

REMEDIAL INVESTIGATION

**LINK FLIGHT
SIMULATION DIVISION**

HILLCREST FACILITY
BINGHAMTON, NEW YORK

NYSDEC SITE No. 704015

DRAFT COPY

PREPARED FOR

CAE-LINK CORP.

VOLUME 2

H2MGROUP

HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS

MELVILLE, N.Y.

RIVERHEAD, N.Y.

FAIRFIELD, N.J.

APPENDIX A

CHEMICAL PRODUCTS USED BY LINK FLIGHT SIMULATION DIVISION

LISTING OF CHEMICAL CONSTITUENTS*
OF PRODUCTS PURCHASED BY THE
LINK FLIGHT SIMULATION CORPORATION
1978 to 1986
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Acetic Acid	Calcium Chromate
Acetone (2 - Butanone)	Calcium Hydroxystearate
Acetoxysilane	Calcium Oleate
Acetylene	Calcium Sulfate Hemihydrate
Acrylic Resins & Monomers	Carbon Black
Acrylonitrile	Carbon
Aircraft Hydraulic Fluid	Carbon Dioxide
Alcohol-ester	Carbonate Ester
Aliphatic Hydrocarbon	Caustic Chlorite
Aliphatic Petroleum Distillate	Cellulosic Acetate
Alkali Metasilicate	Chlorodifluoroethane/chloropentafluoroethane
Alkali - Nitrate	Chlorodifluoroethane
Alkanolamine	Chromate Salt
n - Alkyldimethyl - 1 - Naphthylmethyl Ammonium	Chrome (Hexavalent)
Alkaline Metal Cleaner	Chromic Acid
Aliphatic Alcohol	Chromium
Aliphatic Carboxy Acid	Chromous Chloride in HCl
Aliphatic Methacrylate	Citric Acid
Aliphatic Polyamine Adduct Blend	Copper Sulfate
Alpha Olefin Sulfonate	Cupric Sulfate, 5 - Hydrate
Aluminum Oxide	Cyanoacrylate Adhesive
Aluminum Sulfate	Cyclohexylamine
Amines	Cyclotetramethylene
Ammonia	Cyclothermamethylene Oxide
Ammonium Nitrate	Denatured Alcohol
Ammonium Persulfate	Denatured Ethyl Alcohol
Ammonium Thiosulfate	Detergents
Antimony Pentoxide	Diacetone Alcohol (A Ketone)
Antioxidant	Diallyl Diglycol Carbonate
Aqueous/Polyhydric Alcohol	1,3 - Dichloro - 5,5 - Diaklyhdantoin
Argon	Dichlorodifluoromethane
Aromatic Hydrocarbons	Diethylene Glycol Mono
AW - 500	Diethylenetriamine
Azeotrope	Diethylaminoethanol
Benzoyl Peroxide	Diglycidyl Ether of Bisphenol A
Biphenol A Diglycidyl Ether Resin	Diisopropyl Peroxydicarbonate
Bis - (pentachloro - 2,4 - cyclopentadien - 1 - yl)	Dimethylamine Salt of MCPP
Booth Coating Compound	Dimethylamino Ethano
Borate Ester	Dioctyl Phthalate
n - Butanol	Diphenylmethane Diisocyanate
2 - Butoxyethanol	Dodecylguanidine Acetate
Butyl Acetate	Dodecylguanidine Hydrochloride
Butyl Alcohol	Dyes
Butyl Cellosolve	Epichlorohydrin Reaction Products
n - Butyl - ethyl - a.a.a - trifluoro - 2,6 - dinitro - p	Epoxides
Butyl Glycidyl Ether	Epoxy Resin
Calcine Flint Clay	Epoxy Resin Adhesive
Calcined kaolin	Ethandiol
	Ethanol

LISTING OF CHEMICAL CONSTITUENTS*
OF PRODUCTS PURCHASED BY THE
LINK FLIGHT SIMULATION CORPORATION
1978 to 1986
=====

Ethyl Alcohol	Maleic Modified Rosin Ester
Ethyl Cyanoacrylate	Methoxysilane
Ethylene Glycol	Methyl Alcohol
Ethylene Glycol Monoethyl Ether	Methyl Cellusolve
Ethylene Glycol Monoethyl Ether Acetate	Methyl - 2 - Cyanoacrylate
Ethyl Silicate	Methylene Chloride
Exxon's Isopar G	Methyl Ethyl Ketone
Fatty Acid Polyamine Blend	Methyl Isobutyl Ketone
Ferric Chloride	Methyl Methacrylate
Ferric Powder	n - Methyl Pyrrolidone
Fibrous Glass	Methyltriacetox Silane
Fluoride	Mica
Fluorocarbon	Mineral Oil
Formaldehyde	Mineral Spirits
Formic Acid	Molybdate
Freon TA	Molybdic Acid
Fuel Oil	Monoethanol Amine
Galllic Acid	Montmorillonite Clay Mineral
Glacial Acetic Acid	Muriatic Acid
Glycerol/Rosin Polymer	Naphtha
Glycerol	Naphtha VM & P
Halogenated Hydrocarbons	Naphthenes
Helium	Napthenic Base Oil
Hexane	Nickel
Hydraulic Fluid, Fire Resistant	Nickel Acetate
Hydraulic Fluid, Rust Prev.	Nitric Acid
Hydrochloric Acid	Nitrocellulose
Hydrogen Chloride	Nitrogen
Hydrogen Peroxide	Octanol
Hydroquinone	Organic Bifluoride Salt
Hydrotreated Petroleum	Oxygen
Hydroxyalkyl Methacrylate	Perchloroethylene
Iron	Petrolatum
Iron Powder	Petroleum Distillate
Isobutane Propellant	Petroleum Solvent
Isobutane/Propane	Petroleum Oil
Isobutyl Acetate	Phenol
Isobutyl Alcohol	Phosphate
Isodecanes	Phosphoric Acid
Isoparaffin Hydrocarbons	Piperonyl Butoxide
Isoparaffinic Petrol Distillant	Plastic Epoxy Resin Polyamide Reactor
Isopropanol	Platinum Tin
Isopropyl Alcohol	Polyalkylene Glycol
Kerosene	Polyester Body Filler
Ketones	Polyester Resin in Monomer
Lead Fluoroborate	Polyethylene
Lead Mauthanate	Polyethylene Glycol
Lithium Hydroxystearate	Polyglycol Dimethylacrylates
Lithium Soap	Polyloxanes

APPENDIX B

MONITORING WELL DATA

- DRILLERS' LOGS
- HNu FIELD SCREENING DATA
- SOIL TESTING DATA

• DRILLERS' LOGS



FISHER RD., EAST SYRACUSE, N.Y. 13057
TELEPHONE AREA CODE 315/437-1429

November 29, 1989

H2M Group
575 Broad Hollow Road
Melville, New York 11747-5076

Attention: Ms. Jill S. Haimson

Re: 89174
Monitoring Wells
Singer Link Flight Simulator Corporation
Binghamton, New York

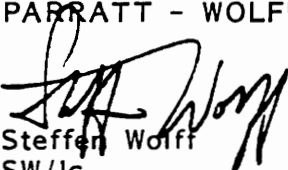
Gentlemen:

Enclosed are typed geologic logs for several test borings and ground water monitoring wells installed by us for this project.

Entries on the logs are taken from your field logs per your transmittal of November 6, 1989.

Very truly yours,

PARRATT - WOLFF, INC.



Steffen Wolff
SW/lc
encs:

Split barrel sampling

The following excerpts are from "Standard Method for penetration test and split-barrel sampling of soils."¹ (ASTM designation: D-1586-67 AASHTO Designation: T-206-70.)

1. Scope

1.1 This method describes a procedure for using a split-barrel sampler to obtain representative samples of soil for identification purposes and other laboratory tests, and to obtain a measure of the resistance of the soil to penetration of the sampler.

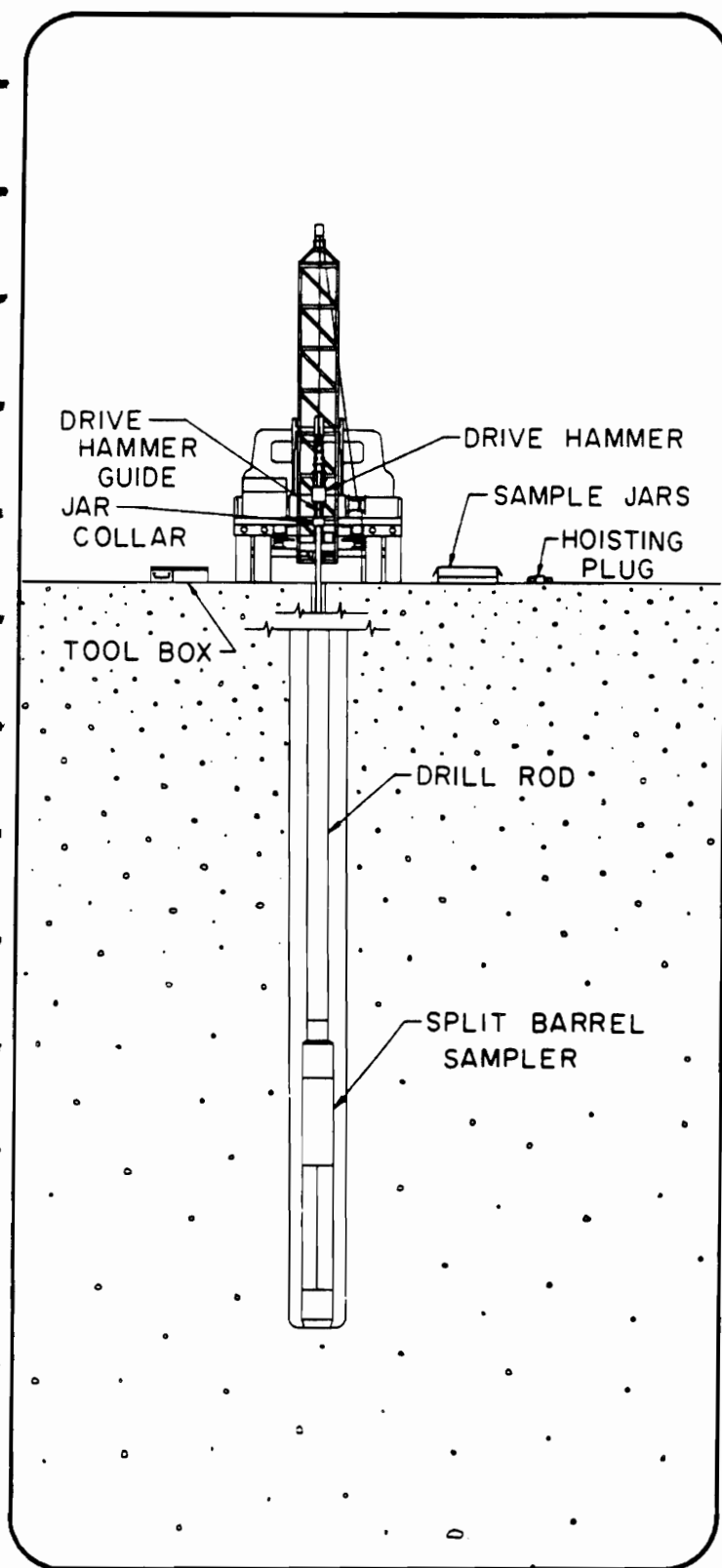
2. Apparatus

2.1 Drilling Equipment — Any drilling equipment shall be acceptable that provides a reasonably clean hole before insertion of the sampler to ensure that the penetration test is performed on undisturbed soil, and that will permit the driving of the sampler to obtain the sample and penetration record in accordance with the procedure described in 3. Procedure. To avoid "whips" under the blows of the hammer, it is recommended that the drill rod have stiffness equal to or greater than the A-rod. An "A" rod is a hollow drill rod or "steel" having an outside diameter of 1-5/8 in. or 41.2 mm and an inside diameter of 1-1/8 in. or 28.5 mm, through which the rotary motion of drilling is transferred from the drilling motor to the cutting bit. A stiffer drill rod is suggested for holes deeper than 50 ft (15m). The hole shall be limited in diameter to between 2-1/4 and 6 in. (57.2 and 152mm).

2.2 Split-Barrel Sampler — The sampler shall be constructed with the dimensions indicated (in Fig. 1.) The drive shoe shall be of hardened steel and shall be replaced or repaired when it becomes dented or distorted. The coupling head shall have four 1/2-in. (12.7-mm) (minimum diameter) vent ports and shall contain a ball check valve. If sizes other than the 2-in. (50.8-mm) sampler are permitted, the size shall be conspicuously noted on all penetration records.

2.3 Drive Weight Assembly — The assembly shall consist of a 140-lb (63.5-kg) weight, a driving head, and a guide permitting a free fall of 30 in. (0.76 m). Special precautions shall be taken to ensure that the energy of the falling weight is not reduced by friction between the drive weight and the guides.

2.4 Accessory Equipment — Labels, data sheets, sample jars, paraffin, and other necessary supplies should accompany the sampling equipment.



A BRIEF DESCRIPTION OF THE UNIFIED SOIL SYSTEM

The Unified Classification System is an engineering soil classification that is an outgrowth of the Air-Field classification developed by Casagrande.

The system incorporates the textural characteristics of a soil into the engineering classification. All soils are classified into fifteen groups, each group being designated by two letters. These letters are as follows: G—gravel, S—sand, M—Non plastic or low plasticity fines, C—plastic fines, Pt—peat, humus and swamp soils, O—organic, W—well graded, P—poorly graded, L—low liquid limit, H—high liquid limit.

GW and SW Groups

These groups comprise well graded gravelly and sandy soils which contain less than 5% of non plastic fines passing a #200 sieve. Fines which are present must not noticeably change the strength characteristics of the coarse grain fraction and must not interfere with its free draining characteristics. In areas subject to frost action the material should not contain more than about 3% of soil grains smaller than .02 millimeters in size.

GP and SP Groups

These groups are poorly graded gravels and sands containing less than 5% non plastic fines. They may consist of uniform gravels, uniform sands, or non uniform mixtures of very coarse material and very fine sand with intermediate sizes lacking. Materials of this latter type are sometimes referred to as skip graded, cap graded, or step graded.

GM and SM Groups

In general, these groups include gravels or sands which contain more than 12% of fines having little or no plasticity. The plasticity index and liquid limit of a soil in either of these groups plot below the "A" line on a plasticity chart. Gradation is not important and both low grade and poorly graded materials are included. Some sands and gravels in these groups may have a binder composed of natural cementing agents so proportioned that the mixture shows negligible swelling or shrinkage. Thus, the dry strength is provided by a small amount of soil binder or dry cementation of calcareous materials or iron oxide. A fine fraction of non cemented materials may be composed of silts or rock flour types having little or no plasticity, and the mixture will exhibit no dry strength.

GC and SC Groups

These groups comprise gravelly or sandy soils with more than 12% of fines which exhibit either low or high plasticity. The plasticity index and liquid limit of a soil in either of these groups plot above the "A" line on the plasticity chart. Gradation of these materials is not important. Plasticity of the binder fraction has more influence on the behavior of the soils than does the variation in gradation. A fine fraction is generally composed of clays.

ML and MH Groups

These groups include predominantly silty materials and micaceous or diatomaceous soils. An arbitrary division between the two groups has been established with a liquid limit of 50. Soils in these groups are sandy silts, clayey silts or organic silts with relatively low plasticity. Also included are loessial soils and rock flours. Micaceous and diatomaceous soils generally fall within the MH group, but may extend into the ML group when their liquid limit is less than 50. The same is true for certain types of kaolin clays and some illite clays having relatively low plasticity.

CL and CH Groups

The CL and CH groups embrace clays with low and high liquid limits respectively. They are primarily inorganic clays. Low plasticity clays are classified as CL and are usually lean clays, sandy clays, and silty clays. The medium plasticity and high plasticity clays are classified as CH. These include fat clays, gumbo clays, certain volcanic clays and bentonite.

OL and OH Groups

The soils in these groups are characterized by the presence of organic matter including organic silts and clays. They have a plasticity range that corresponds with the ML and MH groups.

Pt Group

Highly organic soils which are very compressible have undesirable construction characteristics and are classified in one group with the symbol Pt. Peat, humus and swamp soils with a highly organic texture are typical of the group. Particles of leaves, grass, branches of bushes and other fibrous vegetable matter are common components of these soils.

Borderline Classification

Soils in the GW, SW, GP and SP groups are non plastic materials having less than 5% passing the #200 sieve, while GM, SM, GC, and SC soils have more than 12% passing the #200 sieve. When these coarse grain materials contain between 5% and 12% of fines they are classified as borderline, and are designated by the dual symbol such as GW-GM. Similarly coarse grain soils which have less than 5% passing the #200 sieve, but which are not free draining or in which the fine fraction exhibits plasticity are also classed as borderline and are given a dual symbol. Still another type of borderline classification occurs when a liquid limit of a fine grain soil is less than 29 and the plasticity index lies in the range of four to seven. These limits are indicated by the shaded area on the plasticity chart.

Silty and Clayey

In the Unified System, these terms are used to describe soils whose Atterberg limits plot below and above the "A" line on the plasticity chart. The adjectives silty and clayey are used to describe soils whose limits plot close to the "A" line.

GENERAL NOTES

1. Soil boring logs, notes and other data shown are the results of personal observations and interpretations made by Parratt-Wolff, Inc.

Exploration records prepared by our drilling foreman in the field form the basis of all logs, and samples of subsurface materials retained by the driller are observed by technical personnel in our laboratory to check field classifications.

2. Explanation of the classifications and terms:

a. Bedrock — Natural solid mineral matter occurring in great thickness and extent in its natural location. It is classified according to geological type and structure (joints, bedding, etc.) and described as solid, weathered, broken or fragmented depending on its condition.

b. Soils — Sediments or other unconsolidated accumulations of particles produced by the physical and chemical disintegration of rocks and which may or may not contain organic matter.

PENETRATION RESISTANCE

COHESIONLESS SOILS

Blows Per Ft.	Relative Density
0 to 4	Very Loose
4 to 10	Loose
10 to 30	Medium Dense
30 to 50	Dense
Over 50	Very Dense

COHESIVE SOILS

Blows Per Ft.	Consistency
0 to 2	Very Soft
2 to 4	Soft
4 to 8	Medium Stiff
8 to 15	Stiff
10 to 30	Very Stiff
Over 30	Hard

Size Component Terms

Boulder	Larger than 8 inches
Cobble	8 inches to 3 inches
Gravel — coarse	3 inches to 1 inch
— medium	1 inch to 3/8 inch
— fine	3/8 inch to 4.76 mm
Sand — coarse	4.76 mm to 2.00 mm (#10 sieve)
— medium	2.00 mm to 0.42 mm (#40 sieve)
— fine	0.42 mm to 0.074 mm (#200 sieve)
Silt and Clay	Finer than 0.074 mm

Proportion By Weight

Major component is shown with all letters capitalized.

Minor component percentage terms of total sample are:

and . . . 35 to 50 percent
some . 20 to 35 percent
little . 10 to 20 percent
trace . 1 to 10 percent

c. Gradation Terms — The terms coarse, medium and fine are used to describe gradation of Sand and Gravel.

d. The terms used to describe the various soil components and proportions are arrived at by visual estimates of the recovered soil samples. Other terms are used when the recovered samples are not truly representative of the natural materials, such as soil containing numerous cobbles and boulders which cannot be sampled, thinly stratified soils, organic soils, and fills.

e. Ground water — The measurement was made during exploration work or immediately after completion, unless otherwise noted. The depth recorded is influenced by exploration methods, soil type and weather conditions during exploration. Where no water was observed it is so indicated. It is anticipated that the ground water will rise during periods of wet weather. In addition, perched ground water above the water levels indicated (or above the bottom of the hole where no ground water is indicated) may be encountered at changes in soil strata or top of rock.



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/2/89 DATE COMPLETED 8/3/89

HOLE NO. B-1
SURF. EL.
JOB NO. 89174

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

GROUND WATER DEPTH
WHILE DRILLING 18.0'

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

CASING TYPE HOLLOW STEM AUGER

SHEET 1 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5.0							
10.0							
	10.0'-	1		19/19			
	12.0'			17/7	36		
15.0							
WL ▼							
20.0							
	20.0'-	2		4/4			
	22.0'			6/7	10		
25.0							
	25.0'-	3	12"	1/1		Tan-brown medium fine SANDS (satur- ated) SW	
	27.0'		12"	2/3	3	Gray silty SAND (wet) SM	
30.0							
	30.0'-	4	18"	4/5		Gray silty SAND (wet) SM	
	32.0'			9/9	14		
35.0							
	35.0'-	5	6"	3/4		Gray-brown sandy SILT (saturated)ML	
	37.0'		8"	6/6	10	Gray-brown silty SAND (saturated)SM	
40.0							



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/2/89 DATE COMPLETED 8/3/89

HOLE NO. B-1

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 18.0'

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 2 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
45.0	40.0'-	6	16"	4/5		Gray silty SAND (saturated) SM	
	42.0'			6/7	11		
50.0	45.0'-	7	14"	3/3		Gray-brown silty SAND (saturated) SM	
	47.0'			6/9	9		
55.0	50.0'-	8	17"	3/4		Gray; dense SILT (wet) ML	
	52.0'			9/11	13		
60.0	55.0'-	9	24"	9/9		Red-gray dense clayey SILT varves (wet) ML	
	57.0'			9/11	18		
65.0	60.0'-	10	24"	6/7		Red-gray dense clayey SILT varves (wet) ML	
	62.0'			7/11	14		
70.0	65.0'-	11	24"	7/8		Gray-red; dense clayey SILT varves (wet) ML	
	67.0'			8/13	16		
75.0	70.0'-	12	24"	6/7		Gray-red; dense clayey SILT varves (wet) ML	
	72.0'			7/8	14		
80.0	75.0'-	13	24"	4/6		Gray-red; dense clayey SILT varves (wet) ML	
	77.0'			9/9	15		



FISHER ROAD
EAST SYRACUSE, N.Y. 13057

**AFTER CASING
REMOVED**

SHEET 3 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
85.0	80.0'-	14	24"	8/8		Gray-red; dense clayey SILT varves (wet) ML	
	82.0'			8/9	16		
90.0	85.0'-	15	24"	11/14		Gray-red; dense clayey SILT varves (wet) ML	
	87.0'			15/16	29		
95.0	90.0'-	16	24"	9/9		Gray-red; medium dense clayey SILT varves (wet) ML	
	92.0'			14/20	23		
100.0	95.0'-	17	18"	9/10		Gray dense, clayey SILT varves ML	
	97.0'			14/21	24		
105.0	100.0'-	18	22"	19/30		Gray dense SILT with interbedded layers of fine sandy silt ML	
	102.0'			32/36	62		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 7/20/89 DATE COMPLETED 7/26/89

HOLE NO. B-16A

SURF. EL.

JOB NO. 89174

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

GROUND WATER DEPTH
WHILE DRILLING Drilled
BEFORE CASING with mud
REMOVED

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

AFTER CASING
REMOVED

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 5

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5.0							
10.0							
15.0							
20.0							
25.0							
30.0							
	30.0'- 32.0'	1	24"	4/5 5/6	10	Dense; gray; clayey silt saturated ML	
35.0							
	35.0'- 37.0'	2	24"	3/4 4/5	8	Dense; gray; fine silty sands; saturated SW	
40.0							



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 7/20/89 DATE COMPLETED 7/26/89

HOLE NO. B-16A

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30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

GROUND WATER DEPTH
WHILE DRILLING Drilled
BEFORE CASING with mud
REMOVED
AFTER CASING
REMOVED

CASING TYPE - HOLLOW STEM AUGER

SHEET 2 OF 5

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
45.0	43.0'- 45.0'	3	24"	3/4 6/7	10	Dense; gray; clayey silt; slightly plastic; saturated ML	
50.0							
55.0	50.0'- 52.0'	4	24"	6/7 11/11	18	Dense; gray; clayey silt varves moist ML	
60.0	55.0'- 57.0'	5	24"	4/5 5/6	10	Dense; red gray; clayey silt varves moist ML	
65.0	60.0'- 62.0'	6	24"	4/6 7/7	13	Dense; red gray; clayey silt with trace; medium brown sand (moist) ML	
70.0	65.0'- 67.0'	7	24"	9/8 11/11	19	Gray dense silt; trace red clay; moist ML	
75.0	70.0'- 72.0'	8	24"	11/7 7/8	14	Gray dense, clayey silt, moist ML	
80.0	75.0'- 77.0'	9	24"	7/9 9/8	18	Gray; dense; silt; trace red clay; moist ML	



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
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HOLE NO. B-16A

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING Drilled
BEFORE CASING with mud
REMOVED
AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 3 OF 5

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
85.0	80.0'-	10	24"	6/9		Gray; dense clayey silt varves moist ML	
	82.0'			6/5	15		
90.0	85.0'-	11	24"	6/7		Gray-red clayey silt varves moist ML	
	87.0'			9/13	16		
95.0	90.0'-	12	24"	7/9		Dense; gray silt; moist ML	
	92.0'			11/14	20		
100.0	95.0'-	13	24"	7/9		Dense; gray silt; moist ML	
	97.0'			12/15	21		
105.0	100.0'-	14	24"	6/7		Gray-red; clayey silt, trace fine sand; moist ML	
	102.0'			9/12	16		
110.0	105.0'-	15	24"	9/10		Gray-red-brown; dense clayey silt; moist ML	
	107.0'			10/14	20		
115.0	110.0'-	16	12"	5/6		Dense; red-brown clay CL Dense; gray silt (moist) ML	
	112.0'			6/12	12		
120.0	115.0'-	17	24"	5/5		Dense; gray silt (moist) ML	
	117.0'			7/10	12		

TEST BORING LOG

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EAST SYRACUSE, N.Y. 13057

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%OR — % CORE RECOVERY

GROUND WATER DEPTH
WHILE DRILLING Drilled
BEFORE CASING with mud
REMOVED
AFTER CASING
REMOVED

CASING TYPE - HOLLOW STEM AUGER

SHEET 4 OF 5

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
125.0	120.0'-	18	24"	5/7		Gray-red-brown clayey silt varves (moist) ML	
	122.0'			10/12	17		
130.0	125.0'-	19	24"	6/9		Gray-red clayey silt (moist) ML	
	127.0'			11/20	20		
135.0	130.0'-	20	24"	5/6		Gray-red-clayey silt varves; moist ML	
	132.0'			7/10	13		
140.0	135.0'-	21	24"	12/15		Dense; gray silt; moist ML	
	137.0'			20/16			
145.0	140.0'-	22	24"	11/10		Dense; gray silt; moist ML	
	142.0'			11/14	21		
150.0	145.0'-	23	24"	11/15		Dense; gray silt; moist ML	
	147.0'			18/21	33		
155.0	150.0'-	24	24"	11/15		Gray;dense clayey silt trace coarse to fine sand ML	
	152.0'			20/18	35		
160.0	155.0'-	25	24"	11/15		Gray-red clayey silt varves moist ML	
	157.0'			18/25	33		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 7/20/89 DATE COMPLETED 7/26/89

HOLE NO. B-16A

SURF. EL.

JOB NO. 89174

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

GROUND WATER DEPTH
WHILE DRILLING Drilled
BEFORE CASING with mud
REMOVED
AFTER CASING
REMOVED

CASING TYPE - HOLLOW STEM AUGER

SHEET 5 OF 5

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
165.0	160.0'-	26	24"	4/9		Gray; dense silt-trace gravel; moist ML	
	162.0'			18/17	27		
170.0	165.0'-	27	24"	25/30		Gray-dense; silt - some sand - trace clay ML	
	167.0'			31/28	61		
175.0	170.0'-	28	24"	27/28		Gray dense silt - some sand - trace clay ML	
	172.0'			35/48	63		
180.0	175.0'-	29	24"	28/30		Gray dense silt - little sand - trace clay ML	
	177.0'			32/30	62		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/15/89 DATE COMPLETED 8/15/89

HOLE NO. B-20

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 27.0'

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

BEFORE CASING
REMOVED

C — NO. OF BLOWS TO DRIVE CASING 12" W/
" / OR — % CORE RECOVERY # HAMMER FALLING

AFTER CASING
REMOVED Grouted
Hole

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 2

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5.0							
	5.0'-	1	17"	3/7		Tan brown sandy coarse GRAVEL	
	7.0'			7/15	14	well graded moist - dense GW	
10.0							
	10.0'-	2	16"	25/37		Light green - broken cobble with	
	11.2'			50-.2'		sandy coarse gravel medium dense	
						moist GW	
15.0							
	15.0'-	3	13"	28/40		Red-brown sandy coarse gravel with	
	16.3'			50-.3'		fine sandy silt interbedded moist GW	
20.0							
	20.0'-	4	17"	15/18		Tan brown coarse to fine sand and	
	22.0'			12/9	30	gravel moist SW-GW	
25.0							
	25.0'-	5	8"	4/5		Coarse to fine sandy gravel GW	
WL ▼	27.0'		10"	5/6	10	Medium-fine LB sand (wet) SW	
30.0							
	30.0'-	6	13"	4/5		Tan brown fine sand with some silt	
	32.0'			6/6	11	interbedded saturated SW	
35.0							
	35.0'-	7	15"	4/6		Gray brown very fine sand well graded;	
	37.0'			7/7	13	trace gravel trace silt moist SW-ML	
40.0							



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/14/89 DATE COMPLETED 8/14/89

HOLE NO. B-21

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 30.0'

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

BEFORE CASING
REMOVED

C — NO. OF BLOWS TO DRIVE CASING 12" W/
"OR — % CORE RECOVERY # HAMMER FALLING

AFTER CASING REMOVED Installed
Well

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 2

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5.0							
	5.0'-	1	16"	3/5		Loose; brown-gray sand and gravel	
	7.0'			3/2	8	fill - dry	
10.0							
	10.0'-	2	6"	36/11		Dense; well graded; tan brown fine	
	12.0'			11/15	22	sandy gravel GW	
15.0							
	15.0'-	3	7"	20/28		Very dense broken cobble with sandy	
	16.5'			37	65	gravel mixtures well graded GW	
20.0							
	20.0'-	4	9"	26/22		Very dense broken cobble with medium	
	22.0'			20/12	42	gravels some fine sand dry GW	
25.0							
	25.0'-	5	8"	27/30		Very dense broken cobble with gravel	
	27.0'			42/47	72	and sand mixtures moist GW	
30.0							
WL	30.0'-	6	14"	3/4		Soft; tan gray silt, some very fine	
	32.0'			7/6	11	sand - saturated ML	
35.0							
	35.0'-	7	24"	7/8		Stiff light gray - clayey silt, moist	
	37.0'			4/9	12	- trace fine sand ML	
40.0							

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
45.0	40.0'-	8	24"	6/5		Stiff - light gray - clayey silt - moist ML	
	42.0'			8/4	13		



FISHER ROAD
EAST SYRACUSE, N.Y. 13057

HOLE NO. B-25
SURF. EL.
JOB NO. 89174

GROUND WATER DEPTH WHILE DRILLING

**BEFORE CASING
REMOVED**

**AFTER CASING
REMOVED**

SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH				
5.0						Saturated brown sandy SILTS with some fine gravel ML					
10.0	5.0'-	1		1/3							
	7.0'			3/4	6						
15.0	10.0'-	2		WH-1.0'				Brown; clayey SILT; saturated; slightly plastic ML			
	12.0'			2/1	2						
20.0	15.0'-	3		1/1		Dark brown spongy PEAT SOIL - fibrous texture - organic odor - wood chips (moist) PT					
	17.0'			1/3							
25.0	20.0'-	4		6/9						Brown gray; well graded; gravelly coarse SAND with trace silt (wet) SW	
	22.0'			5/4	14						
30.0	25.0'-	5		4/5				Dense; medium plasticity; silty clay (moist) CL Dense; medium plasticity; silty clays, and sandy silts (saturated) ML			
	27.0'			7/7	12						
	27.0'-	6		5/5							
	29.0'			2/3	7						



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/3/89 DATE COMPLETED 8/7/89

HOLE NO. EB-2
SURF. EL.
JOB NO. 89174

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

GROUND WATER DEPTH
WHILE DRILLING 18.0'
BEFORE CASING
REMOVED

AFTER CASING
REMOVED

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5.0							
10.0							
15.0							
WL ▼							
20.0							
25.0							
25.0'- 27.0'		1	18"	7/6 6/7	12	Medium dense; well graded tan-brown gravelly fine sand (saturated) SW	
30.0							
30.0'- 32.0'		2	17"	5/6 7/7	13	Medium dense; well graded TB gravelly fine sand trace silt (saturated) SW	
35.0							
35.0'- 37.0'		3	24"	9/11 11/13	22	Gray; stiff sandy silt (wet) ML	
40.0							



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/3/89 DATE COMPLETED 8/7/89

HOLE NO. EB-2

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 18.0'

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
%/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 2 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
45.0	40.0'-	4	24"	9/7		Gray; firm silt (wet) ML	
	42.0'			11/14	18		
50.0	45.0'-	5	24"	7/7		Gray; firm silt (wet) ML	
	47.0'			6/8	13		
55.0	50.0'-	6	24"	6/6		Gray; firm silt (wet) ML	
	52.0'			11/14	17		
60.0	55.0'-	7	24"	8/10		Gray; stiff silt with some red clay (varve) wet ML	
	57.0'			10/10	20		
65.0	60.0'-	8	20"	6/7		Gray; stiff silt with some red/ brown clay (varve) wet ML	
	62.0'			7/8	14		
70.0	65.0'-	9	21"	5/5		Stiff; gray silt, with some red/brown clay (varve) ML	
	67.0'			6/8	11		
75.0	70.0'-	10	24"	6/6		Stiff; gray silt, with some red/brown clay (varve) wet ML	
	72.0'			8/8	14		
80.0	75.0'-	11	22"	5/5		Stiff; gray silt; with some red/brown clay (varve) wet ML	
	77.0'			7/7	12		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/3/89 DATE COMPLETED 8/7/89

HOLE NO. EB-2

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 18.0'

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 3 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
85.0	80.0'-	12	18"	7/7		Stiff; gray silt; with little red/brown clay (varve) ML	
	81.5'			5	12		
90.0	85.0'-	13	24"	6/4		Stiff; gray silt with some red/brown clay (varve) ML	
	87.0'			7/9	11		
95.0	90.0'-	14	24"	5/6		Dense; stiff silt with little red/brown clay (varve) ML	
	92.0'			7/11	13		
100.0	95.0'-	15	24"	9/7		Firm; gray silt (wet) ML	
	97.0'			8/10	15		
105.0	100.0'-	16	24"	10/10		Stiff; gray silt with some red/brown clay varve ML	
	102.0'			10/13	20		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/7/89 DATE COMPLETED 8/8/89

HOLE NO. EB-3

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5.0							
10.0							
15.0							
20.0							
25.0							
30.0	25.0'-	1	17"	5/6		Medium dense; coarse to fine; well graded; brown gravelly sand (saturated) SW	
	27.0'			6/7	12		
35.0	30.0'-	2	18"	4/5		Medium dense; coarse to fine gravelly sand with little silt (saturated) SW	
	32.0'			5/7	10		
40.0	35.0'-	3	17"	2/3		Loose; coarse to fine sand with some gravel soft silt (saturated) SW	
	37.0'			2/2	5		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/7/89 DATE COMPLETED 8/8/89

HOLE NO. EB-3
SURF. EL.
JOB NO. 89174
GROUND WATER DEPTH
WHILE DRILLING
BEFORE CASING
REMOVED
AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 2 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
45.0	40.0'-	4	19"	1/1		Soft; dark brown sandy silt with little fine gravel interbedded (wet) ML	
	42.0'			2/4	3		
50.0	45.0'-	5	14"	4/7		Stiff; gray medium plasticity silty clay wet CL	
	47.0'			3/6	10		
55.0	50.0'-	6	24"	3/4		Stiff; gray silt with some red brown clay (varve) wet ML	
	52.0'			5/6	9		
60.0	55.0'-	7	24"	3/6		Stiff; gray silt with some red brown clay (varve) wet ML	
	57.0'			7/9	13		
65.0	60.0'-	8	22"	3/6		Stiff; gray silt with some red brown clay (varve) wet ML	
	62.0'			6/8	12		
70.0	65.0'-	9	14"	6/8		Very stiff; gray silt with some red/ brown clay (varve) ML	
	67.0'			8/11	16		
75.0	70.0'-	10	16"	5/3		Stiff; gray silt with some red/brown clay (varve) ML	
	72.0'			6/4	9		
80.0	75.0'-	11	17"	7/3		Stiff; gray silt with some red/brown clay (varve) wet ML	
	77.0'			6/8	9		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/7/89 DATE COMPLETED 8/8/89

HOLE NO. EB-3

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
%/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 3 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
85.0	80.0'-	12	-	4/7		No recovery	
	82.0'			8/7	15		
90.0	85.0'-	13	17"	5/6		Stiff; gray silt with some red/brown clay (varve) wet ML	
	87.0'			7/4	13		
95.0	90.0'-	14	14"	6/3		Stiff; gray silt; with/some red/brown clay (varve) wet ML	
	92.0'			5/7	8		
100.0	95.0'-	15	17"	7/4		Stiff; red gray clayey silt with some sandy silt ML	
	97.0'			9/7	13		
105.0	100.0'-	16		6/5		Stiff; mediumplasticity sandy clay with/some gray silt CL	
	102.0'			5/8	10		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/9/89 DATE COMPLETED 8/22/89

HOLE NO. BH-2411

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 35.0'

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5.0							
10.0							
15.0							
20.0							
25.0	20.0'-	1	17"	5/13		Medium dense; well graded; sandy coarse gravel; dry broken shale GW	
	22.0'			11/15	24		
30.0	25.0'-	2	15"	12/17		Medium dense; sandy coarse gravel moist and dry sections GW	
	27.0'			17/11	34		
35.0	30.0'-	3	18"	6/6		Medium dense; tan sandy coarse gravel saturated GW	
	32.0'			8/8	14		
40.0	35.0'-	4	15"	10/15		Medium dense; tan sandy coarse gravel; saturated GW	
	37.0'			13/17	28		

TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/9/89 DATE COMPLETED 8/22/89

HOLE NO. BH-2411

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 35.0'

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
%/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 2 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
45.0	40.0'-	5	16"	11/9		Medium dense; red brown sandy fine gravel; saturated GW	
	42.0'			13/19	22		
50.0	45.0'-	6	24"	5/8		Medium dense tan brown gravelly fine sand with little silt saturated SP	
	47.0'			10/11	18		
55.0	50.0'-	7	20"	3/6		Loose poorly graded; tan very fine sands wet SP	
	52.0'			6/8	12		
60.0	55.0'-	8	21"	9/11		Medium dense poorly graded; tan fine sands - wet SP	
	57.0'			12/12	23		
65.0	60.0'-	9	23"	9/11		Medium dense - poorly graded tan brown sands with trace clayey silt layers SP	
	62.0'			12/13	23		
70.0	65.0'-	10	20"	9/13		Dense - very fine tan brown sands with 1/2 inch light brown clayey silt layers throughout SM	
	67.0'			13/24	26		
75.0							
80.0	75.0'-	11	17"	7/12		Brown gray; poorly graded medium dense; fine sands (wet) SP	
	77.0'			14/16	26		



TEST BORING LOG

FISHER ROAD
EAST SYRACUSE, N.Y. 13057

PROJECT Monitoring Wells
LOCATION Singer Link Flight Simulator Corporation
Binghamton, New York
DATE STARTED 8/9/89 DATE COMPLETED 8/22/89

HOLE NO. BH-2411

SURF. EL.

JOB NO. 89174

GROUND WATER DEPTH
WHILE DRILLING 35.0'

BEFORE CASING
REMOVED

AFTER CASING
REMOVED

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" — ASTM D-1586, STANDARD PENETRATION TEST

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING
"/OR — % CORE RECOVERY

CASING TYPE - HOLLOW STEM AUGER

SHEET 3 OF 3

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
85.0	80.0'-	12	24"	7/13		Medium dense; poorly graded brownish fine sands; trace gray silt (wet) SP	
	82.0'			12/9	25		
90.0	85.0'-	13	24"	9/12		Medium dense; brown gray; silty sand SM	
	87.0'			14/16	26		
95.0	90.0'-	14	24"	11/14		Very stiff; gray brown silty clay moist CL	
	92.0'			15/17	29		
100.0	95.0'-	15	24"	7/5		Stiff; gray brown silty clay - moist CL	
	97.0'			4/7	9		

[illegible][illegible]

TABLE 1HNu RESPONSE MONITORING WELL BOREHOLESLINK FLIGHT SIMULATION DIVISIONHILLCREST FACILITYBINGHAMTON, NEW YORK

<u>LOCATION</u>	<u>DEPTH</u>	<u>HNu RAW</u>	<u>HEATED</u>
MW-16A	30'-32'	1	--
	35'-37'	--	--
	43'-45'	2	--
	50'-52'	--	--
	55'-57'	--	--
	60'-62'	--	--
	65'-67'	--	--
	70'-72'	--	--
	75'-77'	--	--
	80'-82'	--	--
MW-20	5'-7'	--	--
	10'-12'	--	--
	15'-17'	--	--
	20'-22'	--	--
	25'-27'	--	--
	30'-32'	--	--
	35'-37'	--	--
MW-21	5'-7'	--	--
	10'-12'	--	--
	15'-17'	--	--
	20'-22'	--	--
	25'-27'	--	--
	30'-32'	--	--
	35'-37'	--	--
	40'-42'	--	--
MW-22	5'-7'	20	.5
	10'-12'	--	2
	15'-17'	--	--
	20'-22'	--	--
	25'-27'	--	--
MW-23	5'-7'	--	--
	10'-12'	--	--
	15'-17'	--	--
	20'-22'	--	--
	25'-27'	--	--

APPENDIX B

TABLE 1 (CONT'D.)

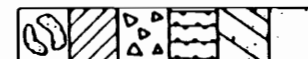
<u>LOCATION</u>	<u>DEPTH</u>	<u>HNu RAW</u>	<u>HEATED</u>
MW-24	5'-7'	--	--
	10'-12'	--	--
	15'-17'	--	--
	20'-22'	--	--
	25'-27'	--	--
	30'-32'	--	--
	35'-37'	--	--
	40'-42'	--	--
MW-25	5'-7'	--	--
	10'-12'	--	--
	15'-17'	--	3
	20'-22'	--	--
	25'-27'	--	--
	27'-29'	--	--
MW-26	5'-7'	--	--
	10'-12'	--	--
	15'-17'	--	--
	20'-22'	--	--
	25'-27'	--	--

[illegible]

• SOIL TESTING DATA

SIEVE ANALYSIS

HYDROMETER ANALYSIS

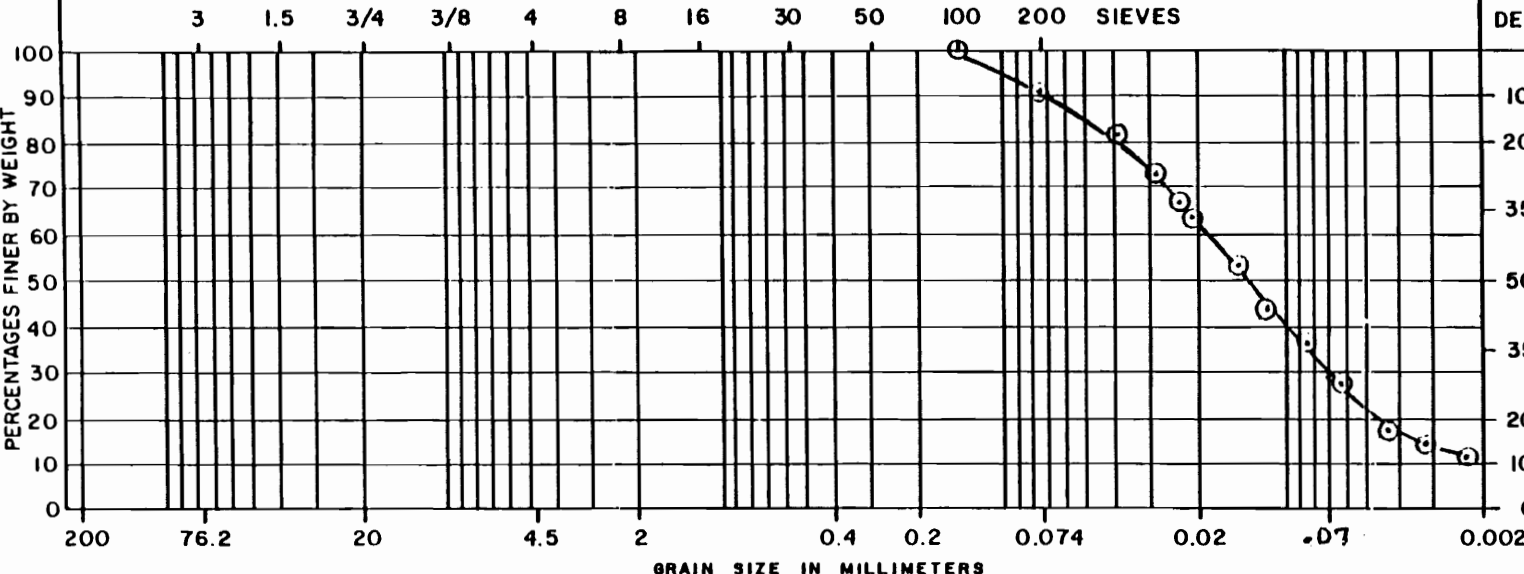


SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE:
JOB NO.
SHEET NO.

DESCRIPTIVE TERMS

TRACE
10
LITTLE
20
SOME
35
AND
50
AND
35
SOME
20
LITTLE
10
TRACE



BOULDERS COBBLES	GRAVEL C	F	C	SAND M	F	SILT (NON-PLASTIC)	CLAY (PLASTIC)

PREPARED FOR: *H2M / MIKE TUMULTY*

JOB LOCATION: *SINGER*

DESCRIPTION OF MATERIAL:

CLAYEY SILT, TRACE SAND - GREY BROWN
MLW 16 A
100-102'

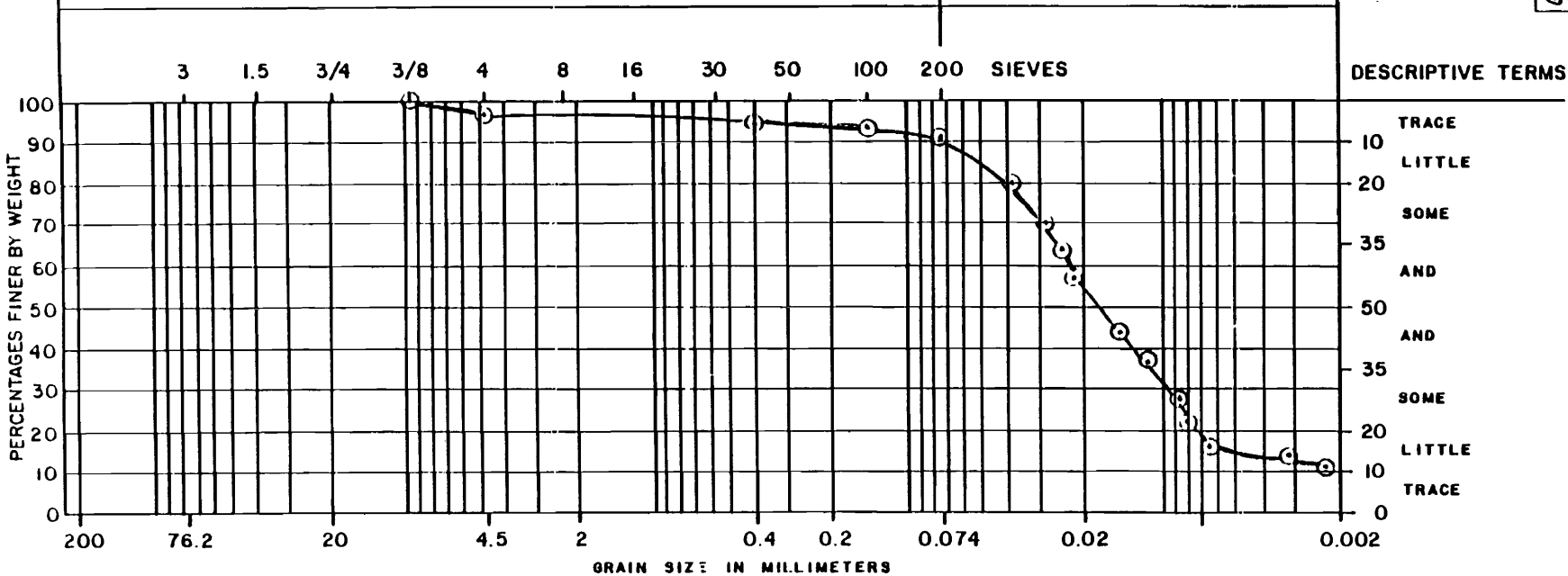


SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE:
JOB No.
SHEET No. 2

SIEVE ANALYSIS

HYDROMETER ANALYSIS



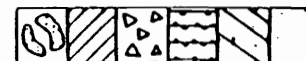
BOULDERS COBBLES	GRAVEL		SAND		SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F	

PREPARED FOR: H2M / MIKE TUMULTY

JOB LOCATION: SINGER

DESCRIPTION OF MATERIAL:

CLAYEY SILT, TRACE SAND -
MW 16A GREY BROWN
150 - 152'

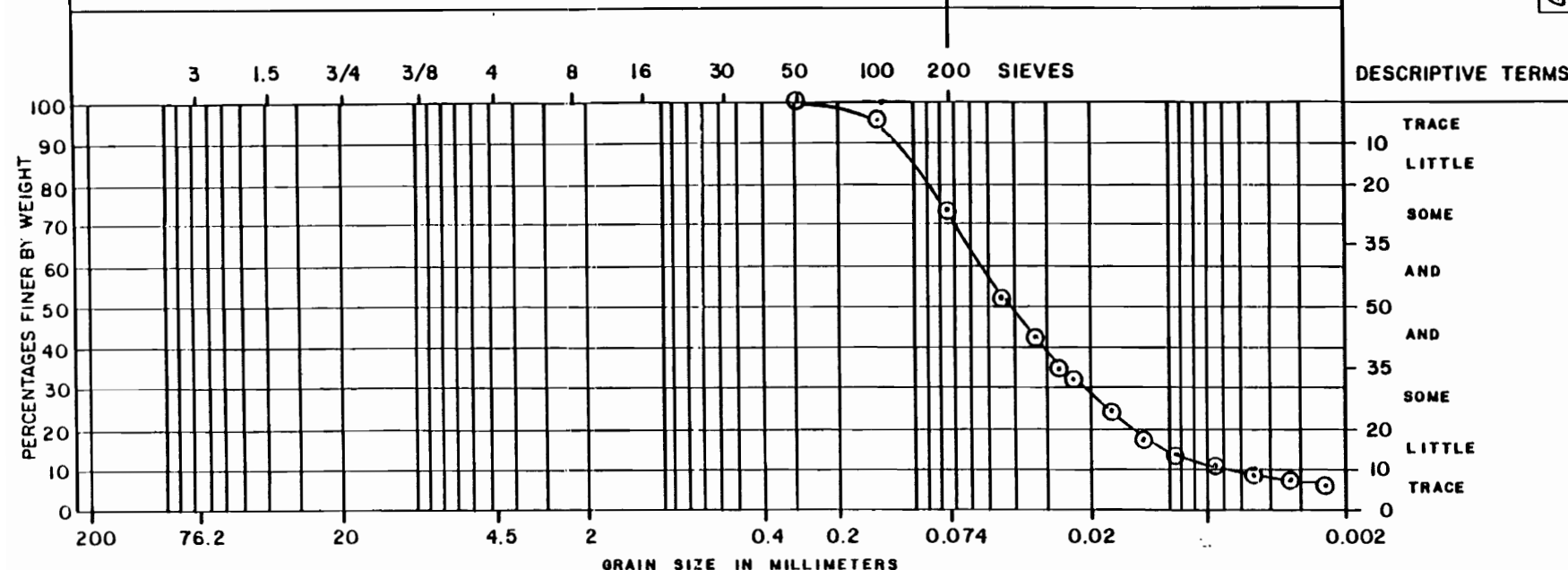


SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

DATE:
JOB No.
SHEET No. 3

SIEVE ANALYSIS

HYDROMETER ANALYSIS



BOULDERS COBBLES	GRAVEL C	F	C	SAND M	F	SILT (NON-PLASTIC)	CLAY (PLASTIC)

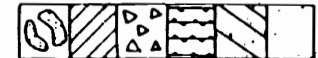
PREPARED FOR: *H2M / MILE TUMULTY*

JOB LOCATION: *LINIC*

DESCRIPTION OF MATERIAL:

*SILT, SOME SAND, TRACE CLAY -
GREY BROWN*

MLW 16 A 170-172'

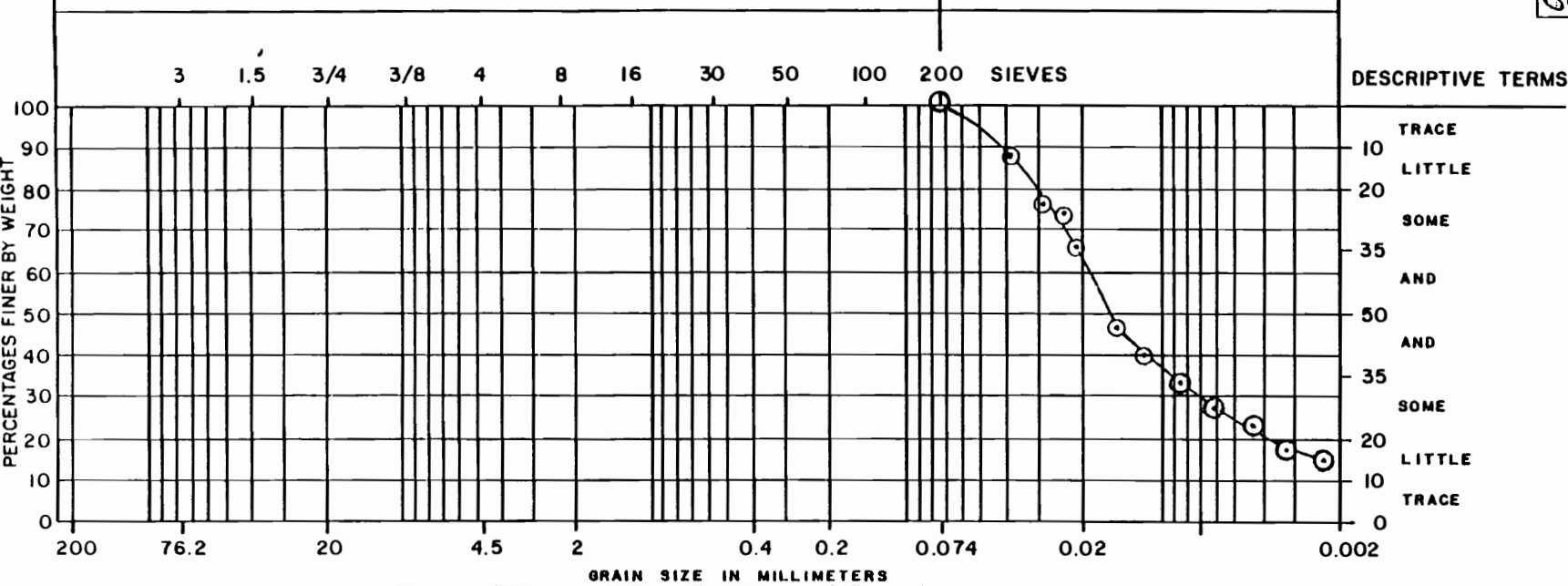


SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 7-18-89
JOB NO. 89-303
SHEET NO. 1 Hydrometer

SIEVE ANALYSIS

HYDROMETER ANALYSIS



BOULDERS COBBLES	GRAVEL		SAND		SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F	

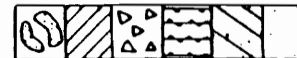
PREPARED FOR: *H2M*

JOB LOCATION:

DESCRIPTION OF MATERIAL: *MW 20 55-57'*

SILT, SOME CLAY - (CL)

GRAY SILT

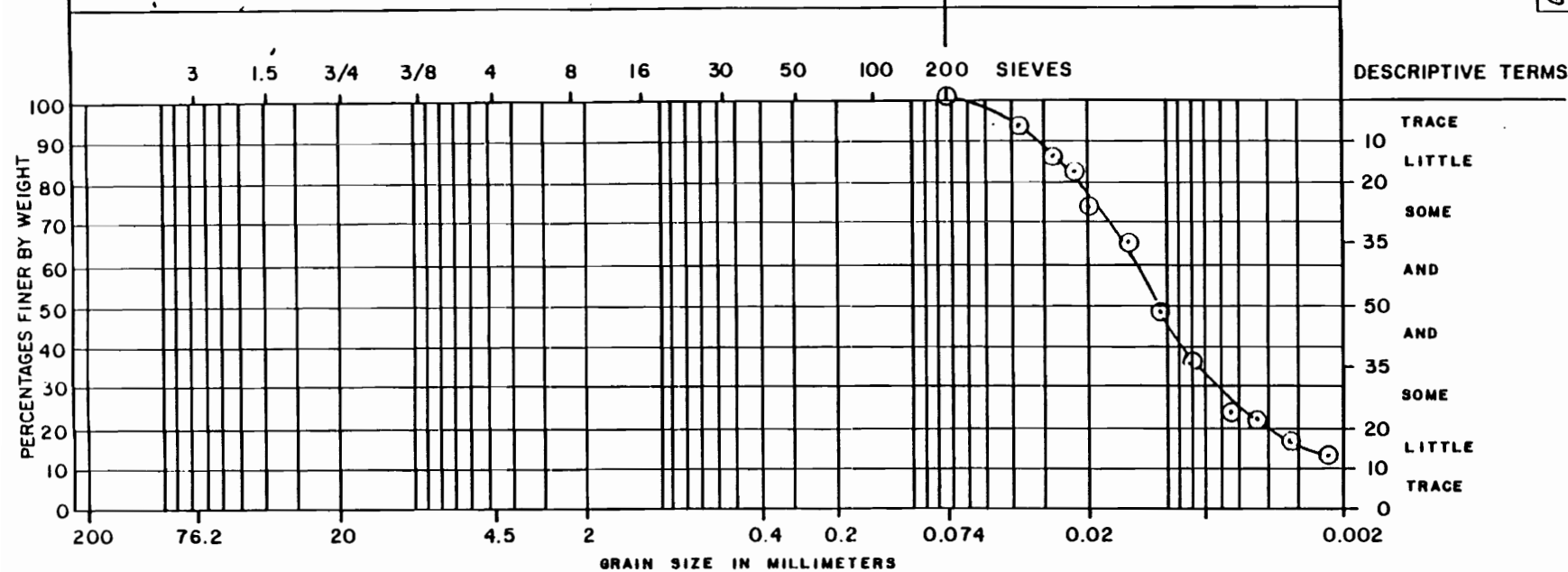


SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
JOB No. 89-303
SHEET No. 2 Hydrometer

SIEVE ANALYSIS

HYDROMETER ANALYSIS



BOULDERS COBBLES	GRAVEL		SAND		SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F	

PREPARED FOR: H2M

JOB LOCATION:

DESCRIPTION OF MATERIAL: ER 2 85-87'
SILT, Some CLAY (CL)
GREY BROWN

SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

ATTERBERG LIMITS DETERMINATION
ASTM D 423 and ASTM D 424

DATE: 9-18-89

SAMPLE NO: 24A
90-92'

PROJECT: _____

JOB NO: 89-303

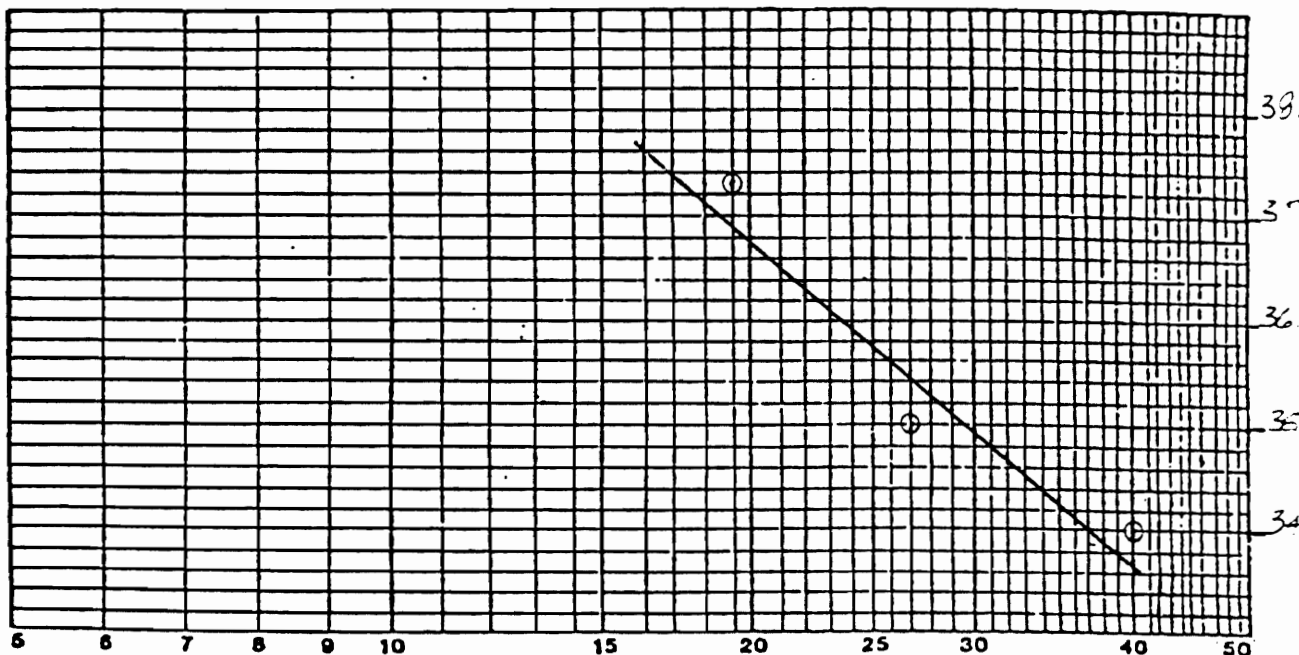
CLIENT: H2M Grey-Brown

LIQUID LIMIT, W_L

CL

RUN NUMBER						
TARE NUMBER	<u>1</u>	<u>6</u>	<u>7</u>	<u>1</u>	<u>7</u>	<u>5</u>
A. WEIGHT OF WET SOIL+TARE	<u>12.15</u>	<u>11.14</u>	<u>13.85</u>	<u>15.10</u>	<u>19.34</u>	<u>16.15</u>
B. WEIGHT OF DRY SOIL+TARE	<u>10.82</u>	<u>9.84</u>	<u>11.85</u>	<u>13.15</u>	<u>12.17</u>	<u>13.62</u>
C. WEIGHT OF WATER W_w (A-B)	<u>1.33</u>	<u>1.30</u>	<u>2.00</u>	<u>2.05</u>	<u>2.17</u>	<u>2.5</u>
D. WEIGHT OF TARE	<u>6.91</u>	<u>6.03</u>	<u>5.09</u>	<u>7.15</u>	<u>6.33</u>	<u>5.77</u>
E. WEIGHT OF DRY SOIL W_s (B-D)	<u>3.91</u>	<u>3.81</u>	<u>5.76</u>	<u>5.90</u>	<u>5.84</u>	<u>6.72</u>
WATER CONTENT, $W = \left(\frac{W_w}{W_s} \times 100 \right) \%$	<u>34.0</u>	<u>34.1</u>	<u>34.7</u>	<u>34.7</u>	<u>37.2</u>	<u>37.4</u>
NUMBER OF BLOWS	<u>40</u>	<u>40</u>	<u>27</u>	<u>27</u>	<u>17</u>	<u>17</u>
W_L	<u>35.8</u>		<u>22.0</u>		<u>13.8</u>	
	W_p				$1p (W_L - W_p)$	

WATER CONTENT, W
(PER CENT)



NUMBER OF BLOWS

PLASTIC LIMIT, W_p

NATURAL
WATER
CONTENT

RUN NUMBER				
TARE NUMBER	<u>0</u>			
F. WEIGHT OF WET SOIL+TARE	<u>7.12</u>			
G. WEIGHT OF DRY SOIL+TARE	<u>8.51</u>			
H. WEIGHT OF WATER, W_w (G-F)	<u>0.57</u>			
I. WEIGHT OF TARE	<u>5.92</u>			
J. WEIGHT OF DRY SOIL, W_s (G-I)	<u>2.59</u>			
WATER CONTENT, $W = \left(\frac{W_w}{W_s} \times 100 \right) \%$				
PLASTIC LIMIT $1p$ (AVERAGE W_p)				

REMARKS:

B-39

CHECKED BY:

SOIL MECHANICS DRILLING CORP.

