N00102.AR.001844
NSY PORTSMOUTH
5090.3a

LETTER REGARDING THE TRANSMITTAL OF ANALYTICAL RESULTS FROM THE 5 DECEMBER 1995 WATER SAMPLING EVENT NSY PORTSMOUTH ME
12/29/1995
MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANGUS S. KING, JR.
GOVERNOR

EDWARD O. SULLIVAN
COMMISSIONER

December 29, 1995

Mr. Ken Plaisted
Director, Environmental
Environmental Affairs Office
Portsmouth Naval Shipyard
Portsmouth, N.H. 03804-5000

RE: December 14, 1995 Conference Call Summation

Dear Ken:

I've enclosed the analytical results from the December 5, 1995 sampling event. The results were inadvertently left out of the letter sent December 28, 1995.

Sincerely,

Nancy Beardsley

Nancy Beardsley
Federal Facilities Remediation Unit
Bureau of Hazardous Materials and Solid Waste Control

attachment: 12/5/95 sampling results

pc: Mark Hyland, MEDEP
Joan Jones, MEDEP
Peter Blanchard, MEDEP
Richard Heath, MEDEP
Meghan Cassidy, USEPA
Jim Conroy, Northern Division

Copy

NORTHEAST
LABORATORY

P.O. Box 788
Waterville, Maine 04903-0788
Tel. (207) 873-7711
(NATIONWIDE) 1-800-244-8378
FAX 207-873-7022

DATE: December 13. 1995

TO: Joan Jones
Maine DEP

FROM: Rachel McDaniel
Organic Section Supervisor

RE: VOC Analysis of Water Sample 9542360/PSNY/E-2

We thought you might want to know that this sample contained three compounds that are neither EPA 8260 target analytes nor one of the additional VOC analytes that we normally report with Method 8260.

Based on ion profiles the compounds were tentatively identified by the NIST Library Software as Chlorotrifluoroethene, 1,2-Dichloro-1,1,2-trifluoroethane and 1,1,2-Trichloro-1,2,2-trifluoroethane, all freon type compounds.

We cannot positively identify these compounds or give a good quantitation without acquiring and analyzing the above standards using the same analytical conditions as were used to analyze your water sample.

However, to give you some idea of the concentration, I've asked the analyst to estimate a concentration range based on responses of 0.1 and 1.0 (the responses of the compounds would likely fall within that response range). The concentration estimates are as follows:

Compound	Concentration (ppb)
Chlorotrifluoroethene	34 - 340
1,2-Dichloro-1,1,2-trifluoroethane	61 - 610
1,1,2-Trichloro-1,2,2-trifluoroethane	79 - 790

I am attaching the total ion chromatogram for the sample and the ion profile matchups for these peaks. Richard Heath mentioned in his call today that he would like to have the supporting data.

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Attention: Joan Jones
Maine DEP
221 State St
Station #17
Augusta ME 04333

Lab Number: 95-0042359
Project Number: 9512666
P.O. Number: PSNY
Date of Report: 12/22/95
Date Collected: 12/05/95 15:00
Date Received: 12/06/95 16:20

Sample Desc: PSNY/E1

Sample Mtrx: Soil

Parameter	Result	Unit	Det Lim	Method	Date	Analyst
Semivolatile Organics	See Attached	ug/L	5	EPA 8270	12/18/95	vam
Volatile Organics, Soil	See Attached	ug/Kg	50	EPA 8240	12/12/95	vam

Reviewed By: James E. Curlett Date: 12-22-95
James E. Curlett, Lab Manager

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ANALYSIS REPORT

TO:
Maine DEP/Joan Jones

DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/06/95
DATE ANALYZED: 12/12/95
DATE REPORTED: 12/13/95

LABORATORY NUMBER: 9542359
SAMPLE MATRIX: Soil
ANALYST: VAM

SAMPLE DESCRIPTION: PSNY/E-1

VOLATILE ORGANICS

8260 Compounds	POL, ug/kg	Result ug/kg	8260 Compounds	POL, ug/kg	Result ug/Kg
Dichlorodifluoromethane	200	ND	1,2-Dibromoethane	50	ND
Chloromethane	200	ND	Chlorobenzene	50	ND
Vinyl Chloride	200	ND	1,1,1,2-Tetrachloroethane	50	ND
Bromomethane	200	ND	Ethylbenzene	50	ND
Chloroethane	200	ND	m,p-Xylene	50	ND
Trichlorofluoromethane	200	ND	o-Xylene	50	ND
1,1-Dichloroethene	50	ND	Styrene	50	ND
Methylene Chloride	**100**	**270**	Bromoform	50	ND
trans-1,2-Dichloroethene	50	ND	Isopropylbenzene	50	ND
1,1-Dichloroethane	50	ND	1,1,2,2-Tetrachloroethane	50	ND
2,2-Dichloropropane	50	ND	1,2,3-Trichloropropane	50	ND
cis-1,2-Dichloroethene	50	ND	n-Propylbenzene	50	ND
Chloroform	50	ND	Bromobenzene	50	ND
Bromochloromethane	50	ND	1,3,5-Trimethylbenzene	50	ND
1,1,1-Trichloroethane	50	ND	2-Chlorotoluene	50	ND
1,1-Dichloropropene	50	ND	4-Chlorotoluene	50	ND
Carbon Tetrachloride	50	ND	tert-Butylbenzene	50	ND
1,2-Dichloroethane	50	ND	1,2,4-Trimethylbenzene	50	ND
Benzene	50	ND	sec-Butylbenzene	50	ND
Trichloroethene	50	ND	4-Isopropyltoluene	50	ND
1,2-Dichloropropane	50	ND	1,3-Dichlorobenzene	50	ND
Bromodichloromethane	50	ND	1,4-Dichlorobenzene	50	ND
Dibromomethane	50	ND	n-Butylbenzene	50	ND
Toluene	50	ND	1,2-Dichlorobenzene	50	ND
1,1,2-Trichloroethane	50	ND	1,2-Dibromo-3-chloropropane	50	ND
1,3-Dichloropropane	50	ND	1,2,4-Trichlorobenzene	50	ND
Tetrachloroethene	50	ND	Hexachlorobutadiene	50	ND
Dibromochloromethane	50	ND	Naphthalene	50	ND
			1,2,3-Trichlorobenzene	50	ND

