAWAY, NEW JERSEY

JOB: Town of Hempstead PW-58-86
Merrick Landfill

DATE: 9/22/87

BY: JFF



M8-7

APPENDIX G
WELL INSTALLATION LOGS

SAMPLE/CORE LOG

Boring M 1 B

PROJECT Merrick Landfill Phase II Investigation SHEET 1 OF 8

LOCATION Merrick Landfill DRILLING STARTED 8/18/87 DRILLING COMPLETED 8/18/87

LAND-SURFACE ELEV. 18.2 GROUNDWATER DEPTH 8'

DEPTH DRILLED 50' TYPE OF SAMPLE 2" spoon

DRILLING METHOD Auger HOLE DIAMETER 10"

WELL INSTALLED M 1 B HAMMER WEIGHT 140lb. HAMMER DROP 24"

DRILLING CONTRACTOR More Trench American DRILLER C. DeCorso INSPECTOR J. Rhyner

FROM	TO	CORE RECOVERY (INCHES)	TIME/HYDRAULIC PRESSURE OR BLOWS PER 8"	SAMPLE/CORE DESCRIPTION
15	19	10	2,2, 3,3	Interlayered peat, dk. gray silt
20	22	8	7,15,32	Gray & Bn. f-cs sand
25	27	12	5,9,14,22	Gray & Tan f-cs sand
30	32	12	10,15,19	26 Tan f-cs sand
35	37	7	4,5,9,12	Gray f-cs sand
40	42	8	8,4,6,8	Gray cs sand
45	47	8	18,29,43	48 Gray cs sand
50	52	12	18,27,21,14	7" gray silty f sand lower 5"
				interlayered silty f sand and dk.
				gray silty clay

SAMPLE/CORE LOG

Boring M 2 B

PROJECT Herrick Landfill Phase II Investigation SHEET 2 OF 8
LOCATION Herrick Landfill DRILLING 8/14/87 DRILLING 8/14/87
STARTED COMPLETED
LAND-SURFACE ELEV. 16.5 GROUNDWATER DEPTH 10'
DEPTH DRILLED 45' TYPE OF SAMPLE 2" spoon
DRILLING METHOD Auger HOLE DIAMETER 10"
WELL INSTALLED M2B HAMMER 140lb. HAMMER 24"
WEIGHT DROP
DRILLING CONTRACTOR More Trench DRILLER C. DeCorso INSPECTOR J. Rhyner
America

FROM	TO	CORE RECOVERY (INCHES)	TIME/HYDRAULIC PRESSURE OR BLOWS PER 6"	SAMPLE/CORE DESCRIPTION
15	17	8	7,6,30	Fill, wood
18	20	0	2,3,2,9	Black silt on spoon
20	22	24	1,14,13,7	6" organic silt, 18" black and bn. silty cs sand
25	27	15	11,20,24,28	Variated f-cs sand
30	32	16	17,16,18,13	Gray f-cs sand
35	37	14	10,12,15,13	Tan f sand
40	42	24	10,9,11,13	Tan f-cs sand
45	47	18	8,22,27,24	4" Tan f-cs sand, 10" interlayered dk. gray and silty f sand and silty clay

SAMPLE/CORE LOG

Boring M3B

PROJECT Herrick Landfill Phase II Investigation SHEET 3 OF 8
LOCATION Herrick Landfill DRILLING 8/11/87 DRILLING 8/12/87
STARTED COMPLETED
LAND-SURFACE ELEV. 21.0 GROUNDWATER DEPTH 19'
DEPTH DRILLED 51' TYPE OF SAMPLE 2" spoon
DRILLING METHOD Auger HOLE DIAMETER 10"
WELL INSTALLED M3B HAMMER 140lb. HAMMER 24"
WEIGHT DROP
DRILLING CONTRACTOR MoreTrench DRILLER C. DeCorso INSPECTOR J. Rhyner
American

FROM	TO	CORE RECOVERY (INCHES)	TIME/HYDRAULIC PRESSURE OR BLOWS PER 6"	SAMPLE/CORE DESCRIPTION
20	22	16	12,18,24	27 Fibrous peat, Dk. gray f sand
25	27	18	12,22,18	21 Gray cs sand
30	32	5	6,10,11	16 Gray f-cs sand
35	37	24	20,26,27	Bn. & gray f-cs sand
40	42	2	13,16,12	12 Tan f-cs sand
45	47	15	10,13,14	14 Gray f-cs sand
50	52	9	26,36,32	38 Gray f-cs silty & clayey sand
56	57	24	9,11,12,9	Dk. gray silty clay