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

ATTERBERG LIMITS DETERMINATION

ASTM D 423 and ASTM D 424

DATE: _____

SAMPLE NO: B-1

PROJECT: LYNIC

JOB NO: 89-303

70-72'

CLIENT: H2M

Grey-Brown

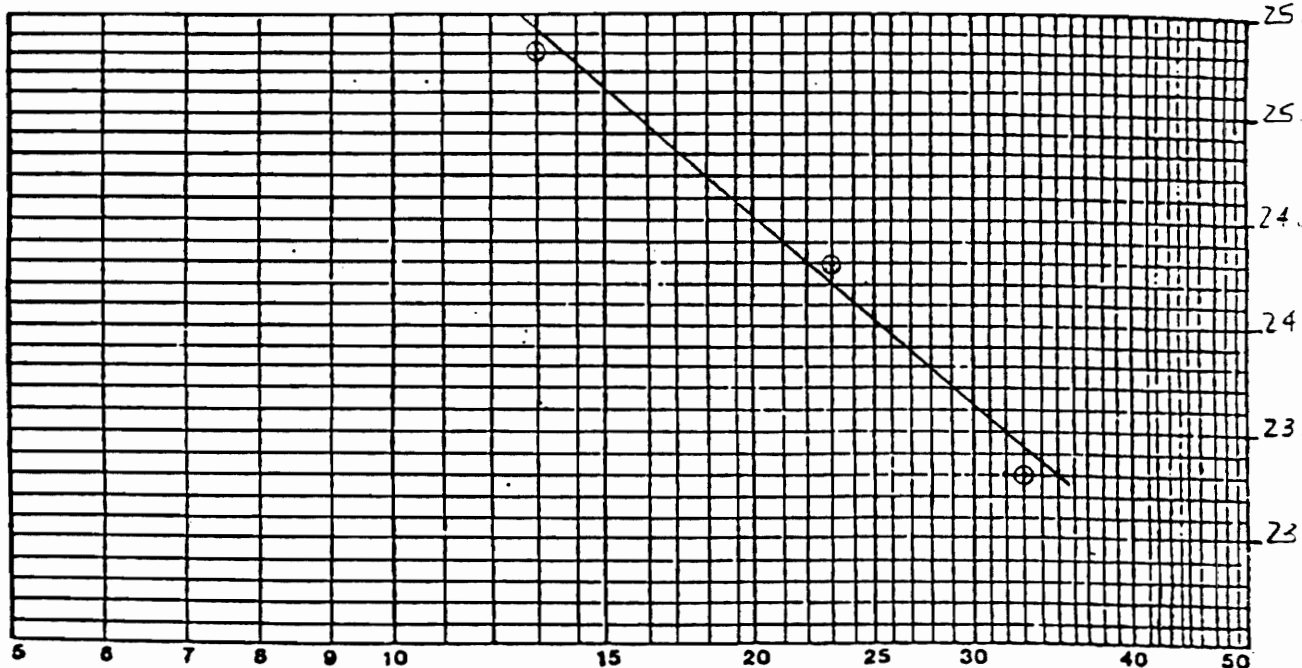
CL/ML

LIQUID LIMIT, W_L

RUN NUMBER						
TARE NUMBER	4	10	5	2	11	7
A. WEIGHT OF WET SOIL+TARE	13.97	12.56	15.30	15.45	11.15	11.85
B. WEIGHT OF DRY SOIL+TARE	12.62	11.51	13.60	10.10	10.19	10.62
C. WEIGHT OF WATER W_w (A-B)	1.35	1.05	1.62	1.29	0.96	1.22
D. WEIGHT OF TARE	6.83	4.90	6.93	6.88	6.90	5.80
E. WEIGHT OF DRY SOIL W_s (B-D)	5.79	4.53	6.63	5.20	3.79	4.83
WATER CONTENT, $W = \frac{W_w}{W_s} \times 100$ %	23.3	23.2	24.3	24.4	25.3	25.3
NUMBER OF BLOWS	33	33	23	25	13	13

W_L 24.0 W_p 18.2 $1p (W_L - W_p)$ 5.8

WATER CONTENT, W
(PER CENT)



NUMBER OF BLOWS

PLASTIC LIMIT, W_p

RUN NUMBER					NATURAL WATER CONTENT
TARE NUMBER	4				
F. WEIGHT OF WET SOIL+TARE	10.62				
G. WEIGHT OF DRY SOIL+TARE	9.10				
H. WEIGHT OF WATER, W_w (G-I)	0.72				
I. WEIGHT OF TARE	5.95				
J. WEIGHT OF DRY SOIL, W_s (G-I)	3.95				
WATER CONTENT, $W = \frac{W_w}{W_s} \times 100$ %	18.2				
PLASTIC LIMIT $1p$ (AVERAGE W)					

REMARKS:

B-40

CHECKED BY:

J.L.

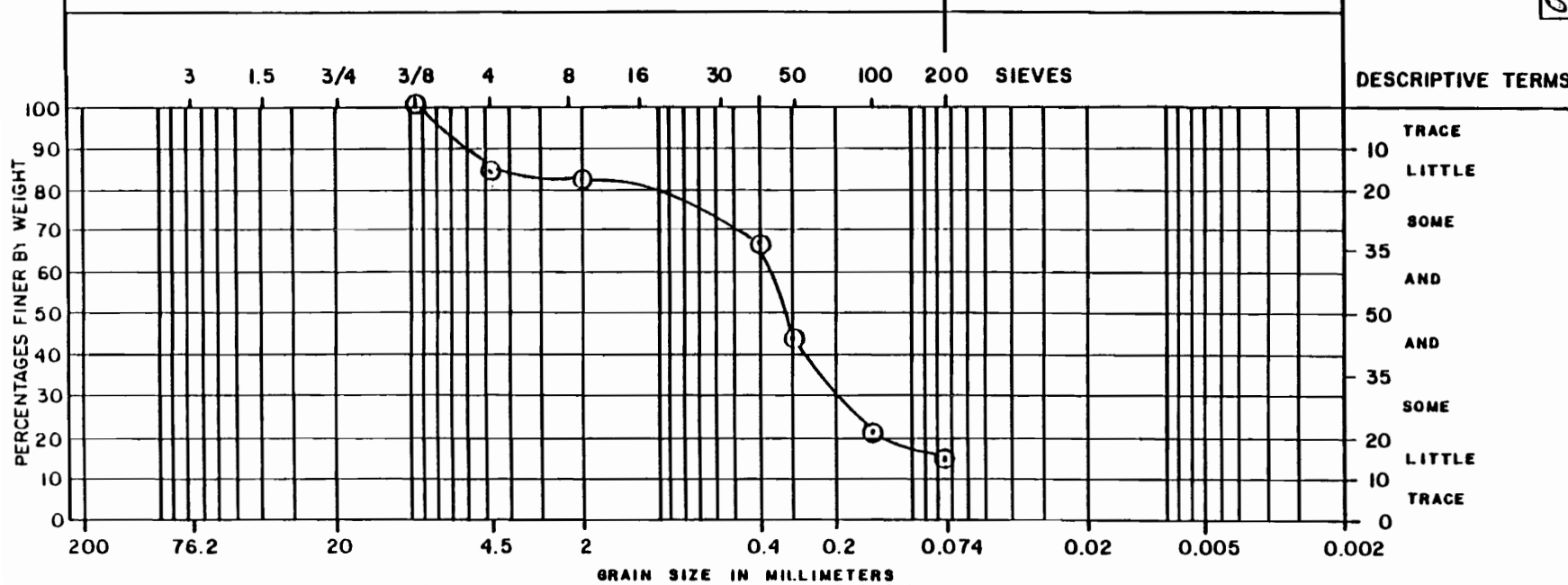


SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
JOB No. 89-313
SHEET No. 1

SIEVE ANALYSIS

HYDROMETER ANALYSIS



BOULDERS COBBLES	GRAVEL		SAND			SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F		

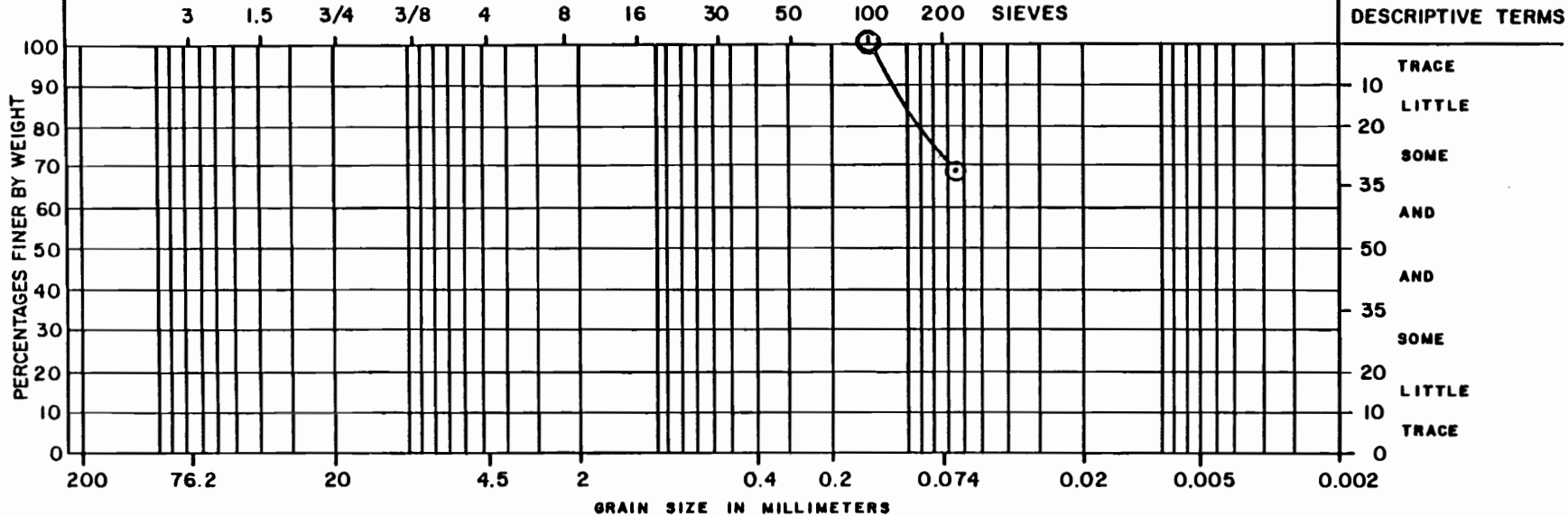
PREPARED FOR:	H2M	
JOB LOCATION:	LINIL	
DESCRIPTION OF MATERIAL:	MW 20, 25-27'	
	FINE TO COARSE SAND,	
	LITTLE GRAVEL, LITTLE SILT-	
	DARK BROWN	
	SIEVE	% PASSING
	3/8"	100
	4	84.9
	10	82.0
	40	67.2
	50	44.1
	100	21.0
	200	15.9

GRAIN SIZE ANALYSIS: IDENTIFICATION AND DESCRIPTION OF SOILS (UNIFIED SOILS CLASSIFICATION SYSTEM).

B-41

SIEVE ANALYSIS

HYDROMETER ANALYSIS



BOULDERS	GRAVEL		SAND			SILT	CLAY
COBBLES	C	F	C	M	F	(NON-PLASTIC)	(PLASTIC)

PREPARED FOR: H2M

JOB LOCATION: LINIC

DESCRIPTION OF MATERIAL: MU 21 30-32'
SILT, SOME VERY FINE SAND -
BROWN

SIEVE	% PASSING
100	100
200	69.4

GRAIN SIZE ANALYSIS: IDENTIFICATION AND DESCRIPTION OF SOILS (UNIFIED SOILS CLASSIFICATION SYSTEM).

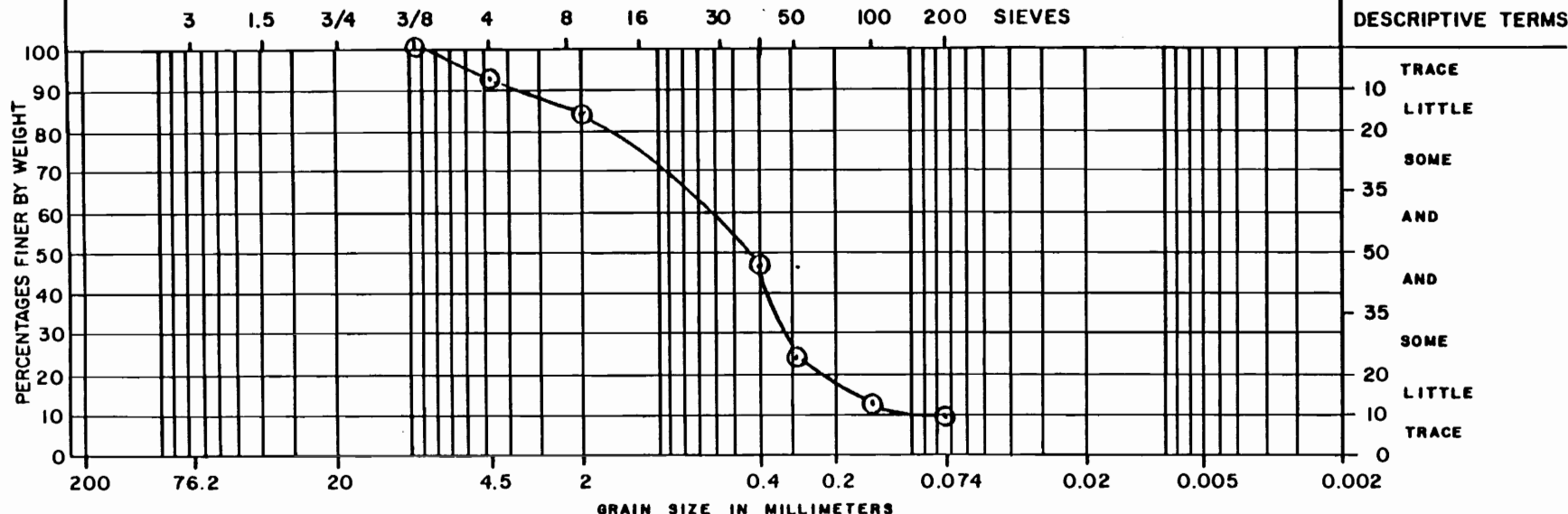
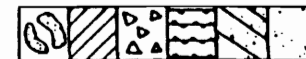


SOIL MECHANICS DRILLING CORP.
 3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
 JOB No. 84-303
 SHEET No. 2

SIEVE ANALYSIS

HYDROMETER ANALYSIS



BOULDERS COBBLES	GRAVEL		SAND		SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F	

PREPARED FOR:	H2M				
JOB LOCATION:	LINIL SPLITS				
DESCRIPTION OF MATERIAL:					
MU 22	20-22'	SIEVE	% PASSING		
FINE TO COARSE SAND,		3/8"	100		
TRACE GRAVEL, TRACE SILT-		4	93.3		
DL. BROWN		10	84.9		
		40	49.4		
		50	23.8		
		100	12.6		
		200	9.8		

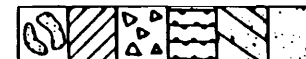
GRAIN SIZE ANALYSIS: IDENTIFICATION AND DESCRIPTION OF SOILS (UNIFIED SOILS CLASSIFICATION SYSTEM).

SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
JOB NO. 89-303
SHEET NO. 3

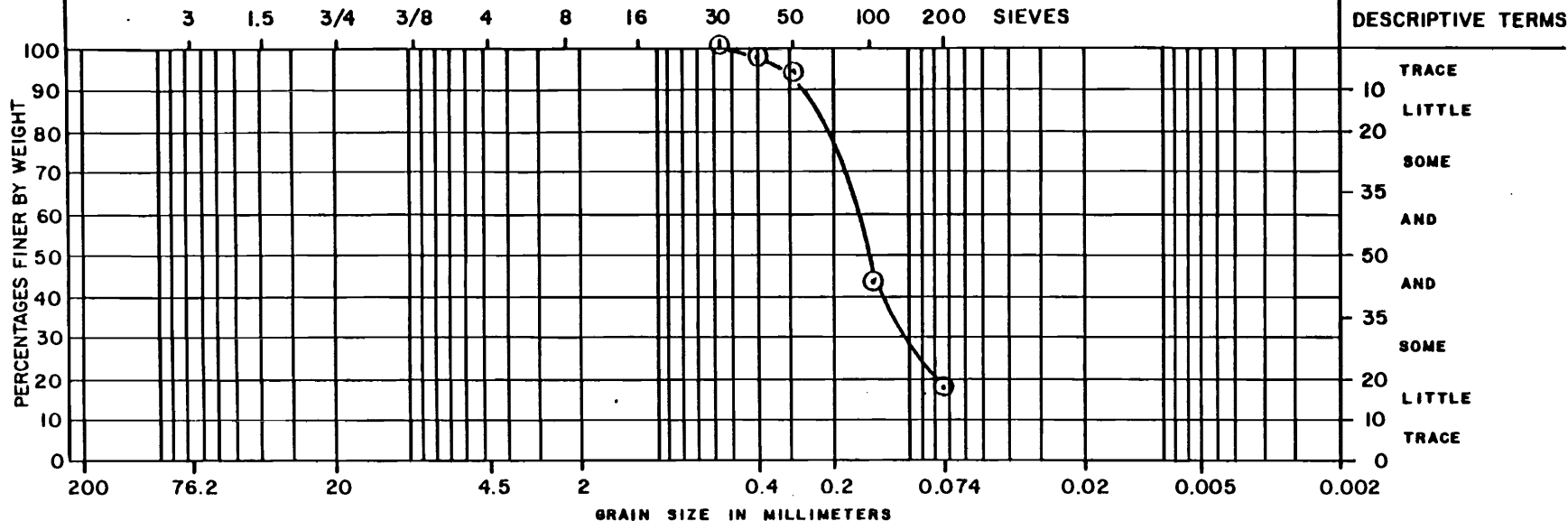
SIEVE ANALYSIS

HYDROMETER ANALYSIS



SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
JOB No. 89-303
SHEET No. 4



BOULDERS COBBLES	GRAVEL		SAND			SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F		

PREPARED FOR: HZM

JOB LOCATION: SPLITS LINKS

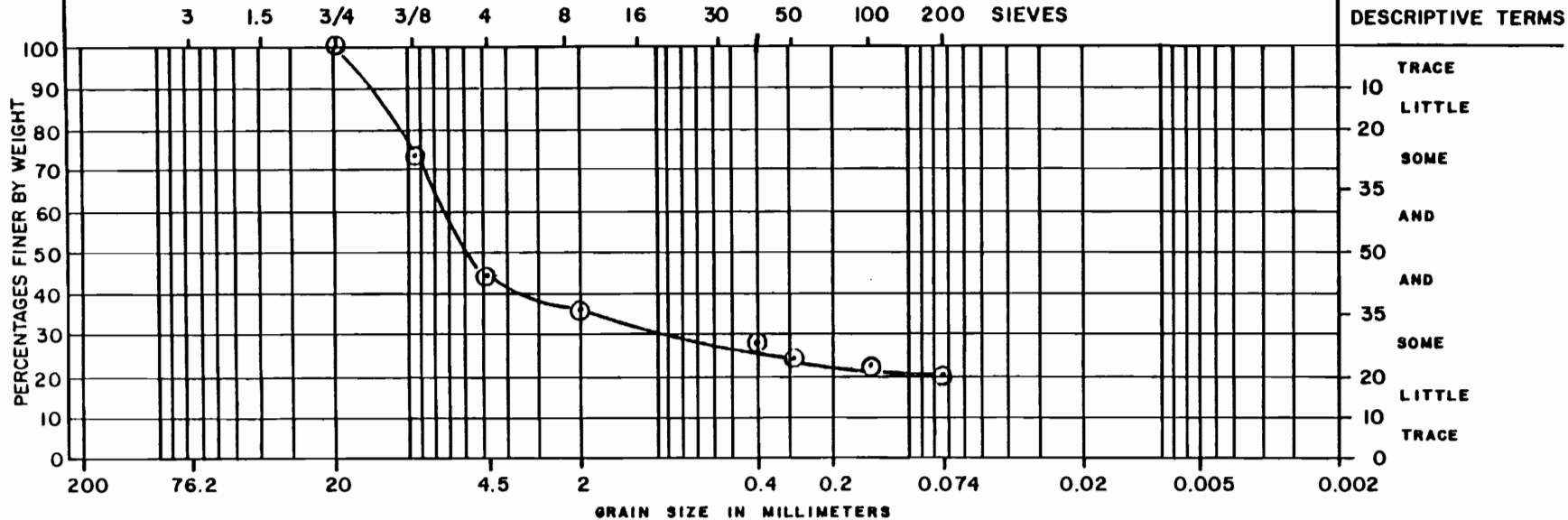
DESCRIPTION OF MATERIAL: MIN 23; 25-27'
FINE TO MEDIUM SAND,
LITTLE SILT - BROWN

SIEVE	% PASSING
30	100
40	98.1
50	96.7
100	41.9
200	19.0

GRAIN SIZE ANALYSIS: IDENTIFICATION AND DESCRIPTION OF SOILS (UNIFIED SOILS CLASSIFICATION SYSTEM).

SIEVE ANALYSIS

HYDROMETER ANALYSIS



BOULDERS COBBLES	GRAVEL		SAND			SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F		

PREPARED FOR:	H2M	
JOB LOCATION:	LINK	
DESCRIPTION OF MATERIAL:	MW 24 30-32'	
	FINE TO COARSE GRAVELLY	SIEVE % PASSING
		3/4 100
	SAND, LITTLE SILT - BROWN	3/8 74.1
		#4 44.7
		#10 36.8
		#20 29.4
		#40 26.1
		#60 22.4
		#100 20.6
		#200 20.6

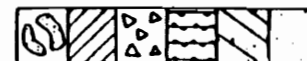
GRAIN SIZE ANALYSIS: IDENTIFICATION AND DESCRIPTION OF SOILS (UNIFIED SOILS CLASSIFICATION SYSTEM).

SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
JOB No. 89-303
SHEET No. 5

SIEVE ANALYSIS

HYDROMETER ANALYSIS



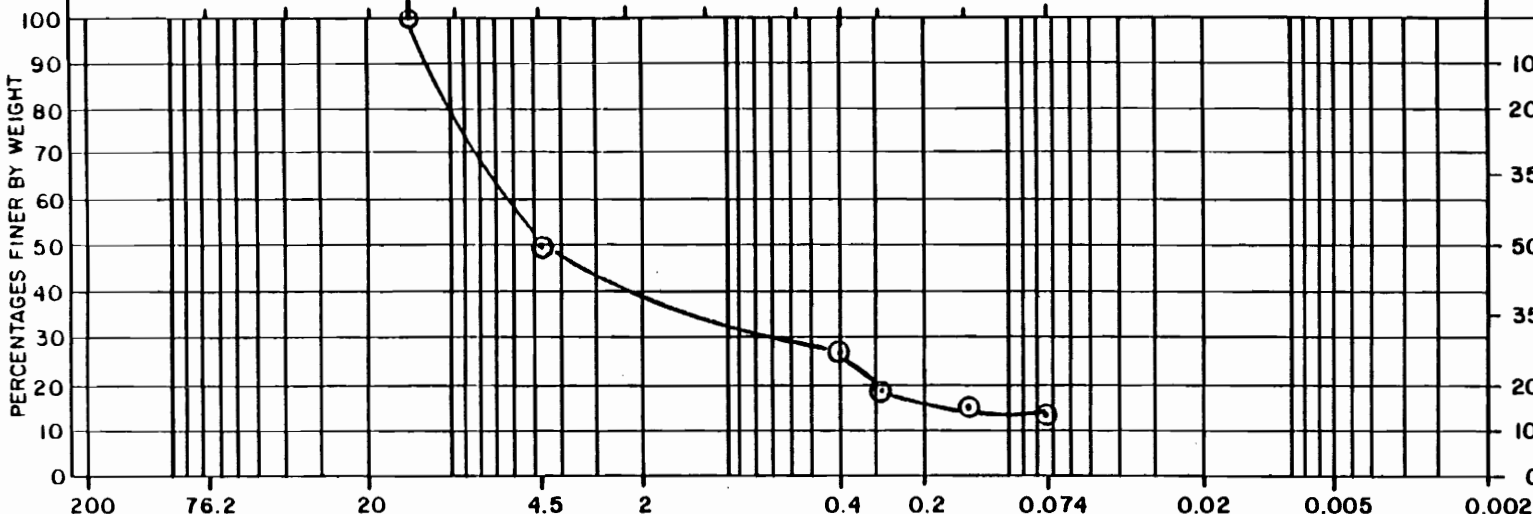
SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
JOB No. 89-303
SHEET No. 6

DESCRIPTIVE TERMS

TRACE
10
LITTLE
20
SOME
35
AND
50
AND
35
SOME
20
LITTLE
10
TRACE

PERCENTAGES FINER BY WEIGHT



GRAIN SIZE IN MILLIMETERS

BOULDERS COBBLES	GRAVEL		SAND		SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C	F	C	M	F	

PREPARED FOR: *H2M*

JOB LOCATION: *SINGER LINK*

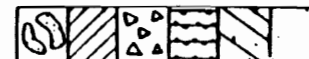
DESCRIPTION OF MATERIAL: *MW 25 20-22'*

*GRAVELLY SAND, LITTLE SILT-
BROWN*

SIEVE	% Passing
"2"	100
4	49.4
10	28.4
40	18.4
50	17.4
100	15.6
200	14.1

SIEVE ANALYSIS

HYDROMETER ANALYSIS

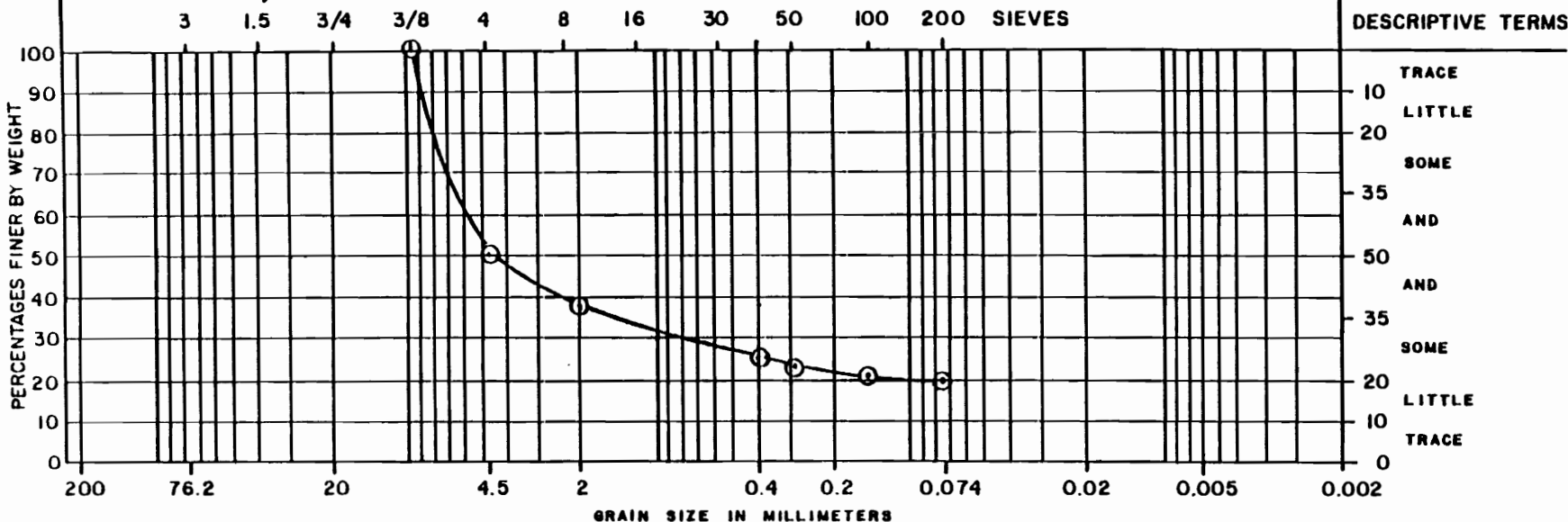


SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783 • (516) 221-2333

DATE: 9-18-89
JOB No. 89-323
SHEET No. 7

PERCENTAGES FINER BY WEIGHT

B-47



BOULDERS COBBLES	GRAVEL	SAND	SILT (NON-PLASTIC)	CLAY (PLASTIC)
	C F	C M F		

PREPARED FOR:	H2M
JOB LOCATION:	LINK
DESCRIPTION OF MATERIAL:	MW 26 17-19'
	GRAVELLY SAND, LITTLE SILT -
	DRILL
SIEVE	% PASSING
3/8"	100
#4	50.2
#10	38.5
#40	25.7
#60	24.3
#100	21.8
#200	20.9

GRAIN SIZE ANALYSIS: IDENTIFICATION AND DESCRIPTION OF SOILS (UNIFIED SOILS CLASSIFICATION SYSTEM).

APPENDIX C

- (1) TECHNICAL CORRESPONDENCE TO NYSDEC
- (2) GROUNDWATER DATA
 - ANALYTICAL DATA SUMMARY SHEETS
 - FIELD SAMPLING RECORDS
- (3) SOIL DATA
- (4) SOIL GAS INVESTIGATION DATA

- (1) TECHNICAL CORRESPONDENCE TO NYSDEC

M E M O R A N D U M

TO: Link Flight Simulation Division Project File
Hillcrest, New York Facility

FROM: Jill S. Haimson 
Senior Hydrogeologist

DATE: July 27, 1989

Timothy Larson, Project Manager from New York State Department of Environmental Conservation (NYSDEC), Bureau of Eastern Remedial Action, Division of Hazardous Waste Remediation, had requested four (4) additional soil borings be drilled and sampled at the Link Flight facility referenced above according to the sample protocols, established in the June 1989 revised Remedial Investigation Work Plan developed for this site.

A request was made to NYSDEC and approved on July 21, 1989 to reduce the number of samples retained for analysis at each of the additional borings from three (3) to two (2). The two (2) samples will be collected at 10' to 12' and 20' to 22' below grade, respectively. As established in the Work Plan, samples will be submitted for laboratory analysis for Target Compound List (TCL) volatile organics, metals and pesticide/PCB parameters according to CLP procedures.

A request was made to Maureen Sarafini of NYSDEC QA/QC on July 25, 1989 to use the samples submitted as the matrix spike and matrix spike duplicate also as the required duplicates during the soil and groundwater sampling programs. Ms. Sarafini approved this request and will put a note in her project file. Also a program of one field blank per twenty samples was discussed and approved.

cc: Rick Armstrong, Link
Timothy J. Larson, NYSDEC
Kevin Farrar, NYSDEC

H2M GROUP

Holzmacher, McLendon and Murrell, P.C. • Holzmacher, McLendon and Murrell, Inc. • H2M Labs, Inc.
Engineers, Architects, Planners, Scientists

575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 756-8000 • (201) 575-5400
FAX: 516-694-4122

January 18, 1990

Public Health Engineer
Broome County Health Department
One Wall Street
Binghamton, New York 13901

Re: Data on Town of Fenton and
Hillcrest Water District No. 1

To Whom It May Concern:

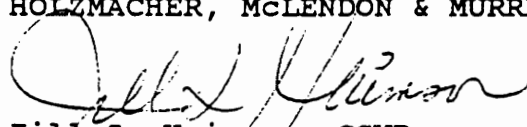
H2M Group is in the process of preparing a report on the remedial investigation being conducted for the CAE-Link Corporation, Link Flight Simulation Division, Hillcrest, New York, facility located in the Town of Fenton. If possible, please send me any information regarding private water supplies in the Town of Fenton or presence of public water supplies in the area other than the three municipal wells located in the Town of Chenango.

Our files contain water supply information from 1985. Please send updated water distribution system maps for the Towns of Fenton and Chenango.

If you have any questions, please feel free to call this office.

Very truly yours,

HOLZMACHER, MCLENDON & MURRELL, P.C.



Jill S. Haimson, CGWP
Senior Hydrogeologist

JSH:mad

H2M GROUP

CERTIFIED MAIL

Holzmatcher, McLendon and Murrell, P.C. • Holzmatcher, McLendon and Murrell, Inc. • H2M Labs, Inc.
Engineers, Architects, Planners, Scientists

575 Broad Hollow Road, Melville, N.Y. 11747-5076
(516) 756-8000 • (201) 575-5400

January 17, 1990

Paul Sacker
Project Scientist
USEPA, Region 2
26 Federal Plaza
New York, New York 10278

Re: USEPA Study on the Hillcrest Area
Broome County, New York

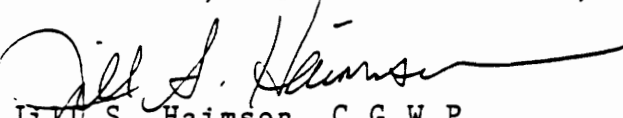
Dear Mr. Sacker:

This letter is a request for any information developed as part of the USEPA study being conducted for the Hillcrest Area in Broome County, New York. In our previous discussions you indicated that the study was complete but that a report was not available at the time. Please issue a copy of the report to me as soon as it is possible. H2M Group, on behalf of CAE-Link Corporation, Link Flight Simulation Division, is in the process of completing a report on a remedial investigation being conducted in the Hillcrest area. The investigation is being performed at the request of the NYS Department of Environmental Conservation (NYSDEC) and with NYSDEC oversight. The results of USEPA study should be very pertinent to this project.

Please call this office, if you have any questions.

Sincerely,

HOLZMACHER, McLENDON & MURRELL, P.C.


Jill S. Haimson, C.G.W.P.
Senior Hydrogeologist

JSH/grm

cc: Rick Armstrong, CAE-Link
Timothy Larson, NYS Dept. of Environmental Conservation

(2) GROUNDWATER DATA

- ANALYTICAL DATA SUMMARY SHEETS
- FIELD SAMPLING RECORDS

WATER LEVEL DATA

SITE: LINK FLIGHT SIMULATORS

WEATHER: SUNNY MID 70's

JOB NO. LINK 8901

COMMENTS Page 1 of 2

DATE: 9/6/89

SAMPLERS: MNG/JSH/FPC

DEPTH TO GROUNDWATER

9/6/89
↓
9/8/89
↓

WELL #	TIME	MEASUREMENT #		
		1	2	3
MW-25	0820	7.33'	7.33'	7.33'
MW-24	0952	35.90'	35.90'	35.90'
MW-26	1345	16.59'	16.59'	16.60'
MW-23	0930	16.23'	16.20'	16.23'
MW-22	1445	23.75'	23.75'	23.74'
MW-21	1040	29.52'	29.87'	29.82'
MW-20	1200	26.79'	26.61'	26.65'
MW-17	1540	28.30'	28.38'	28.37'
MW-18		18.99'	19.00'	18.99'
MW-15	1645	23.41'	23.40'	23.40'
MW-13		16.66	16.67	16.64'
MW-12	1200	19.35'	19.35'	19.34'
MW-10	0810	18.42'	18.40'	18.36'
MW-6	0908	24.12'	24.11'	24.12'
MW-4		18.55'	18.62'	18.64'
MW-11		22.57'	22.59'	22.57'
MW-3		23.92'	23.90'	23.91'
MW-16		21.46'	21.48'	21.48'
MW-2		23.75'	23.74'	23.75'
MW-2A		25.37'	25.36'	25.37'
MW-7		20.71'	20.68'	20.70'



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WATER LEVEL DATA

WEATHER: Sunny Mid 70's

COMMENTS Page 2 of 2

DEPTH TO GROUNDWATER

[illegible]

WATER LEVEL DATA

SITE: HillcrestWEATHER: Cloudy, coolJOB NO. LINK 8901

COMMENTS _____

DATE: 10/3/89SAMPLERS: MWH, EPC, JSH

DEPTH TO GROUNDWATER

WELL #	Headspace ~~TIME~~	MEASUREMENT #			D.T.B
		1	2	3	
1	0	21.39	21.35	21.39	29.54
2	0	25.62	25.62	25.62	52.50
2A	.8	24.13	24.13	24.13	30.86
3	0	23.48	23.47	23.47	38.41
4	0	17.82	17.83	17.83	28.33
5	0	23.70	23.70	23.70	33.90
6	25	24.42	24.42	24.42	39.34
7	.8	21.07	21.07	21.07	39.54
8					
9	.3	21.54	21.54	21.54	29.78
10	0	16.90	16.90	16.90	28.72
11	0	22.73	22.73	22.73	32.46
12	0	18.25	18.25	18.25	28.10
F3	0	14.87	14.86	14.87	28.78
14	0	21.54	21.54	21.54	33.31
15	0	23.77	23.77	23.77	39.78
17C	0	21.79	21.76	21.76	39.90
17	0	28.30	28.30	28.30	44.70
18		19.35	19.35	19.35	33.52



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/7/89

TIME 0915

SAMPLE LOCATION MW-6

SAMPLERS MNG / FPC / JSH

WEATHER Overcast hazy cool

DEPTH TO H2O 24.12'

MEAS. POINT Top of Casing

STATIC H2O LEVEL

STATIC VOLUME 2.39 GALS.

VOLUME H2O TO BE REMOVED 7.1 GALLONS

EVACUATION TECHNIQUE: HAND BAILED

BAILED ☒

OF BAILS 36 BALS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE

TIME

COOLER #

FIELD PARAMETERS:

pH 7.14

TEMP 15°C CONDUCTIVITY 1740



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FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK8901

DATE 9/7/89

TIME 0800

SAMPLE LOCATION MW-10

SAMPLERS MNG / FPC

WEATHER Cloudy Mid 60's

DEPTH TO H2O 18.42

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 1.7 GALS.

VOLUME H2O TO BE REMOVED 5.1 GALLONS

EVACUATION TECHNIQUE: HAND BAILED

BAILED



OF BAILS 26

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE

TIME

COOLER #

FIELD PARAMETERS:

pH 7.31

TEMP 14.1 °C CONDUCTIVITY 568



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/7/89

TIME 1200

SAMPLE LOCATION MW-12

SAMPLERS MNG/JSH/FPC

WEATHER Overcast + Warm

DEPTH TO H2O 19.35

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 1.45 GALS.

VOLUME H2O TO BE REMOVED 4.3 GALS.

EVACUATION TECHNIQUE: HAND BAILED

BAILED



OF BAILS 23

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

BROWN / TURBID

REFRIGERATION:

DATE 9/7/89

TIME

COOLER #

FIELD PARAMETERS:

pH 7.55

TEMP 10.7° CONDUCTIVITY 680



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK8901

DATE 9/7/89

TIME 1215

SAMPLE LOCATION MW-13

SAMPLERS MNG / FPC / JSH

WEATHER WARM UPPER 70'S

DEPTH TO H2O 16.67'

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 2.1 GALS.

VOLUME H2O TO BE REMOVED 6.5 GALLONS.

EVACUATION TECHNIQUE: HAND BAILED

BAILED



OF BAILS 40

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE 9/7/89

TIME

COOLER #

FIELD PARAMETERS:

pH 7.11

TEMP 13.3° CONDUCTIVITY 560



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK8901

DATE 9/6/89

TIME 1645

SAMPLE LOCATION MW-15

SAMPLERS MNG / JSH / FPC

WEATHER SUNNY HOT

DEPTH TO H2O 23.40

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 2.7 GALS.

VOLUME H2O TO BE REMOVED 8.1 GALS

EVACUATION TECHNIQUE: HAND BAILED

BAILED ☒

OF BAILS 37 BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE 9/6/89 TIME 1700 COOLER #

FIELD PARAMETERS:

pH 8.31 TEMP 12.5 CONDUCTIVITY 821



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/7/89

TIME 1130

SAMPLE LOCATION MW-16

SAMPLERS MNG/JSH/FPC

WEATHER Cloudy Mid 70's

DEPTH TO H2O 21.48

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 3.01 GALS.

VOLUME H2O TO BE REMOVED 9 GALLONS

EVACUATION TECHNIQUE: HAND BAILED

BAILED



OF BAILS 45

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE

TIME

COOLER #

FIELD PARAMETERS:

pH 7.53

TEMP 12° C

CONDUCTIVITY 900

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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/6/89

TIME 1700

SAMPLE LOCATION MW-17

SAMPLERS MNG / JSH / FPC

WEATHER SUNNY HOT UPPER 70'S

DEPTH TO H2O 28.30

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 2.7 GAL.

VOLUME H2O TO BE REMOVED 8.1 GALS.

EVACUATION TECHNIQUE: HAND BAILED

BAILED



OF BAILS 37 BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE 9/6/89 TIME 1730 COOLER # 1

FIELD PARAMETERS:

pH 7.6

TEMP 13.4°C CONDUCTIVITY 981

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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK8901

DATE 9/6/89

TIME 1200

SAMPLE LOCATION MW-20

SAMPLERS MNG/JSH/FPC

WEATHER SUNNY MID'60'S

DEPTH TO H2O 26.79

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 1.48 GAL.

VOLUME H2O TO BE REMOVED 4.4 GAL.

EVACUATION TECHNIQUE:

BAILED ☒ BAILER

OF BAILS 25 BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

FIELD BLANK NO. 1 - VOLATILE ORGANICS, PESTICIDES

PCB'S, METALS, CHROMIUM, CYANIDE

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE 9/6/89 TIME 1220 COOLER # 4/2

FIELD PARAMETERS:

pH 6.79

TEMP 10.9°C CONDUCTIVITY 1043



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/6/89

TIME 1045

SAMPLE LOCATION MW-21

SAMPLERS MNG / JSH / FPC

WEATHER SUNNY - MID 60's

DEPTH TO H2O 29.52

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME .77 GAL.

VOLUME H2O TO BE REMOVED 2.3 GALLON

EVACUATION TECHNIQUE:

BAILED ☒ BAILER # OF BAILS 19 BAILSCENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE 9/6/89 TIME 1100 COOLER # 4

FIELD PARAMETERS:

pH 6.95 TEMP 14°C CONDUCTIVITY 929



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/7/89

TIME

SAMPLE LOCATION MW-22 (MS/MSP)

SAMPLERS MNG / FPC / JSH

WEATHER Cloudy Mid 70's

DEPTH TO H2O 23.75

MEAS. POINT Top of Casing

STATIC H2O LEVEL

STATIC VOLUME 1.32 Gallons

VOLUME H2O TO BE REMOVED 4 GALLONS

EVACUATION TECHNIQUE: HAND BAILED

BAILED



OF BAILS 20

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

MS/MSP AND FIELD BLANK # 4,

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE

TIME

COOLER #

FIELD PARAMETERS:

pH 7.59

TEMP 17.1° CONDUCTIVITY 850



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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK8901

DATE 9/6/89

TIME 1425

SAMPLE LOCATION MW-23

SAMPLERS MNG / FPC / JSH

WEATHER SUNNY WARM MID 70's

DEPTH TO H2O 16.23

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 1.7 GALS.

VOLUME H2O TO BE REMOVED 5.25 GALLONS

EVACUATION TECHNIQUE: HAND BAILED

BAILED



BAILER

OF BAILS 30

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE 9/6/89 TIME 1510 COOLER # 1

FIELD PARAMETERS:

pH 7.10

TEMP 12.6°C CONDUCTIVITY 725

TURBIDITY >100

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FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/6/89

TIME 1020

SAMPLE LOCATION MW-24

SAMPLERS MNG/JSH/FPC

WEATHER CLOUDY - COOL - OVERCAST

DEPTH TO H2O 35.90

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME .66 GAL.

VOLUME H2O TO BE REMOVED 2.0 GAL.

EVACUATION TECHNIQUE:

BAILED



OF BAILS 25 BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE

TIME

COOLER #

FIELD PARAMETERS:

pH 6.50

TEMP 10.9° C CONDUCTIVITY 760

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FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/6/89

TIME 0800

SAMPLE LOCATION MW-25

SAMPLERS MNG/JSH/FPC

WEATHER Cloudy Mid 50's

DEPTH TO H2O 7.33

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 2.81 GAL.

VOLUME H2O TO BE REMOVED

8.4 GAL

EVACUATION TECHNIQUE:

BAILED

☐

OF BAILS

CENT. PUMP

☒

TRASH PUMP

FLOW RATE 2 GPM

SUBM. PUMP

☐

TIME PUMPED 5 MINUTES

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / BROWN (SILT)

REFRIGERATION:

DATE

TIME

COOLER #

FIELD PARAMETERS:

pH 7.40

TEMP 11° C

CONDUCTIVITY 960



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MELVILLE, N.Y.
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ROVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE LINK FLIGHT SIMULATORS JOB# LINK 8901

DATE 9/6/89

TIME 1345

SAMPLE LOCATION MW-26

SAMPLERS MNG / JSH / FPC

WEATHER SUNNY HOT MID 70's

DEPTH TO H2O 16.59

MEAS. POINT TOP OF CASING

STATIC H2O LEVEL

STATIC VOLUME 1.7 GAL.

VOLUME H2O TO BE REMOVED 5.1 GALLONS

EVACUATION TECHNIQUE: HAND BAILED

BAILED



OF BAILS 27 BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

TURBID / SILTY BROWN

REFRIGERATION:

DATE 9/6/89 TIME 1355 COOLER # 5

FIELD PARAMETERS:

pH 7.85

TEMP 10.9°C CONDUCTIVITY 325

**HOLZMACHER, McLENDON & MURRELL, P.C.**
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FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# Link 8901

DATE 10/4/89

TIME 3:00 pm

SAMPLE LOCATION MW-6

SAMPLERS JSH/MNC/KPC

WEATHER cold sunny

DEPTH TO H2O 24.42'

MEAS. POINT bp of casing

STATIC H2O LEVEL 14.92'

STATIC VOLUME 2.43 gallons

VOLUME H2O TO BE REMOVED 8 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED ☒

OF BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: Filtered + Unfiltered

REFRIGERATION:

DATE 10/4

TIME

COOLER #

FIELD PARAMETERS:

pH 7.6

TEMP

CONDUCTIVITY 1760



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RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# Link 9901

DATE 10/5/89

TIME

SAMPLE LOCATION HWC-10

SAMPLERS JSH/HING/FPC

WEATHER Sunny 60°F

DEPTH TO H2O 10.90'

MEAS. POINT top of casing

STATIC H2O LEVEL 11.82'

STATIC VOLUME 193 gallons

VOLUME H2O TO BE REMOVED 6 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED



OF BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

REFRIGERATION:

DATE 10/5

TIME

COOLER #

FIELD PARAMETERS:

pH 6.2

TEMP

CONDUCTIVITY 580



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# Link 8901

DATE 10/4/89

TIME 4:20

SAMPLE LOCATION MW-12

SAMPLERS JSH/MNG/FPC

WEATHER 65°F, sunny

DEPTH TO H2O 18.25

MEAS. POINT top of casing

STATIC H2O LEVEL 9.85

STATIC VOLUME 1.6 gallons

VOLUME H2O TO BE REMOVED 5 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED ☒

OF BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: turbid, brown

REFRIGERATION:

DATE 10/4

TIME

COOLER #

FIELD PARAMETERS:

pH 5.5

TEMP

CONDUCTIVITY 650



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# Link 89101

DATE 10/5/89

TIME

SAMPLE LOCATION HW-13

SAMPLERS JSH/MWG/FPC

WEATHER Sunny, 60°F

DEPTH TO H2O 14.87'

MEAS. POINT. bp of casing

STATIC H2O LEVEL 13.91'

STATIC VOLUME 2.3 gallons

VOLUME H2O TO BE REMOVED 7 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED



OF BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: filtered + unfiltered

REFRIGERATION:

DATE 10/5 TIME 8:45 COOLER #

FIELD PARAMETERS:

pH 6.5

TEMP

CONDUCTIVITY 535



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# Link S101

DATE 10/4/85

TIME 2:30 pm

SAMPLE LOCATION MW-15

SAMPLERS JSH/MWG/FPC

WEATHER cool, sunny

DEPTH TO H2O 23.77'

MEAS. POINT top of casing

STATIC H2O LEVEL 16.01'

STATIC VOLUME 2.6 gallons

VOLUME H2O TO BE REMOVED 8 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED ☒

OF BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: turbid, brown

REFRIGERATION:

DATE 10/4

TIME

COOLER #

FIELD PARAMETERS:

pH 8.1

TEMP

CONDUCTIVITY 830



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# UNK 5101

DATE 10/5/89

TIME

SAMPLE LOCATION HW-110

SAMPLERS MING/KPC

WEATHER Sunny, 65°F

DEPTH TO H2O 21.79'

MEAS. POINT top of casing

STATIC H2O LEVEL 18.11'

STATIC VOLUME 3 gallons

VOLUME H2O TO BE REMOVED 9 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED



OF BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: cloudy, turbid

REFRIGERATION:

DATE 10/5

TIME

COOLER #

FIELD PARAMETERS:

pH 3.8

TEMP

CONDUCTIVITY 828



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcroft

JOB# LINK 8901

DATE 10/4/89

TIME

SAMPLE LOCATION HW-17

SAMPLERS ISH/RING/KPC

WEATHER sunny, cold, 55°F

DEPTH TO H2O 28.30'

MEAS. POINT. top of casing

STATIC H2O LEVEL 16.45'

STATIC VOLUME 2.7 gallons

VOLUME H2O TO BE REMOVED 3 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED



OF BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: clear, light brown

REFRIGERATION:

DATE 10/4- TIME 2:00 COOLER #

FIELD PARAMETERS:

pH 5.2

TEMP

CONDUCTIVITY 970



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Willow

JOB# LINK 8501

DATE 10/4/99

TIME

SAMPLE LOCATION H10-20

SAMPLERS JSB/MNG/FAC

WEATHER cold, partly cloudy

DEPTH TO H2O 27.25'

MEAS. POINT top of casing

STATIC H2O LEVEL 9.25'

STATIC VOLUME 1.5 gallons

VOLUME H2O TO BE REMOVED 5 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED



OF BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP-BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: turbid, brown

REFRIGERATION:

DATE 10/4/99 TIME 1:30 COOLER #

FIELD PARAMETERS:

pH 8.1

TEMP

CONDUCTIVITY 1050



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# LINK 9101

DATE 10/4/89

TIME 10:45

SAMPLE LOCATION M10-21

SAMPLERS SSH/HING/FPL

WEATHER cloudy

DEPTH TO H2O 30.93

MEAS. POINT 1 bp of casing

STATIC H2O LEVEL 3.57

STATIC VOLUME 6 gallons

VOLUME H2O TO BE REMOVED 2 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED ☒

OF BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: turbid, brown

REFRIGERATION:

DATE 10/4/89 TIME

COOLER #

FIELD PARAMETERS:

pH 8.1

TEMP

CONDUCTIVITY 830



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# LINK 501

DATE 10/5/89

TIME

SAMPLE LOCATION MW-22

SAMPLERS 1SH/MNG/EPC

WEATHER Sunny 60°F

DEPTH TO H2O 24.01

MEAS. POINT top of casing

STATIC H2O LEVEL 7.99

STATIC VOLUME 1.3 gallons

VOLUME H2O TO BE REMOVED 4 gallons

EVACUATION TECHNIQUE: Hand bailed

BAILED



OF BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: turbid, brown

HIS/HSD, filtered

REFRIGERATION:

DATE 10/5/89 TIME 11:30 COOLER #

FIELD PARAMETERS:

pH

TEMP

CONDUCTIVITY



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Wellpoint

JOB# LINK 8901

DATE 10/4/89

TIME 8:25

SAMPLE LOCATION MW-23

SAMPLERS JSH/HING/EPC

WEATHER cool, cloudy

DEPTH TO H2O 16.03

MEAS. POINT top of casing

STATIC H2O LEVEL 10.97

STATIC VOLUME 1.8 gallons

VOLUME H2O TO BE REMOVED 6 gallons

EVACUATION TECHNIQUE: Hand bail

BAILED



OF BAILS

CENT. PUMP



FLOW RATE

SUBM. PUMP



TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS:

REFRIGERATION:

DATE

TIME

COOLER #

FIELD PARAMETERS:

pH 7.6

TEMP

CONDUCTIVITY 670



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# LINK 8901

DATE 10/4/89

TIME 9:45

SAMPLE LOCATION MW-24

SAMPLERS ISH/MINC/FPC

WEATHER cold, cloudy

DEPTH TO H2O 36.36

MEAS. POINT top of casing

STATIC H2O LEVEL c. 31

STATIC VOLUME 1.03 gallons

VOLUME H2O TO BE REMOVED 3-5 gallons

EVACUATION TECHNIQUE: Hand bail

BAILED ☒

OF BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: turbid

REFRIGERATION:

DATE 10/4/89 TIME 9:45 COOLER #

FIELD PARAMETERS:

pH 8.0

TEMP

CONDUCTIVITY 750



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# LINK 8101

DATE 10/4/89

TIME 7:30 am

SAMPLE LOCATION HW-25

SAMPLERS JSR/HMG/FPC

WEATHER cloudy, cold ~40°F

DEPTH TO H2O 6.35

MEAS. POINT top of casing

STATIC H2O LEVEL 18.32

STATIC VOLUME 2.99 gallons

VOLUME H2O TO BE REMOVED 9 gallons

EVACUATION TECHNIQUE: flow and bailed

BAILED ☒

OF BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: cloudy, turbid, lumpy

REFRIGERATION:

DATE 10/4

TIME

COOLER #

FIELD PARAMETERS:

pH 7.9

TEMP 10°

CONDUCTIVITY 950



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

FIELD SAMPLING RECORD

SITE Hillcrest

JOB# LINK 901

DATE 10/4/89

TIME 11:35

SAMPLE LOCATION MW-210

SAMPLERS JSH/MWG/FPC

WEATHER cold, cloudy

DEPTH TO H2O 13.50

MEAS. POINT top of casing

STATIC H2O LEVEL 13.41

STATIC VOLUME 2.9 gallons

VOLUME H2O TO BE REMOVED 7 gallons

EVACUATION TECHNIQUE: 71a and bailed

BAILED ☒

OF BAILS

CENT. PUMP ☐

FLOW RATE

SUBM. PUMP ☐

TIME PUMPED

TRIP BLANK I.D. #

SAMPLE BLANK I.D. #

CONTAINERS FILLED AND I.D. #'S

SAMPLE CHARACTERISTICS: turbid brown

REFRIGERATION:

DATE 10/4

TIME

COOLER #

FIELD PARAMETERS:

pH 8.3

TEMP

CONDUCTIVITY 300



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

PIEZOMETER WELLS
SINGER LINK HILLCREST

	<u>Northing</u>	<u>Easting</u>	<u>Ground</u>	<u>Casing</u>	<u>PVC Pipe</u>
MW 20	5846.67	4907.34	902.0	902.02	901.86
MW 21	4995.57	4135.84	900.4	900.42	900.24
MW 22	4817.93	5078.29	901.1	903.10	903.02
MW 23	4611.07	3350.05	852.7	852.69	852.34
MW 24	5259.72	3673.87	879.7	879.66	879.48
MW 25	5868.18	4148.26	854.9	854.91	854.66
MW 26	4385.40	5898.81	912.1	912.07	911.84

ATTACHMENT 1

MATRIX	VOLATILE ANALYSIS METHOD #	METALS ANALYSIS METHOD #	BASE/NEUTRAL ACID EXTRACTABLES METHOD #	PESTICIDE/PCB METHOD #	OTHER
GROUNDWATER	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87
SOIL	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87
LEACHATE					
SLUDGE					
AIR					
FIELD BLANKS	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87
TRIP BLANKS	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87
DUPLICATE	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87
LABORATORY QA/QC	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87	NYSDEC CLP SOW 11/87

TABLE 10-1
METHODS FOR CLP AND NON-CLP
ANALYSIS OF GROUNDWATER
AT SINGER LINK

PARAMETERS =====	METHOD REFERENCE NUMBER =====	SAMPLE PRESERVATION =====	HOLDING TIME =====	CONTAINER =====	NO. OF SAMPLES** =====
TARGET COMPOUND LIST					
VOLATILE ORGANICS	CLP SDW 7/87 REV.	4°C	EXTRACT W/IN 40 #1 VIALS W/ ANALYZE W/IN 5 DAYS	TEFLON LINED CAPS	21
PESTICIDES/PCB'S	CLP SDW 7/87 REV.	4°C	EXTRACT W/IN 5 DAYS ANALYZE W/IN 30 DAYS W/	1L GLASS BOTTLE TEFLON LINED CAPS	19
METALS					
ALUMINUM (Al)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
ANTIMONY (Sb)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
ARSENIC (As)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
BARIUM (Ba)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
BERYLLIUM (Be)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
CADMIUM (Cd)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
CALCIUM (Ca)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
CHROMIUM (Cr)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
COBALT (Co)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
COPPER (Cu)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
IRON (Fe)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
LEAD (Pb)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
MAGNESIUM (Mg)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
MANGANESE (Mn)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
MERCURY (Hg)	CLP SDW 7/87 REV.	HNO3 / 4°C	14 DAYS	500 ml PLASTIC	19
NICKEL (Ni)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
POTASSIUM (K)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
SELENIUM (Se)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
SILVER (Ag)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
SODIUM (Na)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
THALLIUM (Tl)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
VANADIUM (V)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
ZINC (Zn)	CLP SDW 7/87 REV.	HNO3 / 4°C	6 MONTHS	500 ml PLASTIC	19
CYANIDE (CN)	CLP SDW 7/87 REV.	NaOH / 4°C	14 DAYS	1L PLASTIC	19
HEX-CHROME	CLP SDW 7/87 REV.	4°C	24 HOURS	1L PLASTIC	19
NON-CLP ANALYSIS					
TDC	EPA 415.1 1979	H2SO4 / 4°C	28 DAYS	AMBER GLASS W/	5
TOX	EPA 450.1 1979	H2SO4 / 4°C	28 DAYS	TEFLON CAP	5
COD	EPA 505 A 1979	H2SO4 / 4°C	28 DAYS	1L GLASS	5
BOD5	EPA 507 1979	4°C	48 HOURS	5L PLASTIC	5
TDS	EPA 209 B 1979	4°C	7 DAYS	5L PLASTIC	5

** INCLUDES QA/QC SAMPLES FOR CLP ANALYSIS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-6

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965511

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1516

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	10.	IU	
74-83-9-----	Bromomethane	10.	IU	
75-01-4-----	Vinyl Chloride	10.	IU	
75-00-3-----	Chloroethane	10.	IU	
75-09-2-----	Methylene Chloride	5.	IU	
67-64-1-----	Acetone	10.	IU	
75-15-0-----	Carbon Disulfide	5.	IU	
75-35-4-----	1,1-Dichloroethene	10.	I	
75-34-3-----	1,1-Dichloroethane	13.	I	
540-59-0-----	1,2-Dichloroethene (total)	44.	I	
67-66-3-----	Chloroform	5.	IU	
107-06-2-----	1,2-Dichloroethane	5.	IU	
78-93-3-----	2-Butanone	10.	IU	
71-55-6-----	1,1,1-Trichloroethane	10.	I	
56-23-5-----	Carbon Tetrachloride	5.	IU	
108-05-4-----	Vinyl Acetate	10.	IU	
75-27-4-----	Bromodichloromethane	5.	IU	
78-87-5-----	1,2-Dichloropropane	5.	IU	
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU	
79-01-6-----	Trichloroethene	700.	I	D
124-48-1-----	Dibromochloromethane	5.	IU	
79-00-5-----	1,1,2-Trichloroethane	5.	IU	
71-43-2-----	Benzene	5.	IU	
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU	
75-25-2-----	Bromoform	5.	IU	
108-10-1-----	4-Methyl-2-pentanone	10.	IU	
591-78-6-----	2-Hexanone	10.	IU	
127-18-4-----	Tetrachloroethene	5.	IU	
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU	
108-88-3-----	Toluene	5.	IU	
108-90-7-----	Chlorobenzene	5.	IU	
100-41-4-----	Ethylbenzene	5.	IU	
100-42-5-----	Styrene	5.	IU	
133-02-7-----	Xylene (total)	5.	IU	

John J. Malloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-6

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965511

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1516

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
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.				