Additional VOC's			Additional VOC's		
Diethyl Ether	100	ND	Methyl Methacrylate	50	ND
Acetone	150	ND	2-Nitropropane	100	ND
Iodomethane	50	ND	4-Methyl-2-pentanone	100	ND
Allyl Chloride	50	ND	cis-1,3-Dichloropropene	50	ND
Carbon Disulfide	50	ND	2-Chloroethylvinyl Ether	150	ND
Acrylonitrile	100	ND	trans-1,3-Dichloropropene	50	ND
Methyl t-Butyl Ether (MTBE)	50	ND	Ethyl Methacrylate	50	ND
2-Butanone	200	ND	2-Hexanone	100	ND
Propionitrile	500	ND	trans-1,4-Dichloro-2-butene	50	ND
Methacrylonitrile	50	ND	Pentachloroethane	50	ND
Tetrahydrofuran	150	ND	Hexachloroethane	50	ND
1-Chlorobutane	50	ND	Nitrobenzene	150	ND
			Vinyl Acetate	150	ND

Surrogate	% Recovery
1,2-Dichloroethane-d4	84
Toluene-d8	94
4-Bromofluorobenzene	96

Comment: Results were calculated on an "as received" basis.
Analysis was conducted according to EPA Method 8260, "SW846", 3rd Ed., July 1992, Methanol Extraction.

< = Less than POL = Practical Quantitation Limit ND = None Detected

Reviewed by: James E. Curlett Date: 12.13.95
James E. Curlett, Laboratory Manager

NORTHEAST LABORATORY

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ANALYSIS REPORT

TO: Maine DEP/Joan Jones

DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/06/95
DATE EXTRACTED: 12/15/95
DATE ANALYZED: 12/18/95
DATE REPORTED: 12/20/95

LABORATORY NUMBER: 9542359
SAMPLE MATRIX: Solid
ANALYST: VAM

SAMPLE DESCRIPTION: PSNY/E-1

SEMI-VOLATILE ORGANICS

Compound	PQL mg/kg*	Results mg/kg	Compound	PQL mg/kg*	Results mg/kg
Base Neutral Extractables			**Acid Extractables**		
N-nitrosodimethylamine	5	ND	Phenol	5	ND
Aniline	5	ND	2-Chlorophenol	5	ND
Bis(2-chloroethyl)ether	5	ND	2-Methylphenol(o-cresol)	5	ND
1,3-Dichlorobenzene	5	ND	3&4-methylphenol(m&p-cresol)	5	ND
1,4-Dichlorobenzene	5	ND	2-Nitrophenol	5	ND
1,2-Dichlorobenzene	5	ND	2,4-Dimethylphenol	5	ND
Benzyl alcohol	5	ND	Benzoic acid	5	ND
Bis(2-chloroisopropyl)ether	5	ND	2,4-Dichlorophenol	5	ND
Hexachloroethane	5	ND	4-Chloro-3-methylphenol	10	ND
N-nitrosodi-n-propylamine	5	ND	2,4,5-Trichlorophenol	5	ND
Nitrobenzene	5	ND	2,4,6-Trichlorophenol	5	ND
Isophorone	5	ND	2,4-Dinitrophenol	5	ND
Bis(2-chloroethoxy)methane	5	ND	4-Nitrophenol	10	ND
1,2,4-Trichlorobenzene	5	ND	2-Methyl-4,6-dinitrophenol	10	ND
4-Chloroaniline	5	ND	Pentachlorophenol	10	ND
Hexachlorobutadiene	5	ND			
Hexachlorocyclopentadiene	5	ND			
2-Nitroaniline	5	ND	**Polyaromatic Hydrocarbons**		
Dimethylphthalate	5	ND	Naphthalene	5	ND
2,6-Dinitrotoluene	5	ND	2-Methylnaphthalene	5	ND
3-Nitroaniline	5	ND	2-Chloronaphthalene	5	ND
Dibenzofuran	5	ND	Acenaphthylene	5	ND
2,4-Dinitrotoluene	5	ND	Acenaphthene	5	ND
Diethylphthalate	5	ND	Fluorene	5	ND
4-Chlorophenylphenylether	5	ND	Phenanthrene	5	ND
4-Nitroaniline	5	ND	Anthracene	5	ND
N-nitrosodiphenylamine	5	ND	Fluoranthene	5	<5
Azobenzene	5	ND	Pyrene	5	<5
4-Bromophenylphenylether	5	ND	Benzo(a)anthracene	5	ND
Hexachlorobenzene	5	ND	Chrysene	5	ND
Di-n-butylphthalate	5	ND	Benzo(b)fluoranthene	5	ND
Benzidine	10	ND	Benzo(k)fluoranthene	5	ND
Benzylbutylphthalate	5	ND	Benzo(a)pyrene	5	ND
3,3-Dichlorobenzidine	10	ND	Benzo(g,h,i)perylene	5	ND
Bis(2-ethylhexyl)phthalate	5	ND	Dibenzo(a,h)anthracene	5	ND
Di-n-octylphthalate	5	ND	Indeno(1,2,3-cd)pyrene	5	ND

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	100	2-Fluorophenol	53
2-Fluorobiphenyl	110	Phenol-d5	65
Terphenyl-d14	94	2,4,6-Tribromophenol	44

*PQL's increased due to dilution factor.

Comment: Results were calculated on an "as received" basis.
Analysis was conducted according to EPA Method 8270, "SW846", 3rd Ed., 1986.

< = Less than PQL = Practical Quantitation Limit ND = None Detected

Reviewed by: James E. Curlett Date: 12.20.95
James E. Curlett, Laboratory Manager

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Attention: Joan Jones
Maine DEP
221 State St
Station #17
Augusta ME 04333

Lab Number: 95-0042360
Project Number: 9512666
P.O. Number: PSNY
Date of Report: 12/22/95
Date Collected: 12/05/95 15:00
Date Received: 12/06/95 16:20

