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VCP - V

BCP - C

915156

6PS

HODGSON, RUSS, ANDREWS, WOODS & GOODYEAR

(A PARTNERSHIP INCLUDING PROFESSIONAL ASSOCIATIONS)

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RICK W. KENNEDY
PARTNER

March 3, 1993

Gregory P. Sutton, P.E.
Environmental Engineer II
New York State Department of
Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

Dear Mr. Sutton:

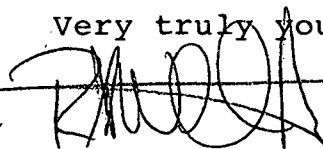
Re: Leica, Inc.

This is in response to your letter of February 11, 1993.

Specifically, I have enclosed a copy of the Phase I Environmental Appraisal Report prepared by Recra Environmental, Inc. for Leica, Inc., dated August, 1990. Recra Environmental, Inc. performed a Phase II Field Investigation, but did not issue a final Phase II Report. Nevertheless, I have enclosed all of the analytical data produced as a result of the Phase II field work for your review.

If you have any questions concerning any of the enclosed material, please call me.

Very truly yours,



Rick W. Kennedy

RECEIVED

MAR 02 1993

RWK/rad
Enclosures

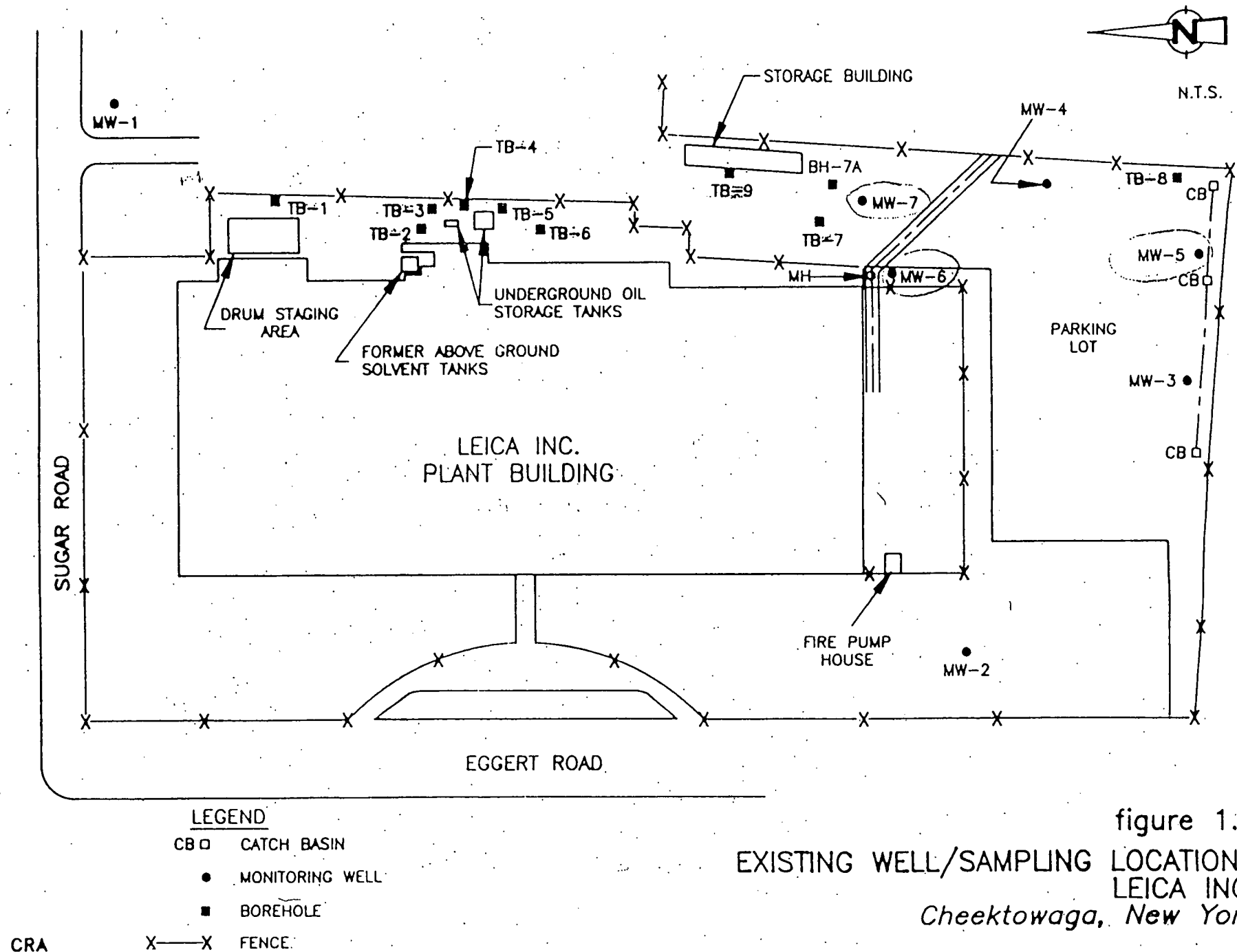


figure 1.2
 EXISTING WELL/SAMPLING LOCATIONS
 LEICA INC.
 Cheektowaga, New York



RECRA ENVIRONMENTAL, INC.

Chemical and Environmental Analysis Services

REAL PROPERTY ENVIRONMENTAL APPRAISAL REPORT

PREPARED FOR:

Leica Inc.
Eggert & Sugar Roads
Buffalo, New York

PREPARED BY:

Recra Environmental, Inc.
10 Hazelwood Drive
Suite No. 106
Amherst, NY 14228-2298

REI Project No.: OC2567

Dates of Inspection: July 31, 1990,
August 7 & 10, 1990

For Recra Environmental, Inc.

Walter V. Grabowski Jr. 8-14-90
(Signature) (Date)
Walter V. Grabowski, Jr.
Registered Environmental Property
Assessor
Program Manager

Brian C. Senefelder 8/14/90
(Signature) (Date)
Brian C. Senefelder, CHMM; REP
Vice President

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DEFINITIONS

For purposes of this Report, Environmental Liability shall mean:

1. Any apparent condition in, upon, or under the described Property which is detected by the Consultant from observations at the time of inspection, from test results, if testing is authorized by the Client, and from specific information presented to the Consultant, possibly indicating the presence of:
 - A. pollutants, contaminants, irritants, wastes, or any other toxic or hazardous materials or substances designated by, and in amounts which exceed legally acceptable parameters as defined by, the U.S. Environmental Protection Agency, New York State Department of Environmental Conservation, or any other Federal, State or Municipal governmental or regulatory agency or body; or
 - B. equipment, structures, tanks, transformers or any other item or any conditions which in Consultant's opinion may require remedial action; or
 - C. any condition which in Consultant's opinion constitutes a hazardous environmental condition or requires the advice of legal counsel regarding an environmental permit or license from a governmental body or agency.
2. A finding, based upon a reasonable inquiry of readily available public records, of official governmental notice of past or present violation of any environmental law or the terms or conditions of any environmental permit, license, approval, authorization, consent or registration in connection with the ownership, use or operation of the Property.



**REAL PROPERTY
ENVIRONMENTAL APPRAISAL REPORT**

EXECUTIVE SUMMARY

REPORT REQUESTED BY: Leica Inc.

INTRODUCTION

This Real Property Environmental Appraisal Report ("Appraisal Report") is the professional opinion of Recra Environmental, Inc. ("Consultant") and is based on information contained in public and available records and observations made during the property inspection. Consultant's opinions, findings, and recommendations do not apply or pertain to conditions at the Property existing after the date of the inspection or to the Property's status after that date.