*

John J. Mulvey, P.E.

Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6 DL

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965511 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1537

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 0.20000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	50.	IU
74-83-9-----	Bromomethane	50.	IU
75-01-4-----	Vinyl Chloride	50.	IU
75-00-3-----	Chloroethane	50.	IU
75-09-2-----	Methylene Chloride	25.	IU
67-64-1-----	Acetone	50.	IU
75-15-0-----	Carbon Disulfide	25.	IU
75-35-4-----	1,1-Dichloroethene	25.	IU D
75-34-3-----	1,1-Dichloroethane	12.	IJ
540-59-0-----	1,2-Dichloroethene (total)	41.	I
67-66-3-----	Chloroform	25.	IU
107-06-2-----	1,2-Dichloroethane	25.	IU
78-93-3-----	2-Butanone	50.	IU
71-55-6-----	1,1,1-Trichloroethane	11.	IJ
56-23-5-----	Carbon Tetrachloride	25.	IU
108-05-4-----	Vinyl Acetate	50.	IU
75-27-4-----	Bromodichloromethane	25.	IU
78-87-5-----	1,2-Dichloropropane	25.	IU
10061-01-5-----	cis-1,3-Dichloropropene	25.	IU
79-01-6-----	Trichloroethene	760.	I
124-48-1-----	Dibromochloromethane	25.	IU
79-00-5-----	1,1,2-Trichloroethane	25.	IU
71-43-2-----	Benzene	25.	IU
10061-02-6-----	trans-1,3-Dichloropropene	25.	IU
75-25-2-----	Bromoform	25.	IU
108-10-1-----	4-Methyl-2-pentanone	50.	IU
591-78-6-----	2-Hexanone	50.	IU
127-18-4-----	Tetrachloroethene	25.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	25.	IU
108-88-3-----	Toluene	25.	IU
108-90-7-----	Chlorobenzene	25.	IU
100-41-4-----	Ethylbenzene	25.	IU
100-42-5-----	Styrene	25.	IU
133-02-7-----	Xylene (total)	25.	IU

Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-6 DL

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965511 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1537

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 0.20000

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	Unknown	14.17	30.	J
3.	Unknown Hydrocarbon	14.26	55.	J
4.	Unknown Hydrocarbon	14.49	35.	J
5. 124185	Decane (8CI9CI)	15.10	25.	J
6.	Ethyl-methyl benzene isomer	15.33	70.	J
8.	Ethyl-methyl benzene isomer	16.00	40.	J
9.	Unknown	16.18	60.	J
12. 1120214	Undecane (8CI9CI)	16.83	65.	J
13.				
14.				
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*

* *John L. Lally, P.E.* *

John L. Lally, P.E.

Laboratory Director

DATE REPORTED: NOV 1 1989

FORM 1 UOA-TIC

1/87 Rev.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-21

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965512

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1517

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	6.	I
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	28.	I
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	42.	I
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Malloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-21

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965512

Sample wt/Vol: 5 (g/mL) ML

Lab File ID: >P1517

Level: (low/med) LDW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	4.03	74.	J
2.				
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John J. Molloy, P.E.
Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965513

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1520

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10. IU
74-83-9	Bromomethane	10. IU
75-01-4	Vinyl Chloride	10. IU
75-00-3	Chloroethane	10. IU
75-09-2	Methylene Chloride	5. IU
67-64-1	Acetone	33. IU
75-15-0	Carbon Disulfide	5. IU
75-35-4	1,1-Dichloroethene	5. IU
75-34-3	1,1-Dichloroethane	5. IU
540-59-0	1,2-Dichloroethene (total)	5. IU
67-66-3	Chloroform	5. IU
107-06-2	1,2-Dichloroethane	5. IU
78-93-3	2-Butanone	10. IU
71-55-6	1,1,1-Trichloroethane	7. IU
56-23-5	Carbon Tetrachloride	5. IU
108-05-4	Vinyl Acetate	10. IU
75-27-4	Bromodichloromethane	5. IU
78-87-5	1,2-Dichloropropane	5. IU
10061-01-5	cis-1,3-Dichloropropene	5. IU
79-01-6	Trichloroethene	51. IU
124-48-1	Dibromochloromethane	5. IU
79-00-5	1,1,2-Trichloroethane	5. IU
71-43-2	Benzene	5. IU
10061-02-6	trans-1,3-Dichloropropene	5. IU
75-25-2	Bromoform	5. IU
108-10-1	4-Methyl-2-pentanone	10. IU
591-78-6	2-Hexanone	10. IU
127-18-4	Tetrachloroethene	5. IU
79-34-5	1,1,2,2-Tetrachloroethane	5. IU
108-88-3	Toluene	5. IU
108-90-7	Chlorobenzene	5. IU
100-41-4	Ethylbenzene	5. IU
100-42-5	Styrene	5. IU
133-02-7	Xylene (total)	5. IU

John J. Malloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-20

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965513

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1520

Level: (low/med) LDW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
2.				
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DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965514

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1521

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	I
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	54.	I
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-15

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965514

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1521

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	D
1.	No unknowns found			
2.				
3.				
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DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-26

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965515

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1522

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-26

Lab Code: ----- Case No.: LINK SAS No.: ----- SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965515

Sample wt/Vol: 5 (g/mL) ML

Lab File ID: >P1522

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
2.				
3.				
4.				
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24.		*****	*****	
25.		*****	*****	
26.		*****	*****	
27.		*****	*****	
28.		John J. Melloy, P.E.		
29.		Laboratory Director		
30.				

DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

FB-1

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965516

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1523

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

FB-1

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965516

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1523

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
2.				
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23.				
24.		*****	*****	
25.		*	*	
26.		* <i>[Signature]</i> *		
27.		*****	*****	
28.		John J. Melley, P.E.		
29.		Laboratory Director		
30.				

DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965517

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1524

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

74-87-3-----	Chloromethane	10.	IU	
74-83-9-----	Bromomethane	10.	IU	
75-01-4-----	Vinyl Chloride	10.	IU	
75-00-3-----	Chloroethane	10.	IU	
75-09-2-----	Methylene Chloride	5.	IU	
67-64-1-----	Acetone	10.	IU	
75-15-0-----	Carbon Disulfide	5.	IU	
75-35-4-----	1,1-Dichloroethene	5.	IU	
75-34-3-----	1,1-Dichloroethane	5.	IU	
540-59-0-----	1,2-Dichloroethene (total)	5.	IU	
67-66-3-----	Chloroform	5.	IU	
107-06-2-----	1,2-Dichloroethane	5.	IU	
78-93-3-----	2-Butanone	10.	IU	
71-55-6-----	1,1,1-Trichloroethane	5.	IU	
56-23-5-----	Carbon Tetrachloride	5.	IU	
108-05-4-----	Vinyl Acetate	10.	IU	
75-27-4-----	Bromodichloromethane	5.	IU	
78-87-5-----	1,2-Dichloropropane	5.	IU	
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU	
79-01-6-----	Trichloroethene	40.	IU	
124-48-1-----	Dibromochloromethane	5.	IU	
79-00-5-----	1,1,2-Trichloroethane	5.	IU	
71-43-2-----	Benzene	5.	IU	
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU	
75-25-2-----	Bromoform	5.	IU	
108-10-1-----	4-Methyl-2-pentanone	10.	IU	
591-78-6-----	2-Hexanone	10.	IU	
127-18-4-----	Tetrachloroethene	5.	IU	
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU	
108-88-3-----	Toluene	5.	IU	
108-90-7-----	Chlorobenzene	5.	IU	
100-41-4-----	Ethylbenzene	5.	IU	
100-42-5-----	Styrene	5.	IU	
133-02-7-----	Xylene (total)	5.	IU	

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-16

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965517

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1524

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
2.				
3.				
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John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: 9/1/89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: ----- SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965518

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1525

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	35.	I
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	51.	I
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy

 John J. Molloy, P.E.
 Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-13

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965518

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1525

Level: (low/med) LDW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	D
1.	No unknowns found			
2.				
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DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965519

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1526

Level: (low/med) LDW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10. IU
74-83-9	Bromomethane	10. IU
75-01-4	Vinyl Chloride	10. IU
75-00-3	Chloroethane	10. IU
75-09-2	Methylene Chloride	5. IU
67-64-1	Acetone	10. IU
75-15-0	Carbon Disulfide	5. IU
75-35-4	1,1-Dichloroethene	5. IU
75-34-3	1,1-Dichloroethane	5. IU
540-59-0	1,2-Dichloroethene (total)	5. IU
67-66-3	Chloroform	5. IU
107-06-2	1,2-Dichloroethane	5. IU
78-93-3	2-Butanone	10. IU
71-55-6	1,1,1-Trichloroethane	5. IU
56-23-5	Carbon Tetrachloride	5. IU
108-05-4	Vinyl Acetate	10. IU
75-27-4	Bromodichloromethane	5. IU
78-87-5	1,2-Dichloropropane	5. IU
10061-01-5	cis-1,3-Dichloropropene	5. IU
79-01-6	Trichloroethene	5. IU
124-48-1	Dibromochloromethane	5. IU
79-00-5	1,1,2-Trichloroethane	5. IU
71-43-2	Benzene	5. IU
10061-02-6	trans-1,3-Dichloropropene	5. IU
75-25-2	Bromoform	5. IU
108-10-1	4-Methyl-2-pentanone	10. IU
591-78-6	2-Hexanone	10. IU
127-18-4	Tetrachloroethene	5. IU
79-34-5	1,1,2,2-Tetrachloroethane	5. IU
108-88-3	Toluene	5. IU
108-90-7	Chlorobenzene	5. IU
100-41-4	Ethylbenzene	5. IU
100-42-5	Styrene	5. IU
133-02-7	Xylene (total)	5. IU

John J. Melloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965519

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1526

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
2.				
3.				
4.				
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John J. Malloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 RE

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965520 RE

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1541

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	4.	IJ
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-10 RE

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965520 RE

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1541

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	Unknown	14.18	6.	J
3.	Unknown Hydrocarbon	14.27	12.	J
4.	Unknown Hydrocarbon	14.48	6.	J
5.	Ethyl-methyl benzene isomer	15.33	14.	J
7.	Ethyl-methyl benzene isomer	16.00	9.	J
8.	Unknown	16.17	14.	J
11. 1120214	Undecane (8CI9CI)	16.83	18.	J
12.	Unknown	17.05	6.	J
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John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12 RE

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965521 RE

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1540

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	49.	I
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	3.	IJ
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	13.	I
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-12 RE

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965521 RE

Sample wt/vol: 5 (g/mL) ML

Lab File ID: P1540

Level: (low/med) LDW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541059	Cyclotrisiloxane, hexamethyl	10.15	40.	J
3.	Unknown	14.30	61.	J
5.	Unknown Hydrocarbon	15.11	5.	J
6.	Ethyl-methyl benzene isomer	15.35	12.	J
8.	Ethyl-methyl benzene isomer	16.01	7.	J
9.	Unknown	16.19	5.	J
12. 1120214	Undecane (8CI9CI)	16.85	19.	J
13.				
14.				
15.	* Suspected column bleed			
16.				
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John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLK RE

Lab Name: H2M LABS INC.

Contract:-----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965522

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1539

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec.-----

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

TRIP BLK RE

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965522 RE

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1539

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	D
3.	Unknown Hydrocarbon	14.26	10.	J
4.	Unknown Hydrocarbon	14.49	6.	J
5. 124185	Decane (8CI9CI)	15.07	12.	J
6.	Ethyl-methyl benzene isomer	15.32	12.	J
8.	Ethyl-methyl benzene isomer	15.99	7.	J
9.	Unknown	16.19	13.	J
12. 1120214	Undecane (8CI9CI)	16.83	17.	J
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.		*****	*****	
25.		*	*	
26.		*	*	
27.		*****	*****	
28.		John J. Molloy P.E.		
29.		Laboratory Director		
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-22

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965523

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1530

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10. IU
74-83-9	Bromomethane	10. IU
75-01-4	Vinyl Chloride	10. IU
75-00-3	Chloroethane	10. IU
75-09-2	Methylene Chloride	5. IU
67-64-1	Acetone	10. IU
75-15-0	Carbon Disulfide	5. IU
75-35-4	1,1-Dichloroethene	5. IU
75-34-3	1,1-Dichloroethane	5. IU
540-59-0	1,2-Dichloroethene (total)	5. IU
67-66-3	Chloroform	5. IU
107-06-2	1,2-Dichloroethane	5. IU
78-93-3	2-Butanone	10. IU
71-55-6	1,1,1-Trichloroethane	5. IU
56-23-5	Carbon Tetrachloride	5. IU
108-05-4	Vinyl Acetate	10. IU
75-27-4	Bromodichloromethane	5. IU
78-87-5	1,2-Dichloropropane	5. IU
10061-01-5	cis-1,3-Dichloropropene	5. IU
79-01-6	Trichloroethene	23. IU
124-48-1	Dibromochloromethane	5. IU
79-00-5	1,1,2-Trichloroethane	5. IU
71-43-2	Benzene	5. IU
10061-02-6	trans-1,3-Dichloropropene	5. IU
75-25-2	Bromoform	5. IU
108-10-1	4-Methyl-2-pentanone	10. IU
591-78-6	2-Hexanone	10. IU
127-18-4	Tetrachloroethene	5. IU
79-34-5	1,1,2,2-Tetrachloroethane	5. IU
108-88-3	Toluene	5. IU
108-90-7	Chlorobenzene	5. IU
100-41-4	Ethylbenzene	5. IU
100-42-5	Styrene	5. IU
133-02-7	Xylene (total)	5. IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: NOV 1 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-22

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965523

Sample Wt/Vol: 5 (g/mL) ML

Lab File ID: >P1530

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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* *John J. Molloy* *

John J. Molloy, P.E.

Laboratory Director

DATE REPORTED: NOV 1 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-4

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: LINK

SAS No.: -----

SDG No.: MW-6

Matrix: (soil/water) WATER

Lab Sample ID: 965524

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1533

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.

Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

FB-4

Lab Code: ----- Case No.: LINK_ SAS No.: _____ SDG No.: MW-6

Matrix: (solid/liquid) WATER

Lab Sample ID: 965524

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1533

Level: (low/med) LOW

Date Received: 9/07/89

% Moisture: not dec. -----

Date Analyzed: 9/11/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	No unknowns found			
2.				
3.				
4.				
5.				
6.				
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John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-17

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: WATER

Lab Sample ID: 965629

Sample vol: 1000 mL

Lab File ID: AGC0601/BGC0601

Level: LOW

Date Received: 09/08/89

% Moisture: not dec. _____ dec.

Date Extracted: 09/12/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 7.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

* *W. J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-23

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER

Lab Sample ID: 965630

Sample vol: 1000 mL

Lab File ID: AGC0602/BGC0602

Level: LOW

Date Received: 09/08/89

% Moisture: not dec. _____ dec.

Date Extracted: 09/12/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 7.4

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-1122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-24

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER
Sample vol: 1000 mL
Level: LOW
% Moisture: not dec. ____ dec.
Extraction: SEPF
GPC Cleanup: N pH: 7.3

Lab Sample ID: 965631
Lab File ID: AGC0603/BGC0603
Date Received: 09/08/89
Date Extracted: 09/12/89
Date Analyzed: 09/30/89
Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-25

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: WATER

Lab Sample ID: 965632

Sample vol: 1000 mL

Lab File ID: AGC0605/BGC0605

Level: LOW

Date Received: 09/08/89

% Moisture: not dec. _____ dec.

Date Extracted: 09/12/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 7.4

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-6

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER
Sample vol: 700 mL
Level: LOW
% Moisture: not dec. _____ dec.
Extraction: SEPF
GPC Cleanup: N pH: 8.0

Lab Sample ID: 965511
Lab File ID: AGC0584/BGC0584
Date Received: 09/07/89
Date Extracted: 09/10/89
Date Analyzed: 09/29/89
Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
319-84-6	alpha-BHC	0.07		U
319-85-7	beta-BHC	0.07		U
319-86-8	delta-BHC	0.07		U
58-39-9	gamma-BHC (Lindane)	0.07		U
76-44-8	Heptachlor	0.07		U
309-00-2	Aldrin	0.07		U
1024-57-3	Heptachlor epoxide	0.07		U
959-98-8	Endosulfan I	0.07		U
60-57-1	Dieldrin	0.14		U
72-55-9	4,4'-DDE	0.14		U
72-20-8	Endrin	0.14		U
33213-65-9	Endosulfan II	0.14		U
72-54-8	4,4'-DDD	0.14		U
1031-07-8	Endosulfan sulfate	0.14		U
50-29-3	4,4'-DDT	0.14		U
72-43-5	Methoxychlor	0.7		U
53494-70-5	Endrin ketone	0.14		U
5103-71-9	alpha-Chlordane	0.7		U
5103-74-2	gamma-Chlordane	0.7		U
8001-35-2	Toxaphene	1.4		U
12674-11-2	Aroclor-1016	0.7		U
11104-28-2	Aroclor-1221	0.7		U
11141-16-5	Aroclor-1232	0.7		U
53469-21-9	Aroclor-1242	0.7		U
12672-29-6	Aroclor-1248	0.7		U
11097-69-1	Aroclor-1254	1.4		U
11096-82-5	Aroclor-1260	1.4		U

Date Reported: 11/01/89

John J. Molloy

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-21

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: WATER

Lab Sample ID: 965512

Sample vol: 850 mL

Lab File ID: AGC0585/BGC0585

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec.

Date Extracted: 09/10/89

Extraction: SEPF

Date Analyzed: 09/29/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
319-84-6	alpha-BHC	0.06		U
319-85-7	beta-BHC	0.06		U
319-86-8	delta-BHC	0.06		U
58-89-9	gamma-BHC (Lindane)	0.06		U
76-44-8	Heptachlor	0.06		U
309-00-2	Aldrin	0.06		U
1024-57-3	Heptachlor epoxide	0.06		U
959-98-8	Endosulfan I	0.06		U
60-57-1	Dieldrin	0.12		U
72-55-9	4,4'-DDE	0.12		U
72-20-8	Endrin	0.12		U
33213-65-9	Endosulfan II	0.12		U
72-54-8	4,4'-DDD	0.12		U
1031-07-8	Endosulfan sulfate	0.12		U
50-29-3	4,4'-DDT	0.12		U
72-43-5	Methoxychlor	0.6		U
53494-70-5	Endrin ketone	0.12		U
5103-71-9	alpha-Chlordane	0.6		U
5103-74-2	gamma-Chlordane	0.6		U
8001-35-2	Toxaphene	1.2		U
12674-11-2	Aroclor-1016	0.6		U
11104-28-2	Aroclor-1221	0.6		U
11141-16-5	Aroclor-1232	0.6		U
53469-21-9	Aroclor-1242	0.6		U
12672-29-6	Aroclor-1248	0.6		U
11097-69-1	Aroclor-1254	1.2		U
11096-82-5	Aroclor-1260	1.2		U

Date Reported: 11/01/89

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John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-20

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER
Sample vol: 900 mL
Level: LOW
% Moisture: not dec. ____ dec.
Extraction: SEPF
GPC Cleanup: N pH: 8.0

Lab Sample ID: 965513
Lab File ID: AGC0608
Date Received: 09/07/89
Date Extracted: 09/10/89
Date Analyzed: 09/30/89
Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
319-84-6	alpha-BHC	0.06		U
319-85-7	beta-BHC	0.06		U
319-86-8	delta-BHC	0.06		U
58-89-9	gamma-BHC (Lindane)	0.06		U
76-44-8	Heptachlor	0.06		U
309-00-2	Aldrin	0.06		U
1024-57-3	Heptachlor epoxide	0.06		U
959-98-8	Endosulfan I	0.06		U
60-57-1	Dieldrin	0.12		U
72-55-9	4,4'-DDE	0.12		U
72-20-8	Endrin	0.12		U
33213-65-9	Endosulfan II	0.12		U
72-54-8	4,4'-DDD	0.12		U
1031-07-8	Endosulfan sulfate	0.12		U
50-29-3	4,4'-DDT	0.12		U
72-43-5	Methoxychlor	0.6		U
53494-70-5	Endrin ketone	0.12		U
5103-71-9	alpha-Chlordane	0.6		U
5103-74-2	gamma-Chlordane	0.6		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.6		U
11104-28-2	Aroclor-1221	0.6		U
11141-16-5	Aroclor-1232	0.6		U
53469-21-9	Aroclor-1242	0.6		U
12672-29-6	Aroclor-1248	0.6		U
11097-69-1	Aroclor-1254	1.2		U
11096-82-5	Aroclor-1260	1.2		U

Date Reported: 11/01/89

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-15

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER

Lab Sample ID: 965514

Sample vol: 950 mL

Lab File ID: AGC0609/BGC0609

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec.

Date Extracted: 09/10/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

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*

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-26

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER

Lab Sample ID: 965515

Sample vol: 750 mL

Lab File ID: AGC0611/BGC0611

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 09/10/89

Extraction: SEPE

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
319-84-6	alpha-BHC	0.07		U
319-85-7	beta-BHC	0.07		U
319-86-8	delta-BHC	0.07		U
58-89-9	gamma-BHC (Lindane)	0.07		U
76-44-8	Heptachlor	0.07		U
309-00-2	Aldrin	0.07		U
1024-57-3	Heptachlor epoxide	0.07		U
959-98-8	Endosulfan I	0.07		U
60-57-1	Dieldrin	0.14		U
72-55-9	4,4'-DDE	0.14		U
72-20-8	Endrin	0.14		U
33213-65-9	Endosulfan II	0.14		U
72-54-8	4,4'-DDD	0.14		U
1031-07-8	Endosulfan sulfate	0.14		U
50-29-3	4,4'-DDT	0.14		U
72-43-5	Methoxychlor	0.7		U
53494-70-5	Endrin ketone	0.14		U
5103-71-9	alpha-Chlordane	0.7		U
5103-74-2	gamma-Chlordane	0.7		U
8001-35-2	Toxaphene	1.4		U
12674-11-2	Aroclor-1016	0.7		U
11104-28-2	Aroclor-1221	0.7		U
11141-16-5	Aroclor-1232	0.7		U
53469-21-9	Aroclor-1242	0.7		U
12672-29-6	Aroclor-1248	0.7		U
11097-69-1	Aroclor-1254	1.4		U
11096-82-5	Aroclor-1260	1.4		U

Date Reported: 11/01/89

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FB-1

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER

Lab Sample ID: 965516

Sample vol: 1000 mL

Lab File ID: AGC0612/BGC0612

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 09/10/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 7.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: $\mu\text{g/L}$	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-16

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: WATER

Lab Sample ID: 965517

Sample vol: 1000 mL

Lab File ID: AGC0613/BGC0613

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. ____ dec.

Date Extracted: 09/11/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53462-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-13

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: WATER

Lab Sample ID: 965518

Sample vol: 1000 mL

Lab File ID: AGC0593/BGC0593

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec.

Date Extracted: 09/11/89

Extraction: SEPF

Date Analyzed: 09/29/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-10

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: WATER

Lab Sample ID: 965520

Sample vol: 1000 mL

Lab File ID: AGC0594

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 09/11/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	g
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-12

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER

Lab Sample ID: 965521

Sample vol: 1000 mL

Lab File ID: AGC0595/BGC0595

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 09/11/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-22

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: WATER

Lab Sample ID: 965523

Sample vol: 1000 mL

Lab File ID: AGC0596/BGC0596

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. ____ dec.

Date Extracted: 09/11/89

Extraction: SEPE

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 8.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

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Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FB-4

Lab Name: H2M LABS, INC. Contract: _____

Matrix: WATER

Lab Sample ID: 965524

Sample vol: 1000 mL

Lab File ID: AGC0597/BGC0597

Level: LOW

Date Received: 09/07/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 09/11/89

Extraction: SEPF

Date Analyzed: 09/30/89

GPC Cleanup: N pH: 7.0

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 11/01/89

* *W. J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FLDBK1

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965500

Level (low/med): LW1

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	269			P
7440-36-0	Antimony	26.0	U/N		F
7440-38-2	Arsenic	3.0	U		F
7440-39-3	Barium	29.2	P		P
7440-41-7	Beryllium	2.0	U/N		F
7440-43-9	Cadmium	3.0	U/N*		P
7440-70-2	Calcium	10.0	U		A
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	13.0	U/N		P
7440-50-8	Copper	11.0	U		P
7439-29-6	Iron	514			P
7439-92-1	Lead	100	U/N		A
7439-95-4	Magnesium	200	U		A
7439-96-5	Manganese	12.0	B		P
7439-97-6	Mercury	0.20	U* N		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	445	U/N*		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	352	B x		P
7440-28-0	Thallium	3.0	U		F
7440-62-2	Vanadium	17.0	U/N		P
7440-66-6	Zinc	5.0	U		P
	Cyanide	10.0	U		C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

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*
*

John J. Maloney
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FLDBK4

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

EDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965536

Level (low/med): LW2

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4170	*		P
7440-36-0	Antimony	26.0	U/N		P
7440-38-2	Arsenic	6.4	B		F
7440-39-2	Barium	91.1	B/N*		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	3.0	U/N*		P
7440-70-2	Calcium	1100	B		A
7440-47-3	Chromium	15.7	*		P
7440-48-4	Cobalt	13.0	U*		P
7440-50-9	Copper	20.8	B*		P
7439-89-6	Iron	9310	*		P
7439-92-1	Lead	100	U		A
7439-95-4	Magnesium	2400	B		A
7439-96-5	Manganese	247	*		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	21.0	U*		P
7440-09-7	Potassium	445	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	306	B*		P
7440-28-0	Thallium	3.0	U/N		F
7440-62-2	Vanadium	17.0	U*		P
7440-66-6	Zinc	64.9	*		P
	Cyanide	10.0	U* N		C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Notes:

DATE REPORTED: NOVEMBER 2, 1989

*
*

John J. Malloy, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FLDBK4

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

EDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965536

Level (low/med): LW2

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4170	*		P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	6.4	B		F
7440-39-3	Barium	91.1	B	N*	P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	3.0	U	N*	P
7440-70-2	Calcium	1100	B		A
7440-47-3	Chromium	15.7	*		P
7440-48-4	Cobalt	13.0	U	*	P
7440-50-8	Copper	20.8	B	*	P
7439-89-6	Iron	9310	*		P
7439-92-1	Lead	100	U		A
7439-95-4	Magnesium	2400	B		A
7439-96-5	Manganese	247	*		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	21.0	U	*	P
7440-09-7	Potassium	445	U		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	306	B	*	P
7440-28-0	Thallium	3.0	U	N	F
7440-62-2	Vanadium	17.0	U	*	P
7440-66-6	Zinc	64.9	*		P
	Cyanide	10.0	U	* N	C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

REMARKS:

DATE REPORTED: NOVEMBER 2, 1989

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*

John J. Malloy, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XXMW10

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965533

Level (low/med): LW2

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	G	M
7429-90-8	Aluminum	225000	*		P
7440-36-0	Antimony	47.2	BIN		P
7440-38-2	Arsenic	30.0	U		F
7440-39-3	Barium	2310	IN*		P
7440-41-7	Beryllium	15.3			P
7440-43-9	Cadmium	5950	IN*		P
7440-70-2	Calcium	291000			A
7440-47-3	Chromium	14900	*		P
7440-48-4	Cobalt	193	*		P
7440-50-8	Copper	13300	*		P
7439-89-6	Iron	495000	*		P
7439-92-1	Lead	920			A
7439-95-4	Magnesium	159000			A
7439-96-5	Manganese	48600	*		P
7439-97-6	Mercury	1.0			CV
7440-02-0	Nickel	1420	*		P
7440-09-7	Potassium	22300			P
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	50.0			A
7440-23-5	Sodium	21600	*		P
7440-29-0	Thallium	30.0	U/N		F
7440-62-2	Vanadium	367	*		P
7440-66-6	Zinc	3330	*		P
	Cyanide	48.0	U * N		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

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John J. Moilny, P.E.
Laboratory Director

9

H2M LABS, INC.

L.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XXMW12

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965534

Level (low/med): LW2

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	135000	*		P
7440-38-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	80.5			F
7440-39-3	Barium	1130		N*	P
7440-41-7	Beryllium	8.3			P
7440-43-9	Cadmium	88.8		N*	P
7440-70-2	Calcium	83900			A
7440-47-3	Chromium	519	*		P
7440-48-4	Cobalt	101	*		P
7440-50-8	Copper	1200	*		P
7439-89-6	Iron	297000	*		P
7439-92-1	Lead	360			A
7439-95-4	Magnesium	43000			A
7439-96-5	Manganese	12800	*		P
7439-97-6	Mercury	3.0			CV
7440-02-0	Nickel	422	*		P
7440-09-7	Potassium	14200			P
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	120			A
7440-23-5	Sodium	45200	*		P
7440-28-0	Thallium	3.0	U	W N	F
7440-52-2	Vanadium	192	*		P
7440-66-6	Zinc	1140	*		P
	Cyanide	10.0	U	* N	C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

* *Joan* *

John J. Moiloy, P.E.
Laboratory Director

10

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XXMW13

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965532

Level (low/med): LW2

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	D	Q	M
7429-90-5	Aluminum	313000	*		P
7440-36-0	Antimony	51.7	BIN		P
7440-38-2	Arsenic	30.0	U		F
7440-39-3	Barium	2320	IN*		P
7440-41-7	Beryllium	18.5			P
7440-43-9	Cadmium	3670	IN*		P
7440-70-2	Calcium	90400			A
7440-47-3	Chromium	2950	*		P
7440-48-4	Cobalt	237	*		P
7440-50-8	Copper	2330	*		P
7439-89-6	Iron	657000	*		P
7439-92-1	Lead	720			A
7439-95-4	Magnesium	84500			A
7439-96-5	Manganese	72500	*		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	1930	*		P
7440-09-7	Potassium	27100			P
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	40.0			A
7440-23-5	Sodium	41600	*		P
7440-28-0	Thallium	3.0	U W N		F
7440-62-2	Vanadium	419	*		P
7440-66-6	Zinc	3500	*		P
	Cyanide	23.0	* N		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

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John J. Molloy, P.E.
Laboratory Director

11

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XXMW15

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDE No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965528

Level (low/med): LW1

Date Received: 89/09/07

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	D	M
7429-90-5	Aluminum	46600			P
7440-38-0	Antimony	25.0	U: N		P
7440-38-2	Arsenic	23.0			F
7440-39-3	Barium	370			P
7440-41-7	Beryllium	4.6	B: N		P
7440-43-9	Calcium	3.0	U: N*		P
7440-70-2	Calcium	199000			A
7440-47-3	Chromium	205			P
7440-48-4	Cobalt	50.6	N		P
7440-50-8	Copper	149			P
7439-99-6	Iron	115000			P
7439-92-1	Lead	140	N		A
7439-95-4	Magnesium	54400			A
7439-96-5	Manganese	3790			P
7439-97-6	Mercury	0.2	U: * N		CV
7440-02-0	Nickel	124			P
7440-09-7	Potassium	6520	N*		P
7782-49-2	Selenium	1.0	U: W		F
7440-22-4	Silver	10.0	U:		A
7440-23-5	Sodium	47200	*		P
7440-28-0	Thallium	3.0	U: W		F
7440-62-2	Vanadium	74.6	N		P
7440-86-5	Zinc	365			P
	Cyanide	10.0	U:		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

* *John J. Moiloy* *

John J. Moiloy, P.E.
Laboratory Director

12

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XXMW16

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965531

Level (low/med): LW2

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	204000	*		P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	30.0	U		F
7440-39-3	Barium	1310		N*	P
7440-41-7	Beryllium	18.9			P
7440-43-9	Cadmium	132		N*	P
7440-70-2	Calcium	80100			A
7440-47-3	Chromium	508	*		P
7440-48-4	Cobalt	182	*		P
7440-50-8	Copper	861	*		P
7439-89-6	Iron	435000	*		P
7439-92-1	Lead	490			A
7439-95-4	Magnesium	286000			A
7439-96-5	Manganese	13600	*		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	861	*		P
7440-09-7	Potassium	17700			F
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	55500	*		P
7440-28-0	Thallium	30.0	U	N	F
7440-62-2	Vanadium	307	*		P
7440-66-6	Zinc	2010	*		P
	Cyanide	10.0	U	* N	C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

IMENTS:

DATE REPORTED: NOVEMBER 2, 1989

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John J. Molloy, P.E.
Laboratory Director

13

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW20

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965527

Level (low/med): LW1

Date Received: 09/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): US/L

CAS No.	Analyte	Concentration	C	B	M
7429-90-5	Aluminum	245000			P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	30.0	U		F
7440-39-3	Barium	1620			P
7440-41-7	Beryllium	23.6		N	P
7440-43-9	Cadmium	11.6		N*	P
7440-70-2	Calcium	1,170,000			A
7440-47-3	Chromium	432			P
7440-48-4	Cobalt	250		N	P
7440-50-8	Copper	598			P
7439-89-6	Iron	553000			P
7439-92-1	Lead	690		N	A
7439-95-4	Magnesium	330000			A
7439-96-5	Manganese	13900			P
7439-97-6	Mercury	0.49		* N	CV
7440-02-0	Nickel	567			P
7440-09-7	Potassium	16500		N*	P
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	60700		*	P
7440-25-0	Thallium	30.0	U		F
7440-62-2	Vanadium	370		N	P
7440-66-6	Zinc	1620			P
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1999

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John J. Molloy, PE
Laboratory Director

14

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XXMW21

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 945526

Level (low/med): LW1

Date Received: 29/09/07

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	708000	*		A
7440-38-0	Antimony	83.8	N		P
7440-38-2	Arsenic	30.0	U		F
7440-39-3	Barium	2750			P
7440-41-7	Beryllium	46.2	N		P
7440-43-9	Cadmium	68.3	Nx		P
7440-70-2	Calcium	1,840,000			A
7440-47-3	Chromium	1090			P
7440-48-4	Cobalt	646	N		P
7440-50-8	Copper	1460			P
7439-89-6	Iron	1,770,000	*		A
7439-92-1	Lead	1110	N		A
7439-95-4	Magnesium	714000			A
7439-96-5	Manganese	28900			P
7439-97-6	Mercury	0.54	* N		CV
7440-02-0	Nickel	1620			P
7440-09-7	Potassium	27600	Nx		P
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	50600	*		P
7440-28-0	Thallium	30.0	U		F
7440-62-2	Vanadium	901	N		P
7440-66-2	Zinc	4420			P
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

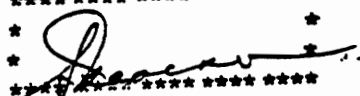
Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

*  *

John J. Molloy, P.E.
Laboratory Director

15

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INCORGANIC ANALYSIS DATA SHEET

XXMW26

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965529

Level (low/med): LW1

Date Received: 89/09/07

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	617000			A
7440-36-0	Antimony	63.7	N		P
7440-38-2	Arsenic	56.0			F
7440-39-3	Barium	3660			P
7440-41-7	Beryllium	25.6	N		P
7440-43-9	Cadmium	18.5	Nx		P
7440-70-2	Calcium	76400			A
7440-47-3	Chromium	843			P
7440-48-4	Cobalt	514	N		P
7440-50-8	Copper	1110			P
7439-89-6	Iron	1210000			P
7439-92-1	Lead	1080	N		A
7439-95-4	Magnesium	171000			A
7439-96-5	Manganese	31800			P
7439-97-6	Mercury	1.0	* N		CV
7440-02-0	Nickel	2160			P
7440-09-7	Potassium	36600	Nx		P
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	10500	*		P
7440-29-0	Thallium	30.0	U		F
7440-62-2	Vanadium	692	N		P
7440-66-6	Zinc	2950			P
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

*
*

John J. Molloy, P.E.
Laboratory Director

16

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XXMW22

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965535

Level (low/med): LW2

Date Received: 89/09/07

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	278000	*		F
7440-36-0	Antimony	35.1	BIN		P
7440-38-2	Arsenic	30.0	II		F
7440-39-3	Barium	2120	IN*		P
7440-41-7	Beryllium	23.2			P
7440-43-9	Cadmium	19.9	IN*		F
7440-70-2	Calcium	817000			A
7440-47-3	Chromium	567	*		P
7440-48-4	Cobalt	444	*		P
7440-50-8	Copper	1170	*		P
7439-89-6	Iron	719000	*		P
7439-92-1	Lead	760			A
7439-95-4	Magnesium	227000			A
7439-96-5	Manganese	40800	*		P
7439-97-6	Mercury	2.2			CV
7440-02-0	Nickel	849	*		P
7440-09-7	Potassium	19500			P
7782-49-2	Selenium	10.0	U		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	100000	*		P
7440-26-0	Thallium	3.0	U W N		F
7440-62-2	Vanadium	432	*		P
7440-66-6	Zinc	2580	*		P
	Cyanide	10.0	U * N		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

17

H2M LABS, INC.

U.S. EPA - CLP

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(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XXXXMW6

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK04

Matrix (soil/water): WATER

Lab Sample ID: 965525

Level (low/med.): LW2

Date Received: 89/09/07

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

SAS No.	Analyte	Concentration	C	Q	M
7429-90-3	Aluminum	382000	*		P
7440-38-0	Antimony	50.7	BIN		F
7440-38-2	Arsenic	3.0	U		F
7440-39-3	Barium	4190	IN*		P
7440-41-7	Beryllium	101			P
7440-43-9	Cadmium	24.6	IN*		F
7440-70-2	Calcium	7,030,000			A
7440-47-3	Chromium	1240	*		P
7440-48-4	Cobalt	483	*		F
7440-50-9	Copper	1320	*		P
7439-89-6	Iron	650000			A
7439-92-1	Lead	1170			A
7439-95-4	Magnesium	1,830,000			A
7439-95-5	Manganese	39900	*		P
7439-97-6	Mercury	0.2	U		CV
7440-02-0	Nickel	1020	*		P
7440-09-7	Potassium	11600			P
7782-49-2	Selenium	1.0	U W		F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	139000	*		P
7440-28-0	Thallium	30.0	U N		F
7440-62-2	Vanadium	156	*		P
7440-65-9	Zinc	2820	*		P
	Cyanide	10.0	U * N		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 2, 1989

* *Dever* *

John J. McInoy, P.E.
Laboratory Director

18

H2M LABS, INC.

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XXMW17

Name: H2M LABS, INC.

Contract: SINGERLINK

Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK05

Matrix (soil/water): WATER

Lab Sample ID: 955634

Level (low/med): LOW

Date Received: 89/09/08

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	D	Q	M
7429-90-5	Aluminum	6460			F
7440-36-0	Antimony	26.0	U		F
7440-38-2	Arsenic	6.8	B		F
7440-39-3	Barium	96.1	B		F
7440-41-7	Beryllium	2.0	B		F
7440-43-9	Cadmium	5.3			F
7440-70-2	Calcium	102000			P
7440-47-3	Chromium	263			P
7440-48-4	Cobalt	13.0	U		P
7440-50-8	Copper	27.3			P
7439-89-6	Iron	13900			P
7439-92-1	Lead	11.6			F
7439-95-4	Magnesium	22300			P
7439-96-5	Manganese	489			F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	28.0	B		F
7440-09-7	Potassium	4460	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	10.0			A
7440-23-5	Sodium	76500			P
7440-28-0	Thallium	3.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	51.1			P
	Cyanide	10.0			C

Color Before: BROWN

Clarity Before: OPAQUE

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 4, 1989

*
*

John J. Molloy, P.E.
Laboratory Director

U.S. EPA - OLC

EPA SAMPLE NO.

XXMW23

Contract: SINGERLINK

Case No. :

SAE No. :

SDG No.: LINK05

Lab Sample ID: 965635

Date Received: 57/07/08

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

After: YELLOW

Clarity After: CLEAR

Artifacts:

DECEMBER

DATE REPORTED: NOVEMBER 4, 1989

[Signature]

John J. McElroy, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XXMW24

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK05

Matrix (soil/water): WATER

Lab Sample ID: 965636

Level (low/med): LOW

Date Received: 89/09/08

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	249000			P
7440-36-0	Antimony	26.0	U		P
7440-38-2	Arsenic	15.0	U		F
7440-39-3	Barium	1800			P
7440-41-7	Beryllium	27.6			P
7440-43-9	Cadmium	59.7			P
7440-70-2	Calcium	1470000			A
7440-47-3	Chromium	647			P
7440-48-4	Cobalt	251			P
7440-50-8	Copper	839			P
7439-89-6	Iron	650000			A
7439-92-1	Lead	760			A
7439-95-4	Magnesium	476000			P
7439-96-5	Manganese	20300			F
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	618			P
7440-09-7	Potassium	19100			P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	39400			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	400			P
7440-66-6	Zinc	1880			P
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: NOVEMBER 4, 1989

*
*
*

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XXHW25

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK05

Matrix (soil/water): WATER

Lab Sample ID: 965637

Level (low/med): LOW

Date Received: 89/09/08

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	G	M
7429-90-5	Aluminum	106000			P
7440-36-0	Antimony	26.0	U		P
7440-38-2	Arsenic	15.0	U		F
7440-39-3	Barium	789			P
7440-41-7	Beryllium	7.7			P
7440-43-9	Cadmium	26.9			F
7440-70-2	Calcium	253000			P
7440-47-3	Chromium	537			P
7440-48-4	Cobalt	105			P
7440-50-8	Copper	224			P
7439-89-6	Iron	228000			P
7439-92-1	Lead	190			A
7439-95-4	Magnesium	95700			P
7439-96-5	Manganese	7020			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	291			P
7440-09-7	Potassium	9420			P
7782-49-2	Selenium	10.0	U	W	F
7440-22-4	Silver	10.0	U		A
7440-23-5	Sodium	75100			P
7440-28-0	Thallium	3.0	U		F
7440-62-2	Vanadium	129			P
7440-66-6	Zinc	697			P
	Cyanide	24.0			C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

REMARKS:

DATE REPORTED: NOVEMBER 4, 1989

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

10

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-22

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967767

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1673

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	31.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John I. Mollon, P.E.

DATE REPORTED: OCT 30 1989

Laboratory Director

30

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-22

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967767

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1673

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
3.				
4.				
5.				
6.				
7.				
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29.				
30.				

DATE REPORTED: OCT 30 1989

John J. Mellov, P.E.
Laboratory Director

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-21

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967768

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1676

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	29.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	45.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

John J. Molloy, P.E.

Laboratory Director

DATE REPORTED: OCT 30 1989

H2M LABS, INC.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-21

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967768

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1676

Level: (low/med) LDW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2. 76131	Ethane, 1,1,2-trichloro-1,2,	3.99	8.	J
3.				
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28.				
29.				
30.				

DATE REPORTED: OCT 20 1989

John J. Molloy, P.E.
Laboratory Director

33

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-26

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967769

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1677

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

CAS NO.

COMPOUND

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.

Laboratory Director

DATE REPORTED: OCT 30 1989

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-26

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967769

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1677

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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* *John J. Mullen* *

John J. Mullen, Ph.D.

Laboratory Director

DATE REPORTED: OCT 30 1989

35

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-20

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967770

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1678

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IJ
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	56.	I
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.

DATE REPORTED: OCT 30 1989

Laboratory Director

36

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-20

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967770

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1678

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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30.				

DATE REPORTED: OCT 30 1989

John J. Molloy, P.E.
Laboratory Director

37

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967771

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1679

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	4.	IJ
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	17.	I
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.

DATE REPORTED: OCT 30 1989

Laboratory Director

C-109

1/82 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-24

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967771

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1679

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	Unknown *	16.80	16.	J
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4.	* Suspected column bleed			
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30.				

DATE REPORTED: OCT 30 1989

John J. Molloy, P.E.
Laboratory Director

39

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-25

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967772

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1682

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	8.	I
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	49.	I
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Mollot, P.E.

DATE REPORTED: OCT 30 1989

Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-25

Lab Code: ----- Case No.: _____

SAS No.: _____

SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967772

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1682

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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4.				
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30.				
DATE REPORTED: OCT 30 1989		John J. Mollen, P.E. Laboratory Director		41

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967773

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1683

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	28.	
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

DATE REPORTED: OCT 30 1989

John J. Molloy, P.E.
Laboratory Director

FORM C-113

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-23

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967773

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1683

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
3.				
4.				
5.				
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29.				
30.				

DATE REPORTED: OCT 30 1989

43

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-2 RE

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967774 RE

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1696

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	3.	IJ
67-64-1	Acetone	47.	B
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

DATE REPORTED: OCT 10 1989

John J. Molloy, P.E.
Laboratory Director

44

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-2 RE

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967774 RE

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1696

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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* *Amidant* *

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

45

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967775

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1685

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10. IU
74-83-9	Bromomethane	10. IU
75-01-4	Vinyl Chloride	10. IU
75-00-3	Chloroethane	10. IU
75-09-2	Methylene Chloride	5. IU
67-64-1	Acetone	74. IU
75-15-0	Carbon Disulfide	5. IU
75-35-4	1,1-Dichloroethene	5. IU
75-34-3	1,1-Dichloroethane	5. IU
540-59-0	1,2-Dichloroethene (total)	5. IU
67-66-3	Chloroform	5. IU
107-06-2	1,2-Dichloroethane	5. IU
78-93-3	2-Butanone	10. IU
71-55-6	1,1,1-Trichloroethane	5. IU
56-23-5	Carbon Tetrachloride	5. IU
108-05-4	Vinyl Acetate	10. IU
75-27-4	Bromodichloromethane	5. IU
78-87-5	1,2-Dichloropropane	5. IU
10061-01-5	cis-1,3-Dichloropropene	5. IU
79-01-6	Trichloroethene	5. IU
124-48-1	Dibromochloromethane	5. IU
79-00-5	1,1,2-Trichloroethane	5. IU
71-43-2	Benzene	5. IU
10061-02-6	trans-1,3-Dichloropropene	5. IU
75-25-2	Bromoform	5. IU
108-10-1	4-Methyl-2-pentanone	10. IU
591-78-6	2-Hexanone	10. IU
127-18-4	Tetrachloroethene	5. IU
79-34-5	1,1,2,2-Tetrachloroethane	5. IU
108-88-3	Toluene	5. IU
108-90-7	Chlorobenzene	5. IU
100-41-4	Ethylbenzene	5. IU
100-42-5	Styrene	5. IU
133-02-7	Xylene (total)	5. IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

FORM C-117

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967775

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1685

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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John J. Molloy, P.E.

Laboratory Director

DATE REPORTED: OCT 30 1989

47

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-10

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967776

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1686

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	7.5	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

DATE REPORTED: OCT 30 1989

John J. Molloy, P.E.

Laboratory Director

48

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-10

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967776

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1686

Level: (low/med) LDW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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John J. Molloy, P.E.

Laboratory Director

49

DATE REPORTED: OCT 20 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-12

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967777

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1687

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	2.5	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	12.5	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	*****	IU
108-90-7	Chlorobenzene	*	IU
100-41-4	Ethylbenzene	*	IU
100-42-5	Styrene	*****	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.

Laboratory Director

DATE REPORTED: OCT 30 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967777

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1687

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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*

John J. Molloy, P.E.

Laboratory Director

51

DATE REPORTED: OCT 30 1989

FORM I C-122

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967778

Sample wt/Vol: 5 (g/mL) ML

Lab File ID: >P1688

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	25.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	40.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

* *John J. Molloy* *

John J. Molloy, P.E.

Laboratory Director

DATE REPORTED: OCT 30 1989

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-13

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967778

Sample wt/Vol: 5 (g/mL) ML

Lab File ID: >P1688

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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DATE REPORTED: OCT 30 1989

53

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-3

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967779

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1689

Level: (low/med) LDW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10. IU
74-83-9	Bromomethane	10. IU
75-01-4	Vinyl Chloride	10. IU
75-00-3	Chloroethane	10. IU
75-09-2	Methylene Chloride	5. IU
67-64-1	Acetone	99. IU
75-15-0	Carbon Disulfide	5. IU
75-35-4	1,1-Dichloroethene	5. IU
75-34-3	1,1-Dichloroethane	5. IU
540-59-0	1,2-Dichloroethene (total)	5. IU
67-66-3	Chloroform	5. IU
107-06-2	1,2-Dichloroethane	5. IU
78-93-3	2-Butanone	10. IU
71-55-6	1,1,1-Trichloroethane	5. IU
56-23-5	Carbon Tetrachloride	5. IU
108-05-4	Vinyl Acetate	10. IU
75-27-4	Bromodichloromethane	5. IU
78-87-5	1,2-Dichloropropane	5. IU
10061-01-5	cis-1,3-Dichloropropene	5. IU
79-01-6	Trichloroethene	5. IU
124-48-1	Dibromochloromethane	5. IU
79-00-5	1,1,2-Trichloroethane	5. IU
71-43-2	Benzene	5. IU
10061-02-6	trans-1,3-Dichloropropene	5. IU
75-25-2	Bromoform	5. IU
108-10-1	4-Methyl-2-pentanone	10. IU
591-78-6	2-Hexanone	10. IU
127-18-4	Tetrachloroethene	5. IU
79-34-5	1,1,2,2-Tetrachloroethane	5. IU
108-88-3	Toluene	5. IU
108-90-7	Chlorobenzene	5. IU
100-41-4	Ethylbenzene	5. IU
100-42-5	Styrene	5. IU
133-02-7	Xylene (total)	5. IU

DATE REPORTED: OCT 30 1989

John J. Molloy, P.E.
Laboratory Director

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

FB-3

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967779

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1689

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/06/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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DATE REPORTED: OCT 30 1989

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

55

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-6

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967780

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1697

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	2.	IJ
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	9.	I
75-34-3	1,1-Dichloroethane	12.	I
540-59-0	1,2-Dichloroethene (total)	44.	I
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	10.	I
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	590.	I D
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

FORM I C-127

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-6

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967780

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1697

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

57

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-6 DL

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967780 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1719

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/10/89

Column: (pack/cap) CAP

Dilution Factor: 0.20000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	50. IU
74-83-9	Bromomethane	50. IU
75-01-4	Vinyl Chloride	50. IU
75-00-3	Chloroethane	50. IU
75-09-2	Methylene Chloride	25. IU D
67-64-1	Acetone	50. IU
75-15-0	Carbon Disulfide	25. IU
75-35-4	1,1-Dichloroethene	25. IU D
75-34-3	1,1-Dichloroethane	13. IU
540-59-0	1,2-Dichloroethene (total)	52. IU
67-66-3	Chloroform	25. IU
107-06-2	1,2-Dichloroethane	25. IU
78-93-3	2-Butanone	50. IU
71-55-6	1,1,1-Trichloroethane	10. IU
56-23-5	Carbon Tetrachloride	25. IU
108-05-4	Vinyl Acetate	50. IU
75-27-4	Bromodichloromethane	25. IU
78-87-5	1,2-Dichloropropane	25. IU
10061-01-5	cis-1,3-Dichloropropene	25. IU
79-01-6	Trichloroethene	700. IU
124-48-1	Dibromochloromethane	25. IU
79-00-5	1,1,2-Trichloroethane	25. IU
71-43-2	Benzene	25. IU
10061-02-6	trans-1,3-Dichloropropene	25. IU
75-25-2	Bromoform	25. IU
108-10-1	4-Methyl-2-pentanone	50. IU
591-78-6	2-Hexanone	50. IU
127-18-4	Tetrachloroethene	25. IU
79-34-5	1,1,2,2-Tetrachloroethane	25. IU
108-88-3	Toluene	25. IU
108-90-7	Chlorobenzene	25. IU
100-41-4	Ethylbenzene	25. IU
100-42-5	Styrene	25. IU
133-02-7	Xylene (total)	25. IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

FORM I C-129

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-6 DL

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967780 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1697

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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John J. Molloy

John J. Molloy, P.E.
Laboratory Director

59

DATE REPORTED: OCT 30 1989

C-130

FORM I

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967781

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1698

Level: (low/med) LDW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	8.	I
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	46.	I
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.

DATE REPORTED: OCT 30 1989

Laboratory Director

60

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-15

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967781

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1698

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	No unknowns found			
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John J. Molloy

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

51

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-17

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967782

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1699

Level: (low/med) LDW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	4.	IJ
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	9.	I
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	52.	I
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Melloy, P.E.

Laboratory Director

DATE REPORTED: OCT 30 1989

FORM C-133

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-17

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967782

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1699

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 7

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2. 107517	Trisiloxane, octamethyl- (8C)	* 11.48	26.	J
3.	Unknown	* 14.15	370.	J
4.	Unknown	* 14.41	230.	J
5.	Unknown	* 15.36	69.	J
6.	Unknown	* 16.77	380.	J
7.	Unknown	* 16.97	350.	J
8.	Unknown	* 17.94	25.	J
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10.	* Suspected column bleed			
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* *John J. Melloy* *

John J. Melloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

53

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

MW-16

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967783

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1700

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

		CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/L	Q
CAS NO.	COMPOUND		
74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	2.	IJ
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	7.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	42.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

FORM I C-135

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-16

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967783

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1700

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	Unknown	* 14.19	53.	J
3.	Unknown	* 16.80	85.	J
4.	Unknown	* 17.18	23.	J
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10.	* Suspected column bleed			
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John J. Molloy, P.E.
Laboratory Director

55

DATE REPORTED: OCT 30 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

TRIP BLANK

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967784

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1701

Level: (low/med) LOW

Date Received: 10/6/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	3.	IJ
67-64-1-----	Acetone	84.	B
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	22.	I
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.

DATE REPORTED: OCT 30 1989

Laboratory Director

56

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-22

Matrix: (soil/water) WATER

Lab Sample ID: 967784

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1701

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. -----

Date Analyzed: 10/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	Unknown	* 16.79	7.	J
3.				
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9.				
10.	* Suspected column bleed			
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John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: OCT 30 1989

57

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-22

Lab Name: H2M LABS.INC. Contract: _____
Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6
Matrix: (soil/water) WATER Lab Sample ID: 967767
Sample wt/vol: 900.0 (g/mL) ML Lab File ID: _____
Level: (low/med) LOW Date Received: 10/06/89
% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89
Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/24/89
GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

319-84-6-----	alpha-BHC	0.056	U
319-85-7-----	beta-BHC	0.056	U
319-86-8-----	delta-BHC	0.056	U
58-89-9-----	Lindane	0.056	U
76-44-8-----	Heptachlor	0.056	U
309-00-2-----	Aldrin	0.056	U
1024-57-3-----	Heptachlor epoxide	0.056	U
959-98-8-----	Endosulfan I	0.056	U
60-57-1-----	Dieldrin	0.11	U
72-55-9-----	4,4'-DDE	0.11	U
72-20-8-----	Endrin	0.11	U
33213-65-9-----	Endosulfan II	0.11	U
72-54-8-----	4,4'-DDD	0.11	U
1031-07-8-----	Endosulfan sulfate	0.11	U
50-29-3-----	4,4'-DDT	0.11	U
72-43-5-----	Methoxychlor	0.56	U
53494-70-5-----	Endrin ketone	0.11	U
5103-71-9-----	alpha-Chlordane	0.56	U
5103-74-2-----	beta-Chlordane	0.56	U
8001-35-2-----	Toxaphene	1.1	U
12674-11-2-----	Aroclor-1016	0.56	U
11104-28-2-----	Aroclor-1221	0.56	U
11141-16-5-----	Aroclor-1232	0.56	U
53469-21-9-----	Aroclor-1242	0.56	U
12672-29-6-----	Aroclor-1248	0.56	U
11097-69-1-----	Aroclor-1254	1.1	U
11096-82-5-----	Aroclor-1260	1.1	U

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Left O'Neil

11/1/89

* *W. J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

11

i-U-iU-UiaPaPaP
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1D

MW-21

Lab Name: H2M LABS.INC.

Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6Matrix: (soil/water) WATERLab Sample ID: 967768Sample wt/vol: 900.0 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOWDate Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/09/89Extraction: (SepF/Cont/Sonc) SEPFDate Analyzed: 10/24/89GPC Cleanup: (Y/N) N pH: 8.0Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

319-84-6-----alpha-BHC	0.056	U
319-85-7-----beta-BHC	0.056	U
319-86-8-----delta-BHC	0.056	U
58-89-9-----Lindane	0.056	U
76-44-8-----Heptachlor	0.056	U
309-00-2-----Aldrin	0.056	U
1024-57-3-----Heptachlor epoxide	0.056	U
959-98-8-----Endosulfan I	0.056	U
60-57-1-----Dieldrin	0.11	U
72-55-9-----4,4'-DDE	0.11	U
72-20-8-----Endrin	0.11	U
33213-65-9-----Endosulfan II	0.11	U
72-54-8-----4,4'-DDD	0.11	U
1031-07-8-----Endosulfan sulfate	0.11	U
50-29-3-----4,4'-DDT	0.11	U
72-43-5-----Methoxychlor	0.56	U
53494-70-5-----Endrin ketone	0.11	U
5103-71-9-----alpha-Chlordane	0.56	U
5103-74-2-----beta-Chlordane	0.56	U
8001-35-2-----Toxaphene	1.1	U
12674-11-2-----Aroclor-1016	0.56	U
11104-28-2-----Aroclor-1221	0.56	U
11141-16-5-----Aroclor-1232	0.56	U
53469-21-9-----Aroclor-1242	0.56	U
12672-29-6-----Aroclor-1248	0.56	U
11097-69-1-----Aroclor-1254	1.1	U
11096-82-5-----Aroclor-1260	1.1	U

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* *John J. Molloy* *

12

John J. Molloy, P.E.
Laboratory Director

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-26

Lab Name: H2M LABS.INC. Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER Lab Sample ID: 967769

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

319-84-6-----alpha-BHC	0.056	U
319-85-7-----beta-BHC	0.056	U
319-86-8-----delta-BHC	0.056	U
58-89-9-----Lindane	0.056	U
76-44-8-----Heptachlor	0.056	U
309-00-2-----Aldrin	0.056	U
1024-57-3-----Heptachlor epoxide	0.056	U
959-98-8-----Endosulfan I	0.056	U
60-57-1-----Dieldrin	0.11	U
72-55-9-----4,4'-DDE	0.11	U
72-20-8-----Endrin	0.11	U
33213-65-9-----Endosulfan II	0.11	U
72-54-8-----4,4'-DDD	0.11	U
1031-07-8-----Endosulfan sulfate	0.11	U
50-29-3-----4,4'-DDT	0.11	U
72-43-5-----Methoxychlor	0.56	U
53494-70-5-----Endrin ketone	0.11	U
5103-71-9-----alpha-Chlordane	0.56	U
5103-74-2-----beta-Chlordane	0.56	U
8001-35-2-----Toxaphene	1.1	U
12674-11-2-----Aroclor-1016	0.56	U
11104-28-2-----Aroclor-1221	0.56	U
11141-16-5-----Aroclor-1232	0.56	U
53469-21-9-----Aroclor-1242	0.56	U
12672-29-6-----Aroclor-1248	0.56	U
11097-69-1-----Aroclor-1254	1.1	U
11096-82-5-----Aroclor-1260	1.1	U

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Scott O'Beille
11/17/89

John J. Mollo

John J. Mollo, P.E.
Laboratory Director

13

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: H2M LABS.INC. Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER Lab Sample ID: 967770

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

319-84-6-----alpha-BHC	0.056	U
319-85-7-----beta-BHC	0.056	U
319-86-8-----delta-BHC	0.056	U
58-89-9-----Lindane	0.056	U
76-44-8-----Heptachlor	0.056	U
309-00-2-----Aldrin	0.056	U
1024-57-3-----Heptachlor epoxide	0.056	U
959-98-8-----Endosulfan I	0.056	U
60-57-1-----Dieldrin	0.11	U
72-55-9-----4,4'-DDE	0.11	U
72-20-8-----Endrin	0.11	U
33213-65-9-----Endosulfan II	0.11	U
72-54-8-----4,4'-DDD	0.11	U
1031-07-8-----Endosulfan sulfate	0.11	U
50-29-3-----4,4'-DDT	0.11	U
72-43-5-----Methoxychlor	0.56	U
53494-70-5-----Endrin ketone	0.11	U
5103-71-9-----alpha-Chlordane	0.56	U
5103-74-2-----beta-Chlordane	0.56	U
8001-35-2-----Toxaphene	1.1	U
12674-11-2-----Aroclor-1016	0.56	U
11104-28-2-----Aroclor-1221	0.56	U
11141-16-5-----Aroclor-1232	0.56	U
53469-21-9-----Aroclor-1242	0.56	U
12672-29-6-----Aroclor-1248	0.56	U
11097-69-1-----Aroclor-1254	1.1	U
11096-82-5-----Aroclor-1260	1.1	U

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Scott D'Zurilla
11/17/89

* *W. J. Molloy* *

14

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Laboratory Director 1/87 Rev.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-24

Lab Name: H2M LABS. INC.

Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967771

Sample wt/vol: 900.0 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q

319-84-6-----alpha-BHC	0.056	U
319-85-7-----beta-BHC	0.056	U
319-86-8-----delta-BHC	0.056	U
58-89-9-----Lindane	0.056	U
76-44-8-----Heptachlor	0.056	U
309-00-2-----Aldrin	0.056	U
1024-57-3-----Heptachlor epoxide	0.056	U
959-98-8-----Endosulfan I	0.056	U
60-57-1-----Dieldrin	0.11	U
72-55-9-----4,4'-DDE	0.11	U
72-20-8-----Endrin	0.11	U
33213-65-9-----Endosulfan II	0.11	U
72-54-8-----4,4'-DDD	0.11	U
1031-07-8-----Endosulfan sulfate	0.11	U
50-29-3-----4,4'-DDT	0.11	U
72-43-5-----Methoxychlor	0.56	U
53494-70-5-----Endrin ketone	0.11	U
5103-71-9-----alpha-Chlordane	0.56	U
5103-74-2-----beta-Chlordane	0.56	U
8001-35-2-----Toxaphene	1.1	U
12674-11-2-----Aroclor-1016	0.56	U
11104-28-2-----Aroclor-1221	0.56	U
11141-16-5-----Aroclor-1232	0.56	U
53469-21-9-----Aroclor-1242	0.56	U
12672-29-6-----Aroclor-1248	0.56	U
11097-69-1-----Aroclor-1254	1.1	U
11096-82-5-----Aroclor-1260	1.1	U

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Scott O'Neill
11/17/89

* *Nicholas* *

15

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-25

Lab Name: H2M LABS.INC. Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER Lab Sample ID: 967772

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/09/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

319-84-6-----	alpha-BHC	0.052	U
319-85-7-----	beta-BHC	0.052	U
319-86-8-----	delta-BHC	0.052	U
58-89-9-----	Lindane	0.052	U
76-44-8-----	Heptachlor	0.052	U
309-00-2-----	Aldrin	0.052	U
1024-57-3-----	Heptachlor epoxide	0.052	U
959-98-8-----	Endosulfan I	0.052	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 sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.52	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.52	U
5103-74-2-----	beta-Chlordane	0.52	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	0.52	U
11104-28-2-----	Aroclor-1221	0.52	U
11141-16-5-----	Aroclor-1232	0.52	U
53469-21-9-----	Aroclor-1242	0.52	U
12672-29-6-----	Aroclor-1248	0.52	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

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11/17/89

John J. Malloy

John J. Malloy, P.E.
Laboratory Director

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-23

Lab Name: H2M LABS. INC. Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER Lab Sample ID: 967773

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q

319-84-6-----alpha-BHC	0.052	U
319-85-7-----beta-BHC	0.052	U
319-86-8-----delta-BHC	0.052	U
58-89-9-----Lindane	0.052	U
76-44-8-----Heptachlor	0.052	U
309-00-2-----Aldrin	0.052	U
1024-57-3-----Heptachlor epoxide	0.052	U
959-98-8-----Endosulfan I	0.052	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 sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.52	U
53494-70-5-----Endrin ketone	0.10	U
5103-71-9-----alpha-Chlordane	0.52	U
5103-74-2-----beta-Chlordane	0.52	U
8001-35-2-----Toxaphene	1.0	U
12674-11-2-----Aroclor-1016	0.52	U
11104-28-2-----Aroclor-1221	0.52	U
11141-16-5-----Aroclor-1232	0.52	U
53469-21-9-----Aroclor-1242	0.52	U
12672-29-6-----Aroclor-1248	0.52	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

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11/17/89

* *John J. Moiloy* *

John J. Moiloy, P.E.
Laboratory Director

17

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-2

Lab Name: H2M LABS.INC.

Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967774

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	Lindane	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	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 sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.50	U
5103-74-2-----	beta-Chlordane	0.50	U
8001-35-2-----	Toxaphene	1.0	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	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

DATE REPORTED: NOV 30 1989

Scott D. Hill

11/17/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

18

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: H2M LABS.INC. Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER Lab Sample ID: 967776

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6-----	alpha-BHC	0.052	U
319-85-7-----	beta-BHC	0.052	U
319-86-8-----	delta-BHC	0.052	U
58-89-9-----	Lindane	0.052	U
76-44-8-----	Heptachlor	0.052	U
309-00-2-----	Aldrin	0.052	U
1024-57-3-----	Heptachlor epoxide	0.052	U
959-98-8-----	Endosulfan I	0.052	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 sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.52	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.52	U
5103-74-2-----	beta-Chlordane	0.52	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	0.52	U
11104-28-2-----	Aroclor-1221	0.52	U
11141-16-5-----	Aroclor-1232	0.52	U
53469-21-9-----	Aroclor-1242	0.52	U
12672-29-6-----	Aroclor-1248	0.52	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

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Ant O'Zell
11/17/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

19

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: H2M LABS.INC.

Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967777

Sample wt/vol: 950.0 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

Moisture: not dec. _____ dec. _____

Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

319-84-6-----alpha-BHC	0.052	U
319-85-7-----beta-BHC	0.052	U
319-86-8-----delta-BHC	0.052	U
58-89-9-----Lindane	0.052	U
76-44-8-----Heptachlor	0.052	U
309-00-2-----Aldrin	0.052	U
1024-57-3-----Heptachlor epoxide	0.052	U
959-98-8-----Endosulfan I	0.052	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 sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.52	U
53494-70-5-----Endrin ketone	0.10	U
5103-71-9-----alpha-Chlordane	0.52	U
5103-74-2-----beta-Chlordane	0.52	U
8001-35-2-----Toxaphene	1.0	U
12674-11-2-----Aroclor-1016	0.52	U
11104-28-2-----Aroclor-1221	0.52	U
11141-16-5-----Aroclor-1232	0.52	U
53469-21-9-----Aroclor-1242	0.52	U
12672-29-6-----Aroclor-1248	0.52	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

DATE REPORTED: NOV 30 1989

Scott D. Buehl

11/17/89

* *John J. Molloy* *

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Laboratory Director

20

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS.INC.

Contract: _____

MW-13

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967778

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

319-84-6-----alpha-BHC	0.050	U
319-85-7-----beta-BHC	0.050	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----Lindane	0.050	U
76-44-8-----Heptachlor	0.050	U
309-00-2-----Aldrin	0.050	U
1024-57-3-----Heptachlor epoxide	0.050	U
959-98-8-----Endosulfan I	0.050	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 sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.50	U
53494-70-5-----Endrin ketone	0.10	U
5103-71-9-----alpha-Chlordane	0.50	U
5103-74-2-----beta-Chlordane	0.50	U
8001-35-2-----Toxaphene	1.0	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	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

DATE REPORTED: NOV 30 1989

Scott D'Zuill
11/17/89

* *John J. Molloy* *

21

John J. Molloy, P.E.
Laboratory Director

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-3

Lab Name: H2M LABS. INC.

Contract: _____

Lab Code: _____

Case No.: LINK

SAS No.: _____

SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967779

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	Lindane	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	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 sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.50	U
5103-74-2-----	beta-Chlordane	0.50	U
8001-35-2-----	Toxaphene	1.0	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	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

DATE REPORTED: NOV 30 1989

Scott D. Ziller
11/17/89

* *John J. Molloy* *

22

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: H2M LABS.INC. Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER Lab Sample ID: 967780

Sample wt/vol: 875.0 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 10/06/89

Moisture: not dec. _____ dec. _____ Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6-----	alpha-BHC	0.057	U
319-85-7-----	beta-BHC	0.057	U
319-86-8-----	delta-BHC	0.057	U
58-89-9-----	Lindane	0.057	U
76-44-8-----	Heptachlor	0.057	U
309-00-2-----	Aldrin	0.057	U
1024-57-3-----	Heptachlor epoxide	0.057	U
959-98-8-----	Endosulfan I	0.057	U
60-57-1-----	Dieldrin	0.11	U
72-55-9-----	4,4'-DDE	0.11	U
72-20-8-----	Endrin	0.11	U
33213-65-9-----	Endosulfan II	0.11	U
72-54-8-----	4,4'-DDD	0.11	U
1031-07-8-----	Endosulfan sulfate	0.11	U
50-29-3-----	4,4'-DDT	0.11	U
72-43-5-----	Methoxychlor	0.57	U
53494-70-5-----	Endrin ketone	0.11	U
5103-71-9-----	alpha-Chlordane	0.57	U
5103-74-2-----	beta-Chlordane	0.57	U
8001-35-2-----	Toxaphene	1.1	U
12674-11-2-----	Aroclor-1016	0.57	U
11104-28-2-----	Aroclor-1221	0.57	U
11141-16-5-----	Aroclor-1232	0.57	U
53469-21-9-----	Aroclor-1242	0.57	U
12672-29-6-----	Aroclor-1248	0.57	U
11097-69-1-----	Aroclor-1254	1.1	U
11096-82-5-----	Aroclor-1260	1.1	U

DATE REPORTED: NOV 30 1989

Scott O'Neill
11/17/89

* *modaie* *

23

John J. McIlroy, P.E.
Laboratory Director

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: H2M LABS.INC.

Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967781

Sample wt/vol: 975.0 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q

319-84-6-----alpha-BHC	0.052	U
319-85-7-----beta-BHC	0.052	U
319-86-8-----delta-BHC	0.052	U
58-89-9-----Lindane	0.052	U
76-44-8-----Heptachlor	0.052	U
309-00-2-----Aldrin	0.052	U
1024-57-3-----Heptachlor epoxide	0.052	U
959-98-8-----Endosulfan I	0.052	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 sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.52	U
53494-70-5-----Endrin ketone	0.10	U
5103-71-9-----alpha-Chlordane	0.52	U
5103-74-2-----beta-Chlordane	0.52	U
8001-35-2-----Toxaphene	1.0	U
12674-11-2-----Aroclor-1016	0.52	U
11104-28-2-----Aroclor-1221	0.52	U
11141-16-5-----Aroclor-1232	0.52	U
53469-21-9-----Aroclor-1242	0.52	U
12672-29-6-----Aroclor-1248	0.52	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

DATE REPORTED: NOV 30 1989

Det D'Zille
11/7/89

* *W. J. Moiloy* *

24

John J. Moiloy, P.E.
Laboratory Director

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: H2M LABS.INC.

Contract: _____

Lab Code: _____

Case No.: LINK

SAS No.: _____

SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967782

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	Lindane	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	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 sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.50	U
5103-74-2-----	beta-Chlordane	0.50	U
8001-35-2-----	Toxaphene	1.0	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	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

DATE REPORTED: NOV 30 1989

Art D'Zella
11/17/89

* *Waddie* *

25

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: H2M LABS.INC.

Contract: _____

Lab Code: _____ Case No.: LINK SAS No.: _____ SDG No.: 6

Matrix: (soil/water) WATER

Lab Sample ID: 967783

Sample wt/vol: 950.0 (g/mL) ML

Lab File ID: _____

Level: (low/med) LOW

Date Received: 10/06/89

% Moisture: not dec. _____ dec. _____

Date Extracted: 10/10/89

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH: 8.0

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6-----	alpha-BHC	0.052	U
319-85-7-----	beta-BHC	0.052	U
319-86-8-----	delta-BHC	0.052	U
58-89-9-----	Lindane	0.052	U
76-44-8-----	Heptachlor	0.052	U
309-00-2-----	Aldrin	0.052	U
1024-57-3-----	Heptachlor epoxide	0.052	U
959-98-8-----	Endosulfan I	0.052	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 sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.52	U
53494-70-5-----	Endrin ketone	0.10	U
5103-71-9-----	alpha-Chlordane	0.52	U
5103-74-2-----	beta-Chlordane	0.52	U
8001-35-2-----	Toxaphene	1.0	U
12674-11-2-----	Aroclor-1016	0.52	U
11104-28-2-----	Aroclor-1221	0.52	U
11141-16-5-----	Aroclor-1232	0.52	U
53469-21-9-----	Aroclor-1242	0.52	U
12672-29-6-----	Aroclor-1248	0.52	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

DATE REPORTED: NOV 30 1989

11/17/89
[Signature]

* *[Signature]* *

John J. Molloy, P.E.
Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

mw-17

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965629

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1542

Level: (low/med) LOW

Date Received: 9/8/89

Moisture: not dec. 1 %

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L Q

74-87-3	Chloromethane	10.	10
74-83-9	Bromomethane	10.	10
75-01-4	Vinyl Chloride	10.	10
75-00-3	Chloroethane	10.	10
75-09-2	Methylene Chloride	5.	10
67-64-1	Acetone	10.	10
75-15-0	Carbon Disulfide	5.	10
75-35-4	1,1-Dichloroethene	5.	10
75-34-3	1,1-Dichloroethane	5.	10
540-59-0	1,2-Dichloroethene (total)	5.	10
67-66-3	Chloroform	5.	10
107-06-2	1,2-Dichloroethane	5.	10
78-93-3	2-Butanone	10.	10
71-55-6	1,1,1-Trichloroethane	8.	1
56-23-5	Carbon Tetrachloride	5.	10
108-05-4	Vinyl Acetate	10.	10
75-27-4	Bromodichloromethane	5.	10
78-87-5	1,2-Dichloropropane	5.	10
10061-01-5	cis-1,3-Dichloropropene	5.	10
79-01-6	Trichloroethene	77.	1
124-48-1	Dibromochloromethane	5.	10
79-00-5	1,1,2-Trichloroethane	5.	10
71-43-2	Benzene	5.	10
10061-02-6	trans-1,3-Dichloropropene	5.	10
75-25-2	Bromoform	5.	10
108-10-1	4-Methyl-2-pentanone	10.	10
591-78-6	2-Hexanone	10.	10
127-18-4	Tetrachloroethene	5.	10
79-34-5	1,1,2,2-Tetrachloroethane	5.	10
108-88-3	Toluene	5.	10
108-90-7	Chlorobenzene	5.	10
100-41-4	Ethylbenzene	5.	10
100-42-5	Styrene	5.	10
133-02-7	Xylene (total)	5.	10

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

mw-17

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965629

Sample wt/Vol: 5 (g/mL) ML

Lab File ID: >P1542

Level: (low/med) LOW

Date Received: 9/8/89

Moisture: not dec. 1 % mois

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 42 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	ID
2.	Unknown	14.16	5.	J
3. 2216333	Octane, 3-methyl- (8CI9CI)	14.26	8.	J
6. 98828	Benzene, (1-methylethyl)- (9	15.32	9.	J
11. 1120214	Undecane (8CI9CI)	16.83	10.	J
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC

* *John J. Molloy* *

1/87 Rev.

John J. Molloy, P.E.
Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

mw-23

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDR No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965630

Sample Wt/Vol: 5 (g/mL) ML

Lab File ID: >P1543

Level: (low/med) LOW

Date Received: 9/8/89

% Moisture: not dec. 1 % mois

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	10
74-83-9-----	Bromomethane	10.	10
75-01-4-----	Vinyl Chloride	10.	10
75-00-3-----	Chloroethane	10.	10
75-09-2-----	Methylene Chloride	5.	10
67-64-1-----	Acetone	10.	10
75-15-0-----	Carbon Disulfide	5.	10
75-35-4-----	1,1-Dichloroethene	5.	10
75-34-3-----	1,1-Dichloroethane	5.	10
540-59-0-----	1,2-Dichloroethene (total)	5.	10
67-66-3-----	Chloroform	5.	10
107-06-2-----	1,2-Dichloroethane	5.	10
78-93-3-----	2-Butanone	10.	10
71-55-6-----	1,1,1-Trichloroethane	5.	10
56-23-5-----	Carbon Tetrachloride	5.	10
108-05-4-----	Vinyl Acetate	10.	10
75-27-4-----	Bromodichloromethane	5.	10
78-87-5-----	1,2-Dichloropropane	5.	10
10061-01-5-----	cis-1,3-Dichloropropene	5.	10
79-01-6-----	Trichloroethene	5.	10
124-48-1-----	Dibromochloromethane	5.	10
79-00-5-----	1,1,2-Trichloroethane	5.	10
71-43-2-----	Benzene	5.	10
10061-02-6-----	trans-1,3-Dichloropropene	5.	10
75-25-2-----	Bromoform	5.	10
108-10-1-----	4-Methyl-2-pentanone	10.	10
591-78-6-----	2-Hexanone	10.	10
127-18-4-----	Tetrachloroethene	5.	10
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	10
108-88-3-----	Toluene	5.	10
108-90-7-----	Chlorobenzene	5.	10
100-41-4-----	Ethylbenzene	5.	10
100-42-5-----	Styrene	5.	10
133-02-7-----	Xylene (total)	5.	10

John J. Molloy, P.E.
Laboratory Director

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

mw-23

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965630

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1543

Level: (low/med) LDW

Date Received: 9/8/89

Moisture: not dec. 1 % mois

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 15/16

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.64	6.	J
3.	Unknown	14.17	7.	J
4.	Unknown	14.27	14.	J
5.	Unknown	14.49	8.	J
6.	Unknown	15.10	7.	J
7.	611143 Benzene, 1-ethyl-2-methyl-	15.33	16.	J
9.	620144 Benzene, 1-ethyl-3-methyl-	16.00	9.	J
10.	Unknown	16.18	16.	J
13.	1120214 Undecane (8CI9CI)	16.83	21.	J
14.	Unknown	17.06	6.	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1 UOA-TIC

* *John J. Molloy* *

1/87 Rev.

John J. Molloy, P.E.
Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

mm-24

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MM-17

Matrix: (soil/water) WATER

Lab Sample ID: 965631

Sample Int/Vol: 5 (g/mL) ML

Lab File ID: >P1544

Level: (low/med) LOW

Date Received: 9/8/89

Moisture: not dec. % mois

Date Analyzed: 9/12/89

Dilum: (pack/cap) CAP

Dilution Factor: 1.00000

		CONCENTRATION UNITS:		
CAS NO.	COMPOUND	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	10.	10	
74-83-9	Bromomethane	10.	10	
75-01-4	Vinyl Chloride	10.	10	
75-00-3	Chloroethane	10.	10	
75-09-2	Methylene Chloride	5.	10	
67-64-1	Acetone	10.	10	
75-15-0	Carbon Disulfide	5.	10	
75-35-4	1,1-Dichloroethene	5.	10	
75-34-3	1,1-Dichloroethane	5.	10	
540-59-0	1,2-Dichloroethene (total)	5.	10	
67-66-3	Chloroform	5.	10	
107-06-2	1,2-Dichloroethane	5.	10	
78-93-3	2-Butanone	10.	10	
71-55-6	1,1,1-Trichloroethane	4.	10	
56-23-5	Carbon Tetrachloride	5.	10	
108-05-4	Vinyl Acetate	10.	10	
75-27-4	Bromodichloromethane	5.	10	
78-87-5	1,2-Dichloropropane	5.	10	
10061-01-5	cis-1,3-Dichloropropene	5.	10	
79-01-6	Trichloroethene	14.		
124-48-1	Dibromochloromethane	5.	10	
79-00-5	1,1,2-Trichloroethane	5.	10	
71-43-2	Benzene	5.	10	
10061-02-6	trans-1,3-Dichloropropene	5.	10	
75-25-2	Bromoform	5.	10	
108-10-1	4-Methyl-2-pentanone	10.	10	
591-78-6	2-Hexanone	10.	10	
127-18-4	Tetrachloroethene	5.	10	
79-34-5	1,1,2,2-Tetrachloroethane	5.	10	
108-88-3	Toluene	5.	10	
108-90-7	Chlorobenzene	5.	10	
100-41-4	Ethylbenzene	5.	10	
100-42-5	Styrene	5.	10	
133-02-7	Xylene (total)	5.	10	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Name: H2M LABS INC.

Contract: -----

mw-24

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965631

Sample wt/Vol: 5 (g/mL) ML

Lab File ID: >P1544

Level: (low/med) LOW

Date Received: 9/8/89

Moisture: not dec. 1 % mois

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	D
2.	Unknown	14.18	5.	J
3.	Unknown	14.28	10.	J
6. 98828	Benzene, (1-methylethyl)- (9)	15.34	11.	J
8. 526738	Benzene, 1,2,3-trimethyl- (8)	16.02	6.	J
9.	Unknown	16.19	9.	J
11. 1120214	Undecane (8CI9CI)	16.85	11.	J
13.				
14.				
15.				
16.				
17.				
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FORM I UOA-TIC

* *John J. Molloy* *

1/87 Rev.

John J. Molloy, P.E.
Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

mw-25

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965632

Sample wt/Vol: 5 (g/mL) ML

Lab File ID: >P1545

Level: (low/med) LOW

Date Received: 9/8/89

Moisture: not det. % mois

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	8.	I
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	52.	I
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.

Laboratory Director

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

mw-25

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965632

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1545

Level: (low/med) LOW

Date Received: 9/8/89

% Moisture: not dec. 1 % mois

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 13 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONCL.	Q
3.	Unknown	14.18	5.	J
4. 15869939	Octane, 3,5-dimethyl- (8CI9C)	14.28	11.	J
5.	Unknown	14.48	6.	J
6.	Unknown	15.10	6.	J
7. 611143	Benzene, 1-ethyl-2-methyl- (	15.33	13.	J
9. 526738	Benzene, 1,2,3-trimethyl- (8	16.00	7.	J
10.	Unknown	16.19	13.	J
12. 1120214	Undecane (8CI9CI)	16.84	17.	J
14.				
15.				
16.				
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FORM I UOA-TIC

* *John J. Molloy* *

1/87 Rev.

John J. Molloy, P.E.
Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

trip blank

Lab Code: ----- Case No.: _____ SAS No.: _____ SDR No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965633

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1546

Level: (low/med) LDW

Date Received: 9/8/89

Moisture: not der. 1 % mois

Date Analyzed: 9/12/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	UU
74-83-9	Bromomethane	10.	UU
75-01-4	Vinyl Chloride	10.	UU
75-00-3	Chloroethane	10.	UU
75-09-2	Methylene Chloride	5.	UU
67-64-1	Acetone	10.	UU
75-15-0	Carbon Disulfide	5.	UU
75-35-4	1,1-Dichloroethene	5.	UU
75-34-3	1,1-Dichloroethane	5.	UU
540-59-0	1,2-Dichloroethene (total)	5.	UU
67-66-3	Chloroform	5.	UU
107-06-2	1,2-Dichloroethane	5.	UU
78-93-3	2-Butanone	10.	UU
71-55-6	1,1,1-Trichloroethane	5.	UU
56-23-5	Carbon Tetrachloride	5.	UU
108-05-4	Vinyl Acetate	10.	UU
75-27-4	Bromodichloromethane	5.	UU
78-87-5	1,2-Dichloropropane	5.	UU
10061-01-5	cis-1,3-Dichloropropene	5.	UU
79-01-6	Trichloroethene	5.	UU
124-48-1	Dibromochloromethane	5.	UU
79-00-5	1,1,2-Trichloroethane	5.	UU
71-43-2	Benzene	5.	UU
10061-02-6	trans-1,3-Dichloropropene	5.	UU
75-25-2	Bromoform	5.	UU
108-10-1	4-Methyl-2-pentanone	10.	UU
591-78-6	2-Hexanone	10.	UU
127-18-4	Tetrachloroethene	5.	UU
79-34-5	1,1,2,2-Tetrachloroethane	5.	UU
108-88-3	Toluene	5.	UU
108-90-7	Chlorobenzene	5.	UU
100-41-4	Ethylbenzene	5.	UU
100-42-5	Styrene	5.	UU
133-02-7	Xylene (total)	5.	UU

John J. Molloy, P.E.
Laboratory Director

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

trip blank

Lab Code: ----- Case No.: _____ SAS No.: _____ SDG No.: MW-17

Matrix: (soil/water) WATER

Lab Sample ID: 965633

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1546

Level: (low/med) LDM

Date Received: 9/8/89

% Moisture: not dec. 1 % mois

Date Analyzed: 9/12/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 12

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	Unknown	14.17	5.	J
3. 15869939	Octane, 3,5-dimethyl- (8CI9C)	14.27	11.	J
4.	Unknown	14.49	6.	J
5.	Unknown	15.11	11.	J
6. 611143	Benzene, 1-ethyl-2-methyl- (	15.34	12.	J
8. 620144	Benzene, 1-ethyl-3-methyl- (	16.01	7.	J
9.	Unknown	16.18	10.	J
11. 1120214	Undecane (8CI9CI)	16.84	13.	J
13.				
14.				
15.				
16.				
17.				
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FORM I UOA-TIC

C-164

Q1 JRT

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

1/87.1 Rev.

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XXMW24

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967790

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	202000	*		F
7440-36-0	Antimony	28.5	B	N	F
7440-38-2	Arsenic	51.1	+	N	F
7440-39-3	Barium	1560	N		F
7440-41-7	Beryllium	27.4	N		F
7440-43-9	Cadmium	17.0	*		A
7440-70-2	Calcium	1440000			A
7440-47-3	Chromium	578			F
7440-48-4	Cobalt	223	N		F
7440-50-8	Copper	739	N*		F
7439-89-6	Iron	550000	*		A
7439-92-1	Lead	740	N		A
7439-95-4	Magnesium	475000			F
7439-96-5	Manganese	19000	E		F
7439-97-6	Mercury	.71	*		CV
7440-02-0	Nickel	561	N*		F
7440-09-7	Potassium	12900	N		F
7782-49-2	Selenium	10.0	U	N	F
7440-22-4	Silver	30.0	N		A
7440-23-5	Sodium	33200	N		F
7440-28-0	Thallium	30.0	U	N	F
7440-62-2	Vanadium	353			F
7440-66-6	Zinc	1670	E*		F
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

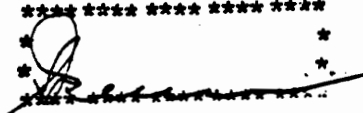
Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989



John J. Melley, P.E.
Laboratory Director

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

FLDBK2

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967793

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	U *		P
7440-36-0	Antimony	26.0	U N		P
7440-38-2	Arsenic	3.0	U N		P
7440-39-3	Barium	35.0	U N		P
7440-41-7	Beryllium	2.0	U N		P
7440-43-9	Cadmium	5.0	U *		A
7440-70-2	Calcium	292	U		P
7440-47-3	Chromium	10.0	U		A
7440-48-4	Cobalt	13.0	U N		P
7440-50-8	Copper	11.0	U N*		P
7439-89-6	Iron	75.0	B		P
7439-92-1	Lead	100	U N		A
7439-95-4	Magnesium	174	U		P
7439-96-5	Manganese	3.0	U E		P
7439-97-6	Mercury	.20	U *		CV
7440-02-0	Nickel	21.0	U N*		P
7440-09-7	Potassium	445	U N		P
7782-49-2	Selenium	1.0	U N		P
7440-22-4	Silver	10.0	N		A
7440-23-5	Sodium	258	B N		P
7440-28-0	Thallium	3.0	U W N		P
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	5.0	U E*		P
	Cyanide	10.0	U		C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

*
*
*****John J. Moller, P.E.
Laboratory Director

10

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW10

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967794

Level (low/med): LDW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	281000		*	P
7440-36-0	Antimony	76.1		N	P
7440-38-2	Arsenic	49.0		N	P
7440-39-3	Barium	3680		N	P
7440-41-7	Beryllium	22.8		N	P
7440-43-9	Cadmium	7290		*	A
7440-70-2	Calcium	481000			P
7440-47-3	Chromium	21900			P
7440-48-4	Cobalt	251		N	P
7440-50-8	Copper	22800		N*	P
7439-89-6	Iron	627000			P
7439-92-1	Lead	1320		N	A
7439-95-4	Magnesium	239000			P
7439-96-5	Manganese	57700		E	P
7439-97-6	Mercury	.84		*	CV
7440-02-0	Nickel	1990		N*	P
7440-09-7	Potassium	12800		N	P
7782-49-2	Selenium	10.0	U	N	P
7440-22-4	Silver	120		N	A
7440-23-5	Sodium	19400		N	P
7440-28-0	Thallium	3.0	U	W N	P
7440-62-2	Vanadium	403			P
7440-66-6	Zinc	4800		E*	P
	Cyanide	395			C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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11

John J. Moiley, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW12

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967795

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	191000		*	P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	79.0		N	P
7440-39-3	Barium	1590		N	P
7440-41-7	Beryllium	12.4		N	P
7440-43-9	Cadmium	126		*	A
7440-70-2	Calcium	106000			P
7440-47-3	Chromium	653			P
7440-48-4	Cobalt	141		N	P
7440-50-8	Copper	1620		N*	P
7439-89-6	Iron	388000			P
7439-92-1	Lead	440		N	A
7439-95-4	Magnesium	61000			P
7439-96-5	Manganese	19800		E	P
7439-97-6	Mercury	1.1		*	CV
7440-02-0	Nickel	614		N*	P
7440-09-7	Potassium	19600		N	P
7782-49-2	Selenium	10.0	U	W	N
7440-22-4	Silver	160		N	A
7440-23-5	Sodium	44700		N	P
7440-28-0	Thallium	3.0	U	W	N
7440-62-2	Vanadium	246			P
7440-66-6	Zinc	1420		E*	P
	Cyanide	40.0			C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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John J. Molloy, P.E.
Laboratory Director

12

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW15

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK&R

Matrix (soil/water): WATER

Lab Sample ID: 967800

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26300		*	F
7440-36-0	Antimony	26.0	U	N	F
7440-38-2	Arsenic	21.5		N	F
7440-39-3	Barium	219		N	F
7440-41-7	Beryllium	3.6	B	N	F
7440-43-9	Cadmium	5.0	U	*	A
7440-70-2	Calcium	182000			F
7440-47-3	Chromium	176			F
7440-48-4	Cobalt	31.7	B	N	F
7440-50-8	Copper	129		N*	F
7439-89-6	Iron	67500			F
7439-92-1	Lead	110		N	A
7439-95-4	Magnesium	43100			F
7439-96-5	Manganese	2460		E	F
7439-97-6	Mercury	.20	U	*	CV
7440-02-0	Nickel	83.4		N*	F
7440-09-7	Potassium	5490		N	F
7782-49-2	Selenium	1.0	U	W N	F
7440-22-4	Silver	20.0		N	A
7440-23-5	Sodium	46400		N	F
7440-28-0	Thallium	3.0	U	N	F
7440-62-2	Vanadium	45.1	B		F
7440-66-6	Zinc	234		E*	F
	Cyanide	30.0			C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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John J. Molloy, P.E.
Laboratory Director

13

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW16

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967802

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	241000	*		P
7440-38-0	Antimony	40.5	B	N	P
7440-38-2	Arsenic	3.0	U	W	N F
7440-39-3	Barium	1530		N	P
7440-41-7	Beryllium	20.6		N	P
7440-43-9	Cadmium	151	*		A
7440-70-2	Calcium	860000			
7440-47-3	Chromium	535			P
7440-48-4	Cobalt	229		N	P
7440-50-8	Copper	1050		N*	P
7439-89-6	Iron	560000	*		A
7439-92-1	Lead	690		N	A
7439-95-4	Magnesium	281000			P
7439-96-5	Manganese	17400		E	P
7439-97-6	Mercury	.60	*		CV
7440-02-0	Nickel	1090		N*	P
7440-09-7	Potassium	20100		N	P
7782-49-2	Selenium	1.0	U	N	F
7440-22-4	Silver	30.0		N	A
7440-23-5	Sodium	59700		N	P
7440-28-0	Thallium	3.0	U	W	N F
7440-62-2	Vanadium	362			P
7440-66-6	Zinc	2440		E*	P
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989



John J. Molloy, P.E.
Laboratory Director

11

H2M LABS, INC.

U.S. EPA - CLP

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(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XXMW17

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK&R

Matrix (soil/water): WATER

Lab Sample ID: 967801

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28000	*		F
7440-36-0	Antimony	26.0	U	N	F
7440-38-2	Arsenic	18.9		N	F
7440-39-3	Barium	221		N	F
7440-41-7	Beryllium	3.7	B	N	F
7440-43-9	Cadmium	7.0	*		A
7440-70-2	Calcium	210000			F
7440-47-3	Chromium	312			F
7440-48-4	Cobalt	24.5	B	N	F
7440-50-8	Copper	105		N*	F
7439-89-6	Iron	65600			F
7439-92-1	Lead	190		N	A
7439-95-4	Magnesium	57900			F
7439-96-5	Manganese	1710		E	F
7439-97-6	Mercury	.20	U	*	CV
7440-02-0	Nickel	89.2		N*	F
7440-09-7	Potassium	6080		N	F
7782-49-2	Selenium	1.0	U	W N	F
7440-22-4	Silver	20.0		N	A
7440-23-5	Sodium	81400		N	F
7440-28-0	Thallium	3.0	U	N	F
7440-62-2	Vanadium	44.1	B		F
7440-66-6	Zinc	205		E*	F
	Cyanide	23.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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John J. Molloy, P.E.
Laboratory Director

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

XXMW20

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967789

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	149000	*		F
7440-36-0	Antimony	26.0	BIN		F
7440-38-2	Arsenic	30.0	U W N		F
7440-39-3	Barium	1190	N		F
7440-41-7	Beryllium	15.2	N		F
7440-43-9	Cadmium	12.0	*		A
7440-70-2	Calcium	684000			F
7440-47-3	Chromium	269			F
7440-48-4	Cobalt	173	N		F
7440-50-8	Copper	389	N*		F
7439-89-6	Iron	350000			F
7439-92-1	Lead	590	N		A
7439-95-4	Magnesium	200000			F
7439-96-5	Manganese	10300	E		F
7439-97-6	Mercury	.20	U *		CV
7440-02-0	Nickel	388	N*		F
7440-09-7	Potassium	11400	N		F
7782-49-2	Selenium	10	U N		F
7440-22-4	Silver	20.0	N		A
7440-23-5	Sodium	66300	N		F
7440-28-0	Thallium	3.0	U W N		F
7440-62-2	Vanadium	235			F
7440-66-6	Zinc	1060	E*		F
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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*****John J. Molloy, P.E.
Laboratory Director

13

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW21

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967787

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	D	Q	M
7429-90-5	Aluminum	380000	*		P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	32.0		N	P
7440-39-3	Barium	2000		N	P
7440-41-7	Beryllium	33.4		N	P
7440-43-9	Cadmium	85.0	*		A
7440-70-2	Calcium	1420000			A
7440-47-3	Chromium	808			P
7440-48-4	Cobalt	394		N	P
7440-50-8	Copper	1030		N*	P
7439-89-6	Iron	960000	*		A
7439-92-1	Lead	760		N	A
7439-95-4	Magnesium	426000			P
7439-96-5	Manganese	20600		E	P
7439-97-6	Mercury	.44	*		CV
7440-02-0	Nickel	958		N*	P
7440-09-7	Potassium	17400		N	P
7782-49-2	Selenium	10.0	U	N	P
7440-22-4	Silver	10.0		N	P
7440-23-5	Sodium	45400		N	P
7440-28-0	Thallium	30.0	U	N	P
7440-62-2	Vanadium	544			P
7440-66-6	Zinc	2620		E*	P
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989



17

John J. Molloy, P.E.
Laboratory Director

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW23

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967792

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	105000	*		P
7440-36-0	Antimony	156	N		P
7440-38-2	Arsenic	40.6	S N		F
7440-39-3	Barium	1200	N		P
7440-41-7	Beryllium	7.1	N		P
7440-43-9	Cadmium	5.0	U *		A
7440-70-2	Calcium	145000			P
7440-47-3	Chromium	307			P
7440-48-4	Cobalt	97.5	N		P
7440-50-8	Copper	207	N*		P
7439-89-6	Iron	242000			P
7439-92-1	Lead	190	N		A
7439-95-4	Magnesium	54700			P
7439-96-5	Manganese	14700	E		P
7439-97-6	Mercury	.25	*		CV
7440-02-0	Nickel	281	N*		P
7440-09-7	Potassium	6080	N		P
7782-49-2	Selenium	1.0	U W N		F
7440-22-4	Silver	10.0	N		A
7440-23-5	Sodium	18400	N		P
7440-28-0	Thallium	3.0	U N		F
7440-62-2	Vanadium	151			P
7440-66-6	Zinc	701	E*		P
	Cyanide	30.0			C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

John J. Molloy

John J. Molloy, P.E.
Laboratory Director

13

H2M LABS, INC.

U.S. EPA - CLP

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EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW25

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967791

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	98900	*		P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	63.6		N	F
7440-39-3	Barium	1130		N	P
7440-41-7	Beryllium	9.1		N	P
7440-43-9	Cadmium	17.0	*		A
7440-70-2	Calcium	305000			P
7440-47-3	Chromium	545			P
7440-48-4	Cobalt	97.2		N	P
7440-50-8	Copper	251		N*	P
7439-89-6	Iron	205000			P
7439-92-1	Lead	360		N	A
7439-95-4	Magnesium	102000			P
7439-96-5	Manganese	8610		E	P
7439-97-6	Mercury	.20	U	*	CV
7440-02-0	Nickel	306		N*	P
7440-09-7	Potassium	11600		N	P
7782-49-2	Selenium	1.0	U	W N	F
7440-22-4	Silver	10.0		N	A
7440-23-5	Sodium	72100		N	P
7440-28-0	Thallium	3.0	U	N	F
7440-62-2	Vanadium	142			P
7440-66-6	Zinc	713		Ex	P
	Cyanide	25.0			C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

* *John J. Molloy* *

10

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XXMW26

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967788

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	D	Q	M
7429-90-5	Aluminum	67000	*		F
7440-36-0	Antimony	26.0	U	N	F
7440-38-2	Arsenic	36.0		N	F
7440-39-3	Barium	448		N	F
7440-41-7	Beryllium	3.9	B	N	F
7440-43-9	Cadmium	5.0	U	N	A
7440-70-2	Calcium	35500			F
7440-47-3	Chromium	110			F
7440-48-4	Cobalt	58.7		N	F
7440-50-8	Copper	134		N*	F
7439-89-6	Iron	147000			F
7439-92-1	Lead	120		N	A
7439-95-4	Magnesium	23500			F
7439-96-5	Manganese	3840		E	F
7439-97-6	Mercury	.76		*	CV
7440-02-0	Nickel	145		N*	F
7440-09-7	Potassium	8500		N	F
7782-49-2	Selenium	1.0	U	W N	F
7440-22-4	Silver	10.0		N	A
7440-23-5	Sodium	12300		N	F
7440-28-0	Thallium	3.0	U	N	F
7440-62-2	Vanadium	99.0			F
7440-66-6	Zinc	339		E*	F
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

XMW22F

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967786

Level (low/med): LW2

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	U	N	P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	3.0	U	N	F
7440-39-3	Barium	84.4	B	N	P
7440-41-7	Beryllium	2.0	U	N	P
7440-43-9	Cadmium	5.0	U		A
7440-70-2	Calcium	48300			P
7440-47-3	Chromium	9.0	U	N	P
7440-48-4	Cobalt	13.0	U	N	P
7440-50-8	Copper	41.7			P
7439-89-6	Iron	46.8	B	N	P
7439-92-1	Lead	2.0	U	W N	F
7439-95-4	Magnesium	7190			P
7439-96-5	Manganese	12.3	B	N	P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	21.0	U	N	P
7440-09-7	Potassium	1950	B		P
7782-49-2	Selenium	1.0	U	N	F
7440-22-4	Silver	20.0			A
7440-23-5	Sodium	118000			P
7440-28-0	Thallium	3.0	U	N	P
7440-62-2	Vanadium	17.0	U	N	P
7440-66-6	Zinc	29.0		N	P
	Cyanide				

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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John J. Molloy, P.E.
Laboratory Director

21

H2M LABS, INC.

U.S. EPA - CLP

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EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXXMW6

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967799

Level (low/med): LOW

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	520000		*	A
7440-36-0	Antimony	26.0	U	N	F
7440-38-2	Arsenic	3.0	U	W N	F
7440-39-3	Barium	3300		N	F
7440-41-7	Beryllium	71.8		N	F
7440-43-9	Cadmium	53.0		*	A
7440-70-2	Calcium	4510000			A
7440-47-3	Chromium	1220			F
7440-48-4	Cobalt	528		N	F
7440-50-8	Copper	1250		N*	F
7439-89-6	Iron	1430000		*	A
7439-92-1	Lead	1430		N	A
7439-95-4	Magnesium	997000			A
7439-96-5	Manganese	33000		E	F
7439-97-6	Mercury	.23		*	CV
7440-02-0	Nickel	1310		N*	F
7440-09-7	Potassium	12400		N	F
7782-49-2	Selenium	1.0	U	W N	F
7440-22-4	Silver	20.0		N	A
7440-23-5	Sodium	151000		N	A
7440-28-0	Thallium	30.0	U	N	F
7440-62-2	Vanadium	745			F
7440-66-6	Zinc	3430		E*	F
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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John J. Molloy, P.E.
Laboratory Director

22

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XMW16F

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967803

Level (low/med): LW2

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	U	N	P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	3.0	U	N	P
7440-39-3	Barium	186	B	N	P
7440-41-7	Beryllium	2.0	U	N	P
7440-43-9	Cadmium	5.0	U		A
7440-70-2	Calcium	125000			P
7440-47-3	Chromium	590		N	P
7440-48-4	Cobalt	13.0	U	N	P
7440-50-8	Copper	45.5			P
7439-89-6	Iron	79.6	B	N	P
7439-92-1	Lead	2.0	U	W	N
7439-95-4	Magnesium	29200			P
7439-96-5	Manganese	15.2		N	P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	21.0	U	N	P
7440-09-7	Potassium	2060	B		P
7782-49-2	Selenium	1.0	U	N	P
7440-22-4	Silver	10.0			A
7440-23-5	Sodium	209000			P
7440-28-0	Thallium	3.0	U	N	P
7440-62-2	Vanadium	17.0	U	N	P
7440-66-6	Zinc	384		N	P
	Cyanide				

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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John J. Molloy, P.E.
Laboratory Director

33

H2M LABS, INC.

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

XMW13F

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967797

Level (low/med): LW2

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	U	N	P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	3.0	U	N	P
7440-39-3	Barium	165	B	N	P
7440-41-7	Beryllium	2.0	U	N	P
7440-43-9	Cadmium	82.0			A
7440-70-2	Calcium	51100			P
7440-47-3	Chromium	92.8		N	P
7440-48-4	Cobalt	13.0	U	N	P
7440-50-8	Copper	65.4			P
7439-89-6	Iron	106		N	P
7439-92-1	Lead	2.3	B	N	P
7439-95-4	Magnesium	7960			P
7439-96-5	Manganese	195		N	P
7439-97-6	Mercury	20			CV
7440-02-0	Nickel	21.0	U	N	P
7440-09-7	Potassium	4480	B		P
7782-49-2	Selenium	1.0	U	N	P
7440-22-4	Silver	10.0			A
7440-23-5	Sodium	41100			P
7440-28-0	Thallium	3.0	U	N	P
7440-62-2	Vanadium	17.0	U	N	P
7440-66-6	Zinc	216		N	P
	Cyanide				

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

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Laboratory Director

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW13

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967796

Level (low/med): LW1

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32400			P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	30.1			F
7440-39-3	Barium	253			P
7440-41-7	Beryllium	2.3	B		P
7440-43-9	Cadmium	334			A
7440-70-2	Calcium	43200			P
7440-47-3	Chromium	334	N		P
7440-48-4	Cobalt	21.2	B	*	P
7440-50-8	Copper	293	N	*	P
7439-89-6	Iron	68200			P
7439-92-1	Lead	120	N		A
7439-95-4	Magnesium	14300	N		P
7439-96-5	Manganese	5700			P
7439-97-6	Mercury	.28	*		CV
7440-02-0	Nickel	197	*		P
7440-09-7	Potassium	6770			P
7782-49-2	Selenium	1.0	U	W N	F
7440-22-4	Silver	20.0			A
7440-23-5	Sodium	33100	*		P
7440-28-0	Thallium	3.0	U	N	F
7440-62-2	Vanadium	45.1	B		P
7440-66-6	Zinc	373			P
	Cyanide	10.0			C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

*
*
*

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

FLDBK3

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967798

Level (low/med): LW1

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	U		P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	35.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	3.0	U		A
7440-70-2	Calcium	292	U		P
7440-47-3	Chromium	10.0	U		A
7440-48-4	Cobalt	13.0	U	*	P
7440-50-8	Copper	26.5		N*	P
7439-89-6	Iron	201			P
7439-92-1	Lead	100	U	N	A
7439-95-4	Magnesium	174	U	N	P
7439-96-5	Manganese	7.5	B		P
7439-97-6	Mercury	20	U	*	CV
7440-02-0	Nickel	21.0	U	*	P
7440-09-7	Potassium	445	U		P
7782-49-2	Selenium	1.0	U	N	P
7440-22-4	Silver	20.0			A
7440-23-5	Sodium	220	U	*	P
7440-28-0	Thallium	3.0	U	N	P
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	6.9	B		P
	Cyanide	10.0	U		C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

*
*
*****John J. Molley, P.E.
Laboratory Director

H2M LABS, INC.

U.S. EPA - CLP

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(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

XXMW22

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK6R

Matrix (soil/water): WATER

Lab Sample ID: 967785

Level (low/med): LW1

Date Received: 10/06/89

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	193000			P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	36.4	S		P
7440-39-3	Barium	1230			P
7440-41-7	Beryllium	16.0			P
7440-43-9	Cadmium	13.0			A
7440-70-2	Calcium	464000			P
7440-47-3	Chromium	396	N		P
7440-48-4	Cobalt	291	*		P
7440-50-8	Copper	736	N*		P
7439-89-6	Iron	475000			P
7439-92-1	Lead	540	N		A
7439-95-4	Magnesium	135000	N		P
7439-96-5	Manganese	27700			P
7439-97-6	Mercury	1.2	*		CV
7440-02-0	Nickel	578	*		P
7440-09-7	Potassium	18100			P
7782-49-2	Selenium	1.0	U	W	N
7440-22-4	Silver	90.0			A
7440-23-5	Sodium	79900	*		P
7440-28-0	Thallium	3.0	U	W	N
7440-62-2	Vanadium	312			P
7440-66-6	Zinc	1550			P
	Cyanide	10.0	U		C

Color Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: DECEMBER 9, 1989

*
*
*

John J. Molloy, P.E.
Laboratory Director

(3) SOIL DATA

TABLE 10-2
METHODS FOR CLP AND NON-CLP
ANALYSIS OF SOILS AT
SINGER LINK

PARAMETERS =====	METHOD REFERENCE NUMBER =====	SAMPLE PRESERVATION =====	HOLDING TIME =====	CONTAINER =====	NO. OF SAMPLES** =====
TARGET COMPOUND LIST					
VOLATILE ORGANICS	CLP SOW 7/87 REV.	4°C	DAYS	(2) 40 ml VIALS w/ TEFLON LINED CAPS	31
PESTICIDES/PCB'S	CLP SOW 7/87 REV.	4°C	EXTRACT W/IN 10 DAYS ANALYZE W/IN 40 DAYS	1 PINT GLASS JAR	30
METALS					
ALUMINUM (Al)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	1 PINT GLASS JAR	30
ANTIMONY (Sb)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
ARSENIC (As)*	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
BARIUM (Ba) *	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
BERYLLIUM (Be)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
CADMIUM (Cd)*	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
CALCIUM (Ca)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
CHROMIUM (Cr)*	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
COBALT (Co)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
COPPER (Cu)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
IRON (Fe)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
LEAD (Pb)*	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
MAGNESIUM (Mg)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
MANGANESE (Mn)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
MERCURY (Hg)*	CLP SOW 7/87 REV.	HNO3 / 4°C	26 DAYS	DO.	30
NICKEL (Ni)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
POTASSIUM (K)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
SELLENIUM (Se)*	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
SILVER (Ag)*	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
SODIUM (Na)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
THALLIUM (Th)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
VANADIUM (V)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
ZINC (Zn)	CLP SOW 7/87 REV.	HNO3 / 4°C	6 MONTHS	DO.	30
CYANIDE (CN)	CLP SOW 7/87 REV.	NaOH / 4°C	14 DAYS	DO.	30
* - SAMPLES ARE TO BE ANALYZED FOR Ep TOXICITY SW-846 6010(ICP/AA) NON-CLP					DO.
NON-CLP INORGANIC ANALYSIS					
REACTIVITY	SW 846	4°C	ASAP	1 PINT GLASS JAR	10
CORROSIVITY	SW 846	4°C	ASAP	1 PINT GLASS JAR	10
IGNITIBILITY	SW 846	4°C	ASAP	1 PINT GLASS JAR	10

** INCLUDES QA/QC SAMPLES FOR CLP ANALYSIS

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF D 20-24

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL

Lab Sample ID: 964312

Sample wt/vol: 5.1166 (g/mL) G

Lab File ID: >P1343

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/22/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	12.	IU
74-83-9-----	Bromomethane	12.	IU
75-01-4-----	Vinyl Chloride	12.	IU
75-00-3-----	Chloroethane	12.	IU
75-09-2-----	Methylene Chloride	6.	IU
67-64-1-----	Acetone	12.	IU
75-15-0-----	Carbon Disulfide	6.	IU
75-35-4-----	1,1-Dichloroethene	6.	IU
75-34-3-----	1,1-Dichloroethane	6.	IU
540-59-0-----	1,2-Dichloroethene (total)	6.	IU
67-66-3-----	Chloroform	6.	IU
107-06-2-----	1,2-Dichloroethane	6.	IU
78-93-3-----	2-Butanone	12.	IU
71-55-6-----	1,1,1-Trichloroethane	9.	I B
56-23-5-----	Carbon Tetrachloride	6.	IU
108-05-4-----	Vinyl Acetate	12.	IU
75-27-4-----	Bromodichloromethane	6.	IU
78-87-5-----	1,2-Dichloropropane	6.	IU
10061-01-5-----	cis-1,3-Dichloropropene	6.	IU
79-01-6-----	Trichloroethene	8.	I
124-48-1-----	Dibromochloromethane	6.	IU
79-00-5-----	1,1,2-Trichloroethane	6.	IU
71-43-2-----	Benzene	6.	IU
10061-02-6-----	trans-1,3-Dichloropropene	6.	IU
75-25-2-----	Bromoform	6.	IU
108-10-1-----	4-Methyl-2-pentanone	12.	IU
591-78-6-----	2-Hexanone	12.	IU
127-18-4-----	Tetrachloroethene	6.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3-----	Toluene	6.	IU
108-90-7-----	Chlorobenzene	6.	IU
100-41-4-----	Ethylbenzene	6.	IU
100-42-5-----	Styrene	6.	IU
133-02-7-----	Xylene (total)	6.	IU

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF D 20-24

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964312

Sample wt/vol: 5.1166 (g/mL) G

Lab File ID: >P1343

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/22/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.37	7.	J
2.				
3.				
4.				
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30.				

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF D 20-24
RE

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964312 RE

Sample wt/vol: 5.09 (g/mL) G

Lab File ID: >P1358

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/24/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	IU
74-83-9	Bromomethane	12.	IU
75-01-4	Vinyl Chloride	12.	IU
75-00-3	Chloroethane	12.	IU
75-09-2	Methylene Chloride	6.	IU
67-64-1	Acetone	190.	I
75-15-0	Carbon Disulfide	6.	IU
75-35-4	1,1-Dichloroethene	6.	IU
75-34-3	1,1-Dichloroethane	6.	IU
540-59-0	1,2-Dichloroethene (total)	6.	IU
67-66-3	Chloroform	6.	IU
107-06-2	1,2-Dichloroethane	6.	IU
78-93-3	2-Butanone	12.	IU
71-55-6	1,1,1-Trichloroethane	70.	I B
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	12.	IU
75-27-4	Bromodichloromethane	6.	IU
78-87-5	1,2-Dichloropropane	6.	IU
10061-01-5	cis-1,3-Dichloropropene	6.	IU
79-01-6	Trichloroethene	13.	I
124-48-1	Dibromochloromethane	6.	IU
79-00-5	1,1,2-Trichloroethane	6.	IU
71-43-2	Benzene	6.	IU
10061-02-6	trans-1,3-Dichloropropene	6.	IU
75-25-2	Bromoform	6.	IU
108-10-1	4-Methyl-2-pentanone	12.	IU
591-78-6	2-Hexanone	12.	IU
127-18-4	Tetrachloroethene	6.	IU
79-34-5	1,1,2,2-Tetrachloroethane	6.	IU
108-98-3	Toluene	6.	IU
108-90-7	Chlorobenzene	6.	IU
100-41-4	Ethylbenzene	6.	IU
100-42-5	Styrene	6.	IU
133-02-7	Xylene (total)	6.	IU

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF D 20-24

RE

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964312 RE

Sample wt/vol: 5.09 (g/mL) G

Lab File ID: >P1358

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/24/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS			
2.	WERE FOUND			
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4.				
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H2M LABS, INC.

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF B 10-12

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964313

Sample wt/vol: 4.7954 (g/mL) G

Lab File ID: >P1344

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/23/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	13.	IU
74-83-9-----	Bromomethane	13.	IU
75-01-4-----	Vinyl Chloride	13.	IU
75-00-3-----	Chloroethane	13.	IU
75-09-2-----	Methylene Chloride	7.	IU
67-64-1-----	Acetone	13.	IU
75-15-0-----	Carbon Disulfide	7.	IU
75-35-4-----	1,1-Dichloroethene	7.	IU
75-34-3-----	1,1-Dichloroethane	7.	IU
540-59-0-----	1,2-Dichloroethene (total)	7.	IU
67-66-3-----	Chloroform	7.	IU
107-06-2-----	1,2-Dichloroethane	7.	IU
78-93-3-----	2-Butanone	13.	IU
71-55-6-----	1,1,1-Trichloroethane	7.	IU
56-23-5-----	Carbon Tetrachloride	7.	IU
108-05-4-----	Vinyl Acetate	13.	IU
75-27-4-----	Bromodichloromethane	7.	IU
78-87-5-----	1,2-Dichloropropane	7.	IU
10061-01-5-----	cis-1,3-Dichloropropene	7.	IU
79-01-6-----	Trichloroethene	7.	IU
124-48-1-----	Dibromochloromethane	7.	IU
79-00-5-----	1,1,2-Trichloroethane	7.	IU
71-43-2-----	Benzene	7.	IU
10061-02-6-----	trans-1,3-Dichloropropene	7.	IU
75-25-2-----	Bromoform	7.	IU
108-10-1-----	4-Methyl-2-pentanone	13.	IU
591-78-6-----	2-Hexanone	13.	IU
127-18-4-----	Tetrachloroethene	7.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	7.	IU
108-88-3-----	Toluene	7.	IU
108-90-7-----	Chlorobenzene	7.	IU
100-41-4-----	Ethylbenzene	7.	IU
100-42-5-----	Styrene	7.	IU
133-02-7-----	Xylene (total)	7.	IU

C-189

FORM I

John J. Molloy, P.E.

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF B 10-12

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964313

Sample wt/vol: 4.7954 (g/mL) G

Lab File ID: >P1344

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/23/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS			
2.	WERE FOUND			
3.				
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H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF B 10-12

RE

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964313 RE

Sample wt/vol: 4.72 (g/mL) G

Lab File ID: >P1360

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/24/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	13.	IU
74-83-9	Bromomethane	13.	IU
75-01-4	Vinyl Chloride	13.	IU
75-00-3	Chloroethane	13.	IU
75-09-2	Methylene Chloride	17.	I
67-64-1	Acetone	130.	I
75-15-0	Carbon Disulfide	7.	IU
75-35-4	1,1-Dichloroethene	7.	IU
75-34-3	1,1-Dichloroethane	7.	IU
540-59-0	1,2-Dichloroethene (total)	7.	IU
67-66-3	Chloroform	7.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	13.	IU
71-55-6	1,1,1-Trichloroethane	110.	I B
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	13.	IU
75-27-4	Bromodichloromethane	7.	IU
78-87-5	1,2-Dichloropropane	7.	IU
10061-01-5	cis-1,3-Dichloropropene	7.	IU
79-01-6	Trichloroethene	17.	I
124-48-1	Dibromochloromethane	7.	IU
79-00-5	1,1,2-Trichloroethane	7.	IU
71-43-2	Benzene	7.	IU
10061-02-6	trans-1,3-Dichloropropene	7.	IU
75-25-2	Bromoform	7.	IU
108-10-1	4-Methyl-2-pentanone	13.	IU
591-78-6	2-Hexanone	13.	IU
127-18-4	Tetrachloroethene	7.	IU
79-34-5	1,1,2,2-Tetrachloroethane	7.	IU
108-88-3	Toluene	7.	IU
108-90-7	Chlorobenzene	7.	IU
100-41-4	Ethylbenzene	7.	IU
100-42-5	Styrene	7.	IU
133-02-7	Xylene (total)	7.	IU

24

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF B 10-12

RE

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964313 RE

Sample wt/vol: 4.72 (g/mL) G

Lab File ID: >P1360

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.20

Date Analyzed: 8/24/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	12.79	7.	J
2.	Unknown	14.77	12.	J
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H2M LABS, INC.

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTF B 14-16

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964314

Sample wt/vol: 4.9732 (g/mL) G

Lab File ID: >P1345

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.18

Date Analyzed: 8/23/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	12.	IU
74-83-9-----	Bromomethane	12.	IU
75-01-4-----	Vinyl Chloride	12.	IU
75-00-3-----	Chloroethane	12.	IU
75-09-2-----	Methylene Chloride	6.	IU
67-64-1-----	Acetone	12.	IU
75-15-0-----	Carbon Disulfide	6.	IU
75-35-4-----	1,1-Dichloroethene	6.	IU
75-34-3-----	1,1-Dichloroethane	6.	IU
540-59-0-----	1,2-Dichloroethene (total)	6.	IU
67-66-3-----	Chloroform	6.	IU
107-06-2-----	1,2-Dichloroethane	6.	IU
78-93-3-----	2-Butanone	12.	IU
71-55-6-----	1,1,1-Trichloroethane	6.	IU
56-23-5-----	Carbon Tetrachloride	6.	IU
108-05-4-----	Vinyl Acetate	12.	IU
75-27-4-----	Bromodichloromethane	6.	IU
78-87-5-----	1,2-Dichloropropane	6.	IU
10061-01-5-----	cis-1,3-Dichloropropene	6.	IU
79-01-6-----	Trichloroethene	6.	IU
124-48-1-----	Dibromochloromethane	6.	IU
79-00-5-----	1,1,2-Trichloroethane	6.	IU
71-43-2-----	Benzene	6.	IU
10061-02-6-----	trans-1,3-Dichloropropene	6.	IU
75-25-2-----	Bromoform	6.	IU
108-10-1-----	4-Methyl-2-pentanone	12.	IU
591-78-6-----	2-Hexanone	12.	IU
127-18-4-----	Tetrachloroethene	6.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3-----	Toluene	6.	IU
108-90-7-----	Chlorobenzene	6.	IU
100-41-4-----	Ethylbenzene	6.	IU
100-42-5-----	Styrene	6.	IU
133-02-7-----	Xylene (total)	6.	IU

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF B 14-16

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF,D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964314

Sample wt/vol: 4.9732 (g/mL) G

Lab File ID: >P1345

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.18

Date Analyzed: 8/23/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
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H2M LABS, INC.

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTF B 14-16
RE

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964314 RE

Sample wt/vol: 4.79 (g/mL) G

Lab File ID: >P1361

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.18

Date Analyzed: 8/24/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3-----	Chloromethane	13.	IU
74-83-9-----	Bromomethane	13.	IU
75-01-4-----	Vinyl Chloride	13.	IU
75-00-3-----	Chloroethane	13.	IU
75-09-2-----	Methylene Chloride	14.	I
67-64-1-----	Acetone	220.	I
75-15-0-----	Carbon Disulfide	6.	IU
75-35-4-----	1,1-Dichloroethene	6.	IU
75-34-3-----	1,1-Dichloroethane	9.	I
540-59-0-----	1,2-Dichloroethene (total)	6.	IU
67-66-3-----	Chloroform	6.	IU
107-06-2-----	1,2-Dichloroethane	6.	IU
78-93-3-----	2-Butanone	13.	IU
71-55-6-----	1,1,1-Trichloroethane	120.	I B
56-23-5-----	Carbon Tetrachloride	6.	IU
108-05-4-----	Vinyl Acetate	13.	IU
75-27-4-----	Bromodichloromethane	6.	IU
78-87-5-----	1,2-Dichloropropane	6.	IU
10061-01-5-----	cis-1,3-Dichloropropene	6.	IU
79-01-6-----	Trichloroethene	9.	I
124-48-1-----	Dibromochloromethane	6.	IU
79-00-5-----	1,1,2-Trichloroethane	6.	IU
71-43-2-----	Benzene	6.	IU
10061-02-6-----	trans-1,3-Dichloropropene	6.	IU
75-25-2-----	Bromoform	6.	IU
108-10-1-----	4-Methyl-2-pentanone	13.	IU
591-78-6-----	2-Hexanone	13.	IU
127-18-4-----	Tetrachloroethene	6.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3-----	Toluene	6.	IU
108-90-7-----	Chlorobenzene	6.	IU
100-41-4-----	Ethylbenzene	6.	IU
100-42-5-----	Styrene	6.	IU
133-02-7-----	Xylene (total)	6.	IU

H2M LABS, INC.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF B 14-16
RE

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964314 RE

Sample wt/vol: 4.79 (g/mL) G

Lab File ID: >P1361

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.18

Date Analyzed: 8/24/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	16.56	17.	J
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H2M LABS, INC.

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTF E 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964315

Sample wt/vol: 5.1315 (g/mL) G

Lab File ID: >P1346

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.17

Date Analyzed: 8/23/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	12.	IU
74-83-9-----	Bromomethane	12.	IU
75-01-4-----	Vinyl Chloride	570.	D
75-00-3-----	Chloroethane	46000.	D
75-09-2-----	Methylene Chloride	140.	I
67-64-1-----	Acetone	520.	D
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	63.	I
75-34-3-----	1,1-Dichloroethane	22000.	D
540-59-0-----	1,2-Dichloroethene (total)	190.	I
67-66-3-----	Chloroform	6.	IU
107-06-2-----	1,2-Dichloroethane	6.	IU
78-93-3-----	2-Butanone	12.	IU
71-55-6-----	1,1,1-Trichloroethane	19000.	D
56-23-5-----	Carbon Tetrachloride	6.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	6.	IU
78-87-5-----	1,2-Dichloropropane	6.	IU
10061-01-5-----	cis-1,3-Dichloropropene	6.	IU
79-01-6-----	Trichloroethene	380.	D
124-48-1-----	Dibromochloromethane	6.	IU
79-00-5-----	1,1,2-Trichloroethane	6.	IU
71-43-2-----	Benzene	6.	IU
10061-02-6-----	trans-1,3-Dichloropropene	6.	IU
75-25-2-----	Bromoform	6.	IU
108-10-1-----	4-Methyl-2-pentanone	12.	IU
591-78-6-----	2-Hexanone	12.	IU
127-18-4-----	Tetrachloroethene	210.	I
79-34-5-----	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3-----	Toluene	920.	D
108-90-7-----	Chlorobenzene	6.	IU
100-41-4-----	Ethylbenzene	6.	IU
100-42-5-----	Styrene	6.	IU
133-02-7-----	Xylene (total)	290.	D

H2M LABS, INC.