Sample Desc: PSNY/E2

Sample Mtrx: G-Water

Parameter	Result	Unit	Det Lim	Method	Date	Analyst
Arsenic	<0.005	mg/L	.005	EPA 206.2	12/08/95	erl
Barium	0.14	mg/L	.05	EPA 200.7	12/08/95	erl
Cadmium	<0.01	mg/L	.01	EPA 200.7	12/08/95	erl
Chromium	<0.05	mg/L	.05	EPA 200.7	12/08/95	erl
Lead	0.23	mg/L	.05	EPA 200.7	12/08/95	erl
Mercury	<0.002	mg/L	.002	EPA 245.2	12/08/95	erl
Selenium	<0.005	mg/L	.005	EPA 270.2	12/08/95	erl
Silver	<0.05	mg/L	.05	EPA 200.7	12/08/95	erl
2,4,5,6-tetrachloro-m-xylene	85	%	40	EPA 8080	12/20/95	tsc
Aroclor-1016	<0.5	ug/L	.5	EPA 8080	12/20/95	tsc
Aroclor-1221	<0.5	ug/L	.5	EPA 8080	12/20/95	tsc
Aroclor-1232	<0.5	ug/L	.5	EPA 8080	12/20/95	tsc
Aroclor-1242	<0.5	ug/L	.5	EPA 8080	12/20/95	tsc
Aroclor-1248	<0.5	ug/L	.5	EPA 8080	12/20/95	tsc
Aroclor-1254	<1	ug/L	1	EPA 8080	12/20/95	tsc
Aroclor-1260	2.8	ug/L	1	EPA 8080	12/20/95	tsc
Semivolatile Organics	See Attached	ug/L	50	EPA 8270	12/14/95	vam
TPH-Fuel oil	See Attached	ug/L	5	DEP 4.1.1	12/08/95	tsc
Volatile Organics	See Attached	ug/L	5	EPA 8260	12/07/95	vam

COMMENTS

01 2,4,5,6-tetrachloro-m-xylene is a surrogate in PCB analysis.

02 The PCB chromatogram contains material which is likely weathered aroclor 1260.

Reviewed By: James E. Curlett Date: 12-22-95
James E. Curlett, Lab Manager

NORTHEAST LABORATORY

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ANALYSIS REPORT

TO: Maine DEP/Joan Jones

DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/06/95
DATE EXTRACTED: 12/11/95
DATE ANALYZED: 12/14/95
DATE REPORTED: 12/18/95

LABORATORY NUMBER: 9542360
SAMPLE MATRIX: Water
ANALYST: VAM

SAMPLE DESCRIPTION: PSNY/E-2

SEMI-VOLATILE ORGANICS

Compound	PQL* ug/L	Results ug/L	Compound	PQL* ug/L	Results ug/L
Base Neutral Extractables			**Acid Extractables**		
N-nitrosodimethylamine	50	ND	Phenol	50	ND
Aniline	50	ND	2-Chlorophenol	50	ND
Bis(2-chloroethyl)ether	50	ND	2-Methylphenol(o-cresol)	50	ND
1,3-Dichlorobenzene	50	ND	3&4-Methylphenol(m&p-cresol)	50	ND
1,4-Dichlorobenzene	50	ND	2-Nitrophenol	50	ND
1,2-Dichlorobenzene	50	ND	2,4-Dimethylphenol	50	ND
Benzyl alcohol	50	ND	Benzoic acid	50	ND
Bis(2-chloroisopropyl)ether	50	ND	2,4-Dichlorophenol	50	ND
Hexachloroethane	50	ND	4-Chloro-3-methylphenol	100	ND
N-nitrosodi-n-propylamine	50	ND	2,4,5-Trichlorophenol	50	ND
Nitrobenzene	50	ND	2,4,6-Trichlorophenol	50	ND
Isophorone	50	ND	2,4-Dinitrophenol	250	ND
Bis(2-chloroethoxy)methane	50	ND	4-Nitrophenol	250	ND
1,2,4-Trichlorobenzene	50	ND	2-Methyl-4,6-dinitrophenol	250	ND
4-Chloroaniline	50	ND	Pentachlorophenol	250	ND
Hexachlorobutadiene	50	ND			
Hexachlorocyclopentadiene	50	ND			
2-Nitroaniline	250	ND	**Polyaromatic Hydrocarbons**		
Dimethylphthalate	50	ND	Naphthalene	50	ND
2,6-Dinitrotoluene	50	ND	2-Methylnaphthalene	50	ND
3-Nitroaniline	250	ND	2-Chloronaphthalene	50	ND
Dibenzofuran	50	ND	Acenaphthylene	50	ND
2,4-Dinitrotoluene	50	ND	Acenaphthene	50	ND
Diethylphthalate	50	ND	Fluorene	50	ND
4-Chlorophenylphenylether	50	ND	Phenanthrene	50	ND
4-Nitroaniline	250	ND	Anthracene	50	ND
N-nitrosodiphenylamine	50	ND	Fluoranthene	50	ND
Azobenzene	250	ND	Pyrene	50	ND
4-Bromophenylphenylether	50	ND	Benzo(a)anthracene	50	ND
Hexachlorobenzene	50	ND	Chrysene	50	ND
Di-n-butylphthalate	50	ND	Benzo(b)fluoranthene	50	ND
Benzidine	100	ND	Benzo(k)fluoranthene	50	ND
Benzylbutylphthalate	50	ND	Benzo(a)pyrene	50	ND
3,3-Dichlorobenzidine	100	ND	Benzo(g,h,i)perylene	50	ND
Bis(2-ethylhexyl)phthalate	50	ND	Dibenzo(a,h)anthracene	50	ND
Di-n-octylphthalate	50	ND	Indeno(1,2,3-cd)pyrene	50	ND

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	107	2-Fluorophenol	81
2-Fluorobiphenyl	107	Phenol-d5	83
Terphenyl-d14	84	2,4,6-Tribromophenol	95

Analysis was conducted according to EPA Method 8270, "SW846", 3rd Ed., 1986.
*PQL's increased due to dilution factor.

< = Less than PQL = Practical Quantitation Limit ND = None Detected

Reviewed by: James E. Cunliffe Date: 12/18/95

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ANALYSIS REPORT

TO:
Maine DEP/Joan Jones

DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/06/95
DATE EXTRACTED: 12/07/95
DATE ANALYZED: 12/08/95
DATE REPORTED: 12/18/95

LABORATORY NUMBER: 9542360
SAMPLE MATRIX: Water
ANALYST: TSC

SAMPLE DESCRIPTION: PNSY/As Below

SEMI-VOLATILE PETROLEUM HYDROCARBONS

METHOD SUMMARY:
The water sample is defined as the entire contents of the container including any soil or secondary phase material present. The sample was extracted three (3) times with methylene chloride using a liquid/liquid extraction technique with sodium chloride added to increase the extraction efficiency. The combined extract was concentrated using a Kuderna-Danish Concentrator and then further concentrated to 1.0 ml using a gentle stream of nitrogen. The final extract and/or dilutions of the extract were analyzed using high resolution capillary FID Gas Chromatography (J & W DB-1 column, 0.25 micron phase, 0.32 mm ID, 30 meter). The sample chromatograms were compared to hydrocarbon standard chromatograms.