Boring M4B

LOCATION Herrick Landfill

DRILLING STARTED 7/27/87 DRILLING COMPLETED 7/28/87

LAND-SURFACE ELEV. 19.7

GROUNDWATER DEPTH 18'

DEPTH DRILLED 45'

TYPE OF SAMPLE 2" spoon

DRILLING METHOD Auger

HOLE DIAMETER 10^3

WELL INSTALLED M4B

HAMMER WEIGHT 140lb. HAMMER DROP 24"

DRILLING CONTRACTOR MoreTrench

DRILLER C. DeCorso INSPECTOR J. Rhyner

American

[illegible]

SAMPLE/CORE LOG

Boring M5B

PROJECT Merrick Landfill Phase II Investigation SHEET 5 OF 8
 LOCATION Merrick Landfill DRILLING 8/20/87 DRILLING 8/20/87
 STARTED COMPLETED
 LAND-SURFACE ELEV. 24.0 GROUNDWATER DEPTH 25'
 DEPTH DRILLED 53' TYPE OF SAMPLE 2" spoon
 DRILLING METHOD Auger HOLE DIAMETER 10"
 WELL INSTALLED M5B HAMMER 140lb HAMMER 24"
 WEIGHT DROP
 DRILLING CONTRACTOR MoreTrench American DRILLER G. DeCorso INSPECTOR J. Rhyner

FROM	TO	CORE RECOVERY (INCHES)	TIME/HYDRAULIC PRESSURE OR BLOWS PER 6"	SAMPLE/CORE DESCRIPTION
22	24	12	19,26,20,9	Black cs fill, paper , glass, moi
25	27	8	10,8,9,12	Br. cs fill, wet
27	29	6	15,26,28,29	Br. cs fill, wet
30	32	14	19,33,37,37	Gray and tan cs sand
35	37	11	29,21,20,24	Gray cs sand
40	42	0	16,17,23,27	
45	47	8	12,19,18,15	Gray and tan silty f-cs sand
50	52	6	28, 32,23,28	Gray f sand
53	55	15	6,10,14,14	Dk. gray silty clay

SAMPLE/CORE LOG

PROJECT Merrick Landfill Phase II Investigation Boring M6B
 LOCATION Merrick Landfill SHEET 6 OF 8
 DRILLING 7/31/87 DRILLING 7/31/87
 STARTED COMPLETED
 LAND-SURFACE ELEV. 5.9 GROUNDWATER DEPTH 5'
 DEPTH DRILLED 41' TYPE OF SAMPLE 2" spoon
 DRILLING METHOD Auger HOLE DIAMETER 10"
 WELL INSTALLED M6B HAMMER 140lb HAMMER 24"
 WEIGHT DROP
 DRILLING CONTRACTOR MoreTrench American DRILLER C. DeCorso INSPECTOR J. Rhyner

FROM	TO	CORE RECOVERY (INCHES)	TIME/HYDRAULIC PRESSURE OR BLOWS PER 8"	SAMPLE/CORE DESCRIPTION
5	7	12	14,18,25,10	Dk. bn. cs sand,oily
10	12	8	20,20,20,25	Lt. bn. f-cs sand
15	17	7	6,8,11,12	Ora. and tan f-cs sand
20	22	14	18,14,14,15	Ora. and tan f-cs sand
25	27	8	12,16,14,28	Ora. an tan f sand
30	32	12	11,22,16,17	Ora. f-cs sand
35	37	7	21,18,16,14	Tan f-cs sand
40	42	8	21,18,16,14	5" tan and gray f-cs sand
42	44	24	50 total	4" dk. gray clayey silt, 16" dk.
				gray clayey silt, 8" dense, dk. gray
				silty clay.