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1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF E 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 2

Matrix: (soil/water) SOIL

Lab Sample ID: 964315

Sample wt/vol: 5.1315 (g/mL) G

Lab File ID: >P1346

Level: (low/med) LOW

Date Received: 08/18/89

% Moisture: not dec.17

Date Analyzed: 8/23/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dimethyl Octane isomer	13.36	2300.	J
2.	Methyl Propenyl Cyclopentane	13.87	3600.	J
3.	Dimethyl Octane isomer	14.22	2800.	J
4.	Dimethyl Decane isomer	14.83	22000.	J
5.	Methyl Decane isomer	15.19	7900.	J
6.	Unknown	15.92	13000.	J
7.	Unknown	16.10	3900.	J
8. 1120214	Undecane (8CI9CI)	16.61	24000.	J
9.	Unknown	17.42	2500.	J
10.	Unknown	17.61	5600.	J
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H2M LABS, INC.

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF E 10-12
EXTRACT

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964315 EX

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >P1364

Level: (low/med) MED

Date Received: 8/18/89

% Moisture: not dec.17

Date Analyzed: 8/24/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	15000.	IU
74-83-9	Bromomethane	15000.	IU
75-01-4	Vinyl Chloride	15000.	IU
75-00-3	Chloroethane	15000.	IU
75-09-2	Methylene Chloride	7500.	IU
67-64-1	Acetone	15000.	IU
75-15-0	Carbon Disulfide	7500.	IU
75-35-4	1,1-Dichloroethene	7500.	IU
75-34-3	1,1-Dichloroethane	26000.	I
540-59-0	1,2-Dichloroethene (total)	7500.	IU
67-66-3	Chloroform	7500.	IU
107-06-2	1,2-Dichloroethane	7500.	IU
78-93-3	2-Butanone	15000.	IU
71-55-6	1,1,1-Trichloroethane	31000.	I B
56-23-5	Carbon Tetrachloride	7500.	IU
108-05-4	Vinyl Acetate	15000.	IU
75-27-4	Bromodichloromethane	7500.	IU
78-87-5	1,2-Dichloropropane	7500.	IU
10061-01-5	cis-1,3-Dichloropropene	7500.	IU
79-01-6	Trichloroethene	7500.	IU
124-48-1	Dibromochloromethane	7500.	IU
79-00-5	1,1,2-Trichloroethane	7500.	IU
71-43-2	Benzene	7500.	IU
10061-02-6	trans-1,3-Dichloropropene	7500.	IU
75-25-2	Bromoform	7500.	IU
108-10-1	4-Methyl-2-pentanone	15000.	IU
591-78-6	2-Hexanone	15000.	IU
127-18-4	Tetrachloroethene	7500.	IU
79-34-5	1,1,2,2-Tetrachloroethane	7500.	IU
108-88-3	Toluene	7500.	IU
108-90-7	Chlorobenzene	7500.	IU
100-41-4	Ethylbenzene	7500.	IU
100-42-5	Styrene	7500.	IU
133-02-7	Xylene (total)	7500.	IU

Handwritten signature

H2M LABS, INC.

1E

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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF E 10-22

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 2

Matrix: (soil/water) EXTRACT

Lab Sample ID: 964315

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >P1364

Level: (low/med) MED

Date Received: 08/18/89

% Moisture: not dec.17

Date Analyzed: 8/24/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

Number TICs found: 6

(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dimethyl Decane isomer	14.79	23000.	J
2.	Unknown	15.18	14000.	J
3.	Unknown	15.92	18000.	J
4.	Unknown	16.09	7500.	J
5. 1120214	Undecane (8CI9CI)	16.57	48000.	J
6.	Unknown	16.79	9000.	J
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John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTF E 12-14

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964316

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: >P1347

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.15

Date Analyzed: 8/23/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	13. IU
74-83-9	Bromomethane	13. IU
75-01-4	Vinyl Chloride	13. IU
75-00-3	Chloroethane	480. D
75-09-2	Methylene Chloride	34. IU
67-64-1	Acetone	13. IU
75-15-0	Carbon Disulfide	7. IU
75-35-4	1,1-Dichloroethene	47. IU
75-34-3	1,1-Dichloroethane	2600. D
540-59-0	1,2-Dichloroethene (total)	7. IU
67-66-3	Chloroform	7. IU
107-06-2	1,2-Dichloroethane	61. IU
78-93-3	2-Butanone	13. IU
71-55-6	1,1,1-Trichloroethane	14000. D
56-23-5	Carbon Tetrachloride	7. IU
108-05-4	Vinyl Acetate	13. IU
75-27-4	Bromodichloromethane	7. IU
78-87-5	1,2-Dichloropropane	7. IU
10061-01-5	cis-1,3-Dichloropropene	7. IU
79-01-6	Trichloroethene	88. IU
124-48-1	Dibromochloromethane	7. IU
79-00-5	1,1,2-Trichloroethane	51. IU
71-43-2	Benzene	7. IU
10061-02-6	trans-1,3-Dichloropropene	7. IU
75-25-2	Bromoform	7. IU
108-10-1	4-Methyl-2-pentanone	13. IU
591-78-6	2-Hexanone	13. IU
127-18-4	Tetrachloroethene	52. IU
79-34-5	1,1,2,2-Tetrachloroethane	7. IU
108-88-3	Toluene	300. D
108-90-7	Chlorobenzene	7. IU
100-41-4	Ethylbenzene	20. IU
100-42-5	Styrene	7. IU
133-02-7	Xylene (total)	89. IU

H2M LABS, INC.

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1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF E 12-14

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 2

Matrix: (soil/water) SOIL

Lab Sample ID: 964316

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: >P1347

Level: (low/med) LOW

Date Received: 08/18/99

% Moisture: not dec.15

Date Analyzed: 8/23/99

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2.	Methyl Propenyl Cyclopentane	13.87	280.	J
3.	Dimethyl Octane isomer	14.20	300.	J
4. 124185	Decane (8CI19CI)	14.79	2700.	J
5.	Methyl Decane isomer	15.15	1000.	J
6.	Unknown	15.90	2400.	J
7.	Methyl Decane isomer	16.07	520.	J
8. 1120214	Undecane (8CI19CI)	16.57	4900.	J
9.	Dimethyl Undecane isomer	17.40	450.	J
10.	Unknown	17.92	360.	J
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John J. Minion

John J. Minion, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF E 12-14

EX

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964316 EX

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >P1365

Level: (low/med) MED

Date Received: 8/18/89

% Moisture: not dec.15

Date Analyzed: 8/24/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15000.	IU
74-83-9	Bromomethane	15000.	IU
75-01-4	Vinyl Chloride	15000.	IU
75-00-3	Chloroethane	15000.	IU
75-09-2	Methylene Chloride	7400.	IU
67-64-1	Acetone	15000.	IU
75-15-0	Carbon Disulfide	7400.	IU
75-35-4	1,1-Dichloroethene	7400.	IU
75-34-3	1,1-Dichloroethane	7400.	IU
540-59-0	1,2-Dichloroethene (total)	7400.	IU
67-66-3	Chloroform	7400.	IU
107-06-2	1,2-Dichloroethane	7400.	IU
78-93-3	2-Butanone	15000.	IU
71-55-6	1,1,1-Trichloroethane	45000.	I B
56-23-5	Carbon Tetrachloride	7400.	IU
108-05-4	Vinyl Acetate	15000.	IU
75-27-4	Bromodichloromethane	7400.	IU
78-87-5	1,2-Dichloropropane	7400.	IU
10061-01-5	cis-1,3-Dichloropropene	7400.	IU
79-01-6	Trichloroethene	7400.	IU
124-48-1	Dibromochloromethane	7400.	IU
79-00-5	1,1,2-Trichloroethane	7400.	IU
71-43-2	Benzene	7400.	IU
10061-02-6	trans-1,3-Dichloropropene	7400.	IU
75-25-2	Bromoform	7400.	IU
108-10-1	4-Methyl-2-pentanone	15000.	IU
591-78-6	2-Hexanone	15000.	IU
127-18-4	Tetrachloroethene	7400.	IU
79-34-5	1,1,2,2-Tetrachloroethane	7400.	IU
108-88-3	Toluene	7400.	IU
108-90-7	Chlorobenzene	7400.	IU
100-41-4	Ethylbenzene	7400.	IU
100-42-5	Styrene	7400.	IU
133-02-7	Xylene (total)	7400.	IU

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF E 12-14

EX

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964316 EX

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >P1365

Level: (low/med) MED

Date Received: 8/18/89

% Moisture: not dec.15

Date Analyzed: 8/24/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	16.55	13000.	J
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John J. Molloy, P.E.
Laboratory Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTF N 8-12

Lab Name: R2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 2

Matrix: (soil/water) SOIL

Lab Sample ID: 964317

Sample wt/Vol: 4.3672 (g/mL) G

Lab File ID: >P1348

Level: (low/med) LOW

Date Received: -----

% Moisture: not dec.63

Date Analyzed: 8/23/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	31.	10
74-83-9	Bromomethane	31.	10
75-01-4	Vinyl Chloride	31.	10
75-00-3	Chloroethane	31.	10
75-09-2	Methylene Chloride	15.	10
67-64-1	Acetone	1100.	D
75-15-0	Carbon Disulfide	25.	
75-35-4	1,1-Dichloroethene	15.	10
75-34-3	1,1-Dichloroethane	49.	
540-59-0	1,2-Dichloroethene (total)	15.	10
67-66-3	Chloroform	15.	10
107-06-2	1,2-Dichloroethane	15.	10
78-93-3	2-Butanone	480.	
71-55-6	1,1,1-Trichloroethane	450.	
56-23-5	Carbon Tetrachloride	15.	10
108-05-4	Vinyl Acetate	31.	10
75-27-4	Bromodichloromethane	15.	10
78-87-5	1,2-Dichloropropane	15.	10
10061-01-5	cis-1,3-Dichloropropene	15.	10
79-01-6	Trichloroethene	15.	10
124-48-1	Dibromochloromethane	15.	10
79-00-5	1,1,2-Trichloroethane	15.	10
71-43-2	Benzene	15.	10
10061-02-6	trans-1,3-Dichloropropene	15.	10
75-25-2	Bromoform	15.	10
108-10-1	4-Methyl-2-pentanone	31.	10
591-78-6	2-Hexanone	31.	10
127-18-4	Tetrachloroethene	15.	10
79-34-5	1,1,2,2-Tetrachloroethane	15.	10
108-88-3	Toluene	160.	
108-90-7	Chlorobenzene	15.	10
100-41-4	Ethylbenzene	51.	
100-42-5	Styrene	15.	10
133-02-7	Xylene (total)	290.	

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC.

Contract: -----

OTF N 8-12

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 2

Matrix: (soil/water) SOIL

Lab Sample ID: 964317

Sample wt/vol: 4.3672 (g/mL) G

Lab File ID: >P1348

Level: (low/med) LOW

Date Received: 08/18/89

% Moisture: not dec.63

Date Analyzed: 8/23/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108872	Cyclohexane, methyl- (8CI9CI)	7.96	1000.	J
2.	Tetramethyl Cyclopentane iso	11.39	1300.	J
3.	Methyl Octane isomer	11.85	1100.	J
4.	Dimethyl Octane isomer	14.21	2600.	J
5. 124185	Decane (8CI9CI)	14.80	17000.	J
6.	Methyl Decane isomer	15.18	5600.	J
7.	Methyl Decane isomer	15.90	8800.	J
8.	Methyl Decane isomer	16.09	2600.	J
9. 1120214	Undecane (8CI9CI)	16.59	18000.	J
10.	Trimethyl Decane isomer	17.40	1600.	J
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John J. Molloy, PE
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF N 8-12

DL

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) SOIL

Lab Sample ID: 964317 DL

Sample wt/vol: 1.202 (g/mL) G

Lab File ID: >P1359

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.63

Date Analyzed: 8/24/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	110. IU
74-83-9	Bromomethane	110. IU
75-01-4	Vinyl Chloride	110. IU
75-00-3	Chloroethane	110. IU
75-09-2	Methylene Chloride	56. IU
67-64-1	Acetone	1900. IU
75-15-0	Carbon Disulfide	300. IU
75-35-4	1,1-Dichloroethene	56. IU
75-34-3	1,1-Dichloroethane	56. IU
540-59-0	1,2-Dichloroethene (total)	56. IU
67-66-3	Chloroform	56. IU
107-06-2	1,2-Dichloroethane	56. IU
78-93-3	2-Butanone	110. IU
71-55-6	1,1,1-Trichloroethane	1400. IU B
56-23-5	Carbon Tetrachloride	56. IU
108-05-4	Vinyl Acetate	110. IU
75-27-4	Bromodichloromethane	56. IU
78-87-5	1,2-Dichloropropane	56. IU
10061-01-5	cis-1,3-Dichloropropene	56. IU
79-01-6	Trichloroethene	56. IU
124-48-1	Dibromochloromethane	56. IU
79-00-5	1,1,2-Trichloroethane	56. IU
71-43-2	Benzene	56. IU
10061-02-6	trans-1,3-Dichloropropene	56. IU
75-25-2	Bromoform	56. IU
108-10-1	4-Methyl-2-pentanone	110. IU
591-78-6	2-Hexanone	110. IU
127-18-4	Tetrachloroethene	56. IU
79-34-5	1,1,2,2-Tetrachloroethane	56. IU
108-88-3	Toluene	100. IU
108-90-7	Chlorobenzene	56. IU
100-41-4	Ethylbenzene	56. IU
100-42-5	Styrene	56. IU
133-02-7	Xylene (total)	56. IU

H2M LABS, INC.

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OTF N 8-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 2

Matrix: (soil/water) SOIL

Lab Sample ID: 964317 DL

Sample wt/vol: 1.202 (g/mL) G

Lab File ID: >P1359

Level: (low/med) LOW

Date Received: 08/18/89

% Moisture: not dec.63

Date Analyzed: 8/24/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dimethyl Octane isomer	13.36	4100.	J
2.	Methyl Propenyl Cyclopentane	13.87	5300.	J
3.	Dimethyl Octane isomer	14.22	4300.	J
4. 124185	Decane (8CI9CI)	14.80	29000.	J
5.	Methyl Decane isomer	15.17	12000.	J
6.	Unknown	15.91	15000.	J
7.	Methyl Decane isomer	16.09	4800.	J
8. 1120214	Undecane (8CI9CI)	16.58	31000.	J
9.	Unknown	16.79	11000.	J
10.	Methyl Undecane isomer	16.99	5800.	J
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John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

FIELD BLANK

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER

Lab Sample ID: 964318

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1337

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.0

Date Analyzed: 8/22/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene_Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene_(total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

C-209

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

FIELD BLANK

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) WATER

Lab Sample ID: 964318

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1337

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec.0

Date Analyzed: 8/22/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	16.64	6.	J
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21.		*****	*****	
22.		John J. Molloy, P.E.		
23.		Laboratory Director		
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H2M LABS, INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-4120 FAX (516) 694-4122

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER

Lab Sample ID: 964319

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1338

Level: (low/med) LOW

Date Received: 8/16/89

% Moisture: not dec. 0

Date Analyzed: 8/22/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

TRIP BLANK

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF D 20-24

Matrix: (soil/water) WATER

Lab Sample ID: 964319

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1338

Level: (low/med) LOW

Date Received: 8/18/89

% Moisture: not dec. 0

Date Analyzed: 8/22/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
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John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

OTFL J 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963289

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: >P1201

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.58

Date Analyzed: 8/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3-----	Chloromethane	24.	IU
74-83-9-----	Bromomethane	24.	IU
75-01-4-----	Vinyl Chloride	24.	IU
75-00-3-----	Chloroethane	24.	IU
75-09-2-----	Methylene Chloride	30.	I
67-64-1-----	Acetone	590.	D
75-15-0-----	Carbon Disulfide	16.	I
75-35-4-----	1,1-Dichloroethene	12.	IU
75-34-3-----	1,1-Dichloroethane	12.	IU
540-59-0-----	1,2-Dichloroethene (total)	12.	IU
67-66-3-----	Chloroform	12.	IU
107-06-2-----	1,2-Dichloroethane	12.	IU
78-93-3-----	2-Butanone	97.	I
71-55-6-----	1,1,1-Trichloroethane	58.	I
56-23-5-----	Carbon Tetrachloride	12.	IU
108-05-4-----	Vinyl Acetate	24.	IU
75-27-4-----	Bromodichloromethane	12.	IU
78-87-5-----	1,2-Dichloropropane	12.	IU
10061-01-5-----	cis-1,3-Dichloropropene	12.	IU
79-01-6-----	Trichloroethene	90.	I
124-48-1-----	Dibromochloromethane	12.	IU
79-00-5-----	1,1,2-Trichloroethane	12.	IU
71-43-2-----	Benzene	12.	IU
10061-02-6-----	trans-1,3-Dichloropropene	12.	IU
75-25-2-----	Bromoform	12.	IU
108-10-1-----	4-Methyl-2-pentanone	24.	IU
591-78-6-----	2-Hexanone	24.	IU
127-18-4-----	Tetrachloroethene	12.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	12.	IU
108-88-3-----	Toluene	12.	IU
108-90-7-----	Chlorobenzene	12.	IU
100-41-4-----	Ethylbenzene	12.	IU
100-42-5-----	Styrene	12.	IU
133-02-7-----	Xylene (total)	12.	IU

DATE REPORTED: SEP 27 1989

FORM 1 C-213

John J. Meehan, P.E. 1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF J 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: I the S

Matrix: (soil/water) SOIL

Lab Sample ID: 963289

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: >P1201

Level: (low/med) LOW

Date Received: 08/03/89

% Moisture: not dec.58

Date Analyzed: 8/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108872	Cyclohexane, methyl- (8CI9CI)	7.98	2500.	J
2.	Dimethyl Octane isomer	13.37	3600.	J
3.	Methyl Propyl Cyclohexane is	13.90	4800.	J
4.	Dimethyl Octane isomer	14.24	3800.	J
5. 124185	Decane (8CI9CI)	14.82	14000.	J
6.	Dimethyl Octane isomer	15.20	5800.	J
7.	Methyl Decane isomer	15.91	9100.	J
8. 1120214	Undecane (8CI9CI)	16.60	7200.	J
9.	Unknown	17.42	1900.	J
10.	Unknown	17.61	6400.	J
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DATE REPORTED: Sep 27 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTF J 10-12 DL

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J

Matrix: (soil/water) SOIL

Lab Sample ID: 963289 DL

Sample wt/vol: 2.6 (g/mL) G

Lab File ID: >P1217

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.58

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/KG

Q

74-87-3-----	Chloromethane	46.	IU
74-83-9-----	Bromomethane	46.	IU
75-01-4-----	Vinyl Chloride	46.	IU
75-00-3-----	Chloroethane	46.	IU
75-09-2-----	Methylene_Chloride	23.	D
67-64-1-----	Acetone	520.	
75-15-0-----	Carbon Disulfide	56.	
75-35-4-----	1,1-Dichloroethene	23.	IU
75-34-3-----	1,1-Dichloroethane	23.	IU
540-59-0-----	1,2-Dichloroethene_(total)	23.	IU
67-66-3-----	Chloroform	23.	IU
107-06-2-----	1,2-Dichloroethane	23.	IU
78-93-3-----	2-Butanone	54.	
71-55-6-----	1,1,1-Trichloroethane	640.	
56-23-5-----	Carbon Tetrachloride	23.	IU
108-05-4-----	Vinyl Acetate	46.	IU
75-27-4-----	Bromodichloromethane	23.	IU
78-87-5-----	1,2-Dichloropropane	23.	IU
10061-01-5-----	cis-1,3-Dichloropropene	23.	IU
79-01-6-----	Trichloroethene	630.	
124-48-1-----	Dibromochloromethane	23.	IU
79-00-5-----	1,1,2-Trichloroethane	23.	IU
71-43-2-----	Benzene	23.	IU
10061-02-6-----	trans-1,3-Dichloropropene	23.	IU
75-25-2-----	Bromoform	23.	IU
108-10-1-----	4-Methyl-2-pentanone	46.	IU
591-78-6-----	2-Hexanone	46.	IU
127-18-4-----	Tetrachloroethene	23.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	23.	IU
108-88-3-----	Toluene	23.	IU
108-90-7-----	Chlorobenzene	23.	IU
100-41-4-----	Ethylbenzene	23.	IU
100-42-5-----	Styrene	23.	IU
133-02-7-----	Xylene (total)	*****	*****

DATE REPORTED: SEP 27 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OTF J 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL

Lab Sample ID: 963289 DL

Sample wt/vol: 2.6 (g/mL) G

Lab File ID: >P1217

Level: (low/med) LOW

Date Received: 08/03/89

% Moisture: not dec.58

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	Dimethyl Octane isomer	13.35	2900.	J
2.	Ethyl Methyl Heptane isomer	13.61	2800.	J
3.	Methyl Propyl Cyclohexane is	13.87	4300.	J
4.	Dimethyl Octane isomer	14.20	3400.	J
5. 124185	Decane (8CI9CI)	14.78	9900.	J
6.	Dimethyl Octane isomer	15.16	5700.	J
7.	Methyl Decane isomer	15.88	7800.	J
8. 1120214	Undecane (8CI9CI)	16.57	6800.	J
9.	Unknown	17.39	1800.	J
10.	Unknown	17.59	5200.	J
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**** **

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTFL J 14-16

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963290

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >P1202

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.20

Date Analyzed: 8/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/KG

Q

CAS NO.	COMPOUND		
74-87-3-----	Chloromethane	13.	IU
74-83-9-----	Bromomethane	13.	IU
75-01-4-----	Vinyl Chloride	13.	IU
75-00-3-----	Chloroethane	13.	IU
75-09-2-----	Methylene Chloride	6.	IU
67-64-1-----	Acetone	13.	IU
75-15-0-----	Carbon Disulfide	4.	IJ
75-35-4-----	1,1-Dichloroethene	6.	IU
75-34-3-----	1,1-Dichloroethane	6.	IU
540-59-0-----	1,2-Dichloroethene (total)	6.	IU
67-66-3-----	Chloroform	6.	IU
107-06-2-----	1,2-Dichloroethane	6.	IU
78-93-3-----	2-Butanone	13.	IU
71-55-6-----	1,1,1-Trichloroethane	2.	IJ
56-23-5-----	Carbon Tetrachloride	6.	IU
108-05-4-----	Vinyl Acetate	13.	IU
75-27-4-----	Bromodichloromethane	6.	IU
78-87-5-----	1,2-Dichloropropane	6.	IU
10061-01-5-----	cis-1,3-Dichloropropene	6.	IU
79-01-6-----	Trichloroethene	10.	I
124-48-1-----	Dibromochloromethane	6.	IU
79-00-5-----	1,1,2-Trichloroethane	6.	IU
71-43-2-----	Benzene	6.	IU
10061-02-6-----	trans-1,3-Dichloropropene	6.	IU
75-25-2-----	Bromoform	6.	IU
108-10-1-----	4-Methyl-2-pentanone	13.	IU
591-78-6-----	2-Hexanone	13.	IU
127-18-4-----	Tetrachloroethene	6.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3-----	Toluene	27.	I
108-90-7-----	Chlorobenzene	6.	IU
100-41-4-----	Ethylbenzene	6.	IU
100-42-5-----	Styrene	6.	IU
133-02-7-----	Xylene (total)	*****6*****	IU

DATE REPORTED: SEP 21 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF J 14-16

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL

Lab Sample ID: 963290

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >P1202

Level: (low/med) LOW

Date Received: 08/03/89

% Moisture: not dec.20

Date Analyzed: 8/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108872	Cyclohexane, methyl- (8CI9CI)	7.96	200.	J
2.	Dimethyl Octane isomer	13.34	170.	J
3.	Methyl Propyl Cyclohexane is	13.87	250.	J
4.	Dimethyl Octane isomer	14.20	160.	J
5. 124185	Decane (8CI9CI)	14.77	790.	J
6.	Methyl Decane isomer	15.16	450.	J
7.	Methyl Decane isomer	15.88	710.	J
8. 1120214	Undecane (8CI9CI)	16.57	970.	J
9.	Ethyl Methyl Heptane isomer	17.39	290.	J
10.	Decahydro Methyl Naphthalene	17.92	240.	J
11.				
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FORM I VOA-TIC

1/87 Rev.

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*
DATE REPORTED: SEP 27 1989

John J. Molloy, P.E.
Laboratory Director

25

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTFL L 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963291

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: >P1203

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.44

Date Analyzed: 8/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3-----	Chloromethane	17.	IU
74-83-9-----	Bromomethane	17.	IU
75-01-4-----	Vinyl Chloride	17.	IU
75-00-3-----	Chloroethane	17.	IU
75-09-2-----	Methylene Chloride	8.	IU
67-64-1-----	Acetone	17.	IU
75-15-0-----	Carbon Disulfide	8.	IU
75-35-4-----	1,1-Dichloroethene	8.	IU
75-34-3-----	1,1-Dichloroethane	8.	IU
540-59-0-----	1,2-Dichloroethene (total)	8.	IU
67-66-3-----	Chloroform	8.	IU
107-06-2-----	1,2-Dichloroethane	8.	IU
78-93-3-----	2-Butanone	17.	IU
71-55-6-----	1,1,1-Trichloroethane	7.	IJ
56-23-5-----	Carbon Tetrachloride	8.	IU
108-05-4-----	Vinyl Acetate	17.	IU
75-27-4-----	Bromodichloromethane	8.	IU
78-87-5-----	1,2-Dichloropropane	8.	IU
10061-01-5-----	cis-1,3-Dichloropropene	8.	IU
79-01-6-----	Trichloroethene	10.	I
124-48-1-----	Dibromochloromethane	8.	IU
79-00-5-----	1,1,2-Trichloroethane	8.	IU
71-43-2-----	Benzene	8.	IU
10061-02-6-----	trans-1,3-Dichloropropene	8.	IU
75-25-2-----	Bromoform	8.	IU
108-10-1-----	4-Methyl-2-pentanone	17.	IU
591-78-6-----	2-Hexanone	17.	IU
127-18-4-----	Tetrachloroethene	8.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	8.	IU
108-88-3-----	Toluene	8.	IU
108-90-7-----	Chlorobenzene	8.	IU
100-41-4-----	Ethylbenzene	8.	IU
100-42-5-----	Styrene	8.	IU
133-02-7-----	Xylene (total)	8.	IU

DATE REPORTED: SEP 27 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF L 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTF, J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963291

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: >P1203

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 44

Date Analyzed: 8/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
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DATE REPORTED: SEP 27 1989 John J. Malloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTFL H 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: -----SAS No.: -----

SOG No.: OTFL J 10-12

Matrix: (soil/water) SDIL

Lab Sample ID: 963292

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: >P1204

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 8

Date Analyzed: 8/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	11.	10
74-83-9	Bromomethane	11.	10
75-01-4	Vinyl Chloride	11.	10
75-00-3	Chloroethane	11.	10
75-09-2	Methylene Chloride	5.	10
67-64-1	Acetone	11.	10
75-16-0	Carbon Disulfide	5.	10
75-35-4	1,1-Dichloroethene	5.	10
75-34-3	1,1-Dichloroethane	5.	10
540-69-0	1,2-Dichloroethene (total)	5.	10
67-66-3	Chloroform	5.	10
107-06-2	1,2-Dichloroethane	5.	10
78-93-3	2-Butanone	11.	10
71-55-6	1,1,1-Trichloroethane	5.	10
56-23-5	Carbon Tetrachloride	5.	10
108-05-4	Vinyl Acetate	11.	10
75-27-4	Bromodichloromethane	5.	10
78-87-5	1,2-Dichloropropane	5.	10
10061-01-5	cis-1,3-Dichloropropene	5.	10
79-01-6	Trichloroethane	9.	10
104-48-1	Dibromochloromethane	5.	10
79-00-5	1,1,2-Trichloroethane	5.	10
71-43-2	Benzene	5.	10
10061-02-6	trans-1,3-Dichloropropene	5.	10
75-26-2	Bromoform	5.	10
108-10-1	4-Methyl-2-pentanone	11.	10
591-78-6	2-Hexanone	11.	10
107-18-4	Tetrachloroethane	5.	10
79-34-5	1,1,2,2-Tetrachloroethane	5.	10
108-88-3	Toluene	5.	10
108-90-7	Chlorobenzene	5.	10
100-41-4	Ethylbenzene	5.	10
100-42-5	Styrene	5.	10
133-02-7	Xylene (total)	5.	10

C-221

REPORTED: SEP 27 1989

28

* Initials *

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF H 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963292

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: >P1204

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.8

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS. NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	3.83	25.	JB
2.				
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John J. Molloy

John J. Molloy, P.E.
Laboratory Director

DATE REPORTED: SE. 11. 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC.

Contract: -----

OTFL H 18-20

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963293

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: >P1205

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.16

Date Analyzed: 8/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q

74-87-3-----	Chloromethane	11.	IU
74-83-9-----	Bromomethane	11.	IU
75-01-4-----	Vinyl Chloride	11.	IU
75-00-3-----	Chloroethane	11.	IU
75-09-2-----	Methylene Chloride	6.	IU
67-64-1-----	Acetone	11.	IU
75-15-0-----	Carbon Disulfide	6.	IU
75-35-4-----	1,1-Dichloroethene	6.	IU
75-34-3-----	1,1-Dichloroethane	6.	IU
540-59-0-----	1,2-Dichloroethene (total)	6.	IU
67-66-3-----	Chloroform	6.	IU
107-06-2-----	1,2-Dichloroethane	6.	IU
78-93-3-----	2-Butanone	11.	IU
71-55-6-----	1,1,1-Trichloroethane	6.	IU
56-23-5-----	Carbon Tetrachloride	6.	IU
108-05-4-----	Vinyl Acetate	11.	IU
75-27-4-----	Bromodichloromethane	6.	IU
78-87-5-----	1,2-Dichloropropane	6.	IU
10061-01-5-----	cis-1,3-Dichloropropene	6.	IU
79-01-6-----	Trichloroethene	4.	IJ
124-48-1-----	Dibromochloromethane	6.	IU
79-00-5-----	1,1,2-Trichloroethane	6.	IU
71-43-2-----	Benzene	6.	IU
10061-02-6-----	trans-1,3-Dichloropropene	6.	IU
75-25-2-----	Bromoform	6.	IU
108-10-1-----	4-Methyl-2-pentanone	11.	IU
591-78-6-----	2-Hexanone	11.	IU
127-18-4-----	Tetrachloroethene	6.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3-----	Toluene	6.	IU
108-90-7-----	Chlorobenzene	6.	IU
100-41-4-----	Ethylbenzene	6.	IU
100-42-5-----	Styrene	6.	IU
133-02-7-----	Xylene (total)	6.	IU

DATE REPORTED: SEP 6 1989

FORM C-223

John J. Molloy, P.E.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF H 18-20

Lab Name: H2M LABS, INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963293

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: >P1205

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.16

Date Analyzed: 8/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS. NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	3.82	11.	JB
2.				
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DATE REPORTED: SEP 27 1989

John J. Molloy, P.E. 21
Laboratory Director

FORM C-224 IC

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

19
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTFL I 10-12

Lab Code: HP001

Case No.: ----- SAS No.: -----

SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963294

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: >P1206

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 18

Date Analyzed: 8/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

Q

CAS NO.	COMPOUND		
74-87-3	Chloromethane	13.	10
74-83-9	Bromomethane	13.	10
75-01-4	Vinyl Chloride	13.	10
75-00-3	Chloroethane	13.	10
75-09-2	Methylene Chloride	6.	10
67-64-1	Acetone	13.	10
75-15-0	Carbon Disulfide	6.	10
75-35-4	1,1-Dichloroethene	6.	10
75-34-3	1,1-Dichloroethane	6.	10
540-59-0	1,2-Dichloroethene (total)	6.	10
67-66-3	Chloroform	6.	10
107-06-2	1,2-Dichloroethane	6.	10
78-93-3	2-Butanone	13.	10
71-55-6	1,1,1-Trichloroethane	6.	10
56-23-5	Carbon Tetrachloride	6.	10
108-05-4	Vinyl Acetate	13.	10
75-27-4	Bromodichloromethane	6.	10
78-87-5	1,2-Dichloropropane	6.	10
10061-01-5	cis-1,3-Dichloropropene	6.	10
79-01-6	Trichloroethene	16.	1
124-48-1	Dibromochloromethane	6.	10
79-00-5	1,1,2-Trichloroethane	6.	10
71-43-2	Benzene	6.	10
10061-02-6	trans-1,3-Dichloropropene	6.	10
75-26-2	Bromoform	6.	10
108-10-1	4-Methyl-2-pentanone	13.	10
991-78-6	2-Hexanone	13.	10
127-18-4	Tetrachloroethene	6.	10
79-34-6	1,1,2,2-Tetrachloroethane	6.	10
108-88-3	Toluene	6.	10
108-90-7	Chlorobenzene	6.	10
100-41-4	Ethylbenzene	6.	10
100-42-5	Styrene	6.	10
133-82-7	Xylene (total)		

C-225 EXPORTED: SEP 27 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC.

Contract: -----

OTF I 10-12

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963294

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: >P1206

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.18

Date Analyzed: 8/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Trichloro Trifluoro Methane	3.82	14.	J
2.	Unknown	14.02	88.	J*
3.	Unknown	16.63	170.	J*
4.				
5.				
6.				
7.	* TIC is suspected to be			
8.	column bleed			
9.				
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DATE REPORTED: Sep

John J. Molloy, P.E. 33
Laboratory Director
1/82 Rev.

C-226

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTFL I 20-44

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: -----

SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963295

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: >P1207

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.36

Date Analyzed: 8/09/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/KG

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
74-87-3	Chloromethane	14.	IU
74-83-9	Bromomethane	14.	IU
75-01-4	Vinyl Chloride	14.	IU
75-00-3	Chloroethane	14.	IU
75-09-2	Methylene Chloride	7.	IU
67-64-1	Acetone	110.	IU
75-15-0	Carbon Disulfide	7.	IU
75-35-4	1,1-Dichloroethene	7.	IU
75-34-3	1,1-Dichloroethane	7.	IU
540-59-0	1,2-Dichloroethene (total)	7.	IU
67-66-3	Chloroform	7.	IU
107-06-2	1,2-Dichloroethane	7.	IU
78-93-3	2-Butanone	14.	IU
71-55-6	1,1,1-Trichloroethane	7.	IU
56-23-5	Carbon Tetrachloride	7.	IU
108-05-4	Vinyl Acetate	14.	IU
75-27-4	Bromodichloromethane	7.	IU
78-87-5	1,2-Dichloropropane	7.	IU
10061-01-5	cis-1,3-Dichloropropene	7.	IU
79-01-6	Trichloroethene	17.	IU
124-48-1	Dibromochloromethane	7.	IU
79-00-5	1,1,2-Trichloroethane	7.	IU
71-43-2	Benzene	7.	IU
10061-02-6	trans-1,3-Dichloropropene	7.	IU
75-25-2	Bromoform	7.	IU
108-10-1	4-Methyl-2-pentanone	14.	IU
591-78-6	2-Hexanone	14.	IU
127-18-4	Tetrachloroethene	7.	IU
79-34-5	1,1,2,2-Tetrachloroethane	7.	IU
108-88-3	Toluene	7.	IU
108-90-7	Chlorobenzene	7.	IU
100-41-4	Ethylbenzene	7.	IU
100-42-5	Styrene	7.	IU
133-02-7	Xylene (total)	7.	IU

DATE REPORTED: SEP 2 1989

John J. Maloney

1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC.

Contract: -----

OTF I 20-44

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTF, J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963295

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: >P1207

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 36

Date Analyzed: 8/09/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
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30.				

DATE REPORTED: Sep 6 1989

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTFL C 10-12

Name: H2M LABS, INC.

Contract: -----

Code: H2M Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SDIL

Lab Sample ID: 963296

Sample Weight: 5.1 (g/mL) G

Lab File ID: >P1208

Well: (borehole) LDM

Date Received: 8/03/89

Moisture: not dec. 23

Date Analyzed: 9/10/89

Turn: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS:	Q
74-83-9	Chloromethane	13. IU	
74-83-9	Bromomethane	13. IU	
75-01-2	Vinyl Chloride	13. IU	
75-00-3	Chloroethane	13. IU	
75-09-0	Methylene Chloride	13. IU	
67-64-1	Acetone	13. IU	
75-15-0	Carbon Disulfide	6. IU	
75-35-4	1,1-Dichloroethene	6. IU	
75-34-3	1,1-Dichloroethane	6. IU	
540-69-0	1,2-Dichloroethene (total)	6. IU	
67-66-3	Chloroform	6. IU	
107-06-2	1,2-Dichloroethane	6. IU	
78-93-3	2-Butanone	13. IU	
71-55-6	1,1,1-Trichloroethane	6. IU	
56-23-5	Carbon Tetrachloride	6. IU	
108-05-4	Vinyl Acetate	13. IU	
68-07-1	Bromodichloromethane	6. IU	
78-87-5	1,2-Dichloropropane	6. IU	
10061-01-5	cis-1,3-Dichloropropene	6. IU	
78-01-6	Trichloroethene	5. IU	
111-48-1	Dibromochloromethane	6. IU	
79-00-5	1,1,2-Trichloroethane	6. IU	
71-43-2	Benzene	6. IU	
10061-02-6	trans-1,3-Dichloropropene	6. IU	
75-25-2	Bromoform	6. IU	
108-10-1	4-Methyl-2-pentanone	13. IU	
591-78-6	2-Hexanone	13. IU	
127-18-4	Tetrachloroethene	6. IU	
78-34-5	1,1,2,2-Tetrachloroethane	6. IU	
108-88-3	Toluene	6. IU	
108-90-7	Chlorobenzene	6. IU	
100-41-4	Ethylbenzene	6. IU	
100-42-5	Styrene	6. IU	
133-02-7	Xylene (total)	6. IU	

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF C 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963296

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: >P1208

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.23

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS. NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	3.84	65.	JB
2.				
3.				
4.				
5.				
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30.				

DATE REPORTED: SEP 2, 1989 Laboratory Director

John J. Mollo, P.E.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC.

Contract: -----

OTFL C 14-16

Lab Code: HP001

Case No.: ----- SAS No.: -----

SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963297

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: >P1209

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.21

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3	Chloromethane	12.	IU
74-83-9	Bromomethane	12.	IU
75-01-4	Vinyl Chloride	12.	IU
75-00-3	Chloroethane	12.	IU
75-09-2	Methylene Chloride	12.	IU
67-64-1	Acetone	12.	IU
75-15-0	Carbon Disulfide	6.	IU
75-35-4	1,1-Dichloroethene	6.	IU
75-34-3	1,1-Dichloroethane	6.	IU
540-59-0	1,2-Dichloroethene (total)	6.	IU
67-66-3	Chloroform	6.	IU
107-06-2	1,2-Dichloroethane	6.	IU
78-93-3	2-Butanone	12.	IU
71-55-6	1,1,1-Trichloroethane	6.	IU
56-23-5	Carbon Tetrachloride	6.	IU
108-05-4	Vinyl Acetate	12.	IU
75-27-4	Bromodichloromethane	6.	IU
78-87-5	1,2-Dichloropropane	6.	IU
10061-01-5	cis-1,3-Dichloropropene	6.	IU
79-01-6	Trichloroethene	5.	IJ
124-48-1	Dibromochloromethane	6.	IU
79-00-5	1,1,2-Trichloroethane	6.	IU
71-43-2	Benzene	6.	IU
10061-02-6	trans-1,3-Dichloropropene	6.	IU
75-25-2	Bromoform	6.	IU
108-10-1	4-Methyl-2-pentanone	12.	IU
591-78-6	2-Hexanone	12.	IU
127-18-4	Tetrachloroethene	6.	IU
79-34-5	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3	Toluene	6.	IU
108-90-7	Chlorobenzene	6.	IU
100-41-4	Ethylbenzene	6.	IU
100-42-5	Styrene	6.	IU
133-02-7	Xylene (total)	6.	IU

FORM C-231

REPORTED: SEP 2 1989

John J. Murphy, P.E. 1/87 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

OTF C 14-16

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTF, J 1

Matrix: (soil/water) SOIL

Lab Sample ID: 963297

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: >P1209

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 21

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/KG

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	15.94	6.	J
2.				
3.				
4.				
5.				
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DATE REPORTED: SEP 27 1989

John J. Molloy, P.E.

Laboratory Director

1/87 Rev.

FORM I C-232

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

14 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DOTF SA-2 10-12

Client Name: H2M LABS, INC.

Contract: -----

Lab Code: HP001 Case No.: ----- SAS No.: ----- SOG No.: DOTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963298

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >P1210

Level: (low/med) LOW

Date Received: 8/03/89

Moisture: not dec.17

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	12.	10
74-83-9	Bromomethane	12.	10
75-01-4	Vinyl Chloride	12.	10
75-00-3	Chloroethane	12.	10
75-09-2	Methylene Chloride	13.	1
67-64-1	Acetone	12.	10
75-15-0	Carbon Disulfide	6.	10
75-35-4	1,1-Dichloroethene	6.	10
75-34-3	1,1-Dichloroethane	6.	10
540-69-0	1,2-Dichloroethene (total)	6.	10
67-66-3	Chloroform	6.	10
107-06-2	1,2-Dichloroethane	6.	10
78-93-3	2-Butanone	12.	10
71-55-6	1,1,1-Trichloroethane	250.	1 D
56-23-5	Carbon Tetrachloride	5.	10
108-05-4	Vinyl Acetate	12.	10
75-27-4	Bromodichloromethane	6.	10
78-92-5	1,2-Dichloropropane	6.	10
10061-01-5	cis-1,3-Dichloropropane	6.	10
79-01-6	Trichloroethane	530.	1 D
104-48-1	Dibromochloromethane	6.	10
79-08-5	1,1,2-Trichloroethane	6.	10
71-43-2	Benzene	6.	10
10061-02-6	trans-1,3-Dichloropropane	6.	10
75-26-2	Bromoform	6.	10
108-10-1	4-Methyl-2-pentanone	12.	10
591-78-6	2-Hexanone	12.	10
107-18-4	Tetrachloroethene	14.	1
79-34-8	1,1,2,2-Tetrachloroethane	6.	10
108-88-3	Toluene	6.	10
108-90-7	Chlorobenzene	6.	10
100-41-4	Ethylbenzene	6.	10
100-42-5	Styrene	6.	10
133-02-7	Xylene (total)	6.	10

C-233

ORTED: Str 2 (copy)

* *h d d d* *

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

DOTF BA-2 10-12

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 963298

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: >P1210

Level: (low/med) LOW

Date Received: 08/03/89

% Moisture: not dec.17

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dimethyl Octane isomer	13.34	35.	J
2.	Propyl Heptane isomer	13.60	42.	J
3.	Ethyl Dimethyl Cyclopentane	13.86	57.	J
4.	Dimethyl Octane isomer	14.19	45.	J
5. 124185	Decane (8CI9CI)	14.77	350.	J
6.	Dimethyl Octane isomer	15.16	170.	J
7.	Methyl Propyl Cyclohexane	15.89	190.	J
8. 1120214	Undecane (8CI9CI)	16.55	420.	J
9.	Decahydro Naphthalene isomer	16.76	150.	J
10.	Unknown	17.58	81.	J
11.				
12.				
13.				
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DATE REPORTED: Ser 2, 1, and

John J. Molloy, P.E.

Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC.

Contract: -----

OTF BA-2 10-12
DL

Lab Code: HP001

Case No.: ----- SAS No.: -----

SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963298 DL

Sample wt/vol: 1.1 (g/mL) G

Lab File ID: >P1216

Level: (low/med) LDW

Date Received: 8/03/89

% Moisture: not dec.17

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3	Chloromethane	55.	IU
74-83-9	Bromomethane	55.	IU
75-01-4	Vinyl Chloride	55.	IU
75-00-3	Chloroethane	55.	IU
75-09-2	Methylene Chloride	27.	D
67-64-1	Acetone	55.	IU
75-15-0	Carbon Disulfide	27.	IU
75-35-4	1,1-Dichloroethene	27.	IU
75-34-3	1,1-Dichloroethane	27.	IU
540-59-0	1,2-Dichloroethene (total)	27.	IU
67-66-3	Chloroform	27.	IU
107-06-2	1,2-Dichloroethane	27.	IU
78-93-3	2-Butanone	55.	IU
71-55-6	1,1,1-Trichloroethane	170.	I
56-23-5	Carbon Tetrachloride	27.	IU
108-05-4	Vinyl Acetate	55.	IU
75-27-4	Bromodichloromethane	27.	IU
78-87-5	1,2-Dichloropropane	27.	IU
10061-01-5	cis-1,3-Dichloropropene	27.	IU
79-01-6	Trichloroethene	470.	I
124-48-1	Dibromochloromethane	27.	IU
79-00-5	1,1,2-Trichloroethane	27.	IU
71-43-2	Benzene	27.	IU
10061-02-6	trans-1,3-Dichloropropene	27.	IU
75-25-2	Bromoform	27.	IU
108-10-1	4-Methyl-2-pentanone	55.	IU
591-78-6	2-Hexanone	55.	IU
127-18-4	Tetrachloroethene	27.	D
79-34-5	1,1,2,2-Tetrachloroethane	27.	IU
108-88-3	Toluene	27.	IU
108-90-7	Chlorobenzene	27.	IU
100-41-4	Ethylbenzene	27.	IU
100-42-5	Styrene	27.	IU
133-02-7	Xylene (total)	27.	IU

DATE REPORTED: 8/10/89

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTF BA-2 10-12
DL

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL

Lab Sample ID: 963298 DL

Sample wt/vol: 1.1 (g/mL) G

Lab File ID: >P1216

Level: (low/med) LOW

Date Received: 08/03/89

% Moisture: not dec.17

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Trimethyl Octane isomer	13.58	400.	J
2.	Ethyl Dimethyl Cyclopentane	13.85	540.	J
3.	Dimethyl Octane isomer	14.18	420.	J
4. 124185	Decane (8CI9CI)	14.76	3100.	J
5.	Dimethyl Octane isomer	15.13	1800.	J
6.	Dimethyl Nonane isomer	15.51	400.	J
7.	Methyl Propyl Cyclohexane is	15.87	2100.	J
8. 1120214	Undecane (8CI9CI)	16.54	4300.	J
9.	Decahydro Naphthalene isomer	16.75	1500.	J
10.	Unknown	17.56	850.	J
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John J. Molloy, P.E.

Laboratory Director

C-236

REPORTED: SEP 27 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC.

Contract: -----

OTF BA-2 16-18

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963299

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: >P1211

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.28

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3	Chloromethane	14.	IU
74-83-9	Bromomethane	14.	IU
75-01-4	Vinyl Chloride	14.	IU
75-00-3	Chloroethane	14.	IU
75-09-2	Methylene Chloride	19.	I
67-64-1	Acetone	14.	IU
75-15-0	Carbon Disulfide	7.	IU
75-35-4	1,1-Dichloroethene	1100.	D
75-34-3	1,1-Dichloroethane	110.	I
540-59-0	1,2-Dichloroethene (total)	7.	IU
67-66-3	Chloroform	7.	IU
107-06-2	1,2-Dichloroethane	7.	IU
78-93-3	2-Butanone	14.	IU
71-55-6	1,1,1-Trichloroethane	9400.	D
56-23-5	Carbon Tetrachloride	7.	IU
108-05-4	Vinyl Acetate	14.	IU
75-27-4	Bromodichloromethane	7.	IU
78-87-5	1,2-Dichloropropane	7.	IU
10061-01-5	cis-1,3-Dichloropropene	7.	IU
79-01-6	Trichloroethene	7800.	D
124-48-1	Dibromochloromethane	7.	IU
79-00-5	1,1,2-Trichloroethane	47.	I
71-43-2	Benzene	7.	IU
10061-02-6	trans-1,3-Dichloropropene	7.	IU
75-25-2	Bromoform	7.	IU
108-10-1	4-Methyl-2-pentanone	14.	IU
591-78-6	2-Hexanone	14.	IU
127-18-4	Tetrachloroethene	1700.	D
79-34-5	1,1,2,2-Tetrachloroethane	7.	IU
108-88-3	Toluene	2000.	D
108-90-7	Chlorobenzene	7.	IU
100-41-4	Ethylbenzene	300.	D
100-42-5	Styrene	7.	IU
133-02-7	Xylene (total)	1500.	D

DATE REPORTED: SEP 2, 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, NY 11747
(516) 694-3040 FAX: (516) 694-4122

EPA 821-R-91-010

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC.

Contract: -----

OTF BA-2 0081

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTF 0081-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963299

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: >P1211

Level: (low/med) LOW

Date Received: 08/03/89

% Moisture: not dec.28

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1886755	Propane, 2-[(1,1-dimethylethyl)]	7.76	1500.	0
2.	Trimethyl Pentene isomer	9.52	8400.	0
3.	Dimethyl Octane isomer	13.39	1400.	0
4.	Dimethyl Benzene isomer	13.68	3600.	0
5. 50746537	Cyclopentane, 1-methyl-2-(2-methyl-2-propyl-)	13.89	2800.	0
6. 15869940	Octane, 3,6-dimethyl- (8CI9CI)	14.25	1400.	0
7. 871830	Nonane, 2-methyl- (8CI9CI)	14.86	7100.	0
8.	Ethyl Methyl Benzene isomer	15.06	3600.	0
9. 2847725	Decane, 4-methyl- (8CI9CI)	15.20	2900.	0
10.	Ethyl Methyl Benzene isomer	15.75	1400.	0
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DATE REPORTED: SEP 27 1989

John M. P.E.

Lab. Director

Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC.

Contract: -----

OTF BA-2 16-18

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963299 EXTRACT

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >P1226

Level: (low/med) MED

Date Received: 8/03/89

% Moisture: not dec.28

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/KG	Q
74-87-3	Chloromethane	17000.	IU
74-83-9	Bromomethane	17000.	IU
75-01-4	Vinyl Chloride	17000.	IU
75-00-3	Chloroethane	17000.	IU
75-09-2	Methylene Chloride	8700.	D
67-64-1	Acetone	17000.	IU
75-15-0	Carbon Disulfide	8700.	IU
75-35-4	1,1-Dichloroethene	8700.	D
75-34-3	1,1-Dichloroethane	8700.	D
540-59-0	1,2-Dichloroethene (total)	8700.	IU
67-66-3	Chloroform	8700.	IU
107-06-2	1,2-Dichloroethane	8700.	IU
78-93-3	2-Butanone	17000.	IU
71-55-6	1,1,1-Trichloroethane	530000.	I
56-23-5	Carbon Tetrachloride	8700.	IU
108-05-4	Vinyl Acetate	17000.	IU
75-27-4	Bromodichloromethane	8700.	IU
78-87-5	1,2-Dichloropropane	8700.	IU
10061-01-5	cis-1,3-Dichloropropene	8700.	IU
79-01-6	Trichloroethene	610000.	I
124-48-1	Dibromochloromethane	8700.	IU
79-00-5	1,1,2-Trichloroethane	8700.	D
71-43-2	Benzene	8700.	IU
10061-02-6	trans-1,3-Dichloropropene	8700.	IU
75-25-2	Bromoform	8700.	IU
108-10-1	4-Methyl-2-pentanone	17000.	IU
591-78-6	2-Hexanone	17000.	IU
127-18-4	Tetrachloroethene	8700.	D
79-34-5	1,1,2,2-Tetrachloroethane	8700.	IU
108-88-3	Toluene	8700.	D
108-90-7	Chlorobenzene	8700.	IU
100-41-4	Ethylbenzene	8700.	D
100-42-5	Styrene	8700.	IU
133-02-7	Xylene (total)	8700.	IU

DATE REPORTED: SEP 27 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OTFL BA-2 1
EX

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J

Matrix: (soil/water) SOIL

Lab Sample ID: 963299 EXTR

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >P1226

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.28

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	15.17	8700.	J
2.	Unknown	15.90	8700.	J
3. 1120214	Undecane (8CI9CI)	16.56	21000.	J
4.	Methyl Phenyl Ethanone isome	16.76	8700.	J
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REPORTED: SEP 27 1989

C-240

John J. Malloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

OTF BA-1 16-18

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963301

Sample wt/vol: 4.4 (g/mL) G

Lab File ID: >P1219

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.23

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3-----	Chloromethane	15.	IU
74-83-9-----	Bromomethane	15.	IU
75-01-4-----	Vinyl Chloride	15.	IU
75-00-3-----	Chloroethane	15.	IU
75-09-2-----	Methylene Chloride	7.	IU
67-64-1-----	Acetone	65.	I
75-15-0-----	Carbon Disulfide	7.	IU
75-35-4-----	1,1-Dichloroethene	7.	IU
75-34-3-----	1,1-Dichloroethane	7.	I
540-59-0-----	1,2-Dichloroethene (total)	7.	IU
67-66-3-----	Chloroform	7.	IU
107-06-2-----	1,2-Dichloroethane	7.	IU
78-93-3-----	2-Butanone	15.	IU
71-55-6-----	1,1,1-Trichloroethane	480.	I D
56-23-5-----	Carbon Tetrachloride	7.	IU
108-05-4-----	Vinyl Acetate	15.	IU
75-27-4-----	Bromodichloromethane	7.	IU
78-87-5-----	1,2-Dichloropropane	7.	IU
10061-01-5-----	cis-1,3-Dichloropropene	7.	IU
79-01-6-----	Trichloroethene	250.	I
124-48-1-----	Dibromochloromethane	7.	IU
79-00-5-----	1,1,2-Trichloroethane	7.	IU
71-43-2-----	Benzene	7.	IU
10061-02-6-----	trans-1,3-Dichloropropene	7.	IU
75-25-2-----	Bromoform	7.	IU
108-10-1-----	4-Methyl-2-pentanone	15.	IU
591-78-6-----	2-Hexanone	15.	IU
127-18-4-----	Tetrachloroethene	7.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	7.	IU
108-88-3-----	Toluene	7.	IU
108-90-7-----	Chlorobenzene	7.	IU
100-41-4-----	Ethylbenzene	7.	IU
100-42-5-----	Styrene	7.	IU
133-02-7-----	Xylene (total)	7.	IU

DATE REPORTED: SEP 2 1989

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OTF BA-1 10-13

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963301

Sample wt/vol: 4.4 (g/mL) G

Lab File ID: >P1219

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.23

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

Number TICs found: 3

(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 15869939	Octane, 3,5-dimethyl- (8CI9C)	13.97	22.	J
2.	Trimethyl Octane isomer	14.76	89.	J
3. 1120214	Undecane (8CI9CI)	16.53	69.	J
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5.				
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DATE REPORTED: SEP 27 1989

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OTF BA-1 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: -----SAS No.: -----

SOG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963300

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: >P1222

Level: (low/med) LDW

Date Received: 8/03/89

% Moisture: not dec.13

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/KG

Q

CAS NO.	COMPOUND		
74-87-3	Chloromethane	13.	10
74-83-9	Bromomethane	13.	10
75-01-4	Vinyl Chloride	13.	10
75-00-3	Chloroethane	13.	10
75-09-2	Methylene Chloride	6.	10
67-64-1	Acetone	13.	10
75-15-0	Carbon Disulfide	6.	10
75-35-4	1,1-Dichloroethene	6.	10
75-34-3	1,1-Dichloroethane	6.	10
540-59-0	1,2-Dichloroethene (total)	6.	10
67-66-3	Chloroform	6.	10
107-06-2	1,2-Dichloroethane	6.	10
78-93-3	2-Butanone	13.	10
71-55-6	1,1,1-Trichloroethane	7.	
56-23-5	Carbon Tetrachloride	6.	10
108-05-4	Vinyl Acetate	13.	10
75-27-4	Bromodichloromethane	6.	10
78-87-5	1,2-Dichloropropane	6.	10
10061-01-5	cis-1,3-Dichloropropene	6.	10
79-01-6	Trichloroethene	67.	
104-48-1	Dibromochloromethane	6.	10
79-00-5	1,1,2-Trichloroethane	6.	10
71-43-2	Benzene	6.	10
10061-02-6	trans-1,3-Dichloropropene	6.	10
75-25-2	Bromoform	6.	10
108-10-1	4-Methyl-2-pentanone	13.	10
591-78-6	2-Hexanone	13.	10
127-18-4	Tetrachloroethene	6.	10
79-34-5	1,1,2,2-Tetrachloroethane	6.	10
108-88-3	Toluene	6.	10
108-90-7	Chlorobenzene	6.	10
100-41-4	Ethylbenzene	6.	10
100-42-5	Styrene	6.	10
133-02-7	Xylene (total)		

50

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OTF BA-1 10-12

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963300

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: >P1222

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.13

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	14.01	83.	J*
2.	Unknown	16.62	140.	J*
3.				
4.				
5.	* TIC is suspected to be			
6.	Column bleed.			
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* *Arizadek* *

DATE REPORTED: SEP 27 1989 John J. Molloy, P.E.
C-244 Laboratory Director
FORM 1987 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747

(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS INC.

Contract: -----

DTF BA-1 16-18

DL

Lab Code: HP001

Case No.: ----- SAS No.: -----

SDG No.: DTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963301 DL

Sample wt/vol: 1.1 (g/mL) G

Lab File ID: >P1223

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.23

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/KG

Q

CAS NO.	COMPOUND		
74-87-3	Chloromethane	59.	IU
74-83-9	Bromomethane	59.	IU
75-01-4	Vinyl Chloride	59.	IU
75-00-3	Chloroethane	59.	IU
75-09-2	Methylene Chloride	30.	IU
67-64-1	Acetone	200.	I
75-15-0	Carbon Disulfide	30.	IU
75-35-4	1,1-Dichloroethene	30.	IU
75-34-3	1,1-Dichloroethane	30.	I D
540-59-0	1,2-Dichloroethene (total)	30.	IU
67-66-3	Chloroform	30.	IU
107-06-2	1,2-Dichloroethane	30.	IU
78-93-3	2-Butanone	59.	IU
71-55-6	1,1,1-Trichloroethane	330.	I
56-23-5	Carbon Tetrachloride	30.	IU
108-05-4	Vinyl Acetate	59.	IU
75-27-4	Bromodichloromethane	30.	IU
78-87-5	1,2-Dichloropropane	30.	IU
10061-01-5	cis-1,3-Dichloropropene	30.	IU
79-01-6	Trichloroethene	210.	I
124-48-1	Dibromochloromethane	30.	IU
79-00-5	1,1,2-Trichloroethane	30.	IU
71-43-2	Benzene	30.	IU
10061-02-6	trans-1,3-Dichloropropene	30.	IU
75-25-2	Bromoform	30.	IU
108-10-1	4-Methyl-2-pentanone	59.	IU
591-78-6	2-Hexanone	59.	IU
127-18-4	Tetrachloroethene	30.	IU
79-34-5	1,1,2,2-Tetrachloroethane	30.	IU
108-88-3	Toluene	30.	IU
108-90-7	Chlorobenzene	30.	IU
100-41-4	Ethylbenzene	30.	IU
100-42-5	Styrene	30.	IU
133-02-7	Xylene (total)	30.	IU

REPORTED: SEP 8 1989

FORM I C-245

John J. Molloy, BE Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OTF BA-1 16-18
DL

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963301 DL

Sample wt/vol: 1.1 (g/mL) G

Lab File ID: >P1223

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.23

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	15.15	29.	J
2.	Methyl Propyl cyclohexane is	15.88	41.	J
3.	Methyl Undecene isomer	16.53	35.	J
4.	Unknown	16.74	58.	J
5.	Unknown	17.58	29.	J
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REPORTED: SEP 27 1989

FORM C-246

John J. McGee, P.E.
1987 Rev.

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DTF 8-1 10-12

Lab Name: H2M LABS, INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: DTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963302

Sample wt/vol: 4.6 (g/mL) G

Lab File ID: >P1220

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec.13

Date Analyzed: 8/10/89

Column: (pack/dep) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	12.	IU
74-83-9-----	Bromomethane	12.	IU
75-01-4-----	Vinyl Chloride	12.	IU
75-00-3-----	Chloroethane	12.	IU
75-09-2-----	Methylene Chloride	6.	IU
67-64-1-----	Acetone	12.	IU
75-15-0-----	Carbon Disulfide	6.	IU
75-35-4-----	1,1-Dichloroethane	6.	IU
75-34-3-----	1,1-Dichloroethane	6.	IU
640-59-0-----	1,2-Dichloroethane (total)	6.	IU
67-66-3-----	Chloroform	6.	IU
107-06-2-----	1,2-Dichloroethane	6.	IU
78-93-3-----	2-Butanone	12.	IU
71-55-6-----	1,1,1-Trichloroethane	6.	IU
56-23-5-----	Carbon Tetrachloride	6.	IU
108-05-4-----	Vinyl Acetate	12.	IU
75-27-4-----	Bromodichloromethane	6.	IU
78-87-5-----	1,2-Dichloropropane	6.	IU
10061-01-5-----	cis-1,3-Dichloropropene	6.	IU
79-01-6-----	Trichloroethene	3.	IJ
124-48-1-----	Dibromochloromethane	6.	IU
79-00-5-----	1,1,2-Trichloroethane	6.	IU
71-43-2-----	Benzene	6.	IU
10041-02-6-----	trans-1,3-Dichloropropene	6.	IU
75-25-2-----	Bromoform	6.	IU
108-10-1-----	4-Methyl-2-pentanone	12.	IU
591-78-6-----	2-Hexanone	12.	IU
127-18-4-----	Tetrachloroethene	6.	IU
79-34-6-----	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3-----	Toluene	6.	IU
108-90-7-----	Chlorobenzene	6.	IU
100-41-4-----	Ethylbenzene	6.	IU
100-42-5-----	Styrene	6.	IU
133-02-7-----	Xylene (total)	6.	IU

C-247

PORTED: SEP 2 1989

tridat

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC.