QUANTITATION/DESCRIPTION

NEL Sample #	Client Identification	Total Petroleum Hydrocarbons (Light fuel oils, Motor oils)
9542360	E-2	260,000 ug/L (ppb)*

A chromatogram of the diluted extract contains material (mostly unresolved) from carbon number 10 to beyond carbon number 40, with the envelope of material centering near carbon number 28. Neither pristane, phytane, nor the n-alkanes appear to be present. The chromatogram exhibits the general characteristics of a heavy weight petroleum product such as motor oil.

NOTE:
Identification of pristane, phytane, and the n-alkanes is based on chromatographic patterns and retention times on a single column. Identity has not been confirmed.

Several petroleum products have chromatographic profiles similar to one another; and product profiles change as weathering occurs. Descriptive/interpretive data has been provided for guidance only. Identity of products (either weathered or unweathered) should not be considered conclusive

*Quantitation is a based on a #2 fuel oil standard, utilizing an extended window from 3.3 to 50 minutes to include late eluting unresolved material.

Analysis was conducted according to modified ME DEP method 4.1.1.

< = Less than

Reviewed by: James E. Curlett Date: 12.19.95

James E. Curlett, Laboratory Manager

NORTHEAST LABORATORY

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ANALYSIS REPORT

TO:
Maine DEP/Joan Jones

DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/06/95
DATE ANALYZED: 12/07/95
DATE REPORTED: 12/13/95

LABORATORY NUMBER: 9542360
SAMPLE MATRIX: Water
ANALYST: VAM

SAMPLE DESCRIPTION: PSNY/E-2

VOLATILE ORGANICS

8260 Compounds	PQL ug/L	Result ug/L	8260 Compounds	PQL ug/L	Result ug/L
Dichlorodifluoromethane	5	ND	1,2-Dibromoethane	5	ND
Chloromethane	5	ND	Chlorobenzene	5	ND
Vinyl Chloride	5	ND	1,1,1,2-Tetrachloroethane	5	ND
Bromomethane	10	ND	Ethylbenzene	5	ND
Chloroethane	10	ND	m,p-Xylene	5	ND
Trichlorofluoromethane	5	ND	o-Xylene	5	ND
1,1-Dichloroethene	5	ND	Styrene	5	ND
Methylene Chloride	5	ND	Bromoform	5	ND
trans-1,2-Dichloroethene	5	ND	Isopropylbenzene	5	ND
1,1-Dichloroethane	5	ND	1,1,2,2-Tetrachloroethane	5	ND
2,2-Dichloropropane	5	ND	1,2,3-Trichloropropane	5	ND
cis-1,2-Dichloroethene	5	ND	n-Propylbenzene	5	ND
Chloroform	5	<5	Bromobenzene	5	ND
Bromochloromethane	5	ND	1,3,5-Trimethylbenzene	5	ND
1,1,1-Trichloroethane	5	ND	2-Chlorotoluene	5	ND
1,1-Dichloropropene	5	ND	4-Chlorotoluene	5	ND
Carbon Tetrachloride	5	ND	tert-Butylbenzene	5	ND
1,2-Dichloroethane	5	ND	1,2,4-Trimethylbenzene	5	ND
Benzene	5	ND	sec-Butylbenzene	5	ND
Trichloroethene	5	ND	4-Isopropyltoluene	5	ND
1,2-Dichloropropane	5	ND	1,3-Dichlorobenzene	5	ND
Bromodichloromethane	5	ND	1,4-Dichlorobenzene	5	ND
Dibromomethane	5	ND	n-Butylbenzene	5	ND
Toluene	5	ND	1,2-Dichlorobenzene	5	ND
1,1,2-Trichloroethane	5	ND	1,2-Dibromo-3-chloropropane	5	ND
1,3-Dichloropropane	5	ND	1,2,4-Trichlorobenzene	5	ND
Tetrachloroethene	5	ND	Hexachlorobutadiene	5	ND
Dibromochloromethane	5	ND	Naphthalene	5	ND
			1,2,3-Trichlorobenzene	5	ND

Additional VOC's			Additional VOC's		
Diethyl Ether	10	ND	Methyl Methacrylate	5	ND
Acetone	10	ND	2-Nitropropane	10	ND
Iodomethane	5	ND	4-Methyl-2-pentanone (MIBK)	5	ND
Allyl Chloride	5	ND	cis-1,3-Dichloropropene	5	ND
Carbon Disulfide	5	ND	2-Chloroethylvinyl ether	15	ND
Acrylonitrile	10	ND	trans-1,3-Dichloropropene	5	ND
Methyl t-Butyl Ether (MTBE)	5	ND	Ethyl Methacrylate	5	ND
2-Butanone (MEK)	10	ND	2-Hexanone	5	ND
Propionitrile	50	ND	trans-1,4-Dichloro-2-butene	5	ND
Methacrylonitrile	5	ND	Pentachloroethane	5	ND
Tetrahydrofuran	10	ND	Hexachloroethane	5	ND
1-Chlorobutane	5	ND	Nitrobenzene	15	ND
			Vinyl Acetate	15	ND

Surrogate	% Recovery
1,2-Dichloroethane-d4	113
Toluene-d8	105
4-Bromofluorobenzene	98

Analysis was conducted according to EPA Method 8260, "SW846", 3rd Ed., July 1992.

< = Less than PQL = Practical Quantitation Limit ND = None Detected

Reviewed by: James E. Curtis Date: 12-13-95

NORTHEAST
LABORATORY

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Attention: Joan Jones
Maine DEP
221 State St
Station #17
Augusta ME 04333

Lab Number: 95-0042361
Project Number: 9512666
P.O. Number: PSNY
Date of Report: 12/22/95
Date Collected: 12/05/95 15:00
Date Received: 12/06/95 16:20