This Appraisal Report was prepared using data, references and information available from federal, state, county, and local agencies. Observations were made of the land and improvements present at the time of the inspection. Consultant renders no opinion as to the presence or absence of hazardous materials or potential environmental liability associated with portions of the property, structures or adjacent properties where access was limited, obstructed or unavailable.

Unless otherwise specified in the Appraisal Report, Consultant did not perform certified environmental testing, analysis or monitoring to determine the presence or absence of hazardous constituents. If additional and in-depth tests had been conducted, Consultant's opinions contained herein might be significantly different.

THIS REPORT CONTAINS CONSULTANT'S SUBJECTIVE OPINIONS AND CONSULTANT DOES NOT ASSUME ANY RESPONSIBILITY OR LIABILITY OF ANY KIND FOR THE ACCURACY OF THE OPINIONS OR THE SCOPE, LEVEL OF DETAIL, OR RAMIFICATIONS OF THE REPORT, NOR FOR ANY DETERMINATIONS MADE WITH RESPECT TO ENVIRONMENTAL MATTERS BASED UPON THE REPORT. CONSULTANT'S OPINIONS, FINDINGS, RECOMMENDATIONS AND CONTENTS OF THE REPORT DO NOT CONSTITUTE A WARRANTY OF ANY KIND AND CONSULTANT MAKES NO EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. THE RESULTS OF THE REPORT MAY ADVERSELY AFFECT THE VALUE OF THE PROPERTY.

In addition, the Real Property Environmental Appraisal Report presents an opinion relative to the likelihood of the existence of potential environmental concerns and liability. Recra Environmental, Inc. has prepared this Appraisal Report for the exclusive use of Leica Inc. and is in no way intended for utilization, reliance or otherwise by any other party.



PROPERTY IDENTIFICATION

- o Common Address: Eggert & Sugar Roads
Buffalo, New York
- o Contact Person(s): Mr. Bruce Mallott
Mr. Max Strasser
Ms. Chris Vonlanger
Mr. William Mahoney
- o Legal Description: 91.00-1-26-1

APPRAISAL SUMMARY

The following Appraisal Summary and Risk Based Scoring Summary is based upon the Consultant's professional opinion relative to only the available information reviewed and observations made during the property inspection on July 31, August 7 & 10, 1990. The likelihood of the presence of each of the following Environmental Liabilities is:

<u>Environmental Liability</u>	<u>Likelihood Score</u>
Asbestos	<u>1</u>
Petroleum	<u>2</u>
Potential Hazardous/Toxic Material	<u>3</u>
Tank(s)	<u>2</u>
Compliance	<u>3</u>

Where the likelihood scores are defined as follows:

<u>Score</u>	<u>Likelihood</u>
0	Zero likelihood
1	Low Likelihood
2	Medium Likelihood
3	High Likelihood
4	Certainty

Findings

The subject property is currently occupied by Leica Inc. Leica Inc., which has operated at this facility under other names, has been at this location since 1938. The company manufactures and assembles equipment for the optical industry. The main building, which is approximately 360,000 sq.ft. facilitates office areas, manufacturing, assembly, laboratories, storage and process areas. The remainder of this approximate 24-acre parcel is asphalt parking or landscaped areas.



Possible asbestos-containing materials (ACM) were observed on pipe insulation in areas throughout the building. This material was observed in minor amounts and was believed to be in non-friable conditions. Recra was informed that quantities of ACM had previously been removed, contained or encapsulated by another firm. At the present time, there are no ongoing operations and/or management activities with regard to the ACM other than periodic visual inspection.

Twelve (12) electrical transformers which have been analyzed for PCBs are located on-site. There are also approximately ten (10) dry-type electrical transformers. Three (3) capacitors were also observed; at least two (2) of these are believed to contain unknown amounts of PCBs. Based on an analysis report provided to Recra, the transformers contain PCB concentrations ranging from less than 2 ppm to 309 ppm. No specifics on capacitors were available. There are five (5) areas where transformers and/or capacitors were observed. Oil staining was observed on concrete floors in proximity to at least three (3) of these transformers.