SAMPLE/CORE LOG

Boring M7B

PROJECT Merrick Landfill Phase II Investigation SHEET 7 OF 8
 LOCATION Merrick Landfill DRILLING STARTED 8/10/87 DRILLING COMPLETED 8/10/87
 LAND-SURFACE ELEV. 7.5 GROUNDWATER DEPTH 5'
 DEPTH DRILLED 39' TYPE OF SAMPLE 2" spoon
 DRILLING METHOD Auger HOLE DIAMETER 10"
 WELL INSTALLED M7B - 2" Hole trench HAMMER WEIGHT 140lb. HAMMER DROP 24"
 DRILLING CONTRACTOR American DRILLER G. DeCorso INSPECTOR J. Rhyner

FROM	TO	CORE RECOVERY (INCHES)	TIME/HYDRAULIC PRESSURE OR BLOWS PER 6"	SAMPLE/CORE DESCRIPTION
10	12	14	15,16,13	16 Dk. bn. gravelly cs sand
15	17	12	7,9,11,1	Ora. and tan f sand
20	22	7	11,14,13	12 Tan and Ora, f sand
25	27	14	10,14,13	12 Tan and ora. cs sand
30	32	7	14,12,17	19 Ora. cs sand
35	37	10	9,15,26,30	Tan and ora. cs sand
39	41	10	14,17,17	15 5" tan f-cs sand, 5" dense dk. gray-green silty clay

SAMPLE/CORE LOG

Boring M8

PROJECT Merrick Landfill Phase II Investigation SHEET 8 OF 8
 LOCATION Merrick Landfill DRILLING 8/21/87 DRILLING 8/24/87
 LAND--SURFACE ELEV. 28.7 GROUNDWATER DEPTH ± 30'
 DEPTH DRILLED 60' TYPE OF SAMPLE 2" spoon
 DRILLING METHOD Auger HOLE DIAMETER 10"
 WELL INSTALLED M8 HAMMER 140lb. HAMMER 24"
 DRILLING CONTRACTOR MoreTrench American WEIGHT Drop
 DRILLER C. DeCorso INSPECTOR J. Rhyner

FROM	TO	CORE RECOVERY (INCHES)	TIME/HYDRAULIC PRESSURE OR BLOWS PER 6"	SAMPLE/CORE DESCRIPTION
28	30	12	4,11,9,13	Refuse, paper, leaves
35	37	2	11,19,10,7	Refuse, wood
38	40	0	12,14,20,19	
42	44	10	10,17,21,19	Gray f-cs sand
45	47	13	12,12,14,15	Gray f-cs sand
50	52	18	6,8,11,15	Tan and gray f-cs sand
55	57	24	13,33,36,37	Gray f-cs sand
59	61	8	43,36,28	6" gray cs sand, 2" dk. gray silty sand
60	62	7	18,12,10,12	Dk. gray silt and silty clay

APPENDIX H
DRILL CUTTINGS ANALYSES



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 87-13700 (C)

P.O. No.: 21-1987

Date: September 30, 1987

ANALYTICAL DATA REPORT PACKAGE

FOR

Town of Hempstead
Dept. of Sanitation

1600 Merrick Rd.

Merrick, NY 11566

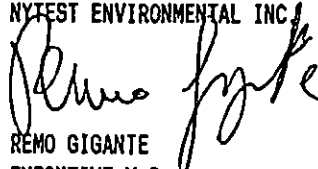
Att: James H. Heil

SAMPLE IDENTIFICATION	LABORATORY NUMBER	TYPE OF SAMPLE	DATE AND TIME OF SAMPLE COLLECTION
Merrick Landfill M2C-1	-	SOIL	8/19/87
M5C-1	-	SOIL	8/21/87

REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.


REMO GIGANTE
EXECUTIVE V.P.

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500

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	<u>Page</u>
I. Sample Request Form.	NA
II. Chain of Custody.	NA
III. Laboratory Chronicle	1
IV. Methodology Summary	2 - 3
V. Organic Data Reporting Qualifier	NA
VI. Sample Results.	4 - 5
A. M2C1	
B. M5C1	
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NA = NOT APPLICABLE

Laboratory Chronicle

Project No: 87-13700

Client Name: Town of Hempstead

Date Received: 8/19/87

Sample ID: M2C1;MSC1

Organics Extraction:

1. Acids _____
2. Base/Neutrals _____
3. Pesticides/PCBs _____
4. Dioxin _____

Analysis:

1. Volatiles _____
2. Acids _____
3. Base/Neutrals _____
4. Pesticides/PCBs _____
5. Dioxin _____

Section Supervisor
Review & Approval _____

Inorganics:

9/1/87 - 9/8/87

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

Section Supervisor
Review & Approval _____

Quality Control Supervisor
Review & Approval _____

If fractions are re-extracted and re-analyzed include dates for both.