Contract: -----

B-1 10-12

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTF, J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963302

Sample wt/vol: 4.6 (g/mL) G

Lab File ID: >P1220

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 13

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
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DATE REPORTED: SEP 2, 1989

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS, INC.

Contract: -----

CTF 8-2 20-22

Lab Code: HP001

Case No.: -----SAS No.: -----

SDG No.: DTFL J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963303

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: >P1221

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 19

Date Analyzed: 8/10/89

Column: (pack/loop) CAP

Dilution Factor: 1.00000

SAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3-----	Chloromethane	13.	1U
74-83-9-----	Bromomethane	13.	1U
75-01-4-----	Vinyl Chloride	13.	1U
75-00-3-----	Chloroethane	13.	1U
75-09-2-----	Methylene Chloride	6.	1U
67-64-1-----	Acetone	13.	1U
75-15-0-----	Carbon Disulfide	6.	1U
75-35-4-----	1,1-Dichloroethene	6.	1U
75-34-3-----	1,1-Dichloroethane	6.	1U
540-59-0-----	1,2-Dichloroethene (total)	6.	1U
67-66-3-----	Chloroform	6.	1U
107-06-2-----	1,2-Dichloroethane	6.	1U
78-93-3-----	2-Butanone	13.	1U
71-55-6-----	1,1,1-Trichloroethane	6.	1U
56-23-5-----	Carbon Tetrachloride	6.	1U
108-05-4-----	Vinyl Acetate	13.	1U
75-27-4-----	Bromodichloromethane	6.	1U
78-87-5-----	1,2-Dichloropropane	6.	1U
10061-01-5-----	cis-1,3-Dichloropropene	6.	1U
79-01-6-----	Trichloroethene	6.	1U
124-48-1-----	Dibromochloromethane	6.	1U
79-00-5-----	1,1,2-Trichloroethane	6.	1U
71-43-2-----	Benzene	6.	1U
10061-02-6-----	trans-1,3-Dichloropropene	6.	1U
75-25-2-----	Bromoform	6.	1U
108-10-1-----	4-Methyl-2-pentanone	13.	1U
591-78-6-----	2-Hexanone	13.	1U
127-18-4-----	Tetrachloroethene	6.	1U
79-34-5-----	1,1,2,2-Tetrachloroethane	6.	1U
108-88-3-----	Toluene	6.	1U
108-96-7-----	Chlorobenzene	6.	1U
100-41-4-----	Ethylbenzene	6.	1U
100-42-5-----	Styrene	6.	1U
133-02-7-----	Xylene (total)	6.	1U

C-249 DATE REPORTED: SEP 27 1989

* *trichlor* *

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC.

Contract: -----

B-2 20-22

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTF, J 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963303

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: >P1221

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 19

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
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29.			*	*
30.			*****	*****

John J. Molloy, P.E.

DATE REPORTED: SEP 27 1989 Laboratory Director

57

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: H0001

Case No.: ----- SAS No.: ----- SDG No.: DTFL J

Matrix: (soil/water) WATER

Lab Sample ID: 963304

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1231

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 0

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	10. IU
74-83-9	Bromomethane	10. IU
75-01-4	Vinyl Chloride	10. IU
75-00-3	Chloroethane	10. IU
75-09-2	Methylene Chloride	5. IU
67-64-1	Acetone	10. IU
75-15-0	Carbon Disulfide	5. IU
75-35-4	1,1-Dichloroethene	5. IU
75-34-3	1,1-Dichloroethane	5. IU
540-59-0	1,2-Dichloroethene (total)	5. IU
67-66-3	Chloroform	5. IU
107-06-2	1,2-Dichloroethane	5. IU
78-93-3	2-Butanone	10. IU
71-55-6	1,1,1-Trichloroethane	5. IU
56-23-5	Carbon Tetrachloride	5. IU
108-05-4	Vinyl Acetate	10. IU
75-27-4	Bromodichloromethane	5. IU
78-87-5	1,2-Dichloropropane	5. IU
10061-01-6	cis-1,3-Dichloropropene	5. IU
79-01-6	Trichloroethene	5. IU
124-48-1	Dibromochloromethane	5. IU
79-00-5	1,1,2-Trichloroethane	5. IU
71-43-2	Benzene	5. IU
10061-02-6	trans-1,3-Dichloropropene	5. IU
75-25-2	Bromoform	5. IU
108-10-1	4-Methyl-2-pentanone	10. IU
591-78-6	2-Hexanone	10. IU
127-18-4	Tetrachloroethene	5. IU
79-34-8	1,1,2,2-Tetrachloroethane	5. IU
108-88-3	Toluene	5. IU
108-90-7	Chlorobenzene	5. IU
100-41-4	Ethylbenzene	5. IU
100-42-5	Styrene	5. IU
133-02-7	Xylene (total)	5. IU

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC.

Contract: -----

TRIP BLANK

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTF, J 10-12

Matrix: (soil/water) WATER

Lab Sample ID: 963304

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1231

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 0

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
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John J. Molloy, P.E.

DATE REPORTED: SEP 27 1989 Laboratory Director 59

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: PF001

Case No.: ----- SAS No.: ----- SDG No.: OTFL J

Matrix: (soil/water) WATER

Lab Sample ID: 963335

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1232

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 0

Date Analyzed: 8/10/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-7	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethane	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

60

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122
EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTF, J 10-12

Matrix: (soil/water) WATER

Lab Sample ID: 963305

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1232

Level: (low/med) LOW

Date Received: 8/03/89

% Moisture: not dec. 0

Date Analyzed: 8/10/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS			
2.	WERE FOUND			
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John J. Molloy, P.E.

DATE REPORTED: SEP 27 1989 Laboratory Director 61

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: LINK01

OUTFALL K 10'-12'

Matrix: SOIL Lab Sample ID: 963013
Sample wt: 30.1 (g) Lab File ID: AGC0380/BGC0380
Level: LOW Date Received: 07/29/89
% Moisture: not dec. 61 dec. Date Extracted: 07/31/89
Extraction: SONC Date Analyzed: 08/18/89
GPC Cleanup: Y pH: 7.1 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	41		U
319-85-7	beta-BHC	41		U
319-86-8	delta-BHC	41		U
58-89-9	gamma-BHC (Lindane)	170		
76-44-8	Heptachlor	41		U
309-00-2	Aldrin	41		U
1024-57-3	Heptachlor epoxide	41		U
959-98-8	Endosulfan I	41		U
60-57-1	Dieldrin	82		U
72-55-9	4,4'-DDE	82		U
72-20-8	Endrin	82		U
33213-65-9	Endosulfan II	82		U
72-54-8	4,4'-DDD	82		U
1031-07-8	Endosulfan sulfate	82		U
50-29-3	4,4'-DDT	850		
72-43-5	Methoxychlor	410		U
53494-70-5	Endrin ketone	82		U
5103-71-9	alpha-Chlordane	40		U
5103-74-2	gamma-Chlordane	410		U
8001-35-2	Toxaphene	820		U
12674-11-2	Aroclor-1016	410		U
11104-28-2	Aroclor-1221	410		U
11141-16-5	Aroclor-1232	410		U
53469-21-9	Aroclor-1242	410		U
12672-29-6	Aroclor-1248	410		U
11097-69-1	Aroclor-1254	820		U
11096-82-5	Aroclor-1260	820		U

Date Reported: 10/27/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

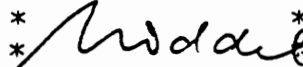
Lab Name: H2M LABS, INC. Contract: LINK01

OUTFALL K 12'-14'

Matrix: SOIL Lab Sample ID: 963014
Sample wt: 30.0 (g) Lab File ID: AGC0381/BGC0381
Level: LOW Date Received: 07/29/89
% Moisture: not dec. 53 dec. Date Extracted: 07/31/89
Extraction: SONC Date Analyzed: 08/18/89
GPC Cleanup: Y pH: 6.9 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	34		U
319-85-7	beta-BHC	34		U
319-86-8	delta-BHC	34		U
58-89-9	gamma-BHC (Lindane)	34		U
76-44-8	Heptachlor	34		U
309-00-2	Aldrin	34		U
1024-57-3	Heptachlor epoxide	34		U
959-98-8	Endosulfan I	34		U
60-57-1	Dieldrin	68		U
72-55-9	4,4'-DDE	68		U
72-20-8	Endrin	68		U
33213-65-9	Endosulfan II	68		U
72-54-8	4,4'-DDD	68		U
1031-07-8	Endosulfan sulfate	68		U
50-29-3	4,4'-DDT	68		U
72-43-5	Methoxychlor	340		U
53494-70-5	Endrin ketone	68		U
5103-71-9	alpha-Chlordane	340		U
5103-74-2	gamma-Chlordane	340		U
8001-35-2	Toxaphene	680		U
12674-11-2	Aroclor-1016	340		U
11104-28-2	Aroclor-1221	340		U
11141-16-5	Aroclor-1232	340		U
53469-21-9	Aroclor-1242	340		U
12672-29-6	Aroclor-1248	340		U
11097-69-1	Aroclor-1254	680		U
11096-82-5	Aroclor-1260	680		U

Date Reported: 10/27/89

*  *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: LINK01

OUTFALL K 14'-16'

Matrix: SOIL Lab Sample ID: 963015
Sample wt: 30.1 (g) Lab File ID: AGC0382/BGC0382
Level: LOW Date Received: 07/29/89
% Moisture: not dec. 46.6 dec. Date Extracted: 07/31/89
Extraction: SONC Date Analyzed: 08/18/89
GPC Cleanup: Y pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	30		U
319-85-7	beta-BHC	30		U
319-86-8	delta-BHC	30		U
58-89-9	gamma-BHC (Lindane)	30		U
76-44-8	Heptachlor	30		U
309-00-2	Aldrin	30		U
1024-57-3	Heptachlor epoxide	30		U
959-98-8	Endosulfan I	30		U
60-57-1	Dieldrin	60		U
72-55-9	4,4'-DDE	60		U
72-20-8	Endrin	60		U
33213-65-9	Endosulfan II	60		U
72-54-8	4,4'-DDD	60		U
1031-07-8	Endosulfan sulfate	60		U
50-29-3	4,4'-DDT	60		U
72-43-5	Methoxychlor	300		U
53494-70-5	Endrin ketone	60		U
5103-71-9	alpha-Chlordane	300		U
5103-74-2	gamma-Chlordane	300		U
8001-35-2	Toxaphene	600		U
12674-11-2	Aroclor-1016	300		U
11104-28-2	Aroclor-1221	300		U
11141-16-5	Aroclor-1232	300		U
53469-21-9	Aroclor-1242	300		U
12672-29-6	Aroclor-1248	300		U
11097-69-1	Aroclor-1254	600		U
11096-82-5	Aroclor-1260	600		U

Date Reported: 10/27/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

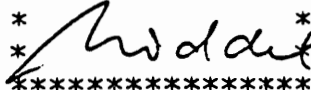
OUTFALL M 10'-12'

Lab Name: H2M LABS, INC. Contract: LINK01

Matrix: SOIL Lab Sample ID: 963016
Sample wt: 30.1 (g) Lab File ID: AGC0383
Level: LOW Date Received: 07/29/89
% Moisture: not dec. 21.4 dec. Date Extracted: 07/31/89
Extraction: SONC Date Analyzed: 08/18/89
GPC Cleanup: N pH: 7.1 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	100		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	100		U
5103-74-2	gamma-Chlordane	100		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	100		U
11104-28-2	Aroclor-1221	100		U
11141-16-5	Aroclor-1232	100		U
53469-21-9	Aroclor-1242	100		U
12672-29-6	Aroclor-1248	100		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 10/27/89

*  *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK01

OUTFALL M 14'-16'

Matrix: SOIL Lab Sample ID: 963017
Sample wt: 30.1 (g) Lab File ID: AGC0385
Level: LOW Date Received: 07/29/89
% Moisture: not dec. 34 dec. Date Extracted: 07/31/89
Extraction: SONC Date Analyzed: 08/18/89
GPC Cleanup: N pH: 7.1 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	12		U
319-85-7	beta-BHC	12		U
319-86-8	delta-BHC	12		U
58-89-9	gamma-BHC (Lindane)	12		U
76-44-8	Heptachlor	12		U
309-00-2	Aldrin	12		U
1024-57-3	Heptachlor epoxide	12		U
959-98-8	Endosulfan I	12		U
60-57-1	Dieldrin	24		U
72-55-9	4,4'-DDE	24		U
72-20-8	Endrin	24		U
33213-65-9	Endosulfan II	24		U
72-54-8	4,4'-DDD	24		U
1031-07-8	Endosulfan sulfate	24		U
50-29-3	4,4'-DDT	24		U
72-43-5	Methoxychlor	120		U
53494-70-5	Endrin ketone	24		U
5103-71-9	alpha-Chlordane	120		U
5103-74-2	gamma-Chlordane	120		U
8001-35-2	Toxaphene	240		U
12674-11-2	Aroclor-1016	120		U
11104-28-2	Aroclor-1221	120		U
11141-16-5	Aroclor-1232	120		U
53469-21-9	Aroclor-1242	120		U
12672-29-6	Aroclor-1248	120		U
11097-69-1	Aroclor-1254	240		U
11096-82-5	Aroclor-1260	240		U

Date Reported: 10/27/89



John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD BLANK

Lab Name: H2M LABS, INC. Contract: LINK01

Matrix: WATER Lab Sample ID: 963019
Sample vol: 1000 mL Lab File ID: AGC0388
Level: LOW Date Received: 07/29/89
% Moisture: not dec. dec. Date Extracted: 08/01/89
Extraction: SEPF Date Analyzed: 08/19/89
GPC Cleanup: N pH: 7.2 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 10/27/89

* *W d d d* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

OUTFALL D20-24

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: SOIL

Lab Sample ID: 964312

Sample wt: 30.1(g)

Lab File ID: AGC0522

Level: LOW

Date Received: 08/18/89

% Moisture: not dec. 20 dec.

Date Extracted: 08/27/89

Extraction: SONC

Date Analyzed: 09/27/89

GPC Cleanup: N pH: 6.9

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	100		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	100		U
5103-74-2	gamma-Chlordane	100		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	100		U
11104-28-2	Aroclor-1221	100		U
11141-16-5	Aroclor-1232	100		U
53469-21-9	Aroclor-1242	100		U
12672-29-6	Aroclor-1248	100		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 10/18/89

John J. Molloy

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**

OUTFALL B10-12

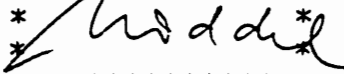
Lab Name: H2M LABS, INC.

Contract: _____

Matrix: SOILLab Sample ID: 964313Sample wt: 30.0(g)Lab File ID: AGC0523/BGC0523Level: LOWDate Received: 08/18/89% Moisture: not dec. 20 dec.Date Extracted: 08/22/89Extraction: SONCDate Analyzed: 09/27/89GPC Cleanup: N pH: 8.5Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	100		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	100		U
5103-74-2	gamma-Chlordane	100		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	100		U
11104-28-2	Aroclor-1221	100		U
11141-16-5	Aroclor-1232	100		U
53469-21-9	Aroclor-1242	100		U
12672-29-6	Aroclor-1248	100		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 10/18/89



John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

OUTFALL B14-16

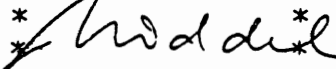
Lab Name: H2M LABS, INC.

Contract: _____

Matrix: SOILLab Sample ID: 964314Sample wt: 30.1(g)Lab File ID: AGC0525Level: LOWDate Received: 08/18/89% Moisture: not dec. 18 dec.Date Extracted: 08/22/89Extraction: SONCDate Analyzed: 09/27/89GPC Cleanup: N pH: 7.6Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	19		U
72-55-9	4,4'-DDE	19		U
72-20-8	Endrin	19		U
33213-65-9	Endosulfan II	19		U
72-54-8	4,4'-DDD	19		U
1031-07-8	Endosulfan sulfate	19		U
50-29-3	4,4'-DDT	19		U
72-43-5	Methoxychlor	97		U
53494-70-5	Endrin ketone	19		U
5103-71-9	alpha-Chlordane	97		U
5103-74-2	gamma-Chlordane	97		U
8001-35-2	Toxaphene	190		U
12674-11-2	Aroclor-1016	97		U
11104-28-2	Aroclor-1221	97		U
11141-16-5	Aroclor-1232	97		U
53469-21-9	Aroclor-1242	97		U
12672-29-6	Aroclor-1248	97		U
11097-69-1	Aroclor-1254	190		U
11096-82-5	Aroclor-1260	190		U

Date Reported: 10/18/89



John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**

OUTFALL E10-12

Lab Name: H2M LABS, INC.

Contract: _____

Matrix: SOILLab Sample ID: 964315Sample wt: 30.3(g)Lab File ID: AGC0526/BGC0526Level: LOWDate Received: 08/18/89% Moisture: not dec. 17 dec.Date Extracted: 08/22/89Extraction: SONCDate Analyzed: 09/27/89GPC Cleanup: N pH: 8.3Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	19		U
72-55-9	4,4'-DDE	19		U
72-20-8	Endrin	19		U
33213-65-9	Endosulfan II	19		U
72-54-8	4,4'-DDD	19		U
1031-07-8	Endosulfan sulfate	19		U
50-29-3	4,4'-DDT	19		U
72-43-5	Methoxychlor	96		U
53494-70-5	Endrin ketone	19		U
5103-71-9	alpha-Chlordane	96		U
5103-74-2	gamma-Chlordane	96		U
8001-35-2	Toxaphene	190		U
12674-11-2	Aroclor-1016	96		U
11104-28-2	Aroclor-1221	96		U
11141-16-5	Aroclor-1232	96		U
53469-21-9	Aroclor-1242	96		U
12672-29-6	Aroclor-1248	96		U
11097-69-1	Aroclor-1254	193		U
11096-82-5	Aroclor-1260	193		U

Date Reported: 10/18/89

*  *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**

OUTFALL E12-14

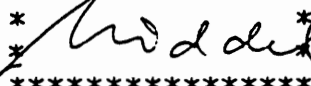
Lab Name: H2M LABS, INC.

Contract: _____

Matrix: SOILLab Sample ID: 964316Sample wt: 30.3(g)Lab File ID: AGC0527/BGC0527Level: LOWDate Received: 08/18/89% Moisture: not dec. 18 dec.Date Extracted: 08/22/89Extraction: SONCDate Analyzed: 09/27/89GPC Cleanup: N pH: 7.2Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	98		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	98		U
5103-74-2	gamma-Chlordane	98		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	98		U
11104-28-2	Aroclor-1221	98		U
11141-16-5	Aroclor-1232	98		U
53469-21-9	Aroclor-1242	98		U
12672-29-6	Aroclor-1248	98		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 10/18/89



John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**

OUTFALL N8-12

Lab Name: H2M LABS, INC.

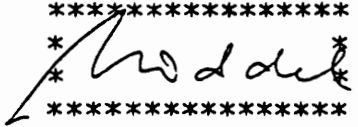
Contract: _____

Matrix: SOILLab Sample ID: 964317Sample wt: 30.4(g)Lab File ID: AGC0528/BGC0528Level: LOWDate Received: 08/18/89% Moisture: not dec. 63 dec.Date Extracted: 08/22/89Extraction: SONCDate Analyzed: 09/27/89GPC Cleanup: Y pH: 7.2Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	21		U
319-85-7	beta-BHC	21		U
319-86-8	delta-BHC	21		U
58-89-9	gamma-BHC (Lindane)	49		
76-44-8	Heptachlor	21		U
309-00-2	Aldrin	21		U
1024-57-3	Heptachlor epoxide	21		U
959-98-8	Endosulfan I	21		U
60-57-1	Dieldrin	160		U *
72-55-9	4,4'-DDE	42		U
72-20-8	Endrin	42		U
33213-65-9	Endosulfan II	42		U
72-54-8	4,4'-DDD	42		U
1031-07-8	Endosulfan sulfate	72		U *
50-29-3	4,4'-DDT	250		U *
72-43-5	Methoxychlor	210		U
53494-70-5	Endrin ketone	80		U *
5103-71-9	alpha-Chlordane	210		U
5103-74-2	gamma-Chlordane	210		U
8001-35-2	Toxaphene	430		U
12674-11-2	Aroclor-1016	210		U
11104-28-2	Aroclor-1221	210		U
11141-16-5	Aroclor-1232	210		U
53469-21-9	Aroclor-1242	210		U
12672-29-6	Aroclor-1248	210		U
11097-69-1	Aroclor-1254	1900		
11096-82-5	Aroclor-1260	430		U

* Raised reporting limit in presence of interference by Ar1254.

Date Reported: 10/18/89



John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**

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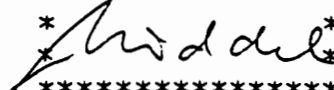
Lab Name: H2M LABS, INC. Contract: _____Matrix: WATERLab Sample ID: 964318Sample vol: 1000 mLLab File ID: AGC0529Level: LOWDate Received: 08/18/89

% Moisture: not dec. _____ dec.

Date Extracted: 08/22/89Extraction: SEPFDate Analyzed: 09/27/89GPC Cleanup: N pH: 6.9Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 10/18/89



John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS. INC. Contract: LINK FLIGHT

OUTFALL J
10'-12'

STIMULATION DIV.

Matrix: SOIL

Lab Sample ID: 963289

Sample vol: 30 (g)

Lab File ID: AGC0317 / BGC0316

Level: LOW

Date Received: 8/3/89

% Moisture: not dec. 58 dec.

Date Extracted: 8/3/89

Extraction: SONC

Date Analyzed: 8/12/89

GPC Cleanup: Y pH: 6.9

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	38		U
319-85-7	beta-BHC	180		
319-86-8	delta-BHC	38		U
58-89-9	gamma-BHC (Lindane)	38		U
76-44-8	Heptachlor	38		U
309-00-2	Aldrin	2200		
1024-57-3	Heptachlor epoxide	110		
959-98-8	Endosulfan I	38		U
60-57-1	Dieldrin	76		U
72-55-9	4,4'-DDE	76		U
72-20-8	Endrin	130		U*
33213-65-9	Endosulfan II	76		U
72-54-8	4,4'-DDD	76		U
1031-07-8	Endosulfan sulfate	76		U
50-29-3	4,4'-DDT	130		U*
72-43-5	Methoxychlor	380		U
53494-70-5	Endrin ketone	76		U
5103-71-9	alpha-Chlordane	380		U
5103-74-2	gamma-Chlordane	380		U
8001-35-2	Toxaphene	760		U
12674-11-2	Aroclor-1016	380		U
11104-28-2	Aroclor-1221	380		U
11141-16-5	Aroclor-1232	380		U
53469-21-9	Aroclor-1242	380		U
12672-29-6	Aroclor-1248	380		U
11097-69-1	Aroclor-1254	760		U
11096-82-5	Aroclor-1260	1200		

* Raised reporting limits in presence of AR1260.

Date Reported: 09/27/89

*

John J. Molloy

John J. Molloy, P.E.
Laboratory Director

11

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC.Contract: LINK FLIGHT
STIMULATION DIV.OUTFALL J
14'-16'Matrix: SOILLab Sample ID: 963290Sample vol: 30 (g)Lab File ID: AGC0319 / BGC0318Level: LOWDate Received: 8/3/89% Moisture: not dec. 20.2 dec.Date Extracted: 8/3/89Extraction: SONCDate Analyzed: 8/12/89GPC Cleanup: N pH: 7.4Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	100		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	100		U
5103-74-2	gamma-Chlordane	100		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	100		U
11104-28-2	Aroclor-1221	100		U
11141-16-5	Aroclor-1232	100		U
53469-21-9	Aroclor-1242	100		U
12672-29-6	Aroclor-1248	100		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 09/27/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director.

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS. INC. Contract: LINK FLIGHT

OUTFALL L
10'-12'

SIMULATION DIV.

Matrix: SOIL

Lab Sample ID: 963291

Sample vol: 30 (g)

Lab File ID: ACG0320 / BGC0319

Level: LOW

Date Received: 8/3/89

% Moisture: not dec. 44 dec.

Date Extracted: 8/3/89

Extraction: SONC

Date Analyzed: 8/12/89

GPC Cleanup: NO pH: 7.9

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	14		U
319-85-7	beta-BHC	14		U
319-86-8	delta-BHC	14		U
58-89-9	gamma-BHC (Lindane)	14		U
76-44-8	Heptachlor	14		U
309-00-2	Aldrin	14		U
1024-57-3	Heptachlor epoxide	14		U
959-98-8	Endosulfan I	14		U
60-57-1	Dieldrin	29		U
72-55-9	4,4'-DDE	29		U
72-20-8	Endrin	29		U
33213-65-9	Endosulfan II	29		U
72-54-8	4,4'-DDD	29		U
1031-07-8	Endosulfan sulfate	29		U
50-29-3	4,4'-DDT	29		U
72-43-5	Methoxychlor	140		U
53494-70-5	Endrin ketone	29		U
5103-71-9	alpha-Chlordane	140		U
5103-74-2	gamma-Chlordane	140		U
8001-35-2	Toxaphene	290		U
12674-11-2	Aroclor-1016	140		U
11104-28-2	Aroclor-1221	140		U
11141-16-5	Aroclor-1232	140		U
53469-21-9	Aroclor-1242	140		U
12672-29-6	Aroclor-1248	140		U
11097-69-1	Aroclor-1254	290		U
11096-82-5	Aroclor-1260	290		U

Date Reported: 09/28/89

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John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: LINK FLIGHTOUTFALL H
10'-12'

SIMULATION DIV.

Matrix: SOILLab Sample ID: 963292Sample vol: 30 (g)Lab File ID: ACG0321 / BGC0320Level: LOWDate Received: 8/3/89% Moisture: not dec. 8.0 dec. Date Extracted: 8/3/89Extraction: SONCDate Analyzed: 8/12/89GPC Cleanup: N pH: 8.8Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	9		U
319-85-7	beta-BHC	9		U
319-86-8	delta-BHC	9		U
58-89-9	gamma-BHC (Lindane)	9		U
76-44-8	Heptachlor	9		U
309-00-2	Aldrin	9		U
1024-57-3	Heptachlor epoxide	9		U
959-98-8	Endosulfan I	9		U
60-57-1	Dieldrin	17		U
72-55-9	4,4'-DDE	17		U
72-20-8	Endrin	17		U
33213-65-9	Endosulfan II	17		U
72-54-8	4,4'-DDD	17		U
1031-07-8	Endosulfan sulfate	17		U
50-29-3	4,4'-DDT	17		U
72-43-5	Methoxychlor	87		U
53494-70-5	Endrin ketone	17		U
5103-71-9	alpha-Chlordane	87		U
5103-74-2	gamma-Chlordane	87		U
8001-35-2	Toxaphene	174		U
12674-11-2	Aroclor-1016	87		U
11104-28-2	Aroclor-1221	87		U
11141-16-5	Aroclor-1232	87		U
53469-21-9	Aroclor-1242	87		U
12672-29-6	Aroclor-1248	87		U
11097-69-1	Aroclor-1254	174		U
11096-82-5	Aroclor-1260	174		U

Date Reported: 09/28/89

* * *

* *John J. Molloy* *

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

OUTFALL H
18'-20'

STIMULATION DIV.

Matrix: SOIL

Lab Sample ID: 963293

Sample vol: 30 (g)

Lab File ID: AGC0322 / BGC0321

Level: LOW

Date Received: 8/3/89

% Moisture: not dec. 16 dec.

Date Extracted: 8/3/89

Extraction: SONC

Date Analyzed: 8/12/89

GPC Cleanup: Y N pH: 7.9

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	10	U	
319-85-7	beta-BHC	10	U	
319-86-8	delta-BHC	10	U	
58-89-9	gamma-BHC (Lindane)	10	U	
76-44-8	Heptachlor	10	U	
309-00-2	Aldrin	10	U	
1024-57-3	Heptachlor epoxide	10	U	
959-98-8	Endosulfan I	10	U	
60-57-1	Dieldrin	19	U	
72-55-9	4,4'-DDE	19	U	
72-20-8	Endrin	19	U	
33213-65-9	Endosulfan II	19	U	
72-54-8	4,4'-DDD	19	U	
1031-07-8	Endosulfan sulfate	19	U	
50-29-3	4,4'-DDT	19	U	
72-43-5	Methoxychlor	95	U	
53494-70-5	Endrin ketone	19	U	
5103-71-9	alpha-Chlordane	95	U	
5103-74-2	gamma-Chlordane	95	U	
8001-35-2	Toxaphene	190	U	
12674-11-2	Aroclor-1016	95	U	
11104-28-2	Aroclor-1221	95	U	
11141-16-5	Aroclor-1232	95	U	
53469-21-9	Aroclor-1242	95	U	
12672-29-6	Aroclor-1248	95	U	
11097-69-1	Aroclor-1254	190	U	
11096-82-5	Aroclor-1260	190	U	

Date Reported: 09/27/89

*
* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

10

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK FLIGHTOUTFALL I
10'-12'

STIMULATION DIV.

Matrix: SOILLab Sample ID: 963294Sample vol: 30 (g)Lab File ID: AGC0323 / BGC0322Level: LOWDate Received: 8/3/89% Moisture: not dec. 18.1 dec. Date Extracted: 8/3/89Extraction: SONCDate Analyzed: 8/12/89GPC Cleanup: N pH: 8.1Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg		Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	98		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	98		U
5103-74-2	gamma-Chlordane	98		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	98		U
11104-28-2	Aroclor-1221	98		U
11141-16-5	Aroclor-1232	98		U
53469-21-9	Aroclor-1242	98		U
12672-29-6	Aroclor-1248	98		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 09/27/89

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John J. Molloy, P.E.
Laboratory Director

13

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK FLIGHTOUTFALL I
20' -22'

STIMULATION DIV.

Matrix: SOILLab Sample ID: 963295Sample vol: 30 (g)Lab File ID: AGC0325 / BGC0324Level: LOWDate Received: 8/3/89% Moisture: not dec. 36 dec. Date Extracted: 8/3/89Extraction: SONCDate Analyzed: 8/12/89GPC Cleanup: N pH: 7.8Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	13		U
319-85-7	beta-BHC	13		U
319-86-8	delta-BHC	13		U
58-89-9	gamma-BHC (Lindane)	13		U
76-44-8	Heptachlor	13		U
309-00-2	Aldrin	13		U
1024-57-3	Heptachlor epoxide	13		U
959-98-8	Endosulfan I	13		U
60-57-1	Dieldrin	25		U
72-55-9	4,4'-DDE	25		U
72-20-8	Endrin	25		U
33213-65-9	Endosulfan II	25		U
72-54-8	4,4'-DDD	25		U
1031-07-8	Endosulfan sulfate	25		U
50-29-3	4,4'-DDT	25		U
72-43-5	Methoxychlor	125		U
53494-70-5	Endrin ketone	25		U
5103-71-9	alpha-Chlordane	125		U
5103-74-2	gamma-Chlordane	125		U
8001-35-2	Toxaphene	250		U
12674-11-2	Aroclor-1016	125		U
11104-28-2	Aroclor-1221	125		U
11141-16-5	Aroclor-1232	125		U
53469-21-9	Aroclor-1242	125		U
12672-29-6	Aroclor-1248	125		U
11097-69-1	Aroclor-1254	250		U
11096-82-5	Aroclor-1260	250		U

Date Reported: 09/27/89

*
* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

20

H2M LABS, INC.

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

STIMULATION DIV.

OUTFALL C
10'-12'

Matrix: SOIL

Lab Sample ID: 963296

Sample vol: 30 (g)

Lab File ID: AGC0326 / BGC0325

Level: LOW

Date Received: 8/3/89

% Moisture: not dec. 23 dec.

Date Extracted: 8/4/89

Extraction: SONC

Date Analyzed: 8/12/89

GPC Cleanup: N pH: 7.2

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	21		U
72-55-9	4,4'-DDE	21		U
72-20-8	Endrin	21		U
33213-65-9	Endosulfan II	21		U
72-54-8	4,4'-DDD	21		U
1031-07-8	Endosulfan sulfate	21		U
50-29-3	4,4'-DDT	21		U
72-43-5	Methoxychlor	100		U
53494-70-5	Endrin ketone	21		U
5103-71-9	alpha-Chlordane	100		U
5103-74-2	gamma-Chlordane	100		U
8001-35-2	Toxaphene	210		U
12674-11-2	Aroclor-1016	100		U
11104-28-2	Aroclor-1221	100		U
11141-16-5	Aroclor-1232	100		U
53469-21-9	Aroclor-1242	100		U
12672-29-6	Aroclor-1248	100		U
11097-69-1	Aroclor-1254	210		U
11096-82-5	Aroclor-1260	210		U

Date Reported: 09/27/89

John J. Molloy

John J. Molloy, P.E.
Laboratory Director

21

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK FLIGHTOUTFALL C
14'-16'

STIMULATION DIV.

Matrix: SOILLab Sample ID: 963297Sample vol: 30 (g)Lab File ID: AGC0327 / BGC0326Level: LOWDate Received: 8/3/89% Moisture: not dec. 21 dec. Date Extracted: 8/4/89Extraction: SONCDate Analyzed: 8/12/89GPC Cleanup: N pH: 7.8Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	100		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	100		U
5103-74-2	gamma-Chlordane	100		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	100		U
11104-28-2	Aroclor-1221	100		U
11141-16-5	Aroclor-1232	100		U
53469-21-9	Aroclor-1242	100		U
12672-29-6	Aroclor-1248	100		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 09/27/89

*

John J. Molloy, P.E.
Laboratory Director

22

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

OUTFALL BA-2
10'-12'

STIMULATION DIV.

Matrix: SOIL

Lab Sample ID: 963298

Sample vol: 30 (g)

Lab File ID: AGC0328 / BGC0327

Level: LOW

Date Received: 8/3/89

% Moisture: not dec. 17 dec.

Date Extracted: 8/4/89

Extraction: SONC

Date Analyzed: 8/12/89

GPC Cleanup: N pH: 8.1

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	19		U
72-55-9	4,4'-DDE	19		U
72-20-8	Endrin	19		U
33213-65-9	Endosulfan II	19		U
72-54-8	4,4'-DDD	19		U
1031-07-8	Endosulfan sulfate	19		U
50-29-3	4,4'-DDT	19		U
72-43-5	Methoxychlor	96		U
53494-70-5	Endrin ketone	19		U
5103-71-9	alpha-Chlordane	96		U
5103-74-2	gamma-Chlordane	96		U
8001-35-2	Toxaphene	190		U
12674-11-2	Aroclor-1016	96		U
11104-28-2	Aroclor-1221	96		U
11141-16-5	Aroclor-1232	96		U
53469-21-9	Aroclor-1242	96		U
12672-29-6	Aroclor-1248	96		U
11097-69-1	Aroclor-1254	190		U
11096-82-5	Aroclor-1260	240		

Date Reported: 09/27/89

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

23

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

STIMULATION DIV.

OUTFALL BA-2
16'-18'Matrix: SOILLab Sample ID: 963299Sample vol: 30 (g)Lab File ID: AGC0329 / BGC0328Level: LOWDate Received: 8/3/89% Moisture: not dec. 28 dec.Date Extracted: 8/4/89Extraction: SONCDate Analyzed: 8/12/89GPC Cleanup: Y pH: 8.7Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	22		U
319-85-7	beta-BHC	22		U
319-86-8	delta-BHC	22		U
58-89-9	gamma-BHC (Lindane)	22		U
76-44-8	Heptachlor	22		U
309-00-2	Aldrin	22		U
1024-57-3	Heptachlor epoxide	22		U
959-98-8	Endosulfan I	22		U
60-57-1	Dieldrin	140		U*
72-55-9	4,4'-DDE	44		U
72-20-8	Endrin	300		U*
33213-65-9	Endosulfan II	190		U*
72-54-8	4,4'-DDD	44		U
1031-07-8	Endosulfan sulfate	44		U
50-29-3	4,4'-DDT	360		U*
72-43-5	Methoxychlor	220		U
53494-70-5	Endrin ketone	44		U
5103-71-9	alpha-Chlordane	220		U
5103-74-2	gamma-Chlordane	220		U
8001-35-2	Toxaphene	440		U
12674-11-2	Aroclor-1016	220		U
11104-28-2	Aroclor-1221	220		U
11141-16-5	Aroclor-1232	220		U
53469-21-9	Aroclor-1242	220		U
12672-29-6	Aroclor-1248	220		U
11097-69-1	Aroclor-1254	440		U
11096-82-5	Aroclor-1260	2700		

* Raised limit in presence of AR1260

Date Reported: 09/27/89

*
* *John J. Molloy* *
*****John J. Molloy, P.E.
Laboratory Director

24

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

OUTFALL BA-1
10'-12'

STIMULATION DIV.

Matrix: SOIL

Lab Sample ID: 963300

Sample vol: 30 (g)

Lab File ID: AGC0331 / BGC0330

Level: LOW

Date Received: 8/3/89

% Moisture: not dec. 13 dec.

Date Extracted: 8/4/89

Extraction: SONC

Date Analyzed: 8/12/89

GPC Cleanup: Y/N pH: 8.1

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	9		U
319-85-7	beta-BHC	9		U
319-86-8	delta-BHC	9		U
58-89-9	gamma-BHC (Lindane)	9		U
76-44-8	Heptachlor	9		U
309-00-2	Aldrin	9		U
1024-57-3	Heptachlor epoxide	9		U
959-98-8	Endosulfan I	9		U
60-57-1	Dieldrin	18		U
72-55-9	4,4'-DDE	18		U
72-20-8	Endrin	18		U
33213-65-9	Endosulfan II	18		U
72-54-8	4,4'-DDD	18		U
1031-07-8	Endosulfan sulfate	18		U
50-29-3	4,4'-DDT	18		U
72-43-5	Methoxychlor	92		U
53494-70-5	Endrin ketone	18		U
5103-71-9	alpha-Chlordane	92		U
5103-74-2	gamma-Chlordane	92		U
8001-35-2	Toxaphene	180		U
12674-11-2	Aroclor-1016	92		U
11104-28-2	Aroclor-1221	92		U
11141-16-5	Aroclor-1232	92		U
53469-21-9	Aroclor-1242	92		U
12672-29-6	Aroclor-1248	92		U
11097-69-1	Aroclor-1254	180		U
11096-82-5	Aroclor-1260	180		U

* Raised limit in presence of AR1260

Date Reported: 09/27/89

*  *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK FLIGHTOUTFALL BA-1
16'-18'

STIMULATION DIV.

Matrix: SOILLab Sample ID: 963301Sample vol: 30 (g)Lab File ID: AGC0332 / BGC0331Level: LOWDate Received: 8/3/89% Moisture: not dec. 23 dec. Date Extracted: 8/4/89Extraction: SONCDate Analyzed: 8/12/89GPC Cleanup: N pH: 7.7Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	21		U
72-55-9	4,4'-DDE	21		U
72-20-8	Endrin	21		U
33213-65-9	Endosulfan II	21		U
72-54-8	4,4'-DDD	21		U
1031-07-8	Endosulfan sulfate	21		U
50-29-3	4,4'-DDT	21		U
72-43-5	Methoxychlor	100		U
53494-70-5	Endrin ketone	21		U
5103-71-9	alpha-Chlordane	100		U
5103-74-2	gamma-Chlordane	100		U
8001-35-2	Toxaphene	210		U
12674-11-2	Aroclor-1016	100		U
11104-28-2	Aroclor-1221	100		U
11141-16-5	Aroclor-1232	100		U
53469-21-9	Aroclor-1242	100		U
12672-29-6	Aroclor-1248	100		U
11097-69-1	Aroclor-1254	210		U
11096-82-5	Aroclor-1260	210		U

Date Reported: 09/27/89

*
* *John J. Molloy* *
*****John J. Molloy, P.E.
Laboratory Director

20

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

B-1 10'-12'

Matrix: SOIL

SIMULATION DIV.

Sample vol: 30 (g)Lab Sample ID: 963302Level: LOWLab File ID: AGC0333 / BGC0332% Moisture: not dec. 13 dec. Date Received: 08/13/89Extraction: SONCDate Extracted: 08/04/89GPC Cleanup: N pH: 7.8Date Analyzed: 08/12/89Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/Kg	Q
319-84-6	alpha-BHC	9		U
319-85-7	beta-BHC	9		U
319-86-8	delta-BHC	9		U
58-89-9	gamma-BHC (Lindane)	9		U
76-44-8	Heptachlor	9		U
309-00-2	Aldrin	9		U
1024-57-3	Heptachlor epoxide	9		U
959-98-8	Endosulfan I	9		U
60-57-1	Dieldrin	18		U
72-55-9	4,4'-DDE	18		U
72-20-8	Endrin	18		U
33213-65-9	Endosulfan II	18		U
72-54-8	4,4'-DDD	18		U
1031-07-8	Endosulfan sulfate	18		U
50-29-3	4,4'-DDT	18		U
72-43-5	Methoxychlor	92		U
53494-70-5	Endrin ketone	18		U
5103-71-9	alpha-Chlordane	92		U
5103-74-2	gamma-Chlordane	92		U
8001-35-2	Toxaphene	180		U
12674-11-2	Aroclor-1016	92		U
11104-28-2	Aroclor-1221	92		U
11141-16-5	Aroclor-1232	92		U
53469-21-9	Aroclor-1242	92		U
12672-29-6	Aroclor-1248	92		U
11097-69-1	Aroclor-1254	180		U
11096-82-5	Aroclor-1260	180		U

Date Reported: 09/27/89

*
* *John J. Molloy* *
*****John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY**PESTICIDE ORGANICS ANALYSIS DATA SHEET**Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

B-2 20'-22'

SIMULATION DIV.

Matrix: SOIL Lab Sample ID: 963303
Sample vol: 30 (g) Lab File ID: ACG0337
Level: LOW Date Received: 8/3/89
% Moisture: not dec. 19.4 dec. Date Extracted: 8/4/89
Extraction: SONC Date Analyzed: 8/12/89
GPC Cleanup: N pH: 8.3 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/kg	Q
319-84-6	alpha-BHC	10		U
319-85-7	beta-BHC	10		U
319-86-8	delta-BHC	10		U
58-89-9	gamma-BHC (Lindane)	10		U
76-44-8	Heptachlor	10		U
309-00-2	Aldrin	10		U
1024-57-3	Heptachlor epoxide	10		U
959-98-8	Endosulfan I	10		U
60-57-1	Dieldrin	20		U
72-55-9	4,4'-DDE	20		U
72-20-8	Endrin	20		U
33213-65-9	Endosulfan II	20		U
72-54-8	4,4'-DDD	20		U
1031-07-8	Endosulfan sulfate	20		U
50-29-3	4,4'-DDT	20		U
72-43-5	Methoxychlor	99		U
53494-70-5	Endrin ketone	20		U
5103-71-9	alpha-Chlordane	99		U
5103-74-2	gamma-Chlordane	99		U
8001-35-2	Toxaphene	200		U
12674-11-2	Aroclor-1016	99		U
11104-28-2	Aroclor-1221	99		U
11141-16-5	Aroclor-1232	99		U
53469-21-9	Aroclor-1242	99		U
12672-29-6	Aroclor-1248	99		U
11097-69-1	Aroclor-1254	200		U
11096-82-5	Aroclor-1260	200		U

Date Reported: 09/28/89

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John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

FIELD BLANK

Lab Name: H2M LABS, INC. Contract: LINK FLIGHT

SIMULATION DIV.

Matrix: WATERLab Sample ID: 963305Sample vol: 1000 (mL)Lab File ID: ACG0335 / BGC0337Level: LOWDate Received: 8/3/89

% Moisture: not dec. ____ dec. ____

Date Extracted: 8/7/89Extraction: SEPFDate Analyzed: 8/12/89GPC Cleanup: N pH: 5.7Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION	UNITS: ug/L	Q
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 sulfate	0.10		U
50-29-3	4,4'-DDT	0.10		U
72-43-5	Methoxychlor	0.5		U
53494-70-5	Endrin ketone	0.10		U
5103-71-9	alpha-Chlordane	0.5		U
5103-74-2	gamma-Chlordane	0.5		U
8001-35-2	Toxaphene	1.0		U
12674-11-2	Aroclor-1016	0.5		U
11104-28-2	Aroclor-1221	0.5		U
11141-16-5	Aroclor-1232	0.5		U
53469-21-9	Aroclor-1242	0.5		U
12672-29-6	Aroclor-1248	0.5		U
11097-69-1	Aroclor-1254	1.0		U
11096-82-5	Aroclor-1260	1.0		U

Date Reported: 09/28/89

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John J. Molloy, P.E.
Laboratory Director

29

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

OK1012

Lab Name: H2M LABS, INC.

Contract: LINK01

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK01

Matrix (soil/water): SOIL

Lab Sample ID: 963020

Level (low/med): LOW

Date Received: 89/10/06

% Solids: 39.3

Concentration Units (ug/L or mg/kg dry weight): MG/KE

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30200			P
7440-36-0	Antimony	32.4			P
7440-38-2	Arsenic	10.6		N	F
7440-39-3	Barium	637			P
7440-41-7	Beryllium	5.9			P
7440-43-9	Cadmium	219	*		P
7440-70-2	Calcium	123000			P
7440-47-3	Chromium	6960	*		P
7440-48-4	Cobalt	11.7	B		P
7440-50-8	Copper	10700	*		P
7439-89-6	Iron	27900			P
7439-92-1	Lead	1070			A
7439-95-4	Magnesium	20200			P
7439-96-5	Manganese	2170	*		P
7439-97-6	Mercury	0.47			CV
7440-02-0	Nickel	620			P
7440-09-7	Potassium	3270			F
7782-49-2	Selenium	1.5	B	N	F
7440-22-4	Silver	50.5			P
7440-23-5	Sodium	2650			P
7440-28-0	Thallium	1.3	U		F
7440-62-2	Vanadium	34.0			F
7440-66-6	Zinc	4510	N*		P
	Cyanide	57.3	N*		C

Color Before: GREY

Clarity Before: OPAQUE

Texture: FINE

Color After: YELLOW

Clarity After: OPAQUE

Artifacts:

Comments:

DATE REPORTED: OCTOBER 30, 1989

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John J. Molloy, P.E.
Laboratory Director

7

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

U.S. EPA - CLP

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

OK1214

Lab Name: H2M LABS, INC.

Contract: LINK01

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK01

Matrix (soil/water): SOIL

Lab Sample ID: 963021

Level (low/med): LOW

Date Received: 89/10/06

% Solids: 46.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9310			P
7440-36-0	Antimony	112			P
7440-38-2	Arsenic	7.8	N		P
7440-39-3	Barium	436			P
7440-41-7	Beryllium	2.5			P
7440-43-8	Cadmium	423	*		P
7440-70-2	Calcium	52900			P
7440-47-3	Chromium	8410	*		P
7440-48-4	Cobalt	7.7	B		P
7440-50-8	Copper	14700	*		P
7439-89-6	Iron	23100			P
7439-92-1	Lead	619			A
7439-95-4	Magnesium	5090			P
7439-96-5	Manganese	524	*		P
7439-97-6	Mercury	0.64			CV
7440-02-0	Nickel	825			P
7440-09-7	Potassium	402	B		P
7782-49-2	Selenium	0.83	B N		F
7440-22-4	Silver	40.2			P
7440-23-5	Sodium	2010	B		P
7440-29-0	Thallium	1.1	U		F
7440-62-2	Vanadium	13.6	B		P
7440-66-6	Zinc	3660	N*		P
	Cyanide	65.3	N*		C

Color Before: GREY

Clarity Before: OPAQUE

Texture: FINE

Color After: YELLOW

Clarity After: OPAQUE

Artifacts:

Comments:

DATE REPORTED: OCTOBER 30, 1989

John J. Molloy, P.E.
Laboratory Director

8

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

OK1216

Lab Name: H2M LABS, INC.

Contract: LINK01

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK01

Matrix (soil/water): SOIL

Lab Sample ID: 963022

Level (low/med): LOW

Date Received: 89/10/06

% Solids: 53.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			P
7440-38-0	Antimony	30.3			P
7440-38-2	Arsenic	6.1	N		F
7440-39-3	Barium	319			P
7440-41-7	Beryllium	1.7	B		P
7440-43-9	Cadmium	322	*		P
7440-70-2	Calcium	65300			P
7440-47-3	Chromium	6000	*		P
7440-48-4	Cobalt	10.0	B		P
7440-50-8	Copper	10100	*		P
7439-89-6	Iron	25200			P
7439-92-1	Lead	383			CA
7439-95-4	Magnesium	11500			P
7439-96-5	Manganese	712	*		P
7439-97-6	Mercury	0.30			CV
7440-02-0	Nickel	632			P
7440-09-7	Potassium	564	B		P
7782-49-2	Selenium	0.66	B W N		F
7440-22-4	Silver	31.6			P
7440-23-5	Sodium	1460	B		P
7440-28-0	Thallium	0.86	U		F
7440-62-2	Vanadium	14.2	B		P
7440-66-6	Zinc	2400	N*		P
	Cyanide	34.5	N*		C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: FINE

Color After: YELLOW

Clarity After: OPAQUE

Artifacts:

Comments:

DATE REPORTED: OCTOBER 30, 1989

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

9

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

U.S. EPA - CLP

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

0M1012

Lab Name: H2M LABS, INC.

Contract: LINK01

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK01

Matrix (soil/water): SOIL

Lab Sample ID: 963023

Level (low/med): LOW

Date Received: 89/10/06

% Solids: 78.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8860			P
7440-36-0	Antimony	16.8			P
7440-38-2	Arsenic	4.9	N		F
7440-39-3	Barium	189			P
7440-41-7	Beryllium	0.51	U		P
7440-43-9	Cadmium	171	*		P
7440-70-2	Calcium	4300			P
7440-47-3	Chromium	1840	*		P
7440-48-4	Cobalt	5.9	B		P
7440-50-8	Copper	6790	*		P
7439-89-6	Iron	19200			P
7439-92-1	Lead	7250			A
7439-95-4	Magnesium	2910			P
7439-96-5	Manganese	187	*		P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	155			P
7440-09-7	Potassium	405	B		P
7782-49-2	Selenium	0.52	B W N		F
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium	754	B		F
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	10.2	B		P
7440-66-6	Zinc	1190	N*		P
	Cyanide	21.0	N*		C

Color Before: GREY

Clarity Before: OPAQUE

Texture: FINE

Color After: COLORLESS

Clarity After: OPAQUE

Artifacts:

Comments:

DATE REPORTED: OCTOBER 30, 1989

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John J. Mailloy, P.E.
Laboratory Director

10

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

U.S. EPA - CLP

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

QM1416

Lab Name: H2M LABS, INC.

Contract: LINK01

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK01

Matrix (soil/water): SOIL

Lab Sample ID: 963024

Level (low/med): LOW

Date Received: 89/10/06

% Solids: 66.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20100			P
7440-36-0	Antimony	7.9	U		P
7440-38-2	Arsenic	7.6	N		F
7440-39-3	Barium	151			P
7440-41-7	Beryllium	1.0	B		P
7440-43-6	Cadmium	198	*		P
7440-70-2	Calcium	3750			P
7440-47-3	Chromium	657	*		P
7440-48-4	Cobalt	17.8			P
7440-50-8	Copper	653	*		P
7439-89-6	Iron	46800			P
7439-92-1	Lead	265			A
7439-95-4	Magnesium	7220			P
7439-96-5	Manganese	1140	*		P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	96.6			P
7440-09-7	Potassium	1530			P
7782-49-2	Selenium	0.22	U	N	F
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	1120	B		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	22.3			P
7440-66-6	Zinc	591	N*		P
	Cyanide	18.0	N*		C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: FINE

Color After: YELLOW

Clarity After: OPAQUE

Artifacts:

Comments:

DATE REPORTED: OCTOBER 30, 1989

*
*

John J. Malloy, P.E.
Laboratory Director

11

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

FLDBLK

Lab Name: H2M LABS, INC.

Contract: LINK01

Lab Code: H2MLAB

Case No.:

SAS No.:

EDG No.: LINK01

Matrix (soil/water): WATER

Lab Sample ID: 963025

Level (low/med): LOW

Date Received: 89/10/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	279			P
7440-36-0	Antimony	26.0	U		P
7440-38-2	Arsenic	2.0	U	N	F
7440-39-3	Barium	35.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	292	U		P
7440-47-3	Chromium	15.5			P
7440-48-4	Cobalt	13.0	U		P
7440-50-8	Copper	19.8	B		P
7439-89-6	Iron	569			P
7439-92-1	Lead	100			A
7439-95-4	Magnesium	174	U		P
7439-96-5	Manganese	13.2	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	445	U		P
7782-49-2	Selenium	1.0	U	N	F
7440-22-4	Silver	6.0	U		P
7440-23-5	Sodium	287	B		P
7440-29-0	Thallium	3.0	U		F
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	17.3	B		P
	Cyanide	10.0	U	N*	C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: OCTOBER 30, 1989

John J. Molloy, P.E.
Laboratory Director

12

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FLDBLK

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK03

Matrix (soil/water): WATER

Lab Sample ID: 964326

Level (low/med): LOW

Date Received: 89/08/18

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	U		P
7440-36-0	Antimony	26.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	35.0	U		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	292	U		P
7440-47-3	Chromium	18.4			P
7440-48-4	Cobalt	13.0	U		P
7440-50-8	Copper	19.7	B		P
7439-89-6	Iron	28.0	B		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	174	U		P
7439-96-5	Manganese	3.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	445	U		P
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver	6.0	U		P
7440-23-5	Sodium	241	B		P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	17.0	U		P
7440-66-6	Zinc	14.4	B		P
	Cyanide	10.0	U		C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATE REPORTED: OCTOBER 31, 1989

*
*
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John J. Molloy, P.E.
Laboratory Director

6

H2M LABS, INC.

U.S. EPA - CLP

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(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

OB1012

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK03

Matrix (soil/water): SOIL

Lab Sample ID: 964321

Level (low/med): LCW

Date Received: 89/08/18

% Solids: 80.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14300			P
7440-36-0	Antimony	6.5	U		P
7440-38-2	Arsenic	8.7			P
7440-39-3	Barium	137			P
7440-41-7	Beryllium	0.97	B		P
7440-43-9	Cadmium	140			P
7440-70-2	Calcium	2790			P
7440-47-3	Chromium	157			P
7440-43-4	Cobalt	16.2			P
7440-50-8	Copper	1230			P
7439-87-6	Iron	35400			P
7439-92-1	Lead	30.1	S		F
7439-95-4	Magnesium	4140			P
7439-96-5	Manganese	3370			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	124			P
7440-09-7	Potassium	910	B		P
7782-49-2	Selenium	0.21	U	W	F
7440-22-4	Silver	3.0			P
7440-23-5	Sodium	859	B		P
7440-28-0	Thallium	0.99	B		F
7440-62-2	Vanadium	20.2			P
7440-66-6	Zinc	277	E		P
	Cyanide	5.2			C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: MEDIUM

Color After: YLW-GRN

Clarity After: OPAQUE

Artifacts: YES

Comments:

DATE REPORTED: OCTOBER 31, 1989

ARTIFACTS: ROCKS

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

7

H2M LABS, INC.

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U.S. EPA - CLP

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

OB1416

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDS No.: LINK03

Matrix (soil/water): SOIL

Lab Sample ID: 964322

Level (low/med): LOW

Date Received: 89/08/18

% Solids: 82.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9060			P
7440-36-0	Antimony	50.6			P
7440-38-2	Arsenic	15.5			P
7440-39-3	Barium	62.6			P
7440-41-7	Beryllium	0.61	B		P
7440-43-9	Cadmium	84.7			P
7440-70-2	Calcium	2250			P
7440-47-3	Chromium	90.0			P
7440-48-4	Cobalt	10.2	B		P
7440-50-8	Copper	506			P
7439-89-6	Iron	24200			P
7439-92-1	Lead	30.4	S		P
7439-95-4	Magnesium	3150			P
7439-96-5	Manganese	1700			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	65.7			P
7440-09-7	Potassium	576	B		P
7782-49-2	Selenium	0.22	U W		P
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium	795	B		P
7440-28-0	Thallium	0.66	B		P
7440-62-2	Vanadium	14.0			P
7440-66-6	Zinc	178	E		P
	Cyanide	6.5			C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: MEDIUM

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

Comments:

DATE REPORTED: OCTOBER 31, 1989

ARTIFACTS: ROCKS

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John J. Molloy, P.E.
Laboratory Director

8

H2M LABS, INC.

U.S. EPA - CLP

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EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

OD2024

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK03

Matrix (soil/water): SOIL

Lab Sample ID: 964320

Level (low/med): LOW

Date Received: 89/08/18

% Solids: 80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	6.5	U		P
7440-38-2	Arsenic	11.1			P
7440-39-3	Barium	51.9			P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	19.6			P
7440-70-2	Calcium	1440			P
7440-47-3	Chromium	45.9			P
7440-48-4	Cobalt	10.8	B		P
7440-50-8	Copper	30.9			P
7439-89-6	Iron	26800			P
7439-92-1	Lead	9.5			P
7439-95-4	Magnesium	3670			P
7439-96-5	Manganese	604			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	39.1			P
7440-09-7	Potassium	601	B		P
7782-49-2	Selenium	0.25	U	W	P
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium	843	B		P
7440-28-0	Thallium	1.1	B		P
7440-62-2	Vanadium	13.8			P
7440-66-6	Zinc	87.8	E		P
	Cyanide	1.2			C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: MEDIUM

Color After: GREEN

Clarity After: OPAQUE

Artifacts: YES

Comments:

DATE REPORTED: OCTOBER 31, 1989

ARTIFACTS: ROCKS

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John J. Molloy, P.E.
Laboratory Director

9

H2M LABS, INC.

U.S. EPA - CLP

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EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

OE1012

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK03

Matrix (soil/water): SOIL

Lab Sample ID: 964323

Level (low/med): LOW

Date Received: 89/08/16

% Solids: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14300			P
7440-36-0	Antimony	5.7	U		P
7440-38-2	Arsenic	8.5			F
7440-39-3	Barium	113			P
7440-41-7	Beryllium	0.88	B		P
7440-43-9	Cadmium	103			P
7440-70-2	Calcium	13300			P
7440-47-3	Chromium	308			P
7440-48-4	Cobalt	10.4	B		P
7440-50-8	Copper	485			P
7439-89-6	Iron	26500			P
7439-92-1	Lead	41.1			F
7439-95-4	Magnesium	4620			P
7439-96-5	Manganese	1750			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	109			P
7440-09-7	Potassium	2010			P
7782-49-2	Selenium	0.20	U W		F
7440-22-4	Silver	2.5			F
7440-23-5	Sodium	1700			P
7440-28-0	Thallium	0.60	U		F
7440-62-2	Vanadium	25.9			P
7440-66-6	Zinc	328	E		P
	Cyanide	4.3			C

Color Before: GREY

Clarity Before: OPAQUE

Texture: FINE

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

Comments:

DATE REPORTED: OCTOBER 31, 1989
ARTIFACTS: ROCKS

* *John J. Molloy* *
* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

10

H2M LABS, INC.

U.S. EPA - CLP

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(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

OE1214

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK03

Matrix (soil/water): SOIL

Lab Sample ID: 964324

Level (low/med): LOW

Date Received: 89/08/18

% Solids: 85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	6.1	U		P
7440-38-2	Arsenic	6.6			F
7440-39-3	Barium	79.5			P
7440-41-7	Beryllium	0.84	E		P
7440-43-9	Cadmium	38.7			P
7440-70-2	Calcium	33800			P
7440-47-3	Chromium	133			P
7440-48-4	Cobalt	9.5	B		P
7440-50-8	Copper	210			P
7439-89-6	Iron	26500			F
7439-92-1	Lead	65.1	S		F
7439-95-4	Magnesium	5230			P
7439-96-5	Manganese	641			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	59.0			P
7440-09-7	Potassium	1640			P
7782-49-2	Selenium	0.23	U		F
7440-22-4	Silver	1.4	U		P
7440-23-5	Sodium	2220			P
7440-28-0	Thallium	0.70	U		F
7440-62-2	Vanadium	18.4			P
7440-66-6	Zinc	231	E		P
	Cyanide	1.6			C

Color Before: GREY

Clarity Before: OPAQUE

Texture: MEDIUM

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

Comments:

DATE REPORTED: OCTOBER 31, 1989

ARTIFACTS: ROCKS

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John J. Molloy, P.E.
Laboratory Director

11

H2M LABS, INC.

U.S. EPA - CLP

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

OFN812

Lab Name: H2M LABS, INC.

Contract: SINGERLINK

Lab Code: H2MLAB

Case No.:

SAS No.:

SDG No.: LINK03

Matrix (soil/water): SOIL

Lab Sample ID: 964325

Level (low/med): LOW

Date Received: 89/08/18

% Solids: 37.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15600			P
7440-36-0	Antimony	20.5	B		P
7440-38-2	Arsenic	9.7			F
7440-39-3	Barium	130			P
7440-41-7	Beryllium	2.5			P
7440-43-9	Cadmium	152			P
7440-70-2	Calcium	150000			P
7440-47-3	Chromium	2880			P
7440-48-4	Cobalt	14.5	B		P
7440-50-8	Copper	6810			P
7439-89-6	Iron	41200			P
7439-92-1	Lead	70.3	S		F
7439-95-4	Magnesium	22100			P
7439-96-5	Manganese	952			P
7439-97-6	Mercury	0.37			CV
7440-02-0	Nickel	330			P
7440-09-7	Potassium	1190	B		P
7782-49-2	Selenium	0.53	U W		F
7440-22-4	Silver	6.8			P
7440-23-5	Sodium	2220	B		P
7440-28-0	Thallium	1.6	U		F
7440-62-2	Vanadium	35.7			P
7440-66-6	Zinc	1270	E		P
	Cyanide	14.4			C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: FINE

Color After: COLORLESS

Clarity After: OPAQUE

Artifacts: YES

Comments:

DATE REPORTED: OCTOBER 31, 1989

ARTIFACTS: ROCKS

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John J. Molloy, P.E.
Laboratory Director

12

H2M LABS, INC.