Presently there are two (2) underground petroleum storage tanks on-site. These tanks contain, or did contain, #6 fuel oil and are registered with the New York State Department of Environmental Conservation (NYSDEC). Tank number one is 20,000 gallons and was installed in 1942. Tank number two is 10,000 gallons and was installed in 1938. Fill pipes and vents were also observed in this area. A concrete vault which is in place to contain surface spills is also present in this area. Upon further investigation, the spill containment vault was observed to contain fuel oil/residue. The amount of fuel oil/residue and integrity of the structure is unknown. Oil-stained soils and concrete were also observed. Drums were observed in this area. No specific information on content was available.

Two (2) aboveground chemical storage tanks were observed on-site. No registration with the NYSDEC was provided. These tanks are located on a concrete pad with surrounding concrete dike. The tanks are approximately 750 and 250 gallons each and have been used for storage of solvents. Approximately 50 to 100 gallons of Chlorathene is believed to be stored in this system. One (1) aboveground diesel fuel tank (approximately 100 gallons) was observed near the boiler room. No specifics on this tank were available.

There is a drum staging area located adjacent to the northeast corner of the main building. The area was covered with asphalt paving and partially fenced-in. Numerous drums (approximately 300) were observed in this area. Drum use ranged from new/empty drums to hazardous waste for disposal. Some of these drums were observed to have minor leaks and spillage. An area (approximately 100-200 sq.ft.) on the asphalt immediately adjacent to the drums was observed to be oil/residue stained.



Other observations included:

- o Inadequate containment dikes
- o Stained ground/asphalt
- o No labels on several drums
- o Open drums with water collected on top
- o Material spilled on sides of drums
- o Improper labeling/storage (i.e., cyanide containing hazardous waste drum in contact with drum labeled corrosive)
- o Improper aisle space
- o Bulging drums

There are two (2) fireproof rooms where drummed material is stored. Numerous drums were observed in these areas. These drums contain paints, solvents and similar materials used in the manufacturing processes. No leakage or staining was observed on the concrete floors. No visible cracks or releases were observed. Each of these rooms is equipped with a dry well for containment purposes.

Storm sewers and sanitary sewers service this facility. Storm sewers are used for rainwater runoff and one air conditioner discharge. Sanitary sewers handle sanitary discharges and all process discharges. Plating and painting discharges are permitted and monitored by local and state agencies. Three (3) settling tanks are part of this system. Material removed from these collection points and previously demonstrated to be non-hazardous are put in dumpsters for disposal. No treatment of these discharges is believed to occur at this facility. At least portions of this system are believed to consist of clay tile piping.

Plating and painting are part of the manufacturing process. The plating room contained numerous acid and metals vats. A steel grate floor separates the work area from a concrete base. Incidental spillage from this area drains to the sanitary sewer.

Woodblock flooring and machinery were oil-stained. Scrap area at northeast end was littered with metal shavings, scrap metal and refuse. Poor housekeeping was observed in this area.

Three (3) air emission sources are currently permitted with the NYSDEC. These air emission sources are in the plating area, painting area and incinerator.

Manufacturing and laboratory areas were also inspected. Unlabeled drums were observed in Unit 32B. Illegible labeling of a safety funnel was observed in Unit 56. An interview with an employee indicated waste acid was disposed into a floor drain which discharges to the sanitary sewer without any pretreatment. Staining around the floor drain in Unit 44 was observed.

There are two (2) process wells located on-site. These wells are not presently being used.



Minor odors were detected in the plating room, painting room and manufacturing areas. These odors are believed to be relatively normal for these types of activities.

Based on the age of the building, some plumbing and paint may contain lead.

No abstract of title was provided, therefore specific information regarding dates and past ownership could not be addressed.