Sample Desc: PSNY/E3

Sample Mtrx: Soil

Parameter	Result	Unit	Det Lim	Method	Date	Analyst
Arsenic	1.58	mg/Kg	.5	EPA 206.2	12/19/95	mjr
Barium	41.0	mg/Kg	5	EPA 200.7	12/08/95	erl
Cadmium	<5	mg/Kg	5	EPA 200.7	12/08/95	erl
Chromium	12.0	mg/Kg	5	EPA 200.7	12/08/95	erl
Lead	167	mg/Kg	8	EPA 200.7	12/08/95	erl
Mercury	1.20	mg/Kg	.5	EPA 245.2	12/21/95	mmr
Selenium	<0.5	mg/Kg	.5	EPA 270.2	12/21/95	mjr
Silver	<5	mg/Kg	5	EPA 200.7	12/08/95	erl
2,4,5,6-tetrachloro-m-xylene	136	%	40	EPA 8080	12/20/95	tsc
Aroclor-1016	<40	ug/Kg	40	EPA 8080	12/20/95	tsc
Aroclor-1221	<40	ug/Kg	40	EPA 8080	12/20/95	tsc
Aroclor-1232	<40	ug/Kg	40	EPA 8080	12/20/95	tsc
Aroclor-1242	<40	ug/Kg	40	EPA 8080	12/20/95	tsc
Aroclor-1248	<40	ug/Kg	40	EPA 8080	12/20/95	tsc
Aroclor-1254	<40	ug/Kg	40	EPA 8080	12/20/95	tsc
Aroclor-1260	350	ug/Kg	40	EPA 8080	12/20/95	tsc
Semivolatile Organics	See Attached	ug/L	5	EPA 8270	12/18/95	vam
Volatile Organics	See Attached	ug/Kg	50	EPA 8260	12/12/95	vam

COMMENTS

01 2,4,5,6-tetrachloro-m-xylene is a surrogate in PCB analysis.

02 The PCB chromatogram contains material which is likely weathered aroclor 1260. Quantitation excludes peaks which are not representative of aroclor 1260.

Reviewed By: James E. Curlett, Lab Manager Date: 12-22-95

NORTHEAST LABORATORY

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Waterville, Maine 04903-0788
Tel. (207) 873-7711
(NATIONWIDE) 1-800-244-8378
FAX 207-873-7022

ANALYSIS REPORT

TO:
Maine DEP/Joan Jones

DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/06/95
DATE ANALYZED: 12/12/95
DATE REPORTED: 12/13/95

LABORATORY NUMBER: 9542361
SAMPLE MATRIX: Soil
ANALYST: VAM

SAMPLE DESCRIPTION: PSNY/E-3

VOLATILE ORGANICS

8260 Compounds	PQL, ug/kg	Result ug/kg	8260 Compounds	PQL, ug/kg	Result ug/Kg
Dichlorodifluoromethane	200	ND	1,2-Dibromoethane	50	ND
Chloromethane	200	ND	Chlorobenzene	50	ND
Vinyl Chloride	200	ND	1,1,1,2-Tetrachloroethane	50	ND
Bromomethane	200	ND	Ethylbenzene	50	ND
Chloroethane	200	ND	m,p-Xylene	50	ND
Trichlorofluoromethane	200	ND	o-Xylene	50	ND
1,1-Dichloroethene	50	ND	Styrene	50	ND
Methylene Chloride	100	**120**	Bromoform	50	ND
trans-1,2-Dichloroethene	50	ND	Isopropylbenzene	50	ND
1,1-Dichloroethane	50	ND	1,1,2,2-Tetrachloroethane	50	ND
2,2-Dichloropropane	50	ND	1,2,3-Trichloropropane	50	ND
cis-1,2-Dichloroethene	50	ND	n-Propylbenzene	50	ND
Chloroform	50	ND	Bromobenzene	50	ND
Bromochloromethane	50	ND	1,3,5-Trimethylbenzene	50	ND
1,1,1-Trichloroethane	50	ND	2-Chlorotoluene	50	ND
1,1-Dichloropropene	50	ND	4-Chlorotoluene	50	ND
Carbon Tetrachloride	50	ND	tert-Butylbenzene	50	ND
1,2-Dichloroethane	50	ND	1,2,4-Trimethylbenzene	50	ND
Benzene	50	ND	sec-Butylbenzene	50	ND
Trichloroethene	50	ND	4-Isopropyltoluene	50	ND
1,2-Dichloropropane	50	ND	1,3-Dichlorobenzene	50	ND
Bromodichloromethane	50	ND	1,4-Dichlorobenzene	50	ND
Dibromomethane	50	ND	n-Butylbenzene	50	ND
Toluene	50	ND	1,2-Dichlorobenzene	50	ND
1,1,2-Trichloroethane	50	ND	1,2-Dibromo-3-chloropropane	50	ND
1,3-Dichloropropane	50	ND	1,2,4-Trichlorobenzene	50	ND
Tetrachloroethene	50	ND	Hexachlorobutadiene	50	ND
Dibromochloromethane	50	ND	Naphthalene	50	ND
			1,2,3-Trichlorobenzene	50	ND

Additional VOC's			Additional VOC's		
Diethyl Ether	100	ND	Methyl Methacrylate	50	ND
Acetone	150	ND	2-Nitropropane	100	ND
Iodomethane	50	ND	4-Methyl-2-pentanone	100	ND
Allyl Chloride	50	ND	cis-1,3-Dichloropropene	50	ND
Carbon Disulfide	50	ND	2-Chloroethylvinyl Ether	150	ND
Acrylonitrile	100	ND	trans-1,3-Dichloropropene	50	ND
Methyl t-Butyl Ether (MTBE)	50	ND	Ethyl Methacrylate	50	ND
2-Butanone	200	ND	2-Hexanone	100	ND
Propionitrile	500	ND	trans-1,4-Dichloro-2-butene	50	ND
Methacrylonitrile	50	ND	Pentachloroethane	50	ND
Tetrahydrofuran	150	ND	Hexachloroethane	50	ND
1-Chlorobutane	50	ND	Nitrobenzene	150	ND
			Vinyl Acetate	150	ND

Surrogate	% Recovery
1,2-Dichloroethane-d4	91
Toluene-d8	108
4-Bromofluorobenzene	104

Comment: Results were calculated on an "as received" basis.
Analysis was conducted according to EPA Method 8260, "SW846", 3rd Ed., July 1992, Methanol Extraction.