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(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OUTFALL K 1

10-121

Lab Code: HP001

Case No.: -----SAS No.: -----

SDG No.: OTFL. K

Matrix: (soil/water) SOIL

Lab Sample ID: 963013 RE

Sample wt/Vol: 4.9 (g/mL) G

Lab File ID: >P1159

Level: (low/med) LDW

Date Received: 7/29/89

% Moisture: not dec.61

Date Analyzed: 8/03/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/KG

Q

CAS NO.

COMPOUND

74-87-3-----	Chloromethane	26.	IU
74-83-9-----	Bromomethane	26.	IU
75-01-4-----	Vinyl Chloride	26.	IU
75-00-3-----	Chloroethane	26.	IU
75-09-2-----	Methylene Chloride	13.	IU
67-64-1-----	Acetone	26.	IU
75-15-0-----	Carbon Disulfide	13.	IU
75-35-4-----	1,1-Dichloroethene	13.	IU
75-34-3-----	1,1-Dichloroethane	13.	IU
540-59-0-----	1,2-Dichloroethene (total)	13.	IU
67-66-3-----	Chloroform	13.	IU
107-06-2-----	1,2-Dichloroethane	13.	IU
78-93-3-----	2-Butanone	26.	IU
71-55-6-----	1,1,1-Trichloroethane	13.	IU
56-23-5-----	Carbon Tetrachloride	13.	IU
108-05-4-----	Vinyl Acetate	26.	IU
75-27-4-----	Bromodichloromethane	13.	IU
78-87-5-----	1,2-Dichloropropane	13.	IU
10061-01-5-----	cis-1,3-Dichloropropene	13.	IU
79-01-6-----	Trichloroethene	8.	IJ
124-48-1-----	Dibromochloromethane	13.	IU
79-00-5-----	1,1,2-Trichloroethane	13.	IU
71-43-2-----	Benzene	13.	IU
10061-02-6-----	trans-1,3-Dichloropropene	13.	IU
75-25-2-----	Bromoform	13.	IU
108-10-1-----	4-Methyl-2-pentanone	26.	IU
591-78-6-----	2-Hexanone	26.	IU
127-18-4-----	Tetrachloroethene	13.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	13.	IU
108-88-3-----	Toluene	13.	IU
108-90-7-----	Chlorobenzene	13.	IU
100-41-4-----	Ethylbenzene	13.	IU
100-42-5-----	Styrene	13.	IU
133-02-7-----	Xylene (total)	13.	IU

John J. Molloy, P.E.

Laboratory Director

H2M LABS, INC.

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1
1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS INC. Contract: -----

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTFL. K

Matrix: (soil/water) SOIL Lab Sample ID: 963013 RE

Sample wt/vol: 4.9 (g/mL) G Lab File ID: >P1159

Level: (low/med) LOW Date Received: 7/29/89

% Moisture: not dec.61 Date Analyzed: 8/03/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 624920	Disulfide, dimethyl (9CI)	10.14	16.	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OUTFALL K 1

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL. K

Matrix: (soil/water) SOIL

Lab Sample ID: 963014 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >P1160

Level: (low/med) LDW

Date Received: 7/29/89

% Moisture: not dec.53

Date Analyzed: 8/03/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3	Chloromethane	21.	IU
74-83-9	Bromomethane	21.	IU
75-01-4	Vinyl Chloride	21.	IU
75-00-3	Chloroethane	21.	IU
75-09-2	Methylene Chloride	11.	IU
67-64-1	Acetone	21.	IU
75-15-0	Carbon Disulfide	11.	IU
75-35-4	1,1-Dichloroethene	11.	IU
75-34-3	1,1-Dichloroethane	11.	IU
540-59-0	1,2-Dichloroethene (total)	11.	IU
67-66-3	Chloroform	11.	IU
107-06-2	1,2-Dichloroethane	11.	IU
78-93-3	2-Butanone	21.	IU
71-55-6	1,1,1-Trichloroethane	11.	IU
56-23-5	Carbon Tetrachloride	11.	IU
108-05-4	Vinyl Acetate	21.	IU
75-27-4	Bromodichloromethane	11.	IU
78-87-5	1,2-Dichloropropane	11.	IU
10061-01-5	cis-1,3-Dichloropropene	11.	IU
79-01-6	Trichloroethene	12.	I
124-48-1	Dibromochloromethane	11.	IU
79-00-5	1,1,2-Trichloroethane	11.	IU
71-43-2	Benzene	11.	IU
10061-02-6	trans-1,3-Dichloropropene	11.	IU
75-25-2	Bromoform	11.	IU
108-10-1	4-Methyl-2-pentanone	21.	IU
591-78-6	2-Hexanone	21.	IU
127-18-4	Tetrachloroethene	11.	IU
79-34-5	1,1,2,2-Tetrachloroethane	11.	IU
108-88-3	Toluene	11.	IU
108-90-7	Chlorobenzene	11.	IU
100-41-4	Ethylbenzene	11.	IU
100-42-5	Styrene	11.	IU
133-02-7	Xylene (total)	11.	IU

John J. Molloy, P.E.

Laboratory Director

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OUTFALL K 12-14 RE

Lab Code: HP001

Case No.: ----- SAS No.: -----

SDG No.: DTFL.K 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963014

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >P1160

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.53

Date Analyzed: 8/03/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
2.				
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* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OUTFALL K 1

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: -----

SDG No.: OTFL. K

Matrix: (soil/water) SOIL

Lab Sample ID: 963015

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: >P1152

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.47

Date Analyzed: 8/02/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3	Chloromethane	20.	IU
74-83-9	Bromomethane	20.	IU
75-01-4	Vinyl Chloride	20.	IU
75-00-3	Chloroethane	20.	IU
75-09-2	Methylene Chloride	10.	IU
67-64-1	Acetone	20.	IU
75-15-0	Carbon Disulfide	10.	IU
75-35-4	1,1-Dichloroethene	10.	IU
75-34-3	1,1-Dichloroethane	10.	IU
540-59-0	1,2-Dichloroethene (total)	10.	IU
67-66-3	Chloroform	10.	IU
107-06-2	1,2-Dichloroethane	10.	IU
78-93-3	2-Butanone	20.	IU
71-55-6	1,1,1-Trichloroethane	10.	IU
56-23-5	Carbon Tetrachloride	10.	IU
108-05-4	Vinyl Acetate	20.	IU
75-27-4	Bromodichloromethane	10.	IU
78-87-5	1,2-Dichloropropane	10.	IU
10061-01-5	cis-1,3-Dichloropropene	10.	IU
79-01-6	Trichloroethene	27.	IU
124-48-1	Dibromochloromethane	10.	IU
79-00-5	1,1,2-Trichloroethane	10.	IU
71-43-2	Benzene	10.	IU
10061-02-6	trans-1,3-Dichloropropene	10.	IU
75-25-2	Bromoform	10.	IU
108-10-1	4-Methyl-2-pentanone	20.	IU
591-78-6	2-Hexanone	20.	IU
127-18-4	Tetrachloroethene	10.	IU
79-34-5	1,1,2,2-Tetrachloroethane	10.	IU
108-88-3	Toluene	10.	IU
108-90-7	Chlorobenzene	10.	IU
100-41-4	Ethylbenzene	10.	IU
100-42-5	Styrene	10.	IU
133-02-7	Xylene (total)	10.	IU

John J. Molloy, P.E.

Laboratory Director

H2M LABS, INC.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OUTFALL K 14-16

Lab Code: -----

Case No.: -----

SAS No.: -----

SDG No.: OTFL. K

Matrix: (soil/water) SOIL

Lab Sample ID: 963015

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: >P1152

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.47

Date Analyzed: 8/02/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.69	10.	J
2.	Unknown	14.24	16.	J
3. 12031738	Propanal, 2-propenylhydrazone	14.52	14.	J
4. 2847725	Decane, 4-methyl- (8CI9CI)	15.46	24.	J
5.	Unknown	16.12	45.	J
6. 1120214	Undecane (8CI9CI)	16.86	31.	J
7.	Dimethyl octane isomer	17.10	12.	J
8.	Unknown	17.71	16.	J
9.	Unknown	17.94	24.	J
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John J. Molloy, P.E.

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OUTFALL M 1

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL. K

Matrix: (soil/water) SOIL

Lab Sample ID: 963016 RE

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: >P1161

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.21

Date Analyzed: 8/03/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3	Chloromethane	12.	IU
74-83-9	Bromomethane	12.	IU
75-01-4	Vinyl Chloride	12.	IU
75-00-3	Chloroethane	12.	IU
75-09-2	Methylene Chloride	6.	IU
67-64-1	Acetone	12.	IU
75-15-0	Carbon Disulfide	6.	IU
75-35-4	1,1-Dichloroethene	6.	IU
75-34-3	1,1-Dichloroethane	6.	IU
540-59-0	1,2-Dichloroethene (total)	6.	IU
67-66-3	Chloroform	6.	IU
107-06-2	1,2-Dichloroethane	6.	IU
78-93-3	2-Butanone	12.	IU
71-55-6	1,1,1-Trichloroethane	62.	I
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	12.	IU
75-27-4	Bromodichloromethane	6.	IU
78-87-5	1,2-Dichloropropane	6.	IU
10061-01-5	cis-1,3-Dichloropropene	6.	IU
79-01-6	Trichloroethene	14.	I
124-48-1	Dibromochloromethane	6.	IU
79-00-5	1,1,2-Trichloroethane	6.	IU
71-43-2	Benzene	6.	IU
10061-02-6	trans-1,3-Dichloropropene	6.	IU
75-25-2	Bromoform	6.	IU
108-10-1	4-Methyl-2-pentanone	12.	IU
591-78-6	2-Hexanone	12.	IU
127-18-4	Tetrachloroethene	6.	IU
79-34-5	1,1,2,2-Tetrachloroethane	6.	IU
108-88-3	Toluene	6.	IU
108-90-7	Chlorobenzene	6.	IU
100-41-4	Ethylbenzene	6.	IU
100-42-5	Styrene	6.	IU
133-02-7	Xylene (total)	6.	IU

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OUTFALL M 10-12 RE

Lab Code: -----

Case No.: -----

SAS No.: -----

SDG No.: OTFL. K

Matrix: (soil/water) SOIL

Lab Sample ID: 963016 RE

Sample wt/vol: 5.4 (g/mL) G

Lab File ID: >P1161

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.21

Date Analyzed: 8/03/89

Column: CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:

Number TICs found: 8

(ug/L or ug/Kg) ug/KG

CAS*NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Tetramethyl Cyclopentane ^{Unknown} isom	13.66	15.	J
2.	Unknown substituted propene	13.92	18.	J
3.	Propenyl Cyclohexane ^{Unknown} isomer	14.18	21.	J
4.	Unknown	14.49	9.	J
5. 7146603	Octane, 2,3-dimethyl- (8CI9C)	15.10	12.	J
6.	Dimethylcyclopentylmethane ^{Unknown}	15.45	21.	J
7. 1120214	Undecane (8CI9CI)	16.83	13.	J
8. 872786	Bicyclo[2.2.1]heptane, 2-met	17.09	18.	J
9.	^{Unknown}			
10.				
11.				
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J. J. Molloy

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OUTFALL M 1

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ~~HF001~~

Case No.: ----- SAS No.: ----- SDG No.: OTFL. K

Matrix: (soil/water) SOIL

Lab Sample ID: 963017

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: >P1154

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.34

Date Analyzed: 8/02/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG Q

74-87-3	Chloromethane	16.	IU
74-83-9	Bromomethane	16.	IU
75-01-4	Vinyl Chloride	16.	IU
75-00-3	Chloroethane	16.	IU
75-09-2	Methylene Chloride	8.	IU
67-64-1	Acetone	95.	I
75-15-0	Carbon Disulfide	8.	IU
75-35-4	1,1-Dichloroethene	8.	IU
75-34-3	1,1-Dichloroethane	8.	IU
540-59-0	1,2-Dichloroethene (total)	8.	IU
67-66-3	Chloroform	8.	IU
107-06-2	1,2-Dichloroethane	8.	IU
78-93-3	2-Butanone	16.	IU
71-55-6	1,1,1-Trichloroethane	8.	IU
56-23-5	Carbon Tetrachloride	8.	IU
108-05-4	Vinyl Acetate	16.	IU
75-27-4	Bromodichloromethane	8.	IU
78-87-5	1,2-Dichloropropane	8.	IU
10061-01-5	cis-1,3-Dichloropropene	8.	IU
79-01-6	Trichloroethene	9.	18
124-48-1	Dibromochloromethane	8.	IU
79-00-5	1,1,2-Trichloroethane	8.	IU
71-43-2	Benzene	8.	IU
10061-02-6	trans-1,3-Dichloropropene	8.	IU
75-25-2	Bromoform	8.	IU
108-10-1	4-Methyl-2-pentanone	16.	IU
591-79-6	2-Hexanone	16.	IU
127-18-4	Tetrachloroethene	8.	IU
79-34-5	1,1,2,2-Tetrachloroethane	8.	IU
108-88-3	Toluene	8.	IU
108-90-7	Chlorobenzene	8.	IU
100-41-4	Ethylbenzene	8.	IU
100-42-5	Styrene	8.	IU
133-02-7	Xylene (total)	8.	IU

John J. Molloy, P.E.

Laboratory Director

H2M LABS, INC.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

OUTFALL M 14-16

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: OTFL.K 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: 963017

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >P1154

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.34

Date Analyzed: 8/02/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS			
2.	WERE FOUND			
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* *John J. Molloy* *

John J. Molloy, PE
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC.

Contract: -----

Lab Code: ~~HP001~~

Case No.: ----- SAS No.: ----- SDG No.: OTFL. K

Matrix: (soil/water) WATER

Lab Sample ID: 963018

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1148

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.0

Date Analyzed: 8/02/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10.	IU
74-83-9	Bromomethane	10.	IU
75-01-4	Vinyl Chloride	10.	IU
75-00-3	Chloroethane	10.	IU
75-09-2	Methylene Chloride	5.	IU
67-64-1	Acetone	10.	IU
75-15-0	Carbon Disulfide	5.	IU
75-35-4	1,1-Dichloroethene	5.	IU
75-34-3	1,1-Dichloroethane	5.	IU
540-59-0	1,2-Dichloroethene (total)	5.	IU
67-66-3	Chloroform	5.	IU
107-06-2	1,2-Dichloroethane	5.	IU
78-93-3	2-Butanone	10.	IU
71-55-6	1,1,1-Trichloroethane	5.	IU
56-23-5	Carbon Tetrachloride	5.	IU
108-05-4	Vinyl Acetate	10.	IU
75-27-4	Bromodichloromethane	5.	IU
78-87-5	1,2-Dichloropropane	5.	IU
10061-01-5	cis-1,3-Dichloropropene	5.	IU
79-01-6	Trichloroethene	5.	IU
124-48-1	Dibromochloromethane	5.	IU
79-00-5	1,1,2-Trichloroethane	5.	IU
71-43-2	Benzene	5.	IU
10061-02-6	trans-1,3-Dichloropropene	5.	IU
75-25-2	Bromoform	5.	IU
108-10-1	4-Methyl-2-pentanone	10.	IU
591-78-6	2-Hexanone	10.	IU
127-18-4	Tetrachloroethene	5.	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3	Toluene	5.	IU
108-90-7	Chlorobenzene	5.	IU
100-41-4	Ethylbenzene	5.	IU
100-42-5	Styrene	5.	IU
133-02-7	Xylene (total)	5.	IU

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

TRIP BLANK

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL.K 10-12

Matrix: (soil/water) WATER

Lab Sample ID: 963018

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1148

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec. 0

Date Analyzed: 8/02/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
2.				
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4.				
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John J. Molloy

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: H2M LABS INC.

Contract:-----

Lab Code: H2001

Case No.: -----SAS No.: -----SDG No.: OTFL. K

Matrix: (soil/water) WATER

Lab Sample ID: 963019

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1149

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec.0

Date Analyzed: 8/02/89

Column: (pack/cap) CAP

Dilution Factor: 1.00000

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10.	IU
74-83-9-----	Bromomethane	10.	IU
75-01-4-----	Vinyl Chloride	10.	IU
75-00-3-----	Chloroethane	10.	IU
75-09-2-----	Methylene Chloride	5.	IU
67-64-1-----	Acetone	10.	IU
75-15-0-----	Carbon Disulfide	5.	IU
75-35-4-----	1,1-Dichloroethene	5.	IU
75-34-3-----	1,1-Dichloroethane	5.	IU
540-59-0-----	1,2-Dichloroethene (total)	5.	IU
67-66-3-----	Chloroform	5.	IU
107-06-2-----	1,2-Dichloroethane	5.	IU
78-93-3-----	2-Butanone	10.	IU
71-55-6-----	1,1,1-Trichloroethane	5.	IU
56-23-5-----	Carbon Tetrachloride	5.	IU
108-05-4-----	Vinyl Acetate	10.	IU
75-27-4-----	Bromodichloromethane	5.	IU
78-87-5-----	1,2-Dichloropropane	5.	IU
10061-01-5-----	cis-1,3-Dichloropropene	5.	IU
79-01-6-----	Trichloroethene	5.	IU
124-48-1-----	Dibromochloromethane	5.	IU
79-00-5-----	1,1,2-Trichloroethane	5.	IU
71-43-2-----	Benzene	5.	IU
10061-02-6-----	trans-1,3-Dichloropropene	5.	IU
75-25-2-----	Bromoform	5.	IU
108-10-1-----	4-Methyl-2-pentanone	10.	IU
591-78-6-----	2-Hexanone	10.	IU
127-18-4-----	Tetrachloroethene	5.	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	IU
108-88-3-----	Toluene	5.	IU
108-90-7-----	Chlorobenzene	5.	IU
100-41-4-----	Ethylbenzene	5.	IU
100-42-5-----	Styrene	5.	IU
133-02-7-----	Xylene (total)	5.	IU

John J. Molloy, P.E.

Laboratory Director

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: H2M LABS INC.

Contract: -----

FIELD BLANK

Lab Code: HP001

Case No.: ----- SAS No.: ----- SDG No.: OTFL.K 10-12

Matrix: (soil/water) WATER

Lab Sample ID: 963019

Sample wt/vol: 5 (g/mL) ML

Lab File ID: >P1149

Level: (low/med) LOW

Date Received: 7/29/89

% Moisture: not dec. 0

Date Analyzed: 8/02/89

Column: CAP

Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	NO NON TARGETED COMPOUNDS WERE FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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11.				
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21.				
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John J. Molloy, P.E.

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Laboratory Director

H2M LABS, INC.

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL J
10' - 12'

Lab Name: H2M LABS, INC. Contract: SINGER LINK
SDG No.: LINK02
Matrix (soil/water): SOIL Lab Sample ID: 963306
Level (low/med): LOW Date Received: 08/03/89
% Solids : 41.6

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8960			P
7440-36-0	Antimony	25.5	B	N	P
7440-38-2	Arsenic	22.6		+N	F
7440-39-3	Barium	450		N	P
7440-41-7	Beryllium	1.4	B	N	P
7440-43-9	Cadmium	4020		*	P
7440-70-2	Calcium	56000		E	P
7440-47-3	Chromium	7330		*	P
7440-48-4	Cobalt	12.0	B	N	P
7440-50-8	Copper	7000		*	P
7439-89-6	Iron	27600		*	P
7439-92-1	Lead	327		N	A
7439-95-4	Magnesium	4790			P
7439-96-5	Manganese	585			P
7439-97-6	Mercury	0.93			CV
7440-02-0	Nickel	4690		N	P
7440-09-7	Potassium	484	B	E	P
7782-49-2	Selenium	0.74	U	N	F
7440-22-4	Silver	50.5		N	P
7440-23-5	Sodium	2270	B	*	P
7440-28-0	Thallium	1.1	U	W	F
7440-62-2	Vanadium	14.4	B	N	P
7440-66-6	Zinc	6110		N	P
	Cyanide	216		N	C

Color Before: GREENISH/GREY Clarity Before: OPAQUE Texture: MEDIUM
Color After: YELLOW Clarity After: OPAQUE Artifacts: YES

COMMENTS:

Date Reported: 11/11/89
Artifacts: TWIGS

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*
*

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL J
14' - 16'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963307

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 79.7

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5590			P
7440-36-0	Antimony	4.3	U	N	P
7440-38-2	Arsenic	4.6		N	F
7440-39-3	Barium	111		N	P
7440-41-7	Beryllium	1.2		N	P
7440-43-9	Cadmium	1220		*	P
7440-70-2	Calcium	54000		E	P
7440-47-3	Chromium	1630		*	P
7440-48-4	Cobalt	7.3	B	N	P
7440-50-8	Copper	1310		*	P
7439-89-6	Iron	16400		*	P
7439-92-1	Lead	91.9		N	A
7439-95-4	Magnesium	8050			P
7439-96-5	Manganese	586			P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	531		N	P
7440-09-7	Potassium	488	B	E	P
7782-49-2	Selenium	0.36	U	N	F
7440-22-4	Silver	11.4		N	P
7440-23-5	Sodium	811	B	*	P
7440-28-0	Thallium	0.54	U	W	F
7440-62-2	Vanadium	10.2		N	P
7440-66-6	Zinc	841		N	P
	Cyanide	12.8		N	C

Color Before: GREY

Clarity Before: OPAQUE

Texture: CLAY

Color After: YELLOW

Clarity After: OPAQUE

Artifacts:

COMMENTS:

Date Reported: 11/11/89

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*

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL L
10' - 12'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963308

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 56.4

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10600			P
7440-36-0	Antimony	9.2	U	N	P
7440-38-2	Arsenic	7.7		N	F
7440-39-3	Barium	239		N	P
7440-41-7	Beryllium	2.1		N	P
7440-43-9	Cadmium	28.8		*	P
7440-70-2	Calcium	94400		E	P
7440-47-3	Chromium	1360		*	P
7440-48-4	Cobalt	8.9	B	N	P
7440-50-8	Copper	1890		*	P
7439-89-6	Iron	27100		*	P
7439-92-1	Lead	156.2		N	A
7439-95-4	Magnesium	15400			P
7439-96-5	Manganese	480			P
7439-97-6	Mercury	0.40			CV
7440-02-0	Nickel	179		N	P
7440-09-7	Potassium	861	B	E	P
7782-49-2	Selenium	0.51	U	N	F
7440-22-4	Silver	13.1		N	P
7440-23-5	Sodium	1500	B	*	P
7440-28-0	Thallium	0.76	U		F
7440-62-2	Vanadium	23.4		N	P
7440-66-6	Zinc	1420		N	P
	Cyanide	12.9		N	C

Color Before: GREY

Clarity Before: OPAQUE

Texture: CLAY

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

COMMENTS:

Date Reported: 11/11/89

Artifacts: ROCKS

* *[Signature]* *

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL L
16' - 18'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963309

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 81.3

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	G	M
7429-90-5	Aluminum	3510			P
7440-36-0	Antimony	6.4	U	N	P
7440-38-2	Arsenic	3.2		N	F
7440-39-3	Barium	59.8		N	P
7440-41-7	Beryllium	0.74	B	N	P
7440-43-9	Cadmium	14.8		*	P
7440-70-2	Calcium	36800		E	P
7440-47-3	Chromium	374		*	P
7440-48-4	Cobalt	3.2	B	N	P
7440-50-8	Copper	664		*	P
7439-89-6	Iron	9480		*	P
7439-92-1	Lead	29.5		N	A
7439-95-4	Magnesium	7650			P
7439-96-5	Manganese	503			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	53.6		N	P
7440-09-7	Potassium	485	B	E	P
7782-49-2	Selenium	0.35	U	NW	F
7440-22-4	Silver	2.0	B	N	P
7440-23-5	Sodium	1050	B	*	P
7440-28-0	Thallium	0.53	U		F
7440-62-2	Vanadium	9.1	B	N	P
7440-66-6	Zinc	146		N	P
	Cyanide	4.8		N	C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: FINE

Color After: COLORLESS

Clarity After: OPAQUE

Artifacts: YES

COMMENTS: MAJORITY OF SAMPLE WAS WATER, WITH LARGE ROCKS.

Date Reported: 11/11/89

Artifacts: ROCKS

* *John J. Molloy* *

10

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL H
10' - 12'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963310

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 92.0

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4620			P
7440-36-0	Antimony	5.6	U	N	P
7440-38-2	Arsenic	3.4		N	F
7440-39-3	Barium	34.1	B	N	P
7440-41-7	Beryllium	1.3		N	P
7440-43-9	Cadmium	43.8		*	P
7440-70-2	Calcium	67100		E	P
7440-47-3	Chromium	122		*	P
7440-48-4	Cobalt	4.3	B	N	P
7440-50-8	Copper	794		*	P
7439-89-6	Iron	13000		*	P
7439-92-1	Lead	30.4		N	A
7439-95-4	Magnesium	18500			P
7439-96-5	Manganese	393			P
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	50.0		N	P
7440-09-7	Potassium	545	B	E	P
7782-49-2	Selenium	0.33	U	WN	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	910	B	*	P
7440-28-0	Thallium	0.50	U		F
7440-62-2	Vanadium	7.8	B	N	P
7440-66-6	Zinc	152		N	P
	Cyanide	13.5		N	C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: MEDIUM

Color After: COLORLESS

Clarity After: OPAQUE

Artifacts: YES

REMARKS:

Date Reported: 11/11/89

Artifacts: ROCKS/TWIGS

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*

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL H
18' - 20'

Lab Name: H2M LABS, INC. Contract: SINGER LINK
SDG No.: LINK02
Matrix (soil/water): SOIL Lab Sample ID: 963311
Level (low/med): LOW Date Received: 08/03/89
% Solids : 84.4

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7840			P
7440-36-0	Antimony	4.4	U	N	P
7440-38-2	Arsenic	6.8		N	F
7440-39-3	Barium	49.2		N	P
7440-41-7	Beryllium	0.34	B	N	P
7440-43-9	Cadmium	79.1		*	P
7440-70-2	Calcium	2090		E	P
7440-47-3	Chromium	112		*	P
7440-48-4	Cobalt	7.9	B	N	P
7440-50-8	Copper	212		*	P
7439-89-6	Iron	20200		*	P
7439-92-1	Lead	15.0		N	F
7439-95-4	Magnesium	2920			P
7439-96-5	Manganese	816			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	56.3		N	P
7440-09-7	Potassium	611	B	E	P
7782-49-2	Selenium	0.43	U	N	F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	610	B	*	P
7440-28-0	Thallium	0.65	U	W	F
7440-62-2	Vanadium	10.6		N	P
7440-66-6	Zinc	212		N	P
	Cyanide	5.0		N	C

Color Before: BROWN Clarity Before: OPAQUE Texture: CLAY
Color After: YELLOW Clarity After: OPAQUE Artifacts: YES

COMMENTS:

Date Reported: 11/11/89
Artifacts: ROCKS

* *John J. Molloy* *

12

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL I
10' - 12'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963312

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 81.9

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6230			P
7440-36-0	Antimony	4.5	U	N	P
7440-38-2	Arsenic	7.7		N	F
7440-39-3	Barium	120		N	P
7440-41-7	Beryllium	0.35	B	N	P
7440-43-9	Cadmium	3.7		*	P
7440-70-2	Calcium	4170		E	P
7440-47-3	Chromium	153		*	P
7440-48-4	Cobalt	8.0	B	N	P
7440-50-8	Copper	135		*	P
7439-89-6	Iron	16200		*	P
7439-92-1	Lead	29.6		N	A
7439-95-4	Magnesium	3330			P
7439-96-5	Manganese	532			P
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	41.9		N	P
7440-09-7	Potassium	272	B	E	P
7782-49-2	Selenium	0.41	U	N	F
7440-22-4	Silver	7.7		N	P
7440-23-5	Sodium	748	B	*	P
7440-28-0	Thallium	0.61	U		F
7440-62-2	Vanadium	9.0		N	P
7440-66-6	Zinc	499		N	P
	Cyanide	7.6		N	C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: CLAY

Color After: COLORLESS

Clarity After: OPAQUE

Artifacts: YES

COMMENTS: MAJORITY OF SAMPLE CONSISTS OF ROCKS

Date Reported: 11/11/89

Artifacts: ROCKS

John J. Molloy

13

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL I
13.5' - 14.5'

Lab Name: H2M LABS, INC. Contract: SINGER LINK
SDG No.: LINK02
Matrix (soil/water): SOIL Lab Sample ID: 963313
Level (low/med): LOW Date Received: 08/03/89
% Solids : 81.4

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8270			P
7440-36-0	Antimony	6.4	U	N	P
7440-38-2	Arsenic	9.8		N	F
7440-39-3	Barium	183		N	P
7440-41-7	Beryllium	1.2		N	P
7440-43-9	Cadmium	10.8		*	P
7440-70-2	Calcium	40500		E	P
7440-47-3	Chromium	362		*	P
7440-48-4	Cobalt	8.9	B	N	P
7440-50-8	Copper	367		*	P
7439-89-6	Iron	21700		*	P
7439-92-1	Lead	86.1		N	A
7439-95-4	Magnesium	7030			P
7439-96-5	Manganese	539			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	114		N	P
7440-09-7	Potassium	593	B	E	P
7782-49-2	Selenium	0.45	U	N	F
7440-22-4	Silver	12.5		N	P
7440-23-5	Sodium	1050	B	*	P
7440-28-0	Thallium	0.76	B		F
7440-62-2	Vanadium	13.0		N	P
7440-66-6	Zinc	956		N	P
	Cyanide	10.0		N	C

Color Before: BROWN Clarity Before: OPAQUE Texture: CLAY
Color After: YELLOW Clarity After: OPAQUE Artifacts: YES

COMMENTS:

Date Reported: 11/11/89
Artifacts: ROCKS

* *Shaffer* *

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL I
20' - 22'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963314

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 64.4

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	G	M
7429-90-5	Aluminum	5980			P
7440-36-0	Antimony	6.7	U	N	P
7440-38-2	Arsenic	8.0		+N	F
7440-39-3	Barium	145		N	P
7440-41-7	Beryllium	0.78	B	N	P
7440-43-9	Cadmium	88.1		*	P
7440-70-2	Calcium	19100		E	P
7440-47-3	Chromium	2710		*	P
7440-48-4	Cobalt	7.0	B	N	P
7440-50-8	Copper	1400		*	P
7439-89-6	Iron	17800		*	P
7439-92-1	Lead	72.5		N	A
7439-95-4	Magnesium	16700			P
7439-96-5	Manganese	591			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	138		N	P
7440-09-7	Potassium	608	B	E	P
7782-49-2	Selenium	0.44	U	N	F
7440-22-4	Silver	13.0		N	P
7440-23-5	Sodium	1010	B	*	P
7440-28-0	Thallium	0.67	U		F
7440-62-2	Vanadium	14.0		N	P
7440-66-6	Zinc	435		N	P
	Cyanide	19.4	U	N	C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: CLAY/MED.

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

COMMENTS:

Date Reported: 11/11/89

Artifacts: ROCKS



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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL C
10' - 12'

Lab Name: H2M LABS, INC. Contract: SINGER LINK
SDG No.: LINK02
Matrix (soil/water): SOIL Lab Sample ID: 963315
Level (low/med): LOW Date Received: 08/03/89
% Solids : 76.6

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12100			P
7440-36-0	Antimony	6.8	U	N	P
7440-38-2	Arsenic	12.5		+N	F
7440-39-3	Barium	130		N	P
7440-41-7	Beryllium	0.78	B	N	P
7440-43-9	Cadmium	164		*	P
7440-70-2	Calcium	2700		E	P
7440-47-3	Chromium	612		*	P
7440-48-4	Cobalt	11.5	B	N	P
7440-50-8	Copper	240		*	P
7439-89-6	Iron	28400		*	P
7439-92-1	Lead	88.7		N	A
7439-95-4	Magnesium	4480			P
7439-96-5	Manganese	716			P
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	90.6		N	P
7440-09-7	Potassium	775	B	E	P
7782-49-2	Selenium	0.52	U	N	F
7440-22-4	Silver	2.6		N	P
7440-23-5	Sodium	899	B	*	P
7440-28-0	Thallium	0.99	B		F
7440-62-2	Vanadium	19.1		N	P
7440-66-6	Zinc	348		N	P
	Cyanide	287		N	C

Color Before: BROWN Clarity Before: OPAQUE Texture: CLAY
Color After: YELLOW Clarity After: OPAQUE Artifacts: YES

COMMENTS:

Date Reported: 11/11/89
Artifacts: ROCKS

* *John J. Molloy* * 10

John J. Molloy, P.E.
Laboratory Director

H2M LABS, INC.

575 Broad Hollow Road, Melville, N.Y. 11747
(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL C
14' - 16'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963316

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 78.7

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	G	M
7429-90-5	Aluminum	11400			P
7440-36-0	Antimony	6.6	U	N	P
7440-38-2	Arsenic	12.9		N	F
7440-39-3	Barium	111		N	P
7440-41-7	Beryllium	0.76	B	N	P
7440-43-9	Cadmium	129		*	P
7440-70-2	Calcium	3200		E	P
7440-47-3	Chromium	192		*	P
7440-48-4	Cobalt	12.7		N	P
7440-50-8	Copper	178		*	P
7439-89-6	Iron	27900		*	P
7439-92-1	Lead	35.6		N	A
7439-95-4	Magnesium	4380			P
7439-96-5	Manganese	1470			P
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	87.1		N	P
7440-09-7	Potassium	1020	B	E	P
7782-49-2	Selenium	0.42	U	N	F
7440-22-4	Silver	1.5	B	N	P
7440-23-5	Sodium	869	B	*	P
7440-28-0	Thallium	0.79	B		F
7440-62-2	Vanadium	17.5		N	P
7440-66-6	Zinc	234		N	P
	Cyanide	270		N	C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: CLAY

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: _____

COMMENTS:

Date Reported: 11/11/89

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17

John J. Molloy, P.E.
Laboratory Director

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(516) 694-3040 FAX: (516) 694-4122

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL BA-2
10' - 12'

Lab Name: H2M LABS, INC. Contract: SINGER LINK
SDG No.: LINK02
Matrix (soil/water): SOIL Lab Sample ID: 963317
Level (low/med): LOW Date Received: 08/03/89
% Solids : 83.1

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12300			P
7440-36-0	Antimony	6.3	U	N	P
7440-38-2	Arsenic	8.7		N	F
7440-39-3	Barium	164		N	P
7440-41-7	Beryllium	1.2		N	P
7440-43-9	Cadmium	326		*	P
7440-70-2	Calcium	16200		E	P
7440-47-3	Chromium	1700		*	P
7440-48-4	Cobalt	9.4	B	N	P
7440-50-8	Copper	978		*	P
7439-89-6	Iron	33400		*	P
7439-92-1	Lead	231		N	A
7439-95-4	Magnesium	6320			P
7439-96-5	Manganese	793			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	157		N	P
7440-09-7	Potassium	761	B	E	P
7782-49-2	Selenium	0.48	U	N	F
7440-22-4	Silver	5.5		N	P
7440-23-5	Sodium	1210		*	P
7440-28-0	Thallium	0.72	U	W	F
7440-62-2	Vanadium	23.9		N	P
7440-66-6	Zinc	607		N	P
	Cyanide	51		N	C

Color Before: GREY Clarity Before: OPAQUE Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts: YES

COMMENTS:

Date Reported: 11/11/89
Artifacts: ROCKS

* *John J. Molloy* *

13

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Laboratory Director

H2M LABS, INC.

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL BA-2
16' - 18'

Lab Name: H2M LABS, INC. Contract: SINGER LINK
SDG No.: LINK02
Matrix (soil/water): SOIL Lab Sample ID: 963318
Level (low/med): LOW Date Received: 08/03/89
% Solids : 71.8

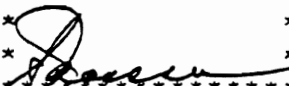
Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	G	M
7429-90-5	Aluminum	10400			P
7440-36-0	Antimony	8.1	B	N	P
7440-38-2	Arsenic	7.9		N	F
7440-39-3	Barium	93.7		N	P
7440-41-7	Beryllium	0.84	B	N	P
7440-43-9	Cadmium	287		*	P
7440-70-2	Calcium	5060		E	P
7440-47-3	Chromium	1150		*	P
7440-48-4	Cobalt	7.8	B	N	P
7440-50-8	Copper	912		*	P
7439-89-6	Iron	26700		*	P
7439-92-1	Lead	64.2		N	A
7439-95-4	Magnesium	4770			P
7439-96-5	Manganese	670			P
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	87.9		N	P
7440-09-7	Potassium	1690		E	P
7782-49-2	Selenium	0.56	U	N	F
7440-22-4	Silver	1.7	U	N	P
7440-23-5	Sodium	4730		*	P
7440-28-0	Thallium	0.84	U	W	F
7440-62-2	Vanadium	20.6		N	P
7440-66-6	Zinc	390		N	P
	Cyanide	38.3		N	C

Color Before: BROWN Clarity Before: OPAQUE Texture: FINE
Color After: YELLOW Clarity After: OPAQUE Artifacts:

COMMENTS:

Date Reported: 11/11/89

*  *

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL BA-1
10' - 12'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963319

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 86.9

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11000			P
7440-36-0	Antimony	5.4	U	N	P
7440-38-2	Arsenic	7.9		N	F
7440-39-3	Barium	86.5		N	P
7440-41-7	Beryllium	0.84	B	N	P
7440-43-9	Cadmium	289		*	P
7440-70-2	Calcium	17900		E	P
7440-47-3	Chromium	678		*	P
7440-48-4	Cobalt	8.8	B	N	P
7440-50-8	Copper	797		*	P
7439-89-6	Iron	28900		*	P
7439-92-1	Lead	33.4		N	A
7439-95-4	Magnesium	5160			P
7439-96-5	Manganese	709			P
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	104		N	P
7440-09-7	Potassium	641	B	E	P
7782-49-2	Selenium	0.46	U	N	F
7440-22-4	Silver	8.2		N	P
7440-23-5	Sodium	663	B	*	P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	18.0		N	P
7440-66-6	Zinc	674		N	P
	Cyanide	141		N	C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: CLAY

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

COMMENTS:

Date Reported: 11/11/89

Artifacts: ROCKS

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

OUTFALL BA-1
16' - 18'

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963320

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 77.0

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7850			P
7440-36-0	Antimony	11.7	B	N	P
7440-38-2	Arsenic	6.6		SN	F
7440-39-3	Barium	115		N	P
7440-41-7	Beryllium	0.78	B	N	P
7440-43-9	Cadmium	260		*	P
7440-70-2	Calcium	1770		E	P
7440-47-3	Chromium	2200		*	P
7440-48-4	Cobalt	5.2	B	N	P
7440-50-8	Copper	1510		*	P
7439-89-6	Iron	22200		*	P
7439-92-1	Lead	78.0		N	A
7439-95-4	Magnesium	2390			P
7439-96-5	Manganese	877			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	64.5		N	P
7440-09-7	Potassium	787	B	E	P
7782-49-2	Selenium	0.40	U	WN	F
7440-22-4	Silver	1.6	U	N	P
7440-23-5	Sodium	962	B	*	P
7440-28-0	Thallium	0.60	U		F
7440-62-2	Vanadium	13.5		N	P
7440-66-6	Zinc	326		N	P
	Cyanide	64.8	U	N	C

Color Before: BROWN

Clarity Before: OPAQUE

Texture: FINE/CLAY

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

COMMENTS:

Date Reported: 11/11/89

Artifacts: ROCKS

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: SINGER LINK
SDG No.: LINK02
Matrix (soil/water): SOIL Lab Sample ID: 963321
Level (low/med): LOW Date Received: 08/03/89
% Solids : 87.0

8-1
10' - 12'

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9480			P
7440-36-0	Antimony	6.0	U	N	P
7440-38-2	Arsenic	8.3		N	F
7440-39-3	Barium	52.7		N	P
7440-41-7	Beryllium	0.46	B	N	P
7440-43-9	Cadmium	2.3		*	P
7440-70-2	Calcium	2000		E	P
7440-47-3	Chromium	32.4		*	P
7440-48-4	Cobalt	9.2	B	N	P
7440-50-8	Copper	37.7		*	P
7439-89-6	Iron	26800		*	P
7439-92-1	Lead	15.3		N	F
7439-95-4	Magnesium	3110			P
7439-96-5	Manganese	705			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	34.3		N	P
7440-09-7	Potassium	775	B	E	P
7782-49-2	Selenium	0.38	U	N	F
7440-22-4	Silver	1.4	U	N	P
7440-23-5	Sodium	1080	B	*	P
7440-28-0	Thallium	0.58	U		F
7440-62-2	Vanadium	17.7		N	P
7440-66-6	Zinc	74.3		N	P
	Cyanide	132		N	C

Color Before: BROWN Clarity Before: OPAQUE Texture: FINE/CLAY
Color After: YELLOW Clarity After: OPAQUE Artifacts: YES

COMMENTS:

Date Reported: 11/11/89
Artifacts: ROCKS

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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): SOIL

Lab Sample ID: 963322

Level (low/med): LOW

Date Received: 08/03/89

% Solids : 80.6

Concentration Units (ug/L or mg/kg dry weight) mg/kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9860			P
7440-36-0	Antimony	6.4		N	P
7440-38-2	Arsenic	7.2		+N	F
7440-39-3	Barium	40.2	B	N	P
7440-41-7	Beryllium	0.50	B	N	P
7440-43-9	Cadmium	3.2		*	P
7440-70-2	Calcium	1590		E	P
7440-47-3	Chromium	34.2		*	P
7440-48-4	Cobalt	8.7	B	N	P
7440-50-8	Copper	34.0		*	P
7439-89-6	Iron	25600		*	P
7439-92-1	Lead	12.8		N	F
7439-95-4	Magnesium	3920			P
7439-96-5	Manganese	537			P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	37.0		N	P
7440-09-7	Potassium	866	B	E	P
7782-49-2	Selenium	0.50	U	N	F
7440-22-4	Silver	1.5	U	N	P
7440-23-5	Sodium	749	B	*	P
7440-28-0	Thallium	0.74	U		F
7440-62-2	Vanadium	16.4		N	P
7440-66-6	Zinc	80.6		N	P
	Cyanide	1.7		N	C

Color Before: GREY

Clarity Before: OPAQUE

Texture: MEDIUM

Color After: YELLOW

Clarity After: OPAQUE

Artifacts: YES

COMMENTS:

Date Reported: 11/11/89

Artifacts: ROCKS

C-327

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John J. Molloy, P.E.
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ENVIRONMENTAL and INDUSTRIAL ANALYTICAL LABORATORY

INORGANIC ANALYSIS DATA SHEET

FIELD BLANK

Lab Name: H2M LABS, INC. Contract: SINGER LINK

SDG No.: LINK02

Matrix (soil/water): Water

Lab Sample ID: 963323

Level (low/med): LOW

Date Received: 08/03/89

% Solids : _____

Concentration Units (ug/L or mg/kg dry weight) ug/l

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102	U		P
7440-36-0	Antimony	26.0	U	N	P
7440-38-2	Arsenic	3.0	U	N	F
7440-39-3	Barium	35.0	U	N	P
7440-41-7	Beryllium	2.0	U	N	P
7440-43-9	Cadmium	3.0	U	*	P
7440-70-2	Calcium	292	U	E	P
7440-47-3	Chromium	31.0		*	P
7440-48-4	Cobalt	13.0	U	N	P
7440-50-8	Copper	16.0	B	*	P
7439-89-6	Iron	93.0	B	*	P
7439-92-1	Lead	2.3	B	N	F
7439-95-4	Magnesium	174	U		P
7439-96-5	Manganese	3.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U	N	P
7440-09-7	Potassium	445	U	E	P
7782-49-2	Selenium	1.0	U	N	F
7440-22-4	Silver	6.0	U	N	P
7440-23-5	Sodium	401	B	*	P
7440-28-0	Thallium	3.0	U		F
7440-62-2	Vanadium	17.0	U	N	P
7440-66-6	Zinc	35.0		N	P
	Cyanide	10.0	U	N	C

Color Before: COLORLESS Clarity Before: CLEAR

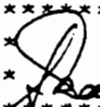
Texture: _____

Color After: COLORLESS Clarity After: CLEAR

Artifacts: _____

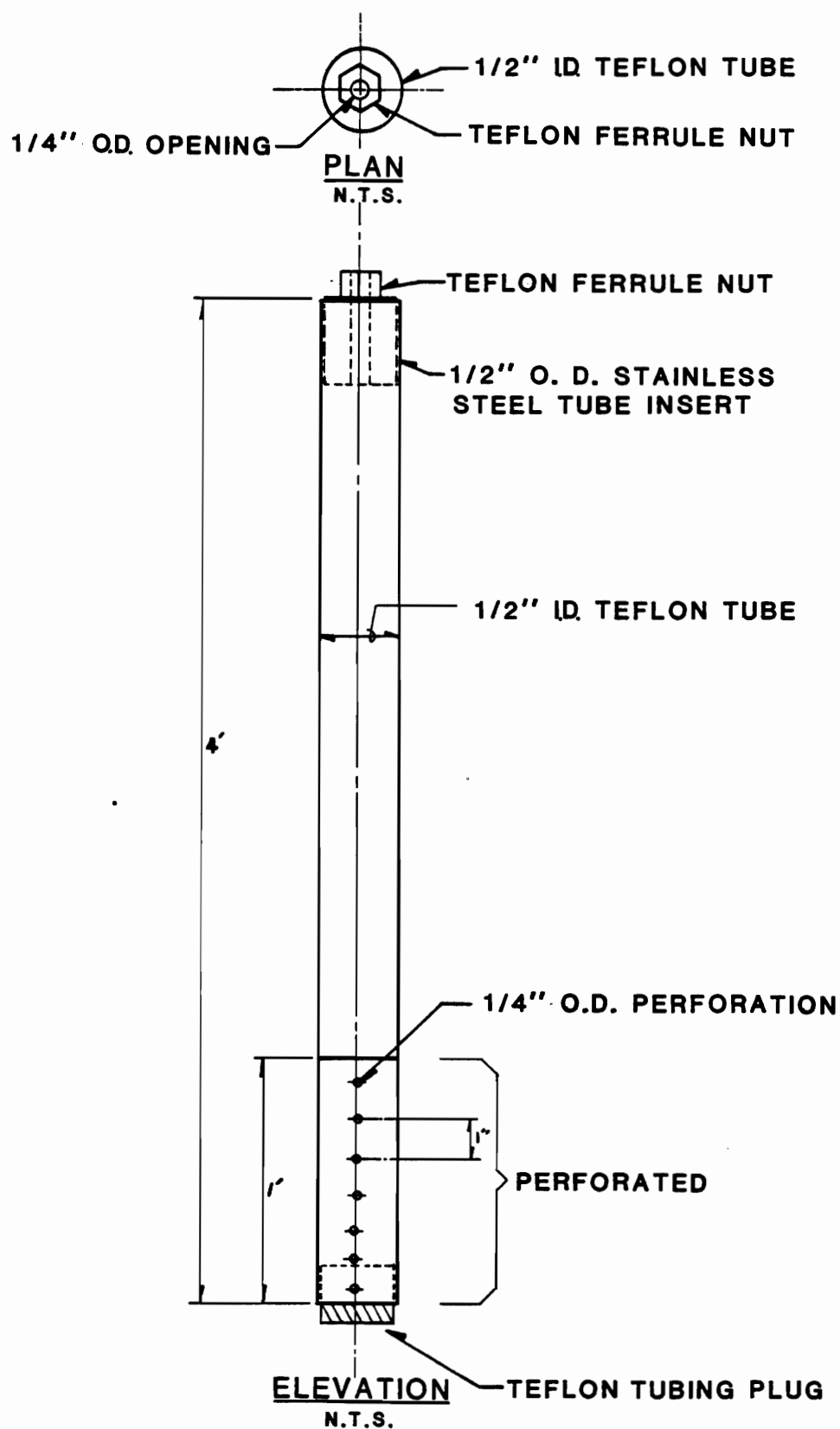
COMMENTS:

Date Reported: 11/11/89

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John J. Molloy, P.E.
Laboratory Director

(4) SOIL GAS INVESTIGATION DATA



SOIL GAS PROBE DIAGRAM

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 359633
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #1 Trap 466
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

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Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859634
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #2 Trap 4
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/18/88
Date Reported: 6/23/88

* *Added* *

John J. Molloy, F.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859635
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #3 Trap 468
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	44
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *Andrade* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859636
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #4 Trap 493
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/18/88
Date Reported: 6/23/88

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859637
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #5 Trap 480
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/18/88
Date Reported: 6/23/88

Michael

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859638
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #6 Trap 491
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/18/88
Date Reported: 6/23/88

* *Added* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859639
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #7 Trap 40
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *Arvid* *

John J. Molloy, F.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859640
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #8 Trap 499
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *Michael* *

John J. Molloy, F.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859641
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #9 Trap 23
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *Molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859642
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #10 Trap A-2
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv

Chloromethane	*
Bromomethane	*
Vinyl Chloride	*
Chloroethane	*
Methylene Chloride	*
Trichlorofluoromethane	*
1,1-Dichloroethene	*
1,1-Dichloroethane	*
cis/trans-1,2-Dichloroethene	*
Chloroform	*
1,2-Dichloroethane	*
1,1,1-Trichloroethane	*
Carbon Tetrachloride	*
Bromodichloromethane	*
1,2-Dichloropropane	*
trans-1,3-Dichloropropene	*
Trichloroethene	*
Dibromochloromethane	*
1,1,2-Trichloroethane	*
cis-1,3-Dichloropropene	*
Benzene	*
2-Chloroethylvinyl Ether	*
Bromoform	*
1,1,2,2-Tetrachloroethane	*
Tetrachloroethene	*
Toluene	*
Chlorobenzene	*
Ethylbenzene	*
1,2-Dichlorobenzene	*
1,3-Dichlorobenzene	*
1,4-Dichlorobenzene	*

* DATA LOST DUE TO
INSTRUMENT MALFUNCTION

Date Analyzed: 6/18/88
Date Reported: 6/22/88

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859643
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #11 Trap 443
Link Flight Simulation Corp.
Millcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethane	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *Amol* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859644
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #12 Trap 464
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/18/88
Date Reported: 6/23/88

* *molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859645
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #13 Trap 5
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 359646
Kirkwood Industrial Park Date Collected: 6/2/88
Binghampton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #14 Trap 24
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *Amolloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859647
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #15 Trap 22
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *W. J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859648
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc.
Point: SG #16 Trap 445
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB G3

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859649
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc. Trap A-6
Point: SG #17 Field Blank
Quantified for a volume of 1000 ml.
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/18/88
Date Reported: 6/23/88

* *John J. Molloy* *

John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859650
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc. Trap 471
Point: SG #18 Field Blank
Quantified for a volume of 1000 ml.
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB D3

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

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John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 859652
Kirkwood Industrial Park Date Collected: 6/2/88
Binghamton, NY 13902 Date Received: 6/6/88
Attn: Mr. Donald Brown Type: Misc. Trap 478
Point: SG #20 - Duplicate Sample
@ Location #8
Link Flight Simulation Corp.
Hillcrest Facility
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv
Chloromethane	< 10
Bromomethane	< 10
Vinyl Chloride	< 1
Chloroethane	< 10
Methylene Chloride	< 5
Trichlorofluoromethane	< 5
1,1-Dichloroethene	< 5
1,1-Dichloroethane	< 5
cis/trans-1,2-Dichloroethene	< 5
Chloroform	< 5
1,2-Dichloroethane	< 5
1,1,1-Trichloroethane	< 5
Carbon Tetrachloride	< 5
Bromodichloromethane	< 5
1,2-Dichloropropane	< 5
trans-1,3-Dichloropropene	< 5
Trichloroethene	< 5
Dibromochloromethane	< 5
1,1,2-Trichloroethane	< 5
cis-1,3-Dichloropropene	< 5
Benzene	< 5
2-Chloroethylvinyl Ether	< 10
Bromoform	< 5
1,1,2,2-Tetrachloroethane	< 5
Tetrachloroethene	< 5
Toluene	< 5
Chlorobenzene	< 5
Ethylbenzene	< 5
1,2-Dichlorobenzene	< 5
1,3-Dichlorobenzene	< 5
1,4-Dichlorobenzene	< 5

Date Analyzed: 6/17/88
Date Reported: 6/23/88

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John J. Molloy, P.E.
Laboratory Director

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 863686
Kirkwood Industrial Park Date Collected: 7/19/88
Binghamton, NY Date Received: 7/19/88
Attn: Mr. Donald Brown, P.E. Type: Misc.
Point: Tube #492 (Location #3)
Hillcrest Facility Sample Vol. 1000 ml.
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv	
Chloromethane	1) ND	
Bromomethane	1) ND	
Vinyl Chloride	1) ND	
Chloroethane	1) ND	
Methylene Chloride	ND	
Trichlorofluoromethane	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	Quantification
cis/trans-1,2-Dichloroethene	ND	limit: 2 ppbv
Chloroform	ND	
1,2-Dichloroethane	ND	ND - Under quantification
1,1,1-Trichloroethane	41	limit.
Carbon Tetrachloride	ND	
Bromodichloromethane	ND	1) Quantification
1,2-Dichloropropane	ND	limit: 5 ppbv
trans-1,3-Dichloropropene	ND	
Trichloroethene	260	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
cis-1,3-Dichloropropene	ND	
Benzene	7	
2-Chloroethylvinyl Ether	1) ND	
Bromoform	ND	
1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND	
Toluene	5	
Chlorobenzene	ND	
Ethylbenzene	ND	
1,2-Dichlorobenzene	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	

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John J. Molloy, P.E.
Laboratory Director

Date Analyzed: 7/26/88
Date Reported: 7/28/88

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 863687
 Kirkwood Industrial Park Date Collected: 7/19/88
 Binghamton, NY Date Received: 7/19/88
 Attn: Mr. Donald Brown, P.E. Type: Misc.
 Point: Tube #431 (Location #3) Dup. Sample
 Hillcrest Facility Sample Vol. 1000 ml.
 Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv	
Chloromethane	1) ND	
Bromomethane	1) ND	
Vinyl Chloride	1) ND	
Chloroethane	1) ND	
Methylene Chloride	ND	
Trichlorofluoromethane	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	Quantification
cis/trans-1,2-Dichloroethene	ND	limit: 2 ppbv
Chloroform	ND	
1,2-Dichloroethane	ND	ND - Under quantification
1,1,1-Trichloroethane	62	limit.
Carbon Tetrachloride	ND	
Bromodichloromethane	ND	1) Quantification
1,2-Dichloropropane	ND	limit: 5 ppbv
trans-1,3-Dichloropropene	ND	
Trichloroethene	300	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
cis-1,3-Dichloropropene	ND	
Benzene	13	
2-Chloroethylvinyl Ether	1) ND	
Bromoform	ND	
1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND	
Toluene	9	
Chlorobenzene	ND	
Ethylbenzene	ND	
1,2-Dichlorobenzene	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	

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John J. Molloy, P.E.
 Laboratory Director

Date Analyzed: 7/26/88
 Date Reported: 7/28/88

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 863685
Kirkwood Industrial Park Date Collected: 7/19/88
Binghamton, NY Date Received: 7/19/88
Attn: Mr. Donald Brown, P.E. Type: Misc.
Point: Tube #24 (Location #10)
Hillcrest Facility Sample Vol. 1000 ml.
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv	
Chloromethane	1) ND	
Bromomethane	1) ND	
Vinyl Chloride	1) ND	
Chloroethane	1) ND	
Methylene Chloride	ND	
Trichlorofluoromethane	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	Quantification
cis/trans-1,2-Dichloroethene	ND	limit: 2 ppbv
Chloroform	ND	
1,2-Dichloroethane	ND	ND - Under quantification
1,1,1-Trichloroethane	ND	limit.
Carbon Tetrachloride	ND	
Bromodichloromethane	ND	1) Quantification
1,2-Dichloropropane	ND	limit: 5 ppbv
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
cis-1,3-Dichloropropene	ND	
Benzene	ND	
2-Chloroethylvinyl Ether	1) ND	
Bromoform	ND	
1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND	
Toluene	4	
Chlorobenzene	ND	
Ethylbenzene	ND	
1,2-Dichlorobenzene	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	

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John J. Molloy, P.E.
Laboratory Director

Date Analyzed: 7/26/88
Date Reported: 7/28/88

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 863689
Kirkwood Industrial Park Date Collected: 7/19/88
Binghamton, NY Date Received: 7/19/88
Attn: Mr. Donald Brown, P.E. Type: Misc.
Point: Tube #23 (Location #17)
Hillcrest Facility Sample Vol. 1000 ml.
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv	
Chloromethane	1) ND	
Bromomethane	1) ND	
Vinyl Chloride	1) ND	
Chloroethane	1) ND	
Methylene Chloride	ND	
Trichlorofluoromethane	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	Quantification
cis/trans-1,2-Dichloroethene	ND	limit: 2 ppbv
Chloroform	ND	
1,2-Dichloroethane	ND	ND - Under quantification
1,1,1-Trichloroethane	8	limit.
Carbon Tetrachloride	ND	
Bromodichloromethane	ND	1) Quantification
1,2-Dichloropropane	ND	limit: 5 ppbv
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
cis-1,3-Dichloropropene	ND	
Benzene	ND	
2-Chloroethylvinyl Ether	1) ND	
Bromoform	ND	
1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	
Ethylbenzene	ND	
1,2-Dichlorobenzene	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	

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John J. Molloy, P.E.
Laboratory Director

Date Analyzed: 7/26/88
Date Reported: 7/28/88

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 863688
Kirkwood Industrial Park Date Collected: 7/19/88
Binghamton, NY Date Received: 7/19/88
Attn: Mr. Donald Brown, P.E. Type: Misc.
Point: Tube #490 (Location #18)
Hillcrest Facility Sample Vol. 1000 ml.
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv	
Chloromethane	1) ND	
Bromomethane	1) ND	
Vinyl Chloride	1) ND	
Chloroethane	1) ND	
Methylene Chloride	ND	
Trichlorofluoromethane	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	Quantification
cis/trans-1,2-Dichloroethene	ND	limit: 2 ppbv
Chloroform	ND	
1,2-Dichloroethane	ND	ND - Under quantification
1,1,1-Trichloroethane	ND	limit.
Carbon Tetrachloride	ND	
Bromodichloromethane	ND	1) Quantification
1,2-Dichloropropane	ND	limit: 5 ppbv
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
cis-1,3-Dichloropropene	ND	
Benzene	ND	
2-Chloroethylvinyl Ether	1) ND	
Bromoform	ND	
1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND	
Toluene	3	
Chlorobenzene	ND	
Ethylbenzene	ND	
1,2-Dichlorobenzene	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	

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John J. Molloy, P.E.
Laboratory Director

Date Analyzed: 7/26/88
Date Reported: 7/28/88

ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

Link Flight Simulation Corp. Sample Lab No. 863690
Kirkwood Industrial Park Date Collected: 7/19/88
Binghamton, NY Date Received: 7/19/88
Attn: Mr. Donald Brown, P.E. Type: Misc.
Point: Tube #22 Field Blank
Hillcrest Facility Sample Vol. 1000 ml.
Collected By: JMB 03

PRIORITY POLLUTANTS ANALYSIS - PURGEABLE ORGANICS

Compound	ppbv	
Chloromethane	1) ND	
Bromomethane	1) ND	
Vinyl Chloride	1) ND	
Chloroethane	1) ND	
Methylene Chloride	ND	
Trichlorofluoromethane	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	Quantification
cis/trans-1,2-Dichloroethene	ND	limit: 2 ppbv
Chloroform	ND	
1,2-Dichloroethane	ND	ND - Under quantification
1,1,1-Trichloroethane	ND	limit.
Carbon Tetrachloride	ND	
Bromodichloromethane	ND	1) Quantification
1,2-Dichloropropane	ND	limit: 5 ppbv
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
cis-1,3-Dichloropropene	ND	
Benzene	ND	
2-Chloroethylvinyl Ether	1) ND	
Bromoform	ND	
1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	
Ethylbenzene	ND	
1,2-Dichlorobenzene	ND	
1,3-Dichlorobenzene	ND	
1,4-Dichlorobenzene	ND	

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John J. Molloy, P.E.
Laboratory Director

Date Analyzed: 7/26/88
Date Reported: 7/28/88

APPENDIX D

PROFILES OF INDICATOR CHEMICALS

ARSENIC

Arsenic is a metal that is present in the environment as a constituent of organic and inorganic compounds. Arsenic can be found in the environment in any of four valence states. Chemical and physical properties and mobility of arsenic are dependent on the valence state and media.

Arsenic occurs naturally in the earth's crust at levels of a few parts per million (ppm) and has been found to naturally occur in some drinking water. However, the majority of surface and groundwaters contain less than 10 $\mu\text{g/l}$. EPA estimates typical surface and groundwaters to contain less than 5 $\mu\text{g/l}$ of arsenic.

EPA has classified arsenic in Group A - Human Carcinogen, and has developed inhalation (EPA, 1989) and oral cancer potency factors (EPA, 1988) of $50 (\text{mg/kg/day})^{-1}$ and $2.0 (\text{mg/kg/day})^{-1}$, respectively. The inhalation potency factor is the geometric mean value of potency factors derived from four occupational exposure studies on two different exposure populations (EPA, 1984). The oral cancer potency factor was based on an epidemiological study in Taiwan which indicated an increased incidence of skin cancer in individuals exposed to arsenic in drinking water (Tseng, 1977). A risk assessment for non-carcinogenic effects of arsenic is currently under review by EPA (1989).