Recommendations

Underground petroleum bulk storage tanks and aboveground chemical bulk storage tanks, and associated wastes and materials, should be managed within all federal, state and local regulations/guidelines. Integrity of tanks should be verified. Further investigation in the form of geophysical or geotechnical monitoring is needed to determine if possible soil or groundwater contamination is present in these areas.

All PCB-contaminated equipment, non-PCB equipment and PCB-contaminated material and wastes should be managed within all federal, state and local regulations/guidelines. Samples of oil-stained concrete and exposed soils should be collected to determine if areas have been contaminated. Woodblock flooring in machine area, equipment and oil-stained concrete should also be sampled and analyzed to determine if PCB contamination has occurred.

Accumulated waste materials within discharge points and drains should be sampled and tested to determine if potential remedial measures need to be considered. Integrity of concrete floor in plating room should be verified. Geotechnical investigations are needed to determine if possible releases from process and discharge points have occurred.

Drum staging area should be managed in compliance with all applicable federal, state and local regulations/guidelines (i.e., proper containment/labeling, proper containment dike, restricted access, etc.). Observations and the limited information available at this point suggest the possibility of non-compliance with prevailing RCRA regulations. Subsequently, further study with regard to this potential non-compliance is recommended. Geotechnical investigations are also needed to determine if possible releases from this area have occurred.

Drummed materials should be handled in such a way to minimize possible spillage and contamination.



RISK BASED SCORING SUMMARY

Based upon the Scope of Work as defined by the Contract between Leica Inc. and Recra Environmental, Inc. which included a review of relevant and reasonably available information and inspection of the property located at Eggert & Sugar Roads, four (4) risk based questions were scored.

Question No. 1

In the opinion of the Consultant, based upon the information generated as part of this Appraisal, what is the likelihood that environmentally significant quantities of the following substances have been or are currently being used or managed at the real property?

	<u>Likelihood</u> <u>Score</u>
asbestos bearing materials.....	<u>3</u>
gasoline.....	<u>1</u>
oil products.....	<u>3</u>
phenolic based chemicals.....	<u>1</u>
reactive chemicals.....	<u>3</u>
heavy metal bearing chemicals.....	<u>3</u>
organic solvents.....	<u>3</u>
toxic organics - other.....	<u>3</u>
organic pesticides or herbicides.....	<u>1</u>
polychlorinated biphenyls (PCBs).....	<u>3</u>
radioactive materials.....	<u>1</u>
non-hazardous wastes.....	<u>2</u>
hazardous wastes.....	<u>3</u>

Question No. 2

In the opinion of the Consultant, based upon the information generated as part of this Appraisal, what is the likelihood that environmentally significant loadings of the following substances have been released or land disposed on the real property?

	<u>Likelihood</u> <u>Score</u>
asbestos bearing materials.....	<u>1</u>
gasoline.....	<u>1</u>
oil products.....	<u>2</u>
phenolic based chemicals.....	<u>1</u>
reactive chemicals.....	<u>3</u>
heavy metal bearing chemicals.....	<u>2</u>
organic solvents.....	<u>3</u>
toxic organics - other.....	<u>3</u>
organic pesticides or herbicides.....	<u>1</u>
polychlorinated biphenyls (PCBs).....	<u>3</u>
radioactive materials.....	<u>1</u>
non-hazardous wastes.....	<u>1</u>
hazardous wastes.....	<u>3</u>



RISK BASED SCORING SUMMARYQuestion No. 3:

In the opinion of the Consultant, if a state or federal environmental regulatory agency were to review the results of the information generated as part of this Appraisal today, what would be the likelihood that the regulatory agency would:

	<u>Likelihood Score</u>
a. Request that environmental testing be conducted?	<u>3</u>
b. Initiate enforcement action mandating that environmental testing be conducted?	<u>2</u>
c. Request that surficial remediation or clean-up be undertaken?	<u>3</u>
d. Initiate enforcement action mandating that surficial remediation or clean-up be undertaken?	<u>2</u>