< = Less than PQL = Practical Quantitation Limit ND = None Detected

Reviewed by: James E. Curlett Date: 12/13/95
James E. Curlett, Laboratory Manager

NORTHEAST LABORATORY

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Tel. (207) 873-7711
(NATIONWIDE) 1-800-244-8378
FAX 207-873-7022

ANALYSIS REPORT

Maine DEP/Joan Jones

DATE SAMPLED: 12/05/95
DATE RECEIVED: 12/06/95
DATE EXTRACTED: 12/15/95
DATE ANALYZED: 12/18/95
DATE REPORTED: 12/20/95

LABORATORY NUMBER: 9542361
SAMPLE MATRIX: Solid
ANALYST: VAM

SAMPLE DESCRIPTION: PSNY/E-3

SEMI-VOLATILE ORGANICS

Compound	PQL mg/kg*	Results mg/kg	Compound	PQL mg/kg*	Results mg/kg
Base Neutral Extractables			**Acid Extractables**		
N-nitrosodimethylamine	5	ND	Phenol	5	ND
Aniline	5	ND	2-Chlorophenol	5	ND
Bis(2-chloroethyl)ether	5	ND	2-Methylphenol(o-cresol)	5	ND
1,3-Dichlorobenzene	5	ND	3&4-methylphenol(m&p-cresol)	5	ND
1,4-Dichlorobenzene	5	ND	2-Nitrophenol	5	ND
1,2-Dichlorobenzene	5	ND	2,4-Dimethylphenol	5	ND
Benzyl alcohol	5	ND	Benzoic acid	5	ND
Bis(2-chloroisopropyl)ether	5	ND	2,4-Dichlorophenol	5	ND
Hexachloroethane	5	ND	4-Chloro-3-methylphenol	10	ND
N-nitrosodi-n-propylamine	5	ND	2,4,5-Trichlorophenol	5	ND
Nitrobenzene	5	ND	2,4,6-Trichlorophenol	5	ND
Isophorone	5	ND	2,4-Dinitrophenol	5	ND
Bis(2-chloroethoxy)methane	5	ND	4-Nitrophenol	10	ND
1,2,4-Trichlorobenzene	5	ND	2-Methyl-4,6-dinitrophenol	10	ND
4-Chloroaniline	5	ND	Pentachlorophenol	10	ND
Hexachlorobutadiene	5	ND			
Hexachlorocyclopentadiene	5	ND			
2-Nitroaniline	5	ND	**Polyaromatic Hydrocarbons**		
Dimethylphthalate	5	ND	Naphthalene	5	ND
2,6-Dinitrotoluene	5	ND	2-Methylnaphthalene	5	ND
3-Nitroaniline	5	ND	2-Chloronaphthalene	5	ND
Dibenzofuran	5	ND	Acenaphthylene	5	ND
2.4-Dinitrotoluene	5	ND	Acenaphthene	5	ND
Diethylphthalate	5	ND	Fluorene	5	ND
4-Chlorophenylphenylether	5	ND	Phenanthrene	5	ND
4-Nitroaniline	5	ND	Anthracene	5	ND
N-nitrosodiphenylamine	5	ND	Fluoranthene	5	<5
Azobenzene	5	ND	Pyrene	5	<5
4-Bromophenylphenylether	5	ND	Benzo(a)anthracene	5	ND
Hexachlorobenzene	5	ND	Chrysene	5	ND
Di-n-butylphthalate	5	ND	Benzo(b)fluoranthene	5	ND
Benzidine	10	ND	Benzo(k)fluoranthene	5	ND
Benzylbutylphthalate	5	ND	Benzo(a)pyrene	5	ND
3,3-Dichlorobenzidine	10	ND	Benzo(g,h,i)perylene	5	ND
Bis(2-ethylhexyl)phthalate	5	ND	Dibenzo(a,h)anthracene	5	ND
Di-n-octylphthalate	5	ND	Indeno(1,2,3-cd)pyrene	5	ND

Surrogate	% Recovery	Surrogate	% Recovery
Nitrobenzene-d5	92	2-Fluorophenol	68
2-Fluorobiphenyl	93	Phenol-d5	63
Terphenyl-d14	78	2.4,6-Tribromophenol	56

*PQL's increased due to dilution factor.

Comment: Results were calculated on an "as received" basis.
Analysis was conducted according to EPA Method 8270, "SW846", 3rd Ed., 1986.

< = Less than PQL = Practical Quantitation Limit ND = None Detected

Reviewed by: James E. Curlett Date: 12-20-95
James E. Curlett, Laboratory Manager

Please print and bear down firmly

CHAIN OF CUSTODY RECORD

NORTHEAST LABORATORY

CLIENT INFORMATION:

Project # _____ Project Name PSNY

Client Name Maine DEP

Client Address State House station #17 Augusta ME 04333

Sampler Richard Heath Filtered field: Y / (N)

Send results to: Sam Jones

Client Contact: Same Ph. # 287-7877 Fax # 287-7826

P.O. # _____ **KNOWN HAZARDS ASSOCIATED WITH THE SAMPLES:**

CHAIN OF CUSTODY RECORD:

Relinquished by:	Received by:	Date/Time:
[signature]	[signature]	12/6/95 16:20

NEL SAMPLE NUMBER	SAMPLE LOCATION/ DESCRIPTION	DATE SAMPLED	TIME SAMPLED	MATRIX (1. Ground Water 2. DrinkingWater 3. Waste Water 4. Solid 5. Sludge 6. Other (Describe))	SAMPLE CONTAINER SIZE	TYPE	NUMBER	PRESERVATION	DESCRIBE ANALYSIS REQUIRED	COMMENTS
	E-1	12/5	3:00PM	4.)	4oz	Glass	1	—	EPA 8260 - VOCs EPA 8270 - SVOCs	42359
	E-2	12/5	3:00PM	1.)	40ml	VOA	2	HCL	EPA 8260 - VOCs	42360
					Amber 1L	Glass	2	—	EPA 8270 - SVOCs	
					1L	Glass	1	—	EPA 8080 - PCBs	
					1L	Plastic	2	HNO_3	Metals	
	E-3			4.)	4oz	Glass	1	—	EPA 8260 - VOCs	42361
								—	EPA 8270 - SVOCs	
								—	EPA 8080 - PCBs	
								—	Metals	

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Please Return Both Copies To The Lab With Samples • **CUSTOMER RESPONSIBLE FOR ALL SUBMITTED MATERIALS**

Please print and bear down firmly

CHAIN OF CUSTODY RECORD

NORTHEAST LABORATORY

CLIENT INFORMATION:

Project # _____ Project Name PNSY

Client Name Maine DEP

Client Address State House Station #17 Augusta ME 04333

Sampler Richard Heath Filtered field: Y (N)