In the natural environment, arsenic has four different oxidation states, and chemical speciation is important in determining arsenic's distribution and mobility. Interconversions of the +3 and +5 states as well as organic complexation, are the most important. Arsenic is generally quite mobile in the environment. In the aquatic environment, volatilization is important when biological activity or highly reducing conditions produce arsine or methylarsenics. Sorption by the sediment is an important fate for the chemical. Arsenic is metabolized to organic arsenicals by a number of organisms; this increases arsenic's mobility in the environment. Because of its general mobility, arsenic tends to cycle through the environment. Its ultimate fate is probably the deep ocean, but it may pass through numerous stages before finally reaching the sea.

ANTIMONY

Antimony production has been associated with an increase in lung cancer in exposed workers. An inhalation study using rats, yielded suggestive evidence that antimony trioxide causes lung and liver tumors, and several antimony compounds were mutagenic when tested using bacterial test systems.

Female workers exposed to antimony compounds had an increased incidence of gynecological disorders and spontaneous abortions; similar effects were observed in an animal study.

Antimony also caused cardiovascular changes in humans and may damage the myocardia.

Antimony is present as the soluble oxide or antimonite (+3) salt in most natural waters. In reducing environments, volatile stibine (SbH_3) may be formed. Stibine is a gas at room temperature, and it is quite soluble in water. However, it is not stable in aerobic waters or air and is oxidized to form Sb_2O_3 . The formation of stibine in bed sediments, which usually provide a reducing environment, may offer a mechanism for remobilization of antimony previously removed from solution. Biomethylation processes resulting in the formation of volatile stibine derivatives may also cause some remobilization of antimony. The extent to which sorption reduces the aqueous transport of antimony is unknown, but it is clear that sorption to clays and minerals is normally the most important mechanism resulting in the removal of antimony from solution. There also is a possibility that heavy metals in solution could react with antimonite or antimonate (+5) to form insoluble compounds. The importance of such processes is unknown, but it is likely that most species of antimony in natural waters are soluble and quite mobile and are eventually transported in solution to the oceans. Bioaccumulation appears to be only a minor fate process for antimony. Airborne transport of antimony in the form of particulates can also occur.

BARIUM

Barium is extremely reactive, decomposes in water, and readily forms insoluble carbonate and sulfate salts. Barium is generally present in solution in surface or groundwater only in trace amounts. Large amounts will not dissolve because natural waters usually contain sulfate, and the solubility of barium sulfate is generally low. Barium is not soluble at more than a few ppm in water that contains sulfate at more than a few ppm.

In its pure form, barium is an extremely reactive metal that decomposes in water. In natural waters it forms insoluble carbonate or sulfate salts and is usually present at concentrations of less than 1 mg/l. Insoluble forms of barium are not very toxic; but soluble barium salts are highly toxic after acute exposure, and they had a prolonged stimulant effect on muscles. A benign pneumoconiosis, baritosis, can result from inhaling barium dusts. The EPA Interim Primary Drinking Water Standard is 1 mg/l.

BERYLLIUM

Most common beryllium compounds are readily soluble in water. However, in water, soluble beryllium salts are hydrolyzed to form beryllium hydroxide. The solubility of beryllium hydroxide is quite low (2 mg/l) in the pH range of most natural waters. Formation of hydrated complexes may increase the solubility of beryllium somewhat, especially at higher pH where polynuclear hydroxide complexes may form. It is probable, however, that in most natural aquatic environments, beryllium is present in particulate rather than dissolved form.

Beryllium is a metal with a complicated coordination chemistry, and it can form complexes, oxycarboxylates, and chelates with a variety of materials. Inhalation exposure to beryllium causes lung and bone cancer in animals, and epidemiological studies suggest that it may cause lung cancer in humans. Acute respiratory effects are associated with inhalation of beryllium, and dermal exposure can cause contact dermatitis. Chronic exposure to beryllium was reported to have adverse effects on aquatic organisms at levels as low as 5.3 $\mu\text{g/l}$.

CADMIUM

Cadmium is a bluish-white metal, small amounts of which are found in zinc, copper and lead ores. It is a naturally-occurring metallic element and is present in the earth's crust below 1 ppm.

Cadmium is very persistent in groundwater and surface water media. The solubility of cadmium compounds is higher than most other heavy metals so they do not readily adsorb or precipitate. Cadmium enters the air as dust particles or fumes which are readily removed from the atmosphere by rainfall.

Cadmium and related compounds have not been classified as carcinogens for the ingestion route. Yet, it is highly toxic and EPA (1989a,b) classified cadmium as a Group B2 agent (probable human carcinogen) by inhalation. This classification applies to agents for which there is limited evidence of carcinogenicity in humans from epidemiologic studies. EPA (1989a,b) derived an inhalation cancer potency factor of $6.1 \text{ (mg/kg/day)}^{-1}$ for cadmium based on epidemiologic studies in which respiratory tract tumors were observed (Thun et al., 1985; EPA, 1985b). Using renal toxicity as an end-point, and a safety factor of 10, EPA (1980, 1987, 1989b) has derived two separate oral reference doses (RfD). The RfD associated with oral exposure to drinking water is $5 \times 10^{-4} \text{ mg/kg/day}$, and is based upon the lowest-observed-adverse-effect level (LOAEL) of 0.005 mg/kg in humans (Friberg et al., 1974). The RfD associated with exposure to cadmium in food or other non-aqueous oral exposures is $1 \times 10^{-3} \text{ mg/kg/day}$.

Cadmium is relatively mobile in the aquatic environment compared to other heavy metals. It is removed from aqueous media by complexing with organic materials and subsequently being adsorbed to the sediment. It appears that cadmium moves slowly through soil, but only limited information on soil transport is available. Cadmium uptake by plants is not a significant mechanism for depletion of soil accumulations but may be significant for human exposure.

CHROMIUM

Chromium is a rare naturally-occurring element in the earth's crust and occurs in most rocks and minerals at levels of 200 ppm. Chromium is used in metal plating, alloys, pigments, in textile manufacture, catalysts and wood preservatives. Chromium is corrosion resistant. It is released during industrial activities, but current data suggests it also occurs due to natural leaching from mineral deposits. Chromium exists primarily in the $+3$ (trivalent) or $+6$ (hexavalent) valence state.

Chromium compounds are relatively insoluble at neutral pH values, so most of the chromium in the environment precipitates, resulting in contaminated soils and sediments.

EPA has classified inhaled chromium (VI) in Group A - Probable Human Carcinogen by the inhalation route (EPA, 1989a). Inhaled chromium (III) and ingested chromium (III) and (VI) have not been classified with respect to carcinogenicity (EPA, 1989a). EPA (1989a) developed an inhalation cancer potency factor of $41 \text{ (mg/kg/day)}^{-1}$ for chromium (VI) based on an increased incidence of lung cancer in workers exposed to chromium over a six year period, and followed for approximately 40 years (Mancuso, 1975). EPA (1989a) derived a chronic RfD of $5.0 \times 10^{-3} \text{ mg/kg/day}$ for chromium (VI) based on a study by MacKenzie, et al. (1958) in which no observable adverse effects were observed in rats exposed to $2.4 \text{ mg chromium (VI)/kg/day}$ in drinking water for one year. A safety factor of 500 was used to derive the RfD. EPA (1989b) calculated a subchronic oral reference dose of $2.0 \times 10^{-2} \text{ mg/kg/day}$ for chromium (VI) based on the same study; a safety factor of 100 was applied to the NOAEL to derive the RfD. EPA (1989a) developed an oral RfD of 1 mg/kg/day for chromium (III) based on a study in which rats were exposed to chromic oxide baked in bread; no effects due to chromic oxide treatment were observed at any dose level (Ivankovic & Preussman, 1975). A safety factor of 1,000 was used to calculate the oral RfD. EPA (1989b) also developed a subchronic RfD of 10 mg/kg/day for chromium (III) using the Ivankovic & Preussman (1975) study and a safety factor of 100.

Hexavalent Cr is quite soluble, existing in solution as a component of a complex anion. It is not sorbed to any significant degree by clays or hydrous metal oxides. The anionic form varies according to pH and may be a chromate, hydrochromate, or dichromate. Because all anionic forms are so soluble, they

are quite mobile in the aquatic environment. Cr VI is efficiently removed by activated carbon and thus may have some affinity for organic materials in natural water. Cr VI is a moderately strong oxidizing agent and reacts with reducing materials to form trivalent chromium. Most Cr III in the aquatic environment is hydrolyzed and precipitates as chromium hydroxide. Sorption to sediments and bioaccumulation will remove much of the remaining Cr III from solution. Cr III is adsorbed only weakly to inorganic materials. Cr III and Cr VI are readily interconvertible in nature depending on micro-environmental conditions such as pH, hardness, and the types of other compounds present. Soluble forms of chromium accumulate if ambient conditions favor Cr VI. Conditions favorable for conversion to Cr III lead to precipitation and adsorption of chromium in sediment.

In air, chromium is associated almost entirely with particulate matter. Sources of chromium in air include windblown soil and particulate emissions from industrial processes. Little information is available concerning the relative amounts of Cr III and Cr VI in various aerosols. Relatively small particles can form stable aerosols and can be transported many miles before settling out.

Cr III tends to be adsorbed strongly onto clay particles and organic particular matter, but can be mobilized if it is complexed with organic molecules. Cr III present in minerals is mobilized to different extents depending on the weatherability and solubility of the mineral in which it is contained. Hexavalent compounds are not strongly adsorbed by soil components and Cr VI is mobile in groundwater. Cr VI is quickly reduced to Cr III in poorly drained soils having a high content of organic matter. Cr VI of natural origin is rarely found in soils.

COBALT

Very little cobalt appears to occur in soluble form in natural aquatic systems. Several surveys show that cobalt frequently is not detectable and that concentrations greater than 10 $\mu\text{g/l}$ are rare. The most important control on mobility of cobalt in aquatic and terrestrial systems is probably adsorption to the clay minerals and hydrous oxides of iron, manganese and aluminum that are often present in the clay fractions of sediments and soils. The principal factors controlling adsorption and desorption processes are pH, Eh, and the concentrations of cobalt and competing compounds. Chelation of cobalt with some organic compounds can also occur.

Cobalt generally occurs in the 0 or +2 oxidation states. Elemental cobalt is relatively unreactive and is quite stable in air or water. Cobalt caused injection site sarcomas in rats, but the results of other studies were negative; it is not considered to pose a carcinogenic risk to humans. Chronic oral exposure causes goiter, decreased thyroid function, increased heart and respiratory disease among occupationally exposed workers.

COPPER

Copper is a reddish brown metal and can be found in nature as a sulfide oxide or carbonate ore. Copper is a fairly mobile metal in the environment and exists in two oxidation states. The cuprous (+1) oxidation state is unstable in aerated waters in the normal pH range (6 to 8) and oxidizes to the cupric (+2) state. In the aquatic environment, there may be organic pollutants. Oxidized copper will tend to form complexes with these organic chemicals. Oxidized copper in water can also adsorb to hydrous metal oxides, clays and organic material. Since copper is an essential nutrient for plants and animals, it can be bioaccumulated.

Copper is an essential element. A daily copper intake of 2 mg is considered to be adequate for normal health and nutrition; the minimum daily requirement is 10 $\mu\text{g/kg}$ (EPA, 1985). In humans, absorption of copper following oral exposure is approximately 60 percent and is influenced by competition with other metals and the level of dietary protein and ascorbic acid in both humans and animals (EPA, 1984). Copper is absorbed following inhalation exposures, although quantitative data on the extent of absorption are unavailable (EPA, 1984). Adverse effects in humans resulting from acute exposure to copper at concentrations that exceed these recommended levels by ingestion include salivation, gastrointestinal irritation, nausea, vomiting, hemorrhagic gastritis, and diarrhea (ACGIH, 1986). Dermal or ocular exposure of humans to copper salts can produce irritation to the skin and eyes, causing itching, dermatitis and ulcerations (ACGIH, 1986). Acute inhalation of dusts or mists of copper salts by humans may produce irritation of the mucous membranes and pharynx, ulceration of the nasal septum, and metal fume fever. The latter condition is characterized by chills, fever, headache, and muscle pain. Limited data are available on the chronic toxicity of copper; however, chronic over-exposure to copper by humans has been associated with anemia (ACGIH, 1986) and local gastrointestinal irritation (EPA, 1987). Results of several animal bioassays suggest that copper compounds can induce injection site tumors in mice (EPA, 1985).

EPA (1989) has reported the drinking water standard of 1.3 mg/l as an oral chronic and subchronic RfD based on local gastrointestinal irritation (EPA, 1987). Assuming a 70 kg adult ingests 2 liters of water per day, this concentration is equivalent to a dose of 3.7×10^{-2} mg/kg/day. However, EPA (1987) concluded toxicity data were inadequate for the calculation of a RfD for copper.

Copper has two oxidation states, +1 (cuprous) and +2 (cupric). Cuprous copper is unstable in aerated water over the pH range of most natural waters (6 to 8) and oxidizes to the cupric state. Several processes determine the fate of copper in the aquatic environment: formation of complexes, especially with humic substances; sorption to hydrous metal oxides, clays, and organic materials; and bioaccumulation. In water polluted with soluble organic material, complexation with organic ligands can occur, thus favoring the prolonged dispersion of copper in solution. The presence of organic acids also can lead to the mobilization of copper from the sediments to solution. Copper has a strong affinity for hydrous iron and manganese oxides, clays, carbonate minerals and organic matter. Sorption to these materials, both suspended in the water column and in the sediment, results in relative enrichment of the solid phase and reduction in dissolved levels. Sorption processes are quite efficient in scavenging dissolved copper and in controlling its mobility in natural unpolluted streams. The amounts of the various copper compounds and complexes that actually exist in solution depend on the pH, temperature, alkalinity, and concentrations of other chemical species. The levels of copper able to remain in solution are directly dependent on water chemistry. Generally, ionic copper is more soluble in low pH waters and less soluble in high pH waters.

As an essential nutrient, copper is accumulated by plants and animals, although apparently it is not generally biomagnified. Because copper is strongly bioaccumulated and because biogenic ligands play an important role in complexing copper, biological activity is a major factor in determining the distribution and occurrence of copper in the ecosystem. For example, bioaccumulation patterns may exhibit seasonal variations related to biological activity.

Because many copper compounds and complexes are readily soluble, copper is among the more mobile heavy metals in soil and other surface environments. The major process that limits the environmental mobility of copper is adsorption to organic matter, clays and other materials. Atmospheric transport of copper compounds can also occur.

IRON

Elemental iron and many iron compounds such as iron oxides and hydroxides are insoluble in water. However, iron will chelate with organic and inorganic compounds, thus increasing iron's mobility in the aquatic environment. Most iron in aquatic systems tend to partition into bottom sediments. Iron is immobile in soil. Elemental iron and many iron compounds are insoluble in water.

Iron is an essential element and is, therefore, non-toxic at doses necessary for maintaining normal health and nutrition (EPA, 1984). However, over-exposure to iron can cause adverse health effects. Gastrointestinal irritation is the primary effect observed in humans following acute oral over-exposure to iron. Ingestion of excess amounts of iron causes gastrointestinal irritation, gastrointestinal bleeding, convulsions and hepatic toxicity. Gastrointestinal absorption of iron in humans ranges from 1% to 25% (EPA, 1984). Chronic oral over-exposure of humans to iron has been associated with gastrointestinal bleeding, metabolic acidosis, hepatic toxicity, hemosiderosis and hemochromatosis (EPA, 1984). Human fatalities have occurred following ingestion of iron at doses of 100 mg/kg/day (Venugopal & Luckey, 1978). Mild exposure to mists and aerosols of soluble iron salts cause respiratory and skin irritation. Inhaling some iron containing dusts and fumes can cause siderosis (a type of benign pneumoconiosis). Inhalation exposure to high concentrations of iron oxide is associated with increased risk of lung cancer and laryngeal cancers. Chronic inhalation over-exposure of humans to iron containing dusts and fumes produces respiratory irritation and various pulmonary lesions (EPA, 1984). There is limited evidence from studies with experimental animals that certain soluble iron salts are teratogenic. Certain iron compounds are also reported to be genotoxic. Iron oxide enhances the carcinogenic action of various organic carcinogens (benzo[a]pyrene for example) and may act as a tumor promoter. Local sarcomas have been induced by subcutaneous injection of iron dextran (EPA, 1984).

The National Research Council of the National Academy of Sciences (NRC, 1980) has suggested the recommended dietary allowances (RDA) for iron of between 10 and 60 mg. Therefore, the maximum recommended daily intake of iron can be used as a conservative allowable intake for chronic exposure. No health based criteria have been derived by EPA.

Elemental iron and many iron compounds, including Fe(OH)_3 and the iron oxides, are insoluble in water. Iron also tends to chelate with organic and inorganic matter. Consequently, much of the iron present in aquatic systems tends to partition into the bottom sediments. Iron has relatively low mobility in soil. Atmospheric transport of iron can occur.

LEAD

Some industrially produced lead compounds are readily soluble in water (USEPA, 1979). However, metallic lead and the common lead minerals are insoluble in water. Natural compounds of lead are not usually mobile in normal surface or groundwater because the lead leached from ores is adsorbed by ferric hydroxide or combines with carbonate or sulfate ions to form insoluble compounds.

Lead is a heavy metal that exists in one of three oxidation states, 0, +2 and +4. There is suggestive evidence that some lead salts are carcinogenic, inducing kidney tumors in mice and rats. Lead is also a reproductive hazard, and it can adversely affect the brain and central nervous system by causing encephalopathy and peripheral neuropathy. Chronic exposure to low levels of lead can cause subtle learning disabilities in children. Exposure to lead can also cause kidney damage and anemia, and it may have adverse effects on the immune system.

MAGNESIUM

Most magnesium salts are very soluble at pH levels normally found in natural waters, and the magnesium ion is readily transported in surface water, soil and groundwater. The extent of magnesium transport in soil is dependent, in part, on the cation exchange capacity of the soil.

Exposure to magnesium oxide fumes can cause metal fume fever in humans. Exposure to magnesium oxide dust can irritate the eyes and respiratory tract. Ingestion of very high levels of magnesium salts can cause central nervous system effects; it can also have a laxative action.

MANGANESE

Metallic manganese is steel gray, lustrous, hard and brittle. Manganese in water exists as soluble ion in the +2 or +4 oxidation state. The manganese ions can complex with organic compounds or form colloidal suspensions. The solubility of manganese decreases under low pH and low oxygen conditions. For example, at the bottom of lakes, manganous ions are released causing a high concentration of manganese. The solubility of manganese increases with the presence of anions such as chloride, nitrate and sulfate. The leaching of manganese from soil is high due to lack of sufficient cation exchange sites on clay or organic matter. In freshwater, manganese can occur as soluble iron, in complex organic ions or in colloidal suspension. Manganese can be released from lake sediments under reducing conditions. In soil, lack of sufficient cation exchange sites (e.g., clay) can result in greater leaching of manganese to groundwater. The presence of chlorides, sulfates or nitrates in soil can increase solubility.

EPA (1989) established a chronic RfD of 2.0×10^{-1} mg/kg/day for manganese based on no observed adverse effects (NOAEL) in rats exposed chronically to manganese in drinking water (Leung et al., 1981; Lai et al., 1982). An uncertainty factor of 100 was used to derive the reference dose. A subchronic oral RfD of 0.5 mg/kg/day was derived by EPA (1989) based on a study by Laskey et al. (1982) in which rats exposed to 52.5 mg/kg/day manganese from day one of gestation through 224 days of age exhibited reproductive effects. A safety factor of 100 was used to calculate the subchronic RfD. EPA (1989) calculated an inhalation reference dose based upon an occupational study conducted by Saric et al. (1977). Using a NOAEL of 2.1 mg/day and an uncertainty factor of 100, an inhalation RfD of 3.0×10^{-4} mg/kg/day was derived. Both the inhalation and oral intake values are based upon central nervous system effects (EPA, 1989).

Manganese occurs most commonly in the +2 and +4 oxidation states in aquatic systems. Its solubility depends to a great extent on pH, dissolved oxygen, and presence of complexing agents. In salt water, it is estimated that 98% or more of the manganese present exists in a soluble form. In fresh water, manganese can occur as the soluble ion, in complex organic ions, or in colloidal suspensions. Manganese often occurs at higher concentrations near the bottom of stratified lakes because it can be released from sediments, as the manganous ion, under reducing conditions.

In the soil, the concentration and chemical form in which manganese occur can be affected by pH, cation exchange capacity, drainage, organic matter content, and other factors. The solubility of manganese is increased at low pH and under reducing conditions. The presence of high concentrations of chlorides, nitrates, or sulfates may also increase solubility. Under these conditions, manganese is more easily taken up by plants or transported in aqueous solution. Lack of sufficient cation exchange sites, which are provided by organic matter or clay, can also result in greater leaching of manganese to surface or groundwater.

Atmospheric transport of manganese fumes or dusts can occur. These materials can be returned to the earth by wet or dry deposition.

MERCURY

Mercury occurs in the earth's crust in rocks and minerals as a sulfide chloride or oxide, but is a relatively rare element. Mercury can form organic compounds which are dangerous to the environment. Naturally occurring mercury in ground and surface waters occur at concentrations of 0.5 mg/l and may be higher in areas with local mineral deposits.

EPA (1989) has reported both a chronic and subchronic oral RfD for alkyl and inorganic mercury of 3×10^{-4} mg/kg/day based on studies investigating central nervous system effects in humans exposed to mercury (EPA, 1980); an uncertainty factor of 10 was used to develop the RfD. EPA (1989) has also reported a chronic and subchronic oral reference dose of 3×10^{-4} mg/kg/day for inorganic mercury based on a chronic rat study in which kidney effects were observed (Fitzhugh et al., 1950). An uncertainty factor of 1,000 was used to derive the RfD.

Mercury and certain of its compounds, including several inorganic species and dimethyl mercury, can volatilize to the atmosphere from aquatic and terrestrial sources. Volatilization is reduced by conversion of metallic mercury to complexed species and by deposition of HgS in reducing sediments, but even so atmospheric transport is the major environmental distribution pathway for mercury. Precipitation is the primary mechanism for removal of mercury from the atmosphere. Photolysis is important in the breakdown of airborne mercurials and may be important in some aquatic systems. Adsorption onto suspended and bed sediments is probably the most important process determining the fate of mercury in the aquatic environment. Sorption is strongest into organic materials. Mercury in soils is generally complexed to organic compounds.

Virtually any mercury compound can be remobilized in aquatic systems by microbial conversation to methyl and dimethyl forms. Conditions reported to enhance biomethylation include large amounts of available mercury, large numbers of bacteria, the absence of strong complexing agents, near neutral pH, high temperatures, and moderately aerobic environments. Mercury is strongly bioaccumulated by numerous mechanisms. Methylmercury is the most readily accumulated and retained form of mercury in aquatic biota, and once it enters a biological system it is very difficult to eliminate.

NICKEL

Nickel is a highly mobile metal in aquatic systems because many nickel compounds are highly soluble in water. However, the insoluble sulfide is formed under reducing conditions and in the presence of sulfur. Above pH 9, precipitation of the hydroxide or carbonate exhibits some control on nickel mobility. In aerobic environments below pH 9, soluble compounds are formed with hydroxide, carbonate, sulfate and organic ligands.

In natural, unpolluted waters, sorption and co-precipitation processes involving hydrous iron and manganese oxides are probably at least moderately effective in limiting the mobility of nickel. In more organic-rich, polluted waters, it appears that little sorption of nickel is likely. The lack of other controls on nickel mobility probably makes incorporation into bed sediments an important fate of nickel in surface waters. However, much of the nickel entering the aquatic environment will be transported to the oceans.

In general, nickel is not accumulated in significant amounts by aquatic organisms. Bioconcentration factors are usually on the order of 100 to 1,000. Uptake of nickel from the soil by plants can also occur. Photolysis, volatilization and biotransformation are not important environmental fate processes for nickel. However, atmospheric transport of nickel and nickel compounds on particulate matter can occur.

There is extensive epidemiological evidence indicating excess cancer of the lung and nasal cavity for workers at nickel refineries and smelters, and weaker evidence for excess risk in workers at nickel electroplating and polishing operations. Respiratory tract cancers have occurred in excess at industrial facilities that are metallurgically diverse in their operations. The nickel compounds that have been implicated as having carcinogenic potential are insoluble dusts of nickel subsulfide and nickel oxides, the vapor of nickel carbonyl, and soluble aerosols of nickel sulfate, nitrate or chloride. Inhalation studies with experimental animals suggest that nickel subsulfide and nickel carbonyl are carcinogenic in rats. Evidence for the carcinogenicity of nickel metal and other compounds is relatively weak or inconclusive. Studies with experimental animals indicate that nickel compounds can also produce various types of malignant tumors in experimental animals after administration by other routes, including subcutaneous, intramuscular, implantation, intravenous, intrarenal and intrapleural. Carcinogenic potential is not strongly dependent on route or site of administration but appears to be inversely related to the solubility of the compounds in aqueous media.

SELENIUM

Selenium is a metal which can exist in several forms. In the amorphous form, it is a red and gray or metallic crystal. The liquid form is a brownish red. Selenium can exist in four valence states (-2, 0, +4 and +6). In aerobic waters and high pH, selenium is present as selenite (+4) or selenate (+6). These forms are highly soluble. Under low oxygen conditions and low pH, selenium can form metal selenides. Selenium is strongly adsorbed to hydrous metal oxides. Selenium will be sorbed by bed sediments or suspended solids. Most selenium is transported in the dissolved state and is mobile in clays under alkaline conditions.

Chronic oral and inhalation RfD of 3.0×10^{-3} mg/kg/day and 1.0×10^{-3} mg/kg/day, respectively, have been derived by EPA (1984, 1989). The oral RfD value was based on a study by Yang et al. (1983) in which humans exposed to selenium in the diet at doses of 3.2 mg/day developed loss of hair and fingernails, dermatitis, and muscular dysfunction. By applying an uncertainty factor of 15 and a LOAEL of 3.2 mg/day, EPA (1989) determined the oral RfD value of 3×10^{-3} mg/kg/day. The oral RfD is currently under review by the oral RfD Work Group at EPA (1989). A subchronic oral RfD was calculated by EPA (1989) based on increased mortality in rats administered 0.4 mg/kg/day for six weeks (Halverson et al., 1966). A safety factor of 100 was used to derive the RfD. The inhalation RfD value was based on an occupational study by Glover (1967) in which workers exposed to airborne concentrations of selenium developed dermatitis and gastrointestinal disturbances. An uncertainty factor of 10 was used to determine the inhalation RfD (EPA, 1989).

In aerobic waters and at high pH, selenium is present in the selenite (+4) or selenate (+6) oxidation state. These chemical species are very soluble, and it is probable that most of the selenium released into the aquatic environment is transported in these forms to the oceans. Under reducing conditions and at low pH, elemental selenium or metal selenides can be formed. Similar chemical speciation patterns affect the transport of selenium in soil. In poorly aerated, acidic soils, insoluble forms predominate. In well aerated, alkaline soils, soluble forms of selenium subject to leaching and compounds readily taken up by plants tend to be formed.

Selenium is strongly adsorbed by hydrous metal oxides, while clays and organic materials have a lesser affinity. Sorption by bed sediments or suspended solids, and precipitation with hydrous iron oxides are probably the major control on mobility of

selenium in aerobic waters. However, most selenium in aquatic systems is probably transported as the dissolved species. Experimental studies indicate that selenium is quite mobile in clays, especially under alkaline conditions.

Selenium is bioaccumulated by aquatic and terrestrial organisms. Although dietary intake is thought to be the most important source of selenium in many organisms, little biomagnification appears to take place. Conversion of selenium to inert and insoluble forms may occur in terrestrial and aquatic organisms. However, selenium can be methylated by a variety of organisms, including benthic microflora. In a reducing environment, hydrogen selenide (H_2Se) may be formed. Both the methylated forms and H_2Se are volatile, and can be released to the atmosphere. Consequently, remobilization of selenium from aquatic and terrestrial systems, through biotransformation to volatile forms and subsequent atmospheric transport, can result in significant recycling.

SILVER

Silver is a white metal. As a metal, it is very low in solubility in aqueous systems. Silver can exist in several chemical forms in aqueous systems, usually as a hydrated silver cation.

Hydrated silver cations can react with halide ion to precipitate insoluble silver halides. This may be a major natural control mechanisms where chloride concentrations are high. Under reducing conditions in bed sediments, the formation of insoluble silver sulfides and metallic sulfides can control levels of soluble silver. Silver is strongly sorbed by clay minerals, manganese dioxide and ferric hydroxide. Sorption can remove dissolved silver from the water column. Usually, silver is in higher concentration in bed sediments than in overlying waters.

EPA (1989) derived an oral RfD of 3.0×10^{-3} mg/kg/day for silver based on the human case reports of Gaul & Staud (1935), Blumberg & Carey (1934), and East et al. (1980). In these studies, argyria was observed at an average dose of silver of 0.0052 mg/kg/day, to which an uncertainty factor of 2 was applied.

Silver can exist in several chemical forms in aqueous systems. Metallic silver, which has very low solubility, is stable over much of the Eh-pH range for water. Concentrations of hydrated silver cations, usually present as the univalent species, may be controlled by reaction with chloride, bromide, and iodide ions to give insoluble silver halides. Precipitation of AgCl may exert a major control on solubility of silver where chloride concentrations are relatively high. Under the reducing conditions often found in bed sediments, formation of insoluble silver sulfides and metallic silver may also control levels of soluble silver species. Silver is strongly sorbed by manganese dioxide, ferric hydroxide, and clay minerals. Sorption is probably the dominant process leading to removal of dissolved silver from the water column. In general, concentrations of silver are higher in the bed sediments than in overlying waters. For example, these concentrations were reported to differ by a factor of 1,000 in an alpine lake.

Bioaccumulation of silver by aquatic plants, invertebrates, and vertebrates occurs readily and appears to depend primarily on sorption/desorption from sediments. However, the amount of silver partitioned to the biota appears to be minor in comparison with the amount partitioned to the sediments. Little food chain magnification seems to occur. Photolysis, volatilization, atmospheric transport, and biotransformation do not appear to be important fate or transport processes for silver.

SODIUM

Many sodium compounds are soluble in water, and the sodium ion is readily transported in surface water, soil, and groundwater.

High doses of certain sodium compounds are reported to have teratogenic and reproductive effects in animals. Several studies suggest that brain damage and sudden unexpected death in human infants may be induced by high sodium levels. Exposure to high levels of sodium has also been associated with age related increases in high blood pressure in genetically susceptible individuals.

THALLIUM

Thallium is a bluish, white heavy metal which is very soft and inelastic. This metal is insoluble in water, but as a compound is soluble. Most thallium is likely to remain in solution. Dissolved thallium can sorb onto clay minerals and hydrous metal oxides in bed sediments. Under reducing environments, thallium can be precipitated as a metal or as a sulfite.

EPA (1989b) developed a chronic oral RfD of 7×10^{-5} mg/kg/day for thallium in soluble salts based on a subchronic feeding study in which rats received 0.20 mg/thallium/kg/day administered as thallium sulfate (MRI, 1986; EPA, 1986).

Thallium and its salts are readily and rapidly absorbed through the skin, lungs and mucous membranes of the mouth and gastrointestinal tract. Percutaneous absorption has also been reported to occur through rubber gloves (Rumack, 1986). Thallium is acutely toxic to humans regardless of the chemical form of the compound or route of administration. Hundreds of cases of thallotoxicosis due to ingestion of thallium based pesticides have been reported (ACGIH, 1986). Children poisoned by thallium ingestion have exhibited neurological abnormalities including mental retardation and psychoses (ACGIH, 1986). The effects of thallium toxicity are similar in humans and animals. Acute exposure to thallium has been associated in humans with gastrointestinal irritation, liver and kidney damage, pulmonary edema, degenerative changes in the adrenals and ocular effects.

In reducing environments, thallium may be precipitated as the metal or as thallium sulfide. However, much of the thallium present in aquatic systems is likely to remain in solution and be transported to the oceans. Active removal of some dissolved thallium by sorption to clay minerals and important environmental fate process. Thallium is readily taken up by aquatic organisms, and bioaccumulation may also be an important fate process. Results of limited studies with algae suggest that thallium may also be available for food chain magnification. There is no evidence to suggest that photolysis or volatilization are important environmental processes. Although there is speculation that thallium can be methylated under aerobic conditions by electrophilic attack, biotransformation does not appear to be an important process in aquatic systems.

VANADIUM

Occupational exposure to airborne vanadium has been shown to irritate the skin, eyes and respiratory tract and to cause bronchitis, bronchospasms, and chest pain. Oral exposure has been associated with gastrointestinal disturbances and discoloration of the oral mucosa. Chronic exposure to vanadium may have an adverse effect on various enzyme systems.

Trichloroethylene (TCE) rapidly volatilizes into the atmosphere where it reacts with hydroxyl radicals to produce hydrochloric acid, carbon monoxide, carbon dioxide, and carboxylic acid. This is probably the most important transport and fate process for trichloroethylene in surface water and in the upper layer of soil. TCE adsorbs to organic materials and can be bioaccumulated to some degree. However, it is unclear whether trichloroethylene bound to organic material can be degraded by micro-organisms or must be desorbed to be destroyed. There is some evidence that higher organisms can metabolize TCE. Trichloroethylene leaches into the groundwater fairly readily, and it is a common contaminant of groundwater around hazardous waste sites.

VINYL CHLORIDE

Vinyl chloride is a human carcinogen that causes angiosarcomas of the liver and tumors of the brain, lungs and hemolymphopoietic system. There is suggestive evidence that vinyl chloride has teratogenic and reproductive effects in both humans and animals. Chronic human exposure to vinyl chloride is associated with multiple systemic disorders, including a sclerotic syndrome, acro-osteolysis and liver damage. Acute human exposure to high concentrations can cause narcosis, respiratory tract irritation, bronchitis and memory disturbances. Chronic exposure by animals can result in lesions of the liver, kidneys, spleen and lungs.

Volatilization from aquatic and terrestrial systems is the most important transport process for distribution of vinyl chloride throughout the environment. Half-lives in aquatic systems range from several minutes to a few hours, depending on temperature, water turbulence, and mixing efficiency. Photo-oxidation in the troposphere is the dominant environmental fate of vinyl chloride. Vinyl chloride reacts rapidly with hydroxyl radicals, forming hydrogen chloride or formyl chloride. Formyl chloride, if formed, rapidly decomposes to yield carbon monoxide and hydrogen chloride. Vinyl chloride in the atmosphere is expected to be destroyed within one or two days of its release. The hydrogen chloride formed is reported to be removed from the troposphere during precipitation.

Photolysis does not appear to be an important fate process in aquatic systems. Furthermore, photo-oxidation destroys vinyl chloride before it can reach the stratosphere, where direct photolysis could occur. Based on available information, hydrolysis, sorption, bioaccumulation, and biodegradation do not appear to be important environmental fate processes.

XYLENE

Xylene has been shown to be fetotoxic in rats and mice. In humans, exposure to high concentrations of xylene adversely affects the central nervous system and irritates the mucous membranes.

Volatilization and subsequent photo-oxidation by reaction with hydroxyl radicals in the atmosphere are probably important transport and fate processes for xylene in the upper layer of soil and in aquatic environments. Products of the hydroxylation reaction include carbon dioxide, peroxyacetylnitrate (PAN), and cresol. Xylene binds to sediment in water and to organics in soils and undergoes microbial degradation. Biodegradation is probably the most important fate process in both soils and the aquatic environment. Xylenes have been shown to persist for up to six months in soil. Because of their low water solubility and rapid biodegradation, xylenes are unlikely to leach into groundwater in high concentrations.

DDT

DDT is an organo-chlorine pesticide, which together with its metabolites, is very persistent in the environment. DDT, DDE and DDD have been shown to be carcinogenic in mice. They primarily cause liver tumors, but they also increase the incidence of lung tumors and lymphomas. In addition, DDT is a reproductive toxin. Chronic exposure can damage the central nervous system and liver. DDT and other organo-chlorine pesticides are highly toxic to aquatic organisms and are responsible for the decreased reproductive success of many bird species.

POLYCHORINATED BIPHENYLS (AROCHLOR 1254, 1260)

Polychlorinated biphenyls (PCB) are very persistent in the natural environment and are readily bioaccumulated. In humans, exposure to PCB has been associated with chloracne, impairment of liver function, a variety of neuro-behavioral symptoms, menstrual disorders, minor birth abnormalities and an increased incidence of cancer.

Experimental animals exposed to PCB experienced an increased incidence of cancer; reproductive problems; neuro-behavioral degradation; pathological changes in the liver, stomach, skin and other organs; and suppression of immunological function. PCB are often contaminated and these contaminants may be much more toxic than the PCB themselves.

CYANIDE

The transport and fate of cyanide in the environment is dependent on the chemical compound containing the cyanide. Most free cyanide will be HCN in aquatic environments and will probably evaporate, although biodegradation is another possible fate process. Metal cyanides are generally insoluble and for that reason will accumulate in the sediment. Sorption occurs but is not considered an important transport or fate process. Cyanides move rather freely in soils but biodegradation would probably significantly decrease the amount present in the groundwater. Volatilization of HCN and nitriles may occur from soil surfaces.

Cyanide can be present in many forms in the environment. The transport, fate and toxicity of the chemical is quite dependent on the specific form. Hydrogen cyanide and its simple salts are highly toxic following acute exposure by humans, experimental animals, and both aquatic and terrestrial wildlife.

NIOSH notes reports of chronic poisoning resulting in fatigue, weariness and other subjective symptoms in workers, but these findings have been disputed by other investigators. Chronic exposure to low levels of cyanide salts has been reported to cause enlargement of the thyroid gland in humans, apparently due to inefficient elimination of the cyanide metabolite thiocyanate. NIOSH (1976) concluded that there was no evidence of carcinogenicity, mutagenicity or teratogenicity for cyanides.

ACETONE

Acetone is generally regarded as having low toxicity and, therefore, has not been extensively studied. Prolonged inhalation of high concentrations may produce irritation of the respiratory tract, coughing, headache, drowsiness, incoordination and in severe cases, coma.

Acetone is a commonly used solvent, which probably is not very persistent in the environment. It is considered to have rather low toxicity, and no chronic health hazards have been associated with exposure to it. Acetone is not very toxic to aquatic organisms.

Very limited information on the transport and fate of acetone was found in the literature reviewed. However, ketones in general are probably not very persistent. Acetone has a high vapor pressure and therefore would be expected to volatilize readily, but because of its high water solubility, volatilization is probably limited. Once in the atmosphere, it is apparently oxidized. Acetone has a low octanol/water partition coefficient and therefore is probably not readily adsorbed. Biodegradation is probably important in determining the fate of acetone in the environment because of its aliphatic nature. Evidence of this is provided by the biological oxygen demand value, which was 72% of the theoretical value after 20 days at 20° C.

METHYL ETHYL KETONE (2-BUTANONE)

Methyl ethyl ketone (2-Butanone) retarded fetal development and had some teratogenic effects in the off-spring of exposed pregnant rats. At high doses, it affects the nervous system and irritates the eyes, mucous membranes and skin. In addition, methyl ethyl ketone strongly potentiates the neurotoxic effects of n-hexane and n-hexamone.

CHLOROETHANE

Chloroethane is probably not very persistent in the environment. It volatilizes rapidly from water; once in the atmosphere, it is photo-oxidized, and formyl chloride is the initial oxidation product. Hydrolysis may also occur in surface water or in moist soil. Biodegradation, sorption and bioaccumulation probably are not important fate processes for chloroethane.

Chloroethane is used as a solvent, as a refrigerant, and as a raw material in the manufacture of tetraethyl lead. It is fairly volatile in the environment. Chloroethane caused headaches and dizziness in workers exposed to high levels. It causes kidney damage and liver changes in chronically exposed animals.

CHLOROFORM

Chloroform (or trichloromethane), CHCl_3 , is a saturated chlorinated alkane. It is a non-flammable, very volatile, sweet tasting liquid. All carbon bonds are single and their chemical reactions are slow. It can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organic chemicals in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Chlorinated alkanes in particular are usually highly stable compounds that are only slowly destroyed by natural process in the environment. Volatilization is the major form of transport for chloroform from aquatic systems. Photolysis, hydrolysis and sorption are not predominantly environmental fate processes. Sorption may be an effective removal process in groundwater and soil. This compound may bioaccumulate under constant exposure conditions. Chloroform is often produced during the chlorination of drinking water.

Chloroform has been classified by EPA as a Group B2 carcinogen (probable human carcinogen) (EPA, 1989a). EPA (1989a) developed an oral cancer potency factor for chloroform of 6.1×10^3 (mg/kg/day)⁻¹ based on a study in which kidney tumors were observed in rats exposed to chloroform in drinking water (Jorgenson et al., 1985). An inhalation cancer potency factor of 8.1×10^{-2} (mg/kg/day)⁻¹ has been developed by EPA (1989a) based on an NCI (1976) bioassay in which liver tumors were observed in mice. EPA (1989b) also derived both a chronic and subchronic oral reference dose of 0.01 mg/kg/day for chloroform based on a chronic bioassay in dogs in which liver effects were observed at 12.9 mg/kg/day (Heywood et al., 1979); an uncertainty factor of 1,000 was used to derive both RfDs.

Volatilization into the atmosphere is the major transport process for removal of chloroform from aquatic systems (USEPA, 1979). Once in the troposphere, chloroform is attacked by hydroxyl radicals with the subsequent formation of phosgene (COCl_2) and possibly chlorine oxide (ClO) radicals. Neither of these reaction products is likely to persist; phosgene is readily hydrolyzed to hydrochloric acid and carbon dioxide. Reaction with hydroxyl radicals is thought to be the primary environmental fate of chloroform. However, chloroform that remains in the troposphere may return to earth in precipitation or adsorbed on particulates, and a small amount may diffuse upward to the stratosphere where it photo-dissociates via interaction with ultraviolet light.

Photolysis, hydrolysis and sorption do not appear to be significant environmental fate processes for chloroform. However, sorption processes may have some importance as a removal mechanism in groundwater and soil. The log octanol/water participation coefficient indicates that this compound may bioaccumulate under conditions of constant exposure. Studies with marine organisms provide evidence for only weak to moderate bioaccumulation. Although chloroform is somewhat lipophilic and tends to be found at higher concentrations in fatty tissues, there is no evidence for biomagnification in aquatic food chains.

CHLOROMETHANE (METHYL CHLORIDE)

Methyl chloride is a gas at normal environmental temperatures and, therefore, is unlikely to remain in soil or water. Experimental studies have found the half-life of methyl chloride in agitated water to be 27 minutes.

Methyl chloride is carcinogenic in male mice, causing tumors of the kidney and liver. It was found to be mutagenic using the Ames assay. Methyl chloride has also been shown to be teratogenic; it produces heart defects in the off-spring of exposed mice. Exposure to high concentrations adversely affects the central nervous system, kidney and liver in humans.

1,1-DICHLOROETHANE (1,1-DCA)

1,1-Dichloroethane ($C_2H_4Cl_2$), is a saturated chlorinated alkane. It exists as an oily liquid with the odor and taste of chloroform. This compound is the least toxic of all chlorinated ethanes.

This organic contaminant can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organic chemicals in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Chlorinated alkanes in particular are usually highly stable compounds that are only slowly destroyed by natural process in the environment. This compound is volatile and is not persistent in water. Due to high solubility and low log octanol/water partition coefficient, this compound can potentially move through soil and enter groundwater. However, no studies exist to support adsorption of the compound.

EPA (1989) has classified 1,1-DCA as a Group B2 agent (probable human carcinogen) and reported an oral cancer potency factor of 9.1×10^{-2} (mg/kg/day)⁻¹. This potency factor is based on structure activity relationship to the isomer 1,2-dichloroethane, a Group B2 carcinogen and on the increased incidence of hemangiosarcomas observed in rats administered 1,1-DCA via gavage (NCI 1978). EPA (1989) developed a chronic oral and inhalation reference dose of 0.1 mg/kg/day based on adverse renal effects seen in cats following subchronic inhalation exposure (Hofmann et al., 1971). A safety factor of 1,000 was used to develop the RfD. EPA (1989) also derived a subchronic RfD of 1.0 mg/kg/day for both oral and inhalation exposures based on this same study and end-point and applying a safety factor of 100.

1,1-Dichloroethane disperses from surface water primarily by volatilization into the troposphere, where it is subsequently broken down by hydroxylation. No studies on adsorption were found in the literature reviewed, but because of its water solubility and relatively low log octanol/water partition coefficient, 1,1-dichloroethane potentially could move through soil and enter the groundwater.

1,1-DICHLOROETHYLENE

1,1-Dichloroethylene (1,1-DCE, CH_2CCl_2) is an unsaturated chlorinated alkane and contains a carbon-carbon double bond. 1,1-DCE is a liquid with a mild, sweet odor resembling that of chloroform. It can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organics in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Chlorinated alkanes in particular are usually highly stable compounds that are only slowly destroyed by natural process in the environment. The alkenes in general are more chemically reactive than alkanes. 1,1-DCE will eventually break down to vinyl chloride. It is also possible that hydrolysis of 1,1-DCE can form organic alcohols and that the interaction with halides (i.e., chloride) in solution can form a chlorinated alkane.

1,1-Dichloroethylene is a highly mobile compound. In surface waters, it quickly volatilizes and is photo-oxidized in the atmosphere. In groundwater systems, 1,1-dichloroethylene does not readily adsorb to soil particles so it is easily leached to and transported in flowing groundwater. This compound is usually associated with industrial effluent or solid waste and is also a degradation product of tetrachloroethene.

EPA has classified 1,1-DCE as a Group C agent (possible human carcinogen) and has developed inhalation and oral cancer potency factors of $1.2 \text{ (mg/kg/day)}^{-1}$ and $0.6 \text{ (mg/kg/day)}^{-1}$, respectively (EPA 1985, 1989a). The inhalation potency factor was based on the increased incidence of renal adenocarcinomas in male mice exposed to 1,1-DCE via inhalation for 52 weeks and observed for a total of 121 weeks (Maltoni et al., 1985). The oral potency factor was derived by estimating an upper limit value from negative bioassay data and assuming that a carcinogenic response occurs via ingestion, although there is no direct evidence that this is true. EPA (1989b) developed both a chronic and subchronic RfD of $9 \times 10^{-3} \text{ mg/kg/day}$ based on the occurrence of hepatic lesions in rats chronically exposed to 1,1-DCE in drinking water (Quast et al., 1983). A safety factor of 1,000 was applied to the lowest-observed-adverse-effect level (LOAEL) of 9 mg/kg/day to derive the oral RfD.

Volatilization appears to be the primary transport process for 1,1-dichloroethylene (VDC), and its subsequent photo-oxidation in the atmosphere by reaction with hydroxyl radicals is apparently the predominant fate process. Information on other transport and fate mechanisms was generally lacking for 1,1-dichloroethylene. However, by inference from related compounds, hydrolysis, sorption, bioaccumulation, biotransformation, and biodegradation probably all occur but at rates too slow to be of much significance.

1,2-DICHLOROETHANE (1,2-DCA)

1,2-Dichloroethane ($C_2H_4Cl_2$) is a saturated chlorinated alkane. It is a heavy liquid with a pleasant odor and sweet taste. The vapors can be irritating. It can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organic chemicals in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Chlorinated alkanes in particular are usually highly stable compounds that are only slowly destroyed by natural process in the environment. There are no natural sources of 1,2-dichloroethane. It is a synthetic chemical. Releases of 1,2-dichloroethane are largely to air with smaller amounts to surface and groundwaters. When released to air, it slowly degrades over a few months. 1,2-Dichloroethane, when released on land, does not sorb onto soil and readily migrates to groundwater. It can remain in groundwater from a period of months to a period of years. 1,2-Dichloroethane released to surface water volatilizes to the atmosphere in a few weeks. 1,2-Dichloroethane has a low solubility in water and may be a component in non-aqueous phase liquids.

EPA (1989) has classified 1,2-DCA in Group B2 (probable human carcinogen) based on inadequate evidence of carcinogenicity from human studies and sufficient evidence of carcinogenicity from animal studies. EPA (1989) derived an oral and an inhalation cancer potency factor (q_1^*) of 9.1×10^{-2} (mg/kg/day) $^{-1}$ for 1,2-DCA based on the incidences of hemangiosarcomas in Osborne-Mendel male rats observed in the NCI (1978) gavage study.

The primary method of dispersion from surface water for 1,2-dichloroethane is volatilization. In the atmosphere, 1,2-dichloroethane is rapidly broken down by hydroxylation, although some may be absorbed by atmospheric water and return to the earth by precipitation. No studies on the adsorption of 1,2-dichloroethane onto soil were reported in the literature examined. However, 1,2-dichloroethane has a low octanol/water partition coefficient, is slightly soluble in water, and therefore leaching through the soil into the groundwater is an expected route of dispersal.

ETHYLBENZENE

Only limited data are available on the transport and fate of ethylbenzene. Volatilization is probably the major route of elimination from surface water. Subsequent atmospheric reactions, especially photo-oxidation, are responsible for its fate. However, its high log octanol/water partition coefficient suggests that a significant amount of ethylbenzene may be adsorbed by organic material in the sediment. Some soil bacteria are capable of using ethylbenzene as a source of carbon. However, the relative importance of this potential route of ethylbenzene elimination has not been determined.

There is some evidence suggesting that ethylbenzene causes adverse reproductive effects in animals. Oral and inhalation exposure caused minor liver and kidney changes in rats. Ethylbenzene is a skin and eye irritant. Ethylbenzene is irritating to the eyes at a concentration of 200 ppm (870 mg/m³) and above.

METHYLENE CHLORIDE (DICHLOROMETHANE)

Methylene chloride (CH_2Cl_2) is a saturated chlorinated alkane. It is a colorless liquid. Methylene chloride vapor is not flammable. It can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organic chemicals in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Chlorinated alkanes in particular are usually highly stable compounds that are only slowly destroyed by natural process in the environment. Dichloromethane is a synthetic organic chemical with no natural sources. It occurs widely in the environment. Releases occur to the atmosphere by evaporation. Dichloromethane degrades rapidly in the air. Dichloromethane does not sorb to soil and readily migrates to groundwater. It is expected to stay in groundwater for years. This compound does not bioaccumulate.

EPA (1989a) classified methylene chloride in Group B2 (probable human carcinogen). It has been concluded by EPA (1985b) that the induction of distant site tumors from inhalation exposure and the borderline significance for induction of tumors in a drinking water study are an adequate basis for concluding that methylene chloride be considered a probable human carcinogen via ingestion as well as inhalation. EPA (1989a) derived an inhalation cancer potency factor of $1.4 \times 10^{-2} \text{ (mg/kg/day)}^{-1}$ based on the results of a National Toxicology Program (NTP) inhalation bioassay conducted in rats and mice (NTP, 1986). Mammary tumors were noted in rats, while lung and liver tumors were observed in mice. EPA (1989a) determined an oral cancer potency factory of $7.5 \times 10^{-3} \text{ (mg/kg/day)}^{-1}$ based on the results of the NTP (1986) inhalation bioassay and on an ingestion bioassay conducted by the National Coffee Association (NCA, 1983). In the NCA study, hepatocellular adenomas and/or carcinomas were observed in male mice. Both a chronic and subchronic RfD of 0.06 mg/kg/day has been developed by EPA (1989b) based on a two year rat drinking water bioassay (NCA, 1982) that identified no-observed-effect levels (NOELs) of 5.85 and 6.47 mg/kg/day for male and female rats, respectively. An uncertainty factor of 100 was used to derive the RfD. EPA (1989b) has established an inhalation RfD of 3 mg/m^3 based on a study by Nitschke et al. (1988) in which rates were exposed to 200 ppm (694.8 mg/m^3) for two years. A safety factor of 100 was used to derive the RfD. This RfD is currently undergoing verification by EPA (1989a).

Volatilization to the atmosphere appears to be the major mechanism for removal of methylene chloride from aquatic systems and its primary environmental transport process (USEPA, 1979). Photo-oxidation in the troposphere appears to be the dominant environmental fate of methylene chloride. Once in the troposphere, the compound is attacked by hydroxyl radicals, resulting in the formation of carbon dioxide, and to a lesser extent, carbon monoxide and phosgene. Phosgene is readily hydrolyzed to HCl and CO₂. About 1% of tropospheric methylene chloride would be expected to reach the stratosphere where it would probably undergo photo-dissociation resulting from interaction with high energy ultraviolet radiation. Aerial transport of methylene chloride is partly responsible for its relatively wide environmental distribution. Atmospheric methylene chloride may be returned to the earth in precipitation.

Photolysis, oxidation and hydrolysis do not appear to be significant environmental fate processes for methylene chloride, and there is no evidence to suggest that either adsorption or bioaccumulation are important fate processes for this chemical. Although methylene chloride is potentially biodegradable, especially by acclimatized micro-organisms, biodegradation probably only occurs at a very slow rate.

TETRACHLOROETHENE

Tetrachloroethene or PCE (C_2HCl_4) is an unsaturated, chlorinated alkene and contains a carbon-carbon double bond. PCE is a non-flammable, heavy mobile liquid with a sweetish, chloroform-like odor. It can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organic chemicals in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Chlorinated alkanes in particular are usually highly stable compounds that are only slowly destroyed by natural processes in the environment. There are no natural sources of this organic synthetic chemical. The majority of PCE is released directly to the atmosphere during use. It is very mobile in soil and readily migrates in groundwater. It slowly degrades in groundwater and can remain for months or years. Under certain conditions, it may degrade to trichloroethylene and vinyl chloride. The alkenes in general are more chemically reactive than alkanes. PCE will eventually breakdown to TCE, DCE and/or vinyl chloride. It is also possible that hydrolysis of PCE can form organic alcohols and that the interaction with halides (e.g., chlorine) in solution can form a chlorinate alkane.

EPA (1989b) classifies tetrachloroethylene as a Group B2 carcinogen (probable human carcinogen). EPA (1989a, 1985b) has derived an oral cancer potency factor (q_1^*) of 5.1×10^{-2} (mg/kg/day) $^{-1}$ based on liver tumors observed in the NCI (1977) gavage bioassay for mice. The inhalation cancer potency factor for tetrachloroethylene of 3.3×10^{-3} (mg/kg/day) $^{-1}$ is based on an NTP (1986) bioassay in rats and mice in which leukemia and liver tumors were observed (EPA, 1989b). Both cancer potency factors are currently under review by EPA (1989a). EPA (1989a,b) also has derived a chronic RfD of 1×10^{-2} mg/kg/day for tetrachloroethylene based on a gavage study by Buben & O'Flaherty (1985). In this study, liver weight/body weight ratios were significantly increased in mice and rats treated with 71 mg/kg/day tetrachloroethylene but not in animals treated with 14 mg/kg/day. Using a NOAEL of 14 mg/kg/day and applying an uncertainty factor of 1,000, the RfD was derived. EPA (1989b) has also derived a subchronic RfD of 0.1 mg/kg/day based on the same Buben & O'Flaherty (1985) study; a safety factor of 100 was used to calculate the RfD.

Tetrachloroethylene (PCE) rapidly volatilizes into the atmosphere where it reacts with hydroxyl radicals to produce HCl, CO, CO₂ and carboxylic acid. This is probably the most important transport and fate process for tetrachloroethylene in the environment. PCE will leach into the groundwater, especially in soils of low organic content. In soils with high levels of organics, PCE adsorbs to these materials and can be bioaccumulated to some degree. However, it is unclear if tetrachloroethylene bound to organic material can be degraded by micro-organisms or must be desorbed to be destroyed. There is some evidence that higher organisms can metabolize PCE.

TOLUENE

Toluene ($C_6H_5CH_3$) is an aromatic hydrocarbon compound. It is a benzene derivative with a methyl group substituted for a hydrogen. Toluene is a flammable liquid with a benzene-like odor. It can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organic chemicals in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Aromatic compounds such as toluene can ultimately be degraded to carbon dioxide and water. Toluene is an aromatic hydrocarbon found in gasoline and other petroleum products. It may be adsorbed by natural organic material in soil based on low aqueous solubility. Toluene will bind to soil weakly and will leach to groundwater slowly. Biodegradation may occur since soil bacteria use these compounds as a source of carbon. Volatilization of toluene occurs to some extent based on vapor pressure. However, upon release to air, the compounds degrade rapidly.

EPA (1989a) has derived an oral RfD of 0.3 mg/kg/day for toluene based on a 24-month inhalation study in which rats were exposed to concentrations as high as 300 ppm (29 mg/kg/day) and hematological parameters were examined (CIIT, 1980). Using a no-observe-adverse-effect level (NOAEL) of 29 mg/kg/day and an uncertainty factor of 100, the oral RfD was derived. EPA (1989b) reported a subchronic RfD of 0.4 mg/kg/day based on a rat study conducted by Wolf et al. (1956) in which central nervous system effects were observed. A safety factor of 100 was used to derive the RfD. EPA (1989b) also reported an inhalation RfD for toluene of 1.0 mg/kg/day based on this CIIT (1980) study in which CNS effects were noted and an uncertainty factor of 100 was used.

Volatilization appears to be the major route of removal of toluene from aquatic environments, and atmospheric reactions of toluene probably subordinate all other fate processes (USEPA, 1979). Photo-oxidation is the primary atmospheric fate process for toluene, and benzaldehyde is reported to be the principal organic product. Subsequent precipitation or dry deposition can deposit toluene and its oxidation products into aquatic and terrestrial systems. Direct photolytic cleavage of toluene is energetically improbable in the troposphere, and oxidation and hydrolysis are probably not important as aquatic fates.

The log octanol/water partition coefficient of toluene indicates that sorption processes may be significant. However, no specific environmental sorption studies are available, and the extent to which adsorption by sedimentary and suspended organic material may interfere with volatilization is unknown. Bioaccumulation is probably not an important environmental fate process. Although toluene is known to be degraded by microorganisms and can be detoxified and excreted by mammals, the available data do not allow estimation of the relative importance of biodegradation/biotransformation processes. Almost all toluene discharged to the environment by industry is in the form of atmospheric emissions.

1,1,1-TRICHLOROETHANE (1,1,1-TCA)

Preliminary results suggest that 1,1,1-trichloroethane (1,1,1-TCA) induces liver tumors in female mice. It was shown to be mutagenic using the Ames assay, and it causes transformation in cultured rat embryo cells. Inhalation exposure to high concentrations of 1,1,1-TCA depressed the central nervous system; affected cardiovascular function; and damaged the lungs, liver and kidneys in animals and humans. Irritation of the skin and mucous membranes has also been associated with human exposure to 1,1,1-trichloroethane.

1,1,1-Trichloroethane (1,1,1-TCA) disperses from surface water primarily by volatilization. Several studies have indicated that 1,1,1-trichloroethane may be adsorbed onto organic materials in the sediment, but this is probably not an important route of elimination from surface water. 1,1,1-Trichloroethane can be transported in the groundwater, but the speed of transport depends on the composition of the soil.

Photo-oxidation by reaction with hydroxyl radicals in the atmosphere is probably the principal fate process for this chemical.

1,1,2-TRICHLOROETHANE

Volatilization and subsequent photo-oxidation in the troposphere are probably the primary transport and fate processes for 1,1,2-trichloroethane. Some sorption, bioaccumulation and biodegradation may occur, but these processes are probably not very important processes for trichloroethane transport or fate.

1,1,2-Trichloroethane induced liver tumors and pheochromocytomas in mice. It caused liver and kidney damage in dogs.

TRICHLOROETHENE

Trichloroethene or TCE (C_2HCl_3) is an unsaturated, chlorinated alkene and contains a carbon-carbon double bond. Trichloroethene is a clear, colorless, non-flammable liquid with an odor like chloroform. There are no natural sources of TCE. Trichloroethene is sometimes called trichloroethylene (CAS 79-01-6). It can be transformed into other compounds by a very complex set of chemical and biological mechanisms in groundwater. The interactions of these processes are not well understood. The principal classes of chemical reactions that can affect organic chemicals in water are hydrolysis and oxidation. Micro-organisms in the aquifer will also facilitate the otherwise slow degradative process. Aromatic compounds that are only slowly destroyed by natural processes in the environment. The alkenes in general are more chemically reactive than alkanes. TCE will eventually breakdown to DCE and/or vinyl chloride. It is also possible that hydrolysis of TCE can form organic alcohols and that the interaction with halides (e.g., chlorine) in solution can form a chlorinate alkane. Volatilization of trichloroethene during production and use is a major pathway for this compound to enter the environment. Trichloroethene is often found in air, food, human tissue, rivers, and the ocean. Trichloroethene is not persistent at the earth's surface because of the rapid photo-oxidation in air, its low water solubility, and its volatility (USEPA, 1980). However, trichloroethene which enters a saturated groundwater zone may be relatively persistent, as it is neither strongly adsorbed nor readily biodegraded, although trichloroethene can undergo anaerobic decomposition to 1,2-dichloroethene. (TCE may be a degradation produce of PCE, tetrachloroethene).

EPA (1989) classified trichloroethylene in Group B2 (probable human carcinogen) based on inadequate evidence in humans and sufficient evidence of carcinogenicity from animal studies. An oral cancer potency factor of 1.1×10^{-2} (mg/kg/day) $^{-1}$ and an inhalation cancer potency factory of 4.6×10^{-3} (mg/kg/day) $^{-1}$ (EPA, 1984) have been derived from trichloroethylene based on the mouse liver tumor data in the NCI (1976) and NTP (1983) gavage studies. EPA (1987) developed an oral RfD of 7.35×10^{-3} mg/kg/day based on a subchronic inhalation study in rats in which elevated liver weights were observed following exposure to 55 ppm, 5 days per week for 14 weeks (Kimmerle & Eben, 1973). A safety factor of 1,000 was used to calculate the RfD. However, this RfD is currently under review by EPA.

ZINC

Ingestion of excessive amounts of zinc can cause fever, vomiting, and stomach cramps. Zinc oxide fumes can cause metal fume fever. Inhalation of mists or fumes may irritate the respiratory tract, and contact with zinc chloride may irritate the eyes and skin. High levels of zinc in the diet have been shown to retard growth and produce defective mineralization of bone.

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