Question No. 4

In the opinion of the Consultant, based upon the information generated as part of this Appraisal, what is the likelihood that:

	<u>Likelihood Score</u>
a. A chemical hazard exists today on the real property warranting some form of state or federal environmental regulatory action under currently existing state or federal environmental rules and regulations?	<u>2</u>
b. As a result of existing real property conditions today, future environmental testing costs to study the real property will be necessary under the auspices of currently existing state or federal environmental rules and regulations?	<u>3</u>
c. As a result of existing real property conditions today, future costs to remediate or clean-up the real property will be necessary under the auspices of currently existing state or federal environmental rules and regulations?	<u>2</u>

Where the likelihood scores are defined as follows:

<u>Score</u>	<u>Likelihood</u>
0	Zero Likelihood
1	Low Likelihood
2	Medium Likelihood
3	High Likelihood
4	Certainty



LIKELIHOOD SCORE KEY

The opinion of the Consultant is that, hypothetically:

0	Zero Likelihood,	of a panel of ten objective environmental experts, all ten would agree that the answer to the question is unlikely.
1	Low Likelihood,	of a panel of ten objective environmental experts, one or two would report the answer to the question being likely; whereas, eight or nine would report the answer to the question as being unlikely.
2	Medium Likelihood,	of a panel of ten objective environmental experts, three to five would report the answer to the question as being likely; whereas, five to seven would report the answer to the question as being unlikely.
3	High Likelihood,	of a panel of ten objective environmental experts, six to nine would report the answer to the question as being likely; whereas, one to four would report the answer to the question as being unlikely.
4	Certainty,	of a panel of ten objective environmental experts, all ten would report the answer to the question as being likely.



**REAL PROPERTY ENVIRONMENTAL APPRAISAL
DOCUMENT SEARCH AND INSPECTION SUMMARY**

1.0 PROPERTY IDENTIFICATION**1.1 Name/Address:**

Leica Inc.
Eggert & Sugar Roads
Buffalo, New York

1.2 Contact Person(s):

Mr. Bruce Mallott
Mr. Max Strasser
Ms. Chris Vonlangen
Mr. William Mahoney

2.0 PRELIMINARY SITE DATA**2.1 Property Site Type:**

☒ Industrial
☐ Commercial
☐ Residential

☐ Agricultural
☐ Other: _____

2.2 Site History/Previous Usage:

The subject property is currently occupied by Leica Inc. Leica Inc., which has operated at this facility under other names, has been at this location since 1938. The company manufactures and assembles equipment for the optical industry. The main building, which is approximately 360,000 sq. ft., facilitates office areas, manufacturing, assembly, laboratories, storage and process areas. The remainder of this approximate 24-acre parcel is asphalt parking or landscaped areas.

2.3 General Property Information:

Topography: Nearly level, low land plains

Soil type: Urban land

Vegetation present: Grass, shrubs and trees

Endangered species/wildlife habitat: ☐ Yes ☒ No

Archeological/historical site: ☐ Yes ☒ No

Located in 100 year flood plain: ☐ Yes ☒ No

Located in designated wetland: ☐ Yes ☒ No

Nearest surface water: Scajaquada Creek Approx. distance: 2 miles

Approximate depth to groundwater: 10 feet to 65 feet



2.4 Approximate Size and Age of Buildings On-Site:Number of buildings 5 No buildings presently on site Bldg #1: Approx. Size: 360,000 sq. ft. Approx. Age: 52 yearsBldg #2: Approx. Size: 2,400 sq. ft. Approx. Age: 39 yearsBldg #3: Approx. Size: 100 sq. ft. Approx. Age: 23 yearsBldg #4: Approx. Size: 200 sq. ft. Approx. Age: 37 yearsBldg #5: Approx. Size: 100 sq. ft. Approx. Age: 27 years2.5 Utilities:*Water: X Well X Municipal supply**Fuel: X Oil X Natural gas X PropaneElectric: Yes No