000001

nytest environmental inc.

Methodology Summary NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	<u>Method</u>
Flame Sample Preparation	200.0
Furnace Sample Preparation	200.0
Mercury Sample Preparation	245.1
Hexavalent Chromium Sample Preparation	218.5

NON-AQUEOUS EXTRACTIONS - Reference (2)

SOIL AND SEDIMENT SAMPLES:

Flame, Sample Preparation	3050
Furnace Sample Preparation	3050
Mercury Sample Preparation	7471

SLUDGE/PETROLEUM BASED SAMPLES: - Reference (2)

Flame, Sample Preparation	3010 /3030 /3050
Furnace Sample Preparation	3020 /3030 /3050
Mercury Sample Preparation	7471

FLAME AA (Aqueous/Non-Aqueous) - Reference (1) (2)

Aluminum	202.1
Antimony	204.1/7040
Barium	208.1/7080
Beryllium	210.1/7090
Cadmium	213.1/7130
Chromium	218.1/7190
Cobalt	219.1
Copper	220.1/7210
Iron	236.1/7381
Lead	239.1/7420
Manganese	243.1/7460
Molybdenum	246.1
Nickel	249.1/7520
Potassium	258.1
Silver	272.1/7760
Sodium	273.1/7770
Tin	284.1
Vanadium	286.1/7910
Zinc	289.1/7950

000002

METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)

	<u>Method</u>
Antimony	204.1/7041
Arsenic	206.2/7060
Lead	239.2/7421
Selenium	270.2/7740
Thallium	279.2/7841
Tin	282.2
Vanadium	286.2/7911

AQUEOUS METHODOLOGIES - Reference (3)

Organochlorine Pesticides and PCB's by Gas Chromatography	608
Herbicides by Gas Chromatography	362
Purgeable Organics by GC/MS	624
Base/Neutral, Acids by GC/MS	625
2,3,7,8-TCDD by GC/MS	613/625
Petroleum Hydrocarbons - Ref. (1)	418.1

NON-AQUEOUS METHODOLOGIES - Reference (2)

Gas Chromatography/Mass Spectrometry for:

Purgeable Organics	8240
Base/Neutral and Acid Extractables	8270
Organochlorine Pesticides and PCB's by Gas Chromatography	8080
Petroleum Hydrocarbons - Ref. (1 & 4)	418.1

MISCELLANEOUS ANALYSIS: Reference 2

	<u>Method</u>
Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapt. 8.3

REFERENCE:

- (1) - 600/4-79-002 Methods for Chemical Analysis of Water and Waste
- (2) - SW 846 Test Methods for Evaluating Solid Waste
- (3) - 40 CFR Part 136, Vol. 49, No. 209 Test Parameters for the Analysis of Pollutants
- (4) - as modified by NJDEP-BISE

000003

Town of Hempstead

Project No: 87-13700

Sample No: M2C1

<u>E P Toxicity (PPM)</u>	<u>Max. Allowable Levels</u>	<u>Found</u>
Arsenic	5.0	< .5
Barium	100.0	<1.0
Cadmium	1.0	< .1
Chromium	5.0	< .5
Lead	5.0	< .5
Mercury	0.2	< .02
Selenium	1.0	< .1
Silver	5.0	< .5

ND = None Detected
< = Less than

000004

Town of Hempstead

Project No: 87-13700

Sample No: MSC1

<u>E P Toxicity (PPM)</u>	<u>Max. Allowable Levels</u>	<u>Found</u>
Arsenic	5.0	< .5
Barium	100.0	<1.0
Cadmium	1.0	< .1
Chromium	5.0	< .5
Lead	5.0	< .5
Mercury	0.2	< .02
Selenium	1.0	< .1
Silver	5.0	< .5

ND = None Detected

< = Less than

000005



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 87-13700 (B)

P.O. No.: 21-1987

Date: September 30, 1987

ANALYTICAL DATA REPORT PACKAGE
FOR

Town of Hempstead
Dept. of Sanitation

1600 Merrick Rd.

Merrick, NY 11566

Att: James H. Heil

SAMPLE
IDENTIFICATION

QAZ-1

LABORATORY
NUMBER

N7-4031

TYPE OF
SAMPLE

WATER

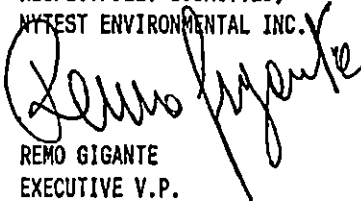
DATE AND TIME OF
SAMPLE COLLECTION

NA

REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

WE CERTIFY THAT THIS REPORT IS A
TRUE REPORT OF RESULTS OBTAINED
FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.