Send results to: Joan Jones

Client Contact: Same Ph. # 287-7879 Fax # 287-7826

P.O. # _____ **KNOWN HAZARDS ASSOCIATED WITH THE SAMPLES:**

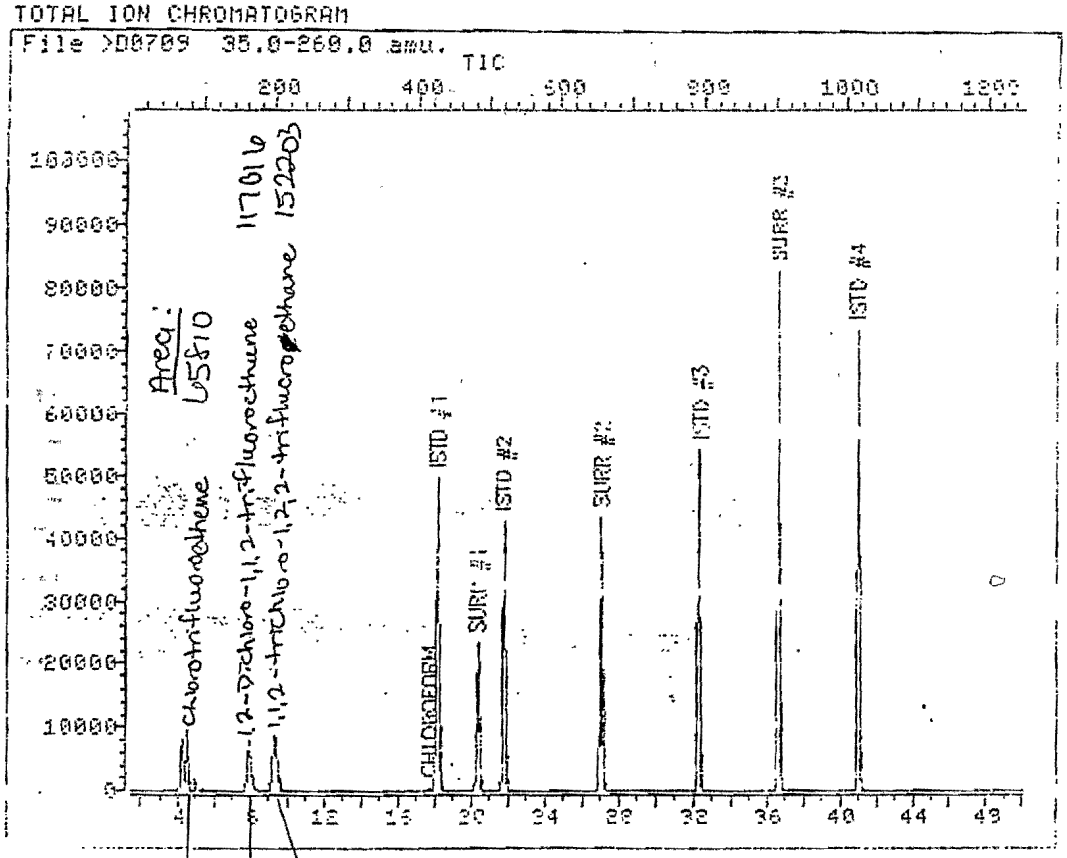
CHAIN OF CUSTODY RECORD:

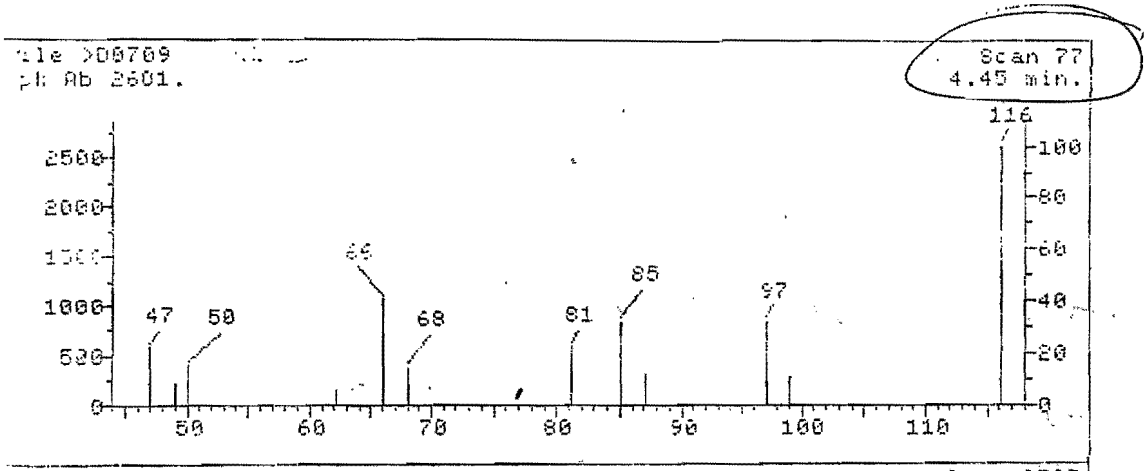
Relinquished by:	Received by:	Date/Time:
[illegible]	[illegible]	12/6 9:51 620

NEL SAMPLE NUMBER	SAMPLE LOCATION/ DESCRIPTION	DATE SAMPLED	TIME SAMPLED	MATRIX (1. Ground Water 2. DrinkingWater 3. Waste Water 4. Solid 5. Sludge 6. Other (Describe))	SAMPLE CONTAINER SIZE	TYPE	NUMBER	PRESERVATION	DESCRIBE ANALYSIS REQUIRED	COMMENTS
4230	E-2	12/5	3:00pm	1.)	1L	Amber	1	–	DEP 4.1.1 - Total Fuel Oil in Water	
									please provide chromatograph	
									& qualitive description	
									of result (i.e. type of	
									hydrocarbon product)	