REMO GIGANTE
EXECUTIVE V.P.

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

Table of Contents

[illegible]

Laboratory Chronicle

Project No: 87-13700

Client Name: TOWN OF HEMPSTEAD

Date Received: 8/21/97

Sample ID: QAZ-1

Organics Extraction:

1. Acids _____
2. Base/Neutrals _____
3. Pesticides/PCBs _____
4. Dioxin _____

Analysis:

8/25/97

1. Volatiles _____
2. Acids _____
3. Base/Neutrals _____
4. Pesticides/PCBs _____
5. Dioxin _____

Section Supervisor
Review & Approval _____

[Signature]

Inorganics:

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

Section Supervisor
Review & Approval _____

Quality Control Supervisor
Review & Approval _____

If fractions are re-extracted and re-analyzed include dates for both.

000001

nytest environmental inc.

Methodology Summary NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION Reference (1)

Flame Sample Preparation	200.0
Furnace Sample Preparation	200.0
Mercury Sample Preparation	245.1
Hexavalent Chromium Sample Preparation	218.5

NON-AQUEOUS EXTRACTIONS Reference (2)

SOIL AND SEDIMENT SAMPLES:

Flame, Sample Preparation	3050
Furnace Sample Preparation	3050
Mercury Sample Preparation	7471

SLUDGE/PETROLEUM BASED SAMPLES: Reference (2)

Flame, Sample Preparation	3010 /3030 /3050
Furnace Sample Preparation	3020 /3030 /3050
Mercury Sample Preparation	7471

FLAME AA (Aqueous/Non-Aqueous) Reference (1) (2)

Aluminum	202.1
Antimony	204.1/7040
Barium	208.1/7080
Beryllium	210.1/7090
Cadmium	213.1/7130
Chromium	218.1/7190
Cobalt	219.1
Copper	220.1/7210
Iron	236.1/7381
Lead	239.1/7420
Manganese	243.1/7460
Molybdenum	246.1
Nickel	249.1/7520
Potassium	258.1
Silver	272.1/7760
Sodium	273.1/7770
Tin	284.1
Vanadium	286.1/7910
Zinc	289.1/7950

000002

nytest environmental inc.

METHODOLOGY SUMMARY - Cont'd

FURNACE AA

Reference (1) (2)

Antimony	—	204.1/7041
Arsenic		206.2/7060
Lead		239.2/7421
Selenium		270.2/7740
Thallium		279.2/7841
Tin		282.2
Vanadium		286.2/7911

AQUEOUS METHODOLOGIES

Reference (3)

Organochlorine Pesticides and PCB's by Gas Chromatography	608
Herbicides by Gas Chromatography	362
Purgeable Organics by GC/MS	624
Base/Neutral, Acids by GC/MS	625
2,3,7,8-TCDD by GC/MS	613/625
Petroleum Hydrocarbons Ref. (1)	418.1

NON-AQUEOUS METHODOLOGIES Reference (2)

Gas Chromatography/Mass Spectrometry for:

Purgeable Organics	8240
Base/Neutral and Acid Extractables	8270
Organochlorine Pesticides and PCB's by Gas Chromatography	8080
Petroleum Hydrocarbons Ref. (1 & 4)	418.1

(1) - 600/4-79-002 Methods for Chemical Analysis of Water and Waste

(2) - SW 846 Test Methods for Evaluating Solid Waste

(3) - 40 CFR Part 136, Vol. 49, No. 209 Test Parameters for the
Analysis of Pollutants

(4) - as modified by NJDEP-BISE

000003

ORGANIC DATA REPORTING QUALIFIERS

- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)
- B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

000004

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: QAZ-1

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-4031

Sample Matrix: WATER

Data Release Authorized By: *John*

QC Report No:

Project No: 87-13700

Date Sample Received: 8/21/87

VOLATILE COMPOUNDS

Concentration: LOW Medium (Circle One)
 Date Extracted/Prepared: NA
 Date Analyzed: 8/25/87
 Conc/Dil Factor: 1 pH:
 Percent Moisture: NA
 Percent Moisture (Decanted): NA

CAS Number	<u>ug/l</u> or ug/Kg (Circle One)	CAS Number	<u>ug/l</u> or ug/Kg (Circle One)
74-87-3	Chloromethane 10.0 U	79-34-5	1,1,2,2-Tetrachloroethane 5.0 U
74-83-9	Bromomethane 10.0 U	78-87-5	1,2-Dichloropropane 5.0 U
75-01-4	Vinyl Chloride 10.0 U	10061-02-6	Trans-1,3-Dichloropropane 5.0 U
75-00-3	Chloroethane 10.0 U	79-01-6	Trichloroethane 5.0 U
75-09-2	Methylene Chloride 5.0 U	124-48-1	Dibromochloromethane 5.0 U
67-54-1	Acetone 10.0 U	79-00-5	1,1,2-Trichloroethane 5.0 U
75-15-0	Carbon Disulfide 5.0 U	71-43-2	Benzene 5.0 U
75-35-4	1,1-Dichloroethene 5.0 U	10061-01-5	cis-1,3-Dichloropropane 5.0 U
75-34-3	1,1-Dichloroethane 5.0 U	110-75-8	2-Chloroethylvinylether 10.0 U
156-50-5	Trans-1,2-Dichloroethane 5.0 U	75-25-2	Bromoform 5.0 U
57-65-3	Chloroform 5.0 U	591-78-6	2-Hexanone 10.0 U
107-06-2	1,2-Dichloroethane 5.0 U	108-10-1	4-Methyl-2-Pentanone 10.0 U
78-93-3	2-Butanone 10.0 U	127-18-4	Tetrachloroethene 5.0 U
71-55-5	1,1,1-Trichloroethane 5.0 U	108-88-3	Toluene 5.0 U
56-23-5	Carbon Tetrachloride 5.0 U	108-90-7	Chlorobenzene 5.0 U
109-05-4	Vinyl Acetate 10.0 U	100-41-4	Ethylbenzene 5.0 U
75-27-4	Bromodichloromethane 5.0 U	100-42-5	Styrene 5.0 U
			Total Xylenes 5.0 U
			Total Dichlorobenzene 30.0 U

For reporting results to EPA, the following results qualifiers are used.

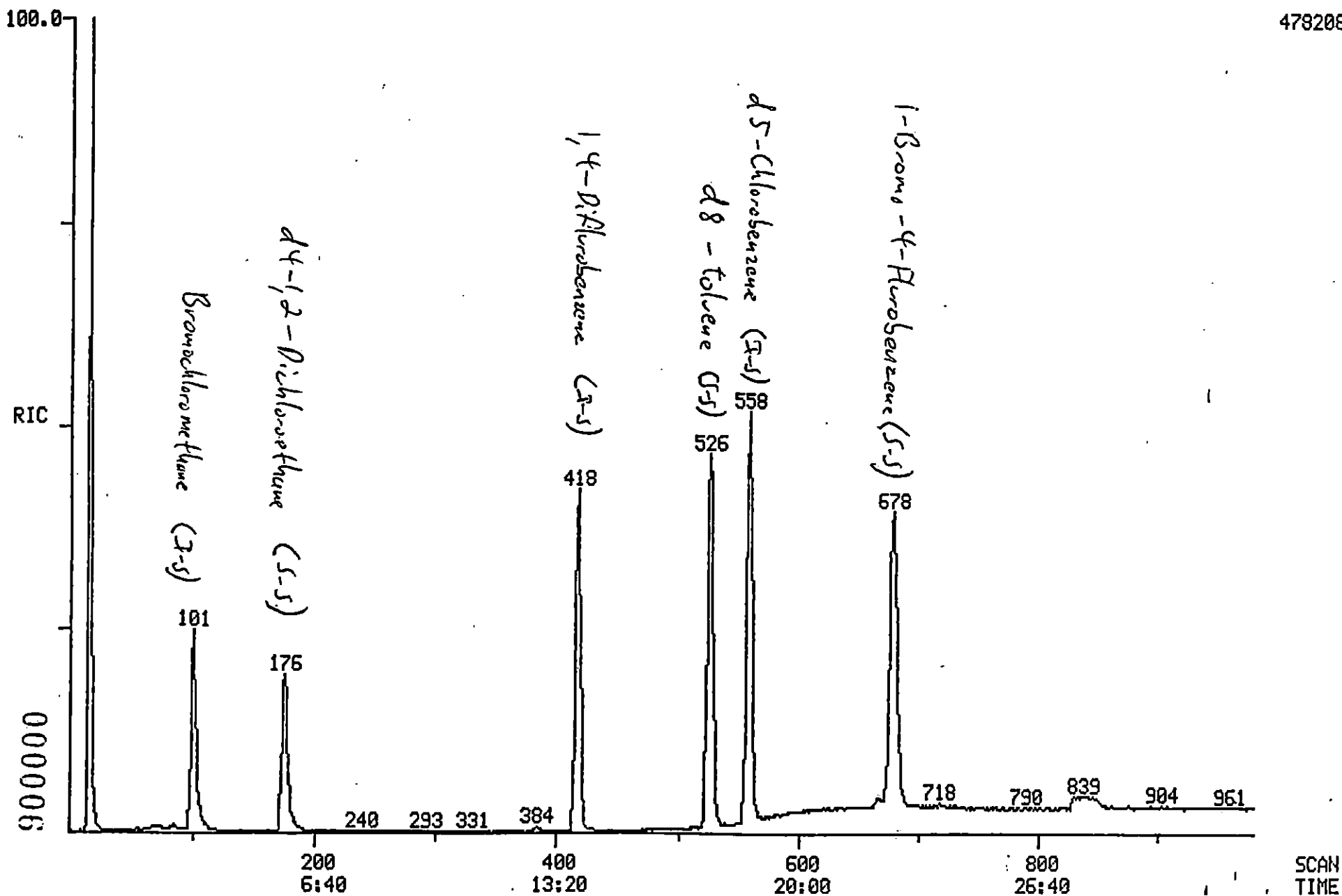
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- VALUE** If the result is a value greater than or equal to the detection limit, report the value. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample. This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000005

RIC DATA: D2919 #1 SCANS 1 TO 981
08/25/87 14:29:00 CALI: D2919 #2
SAMPLE: HEMPSTEAD TOWN SAN DEP, QAZ-1/N7-4031, REC'D 8/21/87
COND5.: 5MLS, 10UL INT STD'S
RANGE: G 1, 981 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

478208.



METHOD BLANK SUMMARY

Contractor: NYTEST ENVI. INC.

Project No: 97-13700

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
02918	8/25/87	VOA	WATER	LOW	1030		NO COMPOUNDS FOUND			

Comments:

000007

SURROGATE PERCENT RECOVERY SUMMARY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13700

Low: Medium:

[----- VOLATILE -----] [----- SEMI-VOLATILE -----] [----- PESTICIDES -----]

SNO TRAFFIC NO.	TOLUENE-D8 (75-130)	BFB (75-130)	1,2 DICHLORO- ETHANE-D4 (75-130)	NITRO- BENZENE-D5 (10-150)	2-FLUORO- BIPHENYL (10-150)	TERPHENYL- D14 (10-150)				PHENOL-D5 (10-150)	2-FLUORO- PHENOL (10-150)	2,4,6 TRIBROMO- PHENOL (10-150)	** DIBUTYL- CHLORENDI (10-160)
METHOD BLANK QAZ-1	101 101	101 100	114 112										

* VALUES OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 0 out of 6 ; outside of QC limits
Semi-Volatiles out of ; outside of QC limits
Pesticides: out of ; outside of QC limits

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GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: 1030 Date: 8/25/87

Lab ID: 02916

Data Release Authorized By: *flw*

Project No: 87-13700

Time: 12:30:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	27.89
75	30.0 - 60.0% of the base peak	53.06
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.98
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	84.44
175	5.0 - 9.0% of mass 174	6.25[7.40]*
176	Greater than 95.0%, but less than 101.0% of mass 174	82.82[98.08]*
177	5.0 - 9.0% of mass 176	5.74[6.93]**

* Value in parenthesis is % mass 174.

** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
PERF STD	02916	8/25/87	12:30
WORK STD	02917	8/25/87	12:58
METHOD BLANK	02918	8/25/87	13:45
QAZ-1	N7-4031	8/25/87	14:29

000009