W9542360 / MEDEP PSNY/E-2

TOTAL ION CHROMATOGRAM

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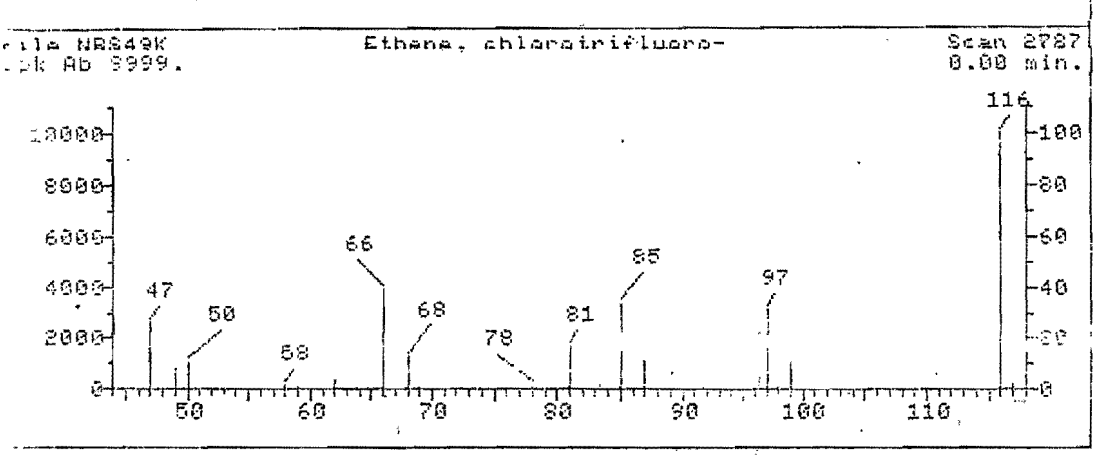
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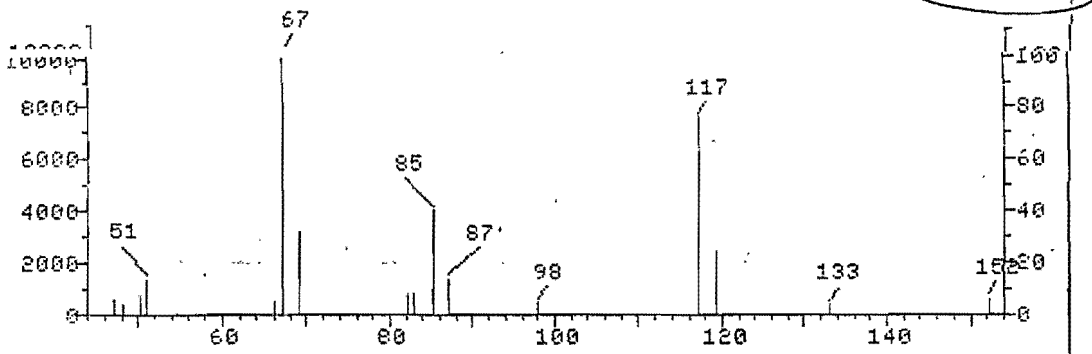

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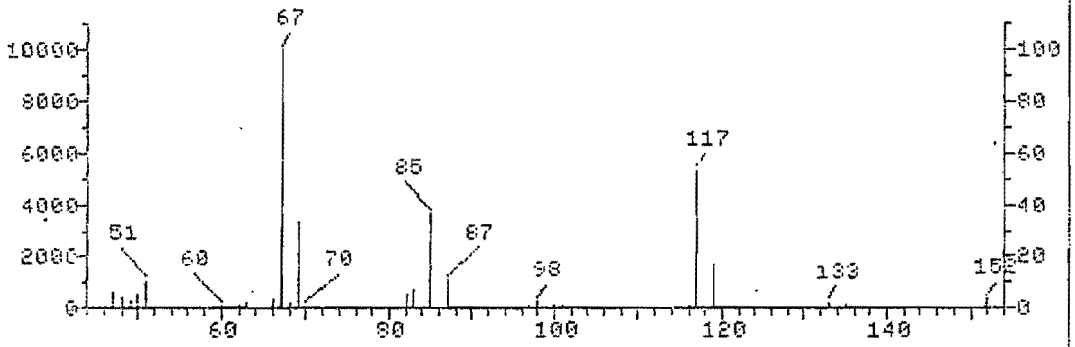

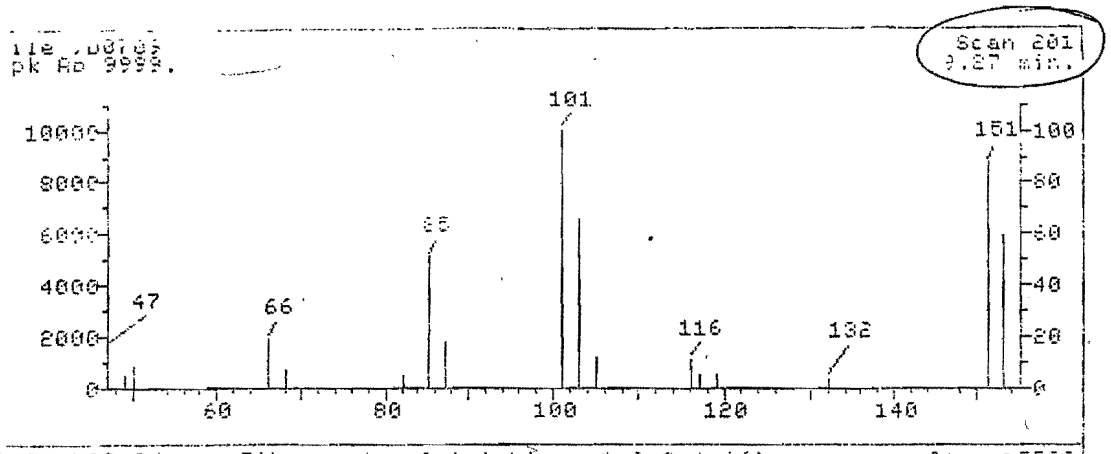
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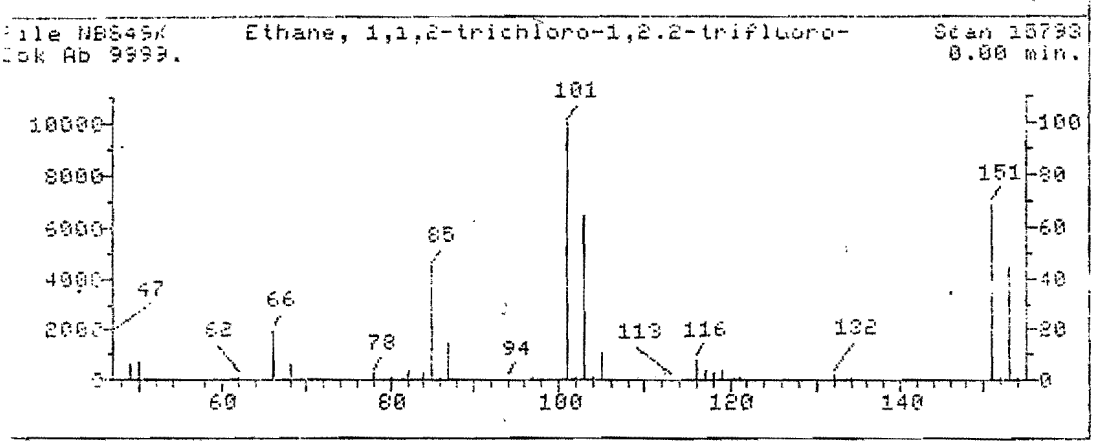
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