*Abandoned process wells on-site

**Fuel oil no longer in use

2.6 Discharges:Sanitary wastewater discharge: X Sewer septic system: Stormwater discharge: X Yes NoProcess/wastewater discharge: X Yes NoAir emission source(s): X Yes No Types: 2.7 Reference Data Reviewed:

- Title Abstract
- X USGS Maps
- X Aerial Photographs; Dates: 1927 and 1960
- X Property Maps
- X County Clerk
- X Engineering Reports
- X Environmental Reports
- X Regulations
- X Erie County Soil Survey
- X Wetlands Map

2.8 Permits Reviewed:

- | | |
|---|--|
| <u> </u> Federal | Type: <u> </u> |
| <u>X</u> State | Type: <u>Water and Exhaust Discharge</u> |
| <u>X</u> Local | Type: <u>Building/Sewer</u> |
| <u> </u> No permits required/available | |



3.0 INTERVIEWS3.1 Interviews Conducted:

- ☒ Client
- ☒ Current/Past Owners/Employees
- ☐ United States Environmental Protection Agency
- ☐ N.Y.S. Department of Environmental Conservation
- ☐ Department of Health
- ☒ County Environmental Management Agency or Department
- ☐ OSHA
- ☒ Local Municipality (City, Town, Village, etc.)

4.0 ENVIRONMENTAL RECORD REVIEW4.1 New York State Department of Environmental Conservation Freedom of Information Law (FOIL):

- ☒ Request filed
- ☐ Reply received; Results _____
- ☒ Reply pending; If information received alters the findings in this report, it will be presented in an updated report.

4.2 New York State Department of Environmental Conservation Inactive Hazardous Waste Site Listing:

___ Listed ☒ Not Listed

4.3 Federal National Priorities List:

___ Listed ☒ Not Listed

4.4 CERCLIS List:

___ Listed ☒ Not Listed

4.5 Community Right To Know Report (CRTK):

___ Listed ☒ Not Listed

4.6 Complaints/Violations on File:

___ Yes ☒ No



4.7 Storage Tanks:No tanks observed on property -No tanks registered for this property -Tanks on record for property 53 Aboveground

Tanks #1 & #2

Tank #3

Material Stored:	<u>Solvents</u>
Tank Type:	<u>Bare steel</u>
Tank Volume (gals):	<u>#1 - 750; #2 - 250</u>
Status:	<u>In-service - INCORRECT</u>
Installation Date:	<u>Unknown</u>
Last Tightness Test:	<u>None</u>
Leak Detection:	<u>None</u>
Secondary Containment:	<u>Concrete dike</u>
Gauge Present:	<u>None</u>
Piping Type:	<u>Steel</u>
Dispense Method:	<u>Unknown</u>
Registered:	<u>No</u>

<u>Diesel fuel</u>
<u>Bare steel</u>
<u>Unknown</u>
<u>In-service</u>
<u>Unknown</u>
<u>None</u>
<u>None</u>
<u>None</u>
<u>None</u>
<u>Steel</u>
<u>Unknown</u>
<u>No</u>

2 Underground

Tank #1

Tank #2

Material Stored:	<u>Fuel oil</u>
Tank Type:	<u>Bare steel</u>
Tank Volume (gals):	<u>20,000</u>
Status:	<u>In-service</u>
Installation Date:	<u>June 1942</u>
Last Tightness Test:	<u>n/a</u>
Leak Detection:	<u>None</u>
Secondary Containment:	<u>Overflow containment</u>
Gauge Present:	<u>None</u>
Piping Type:	<u>Steel/iron</u>
Dispense Method:	<u>Suction</u>
Registered:	<u>Yes</u>

<u>Fuel oil</u>
<u>Bare steel</u>
<u>10,000</u>
<u>In-service</u>
<u>Sept. 1938</u>
<u>n/a</u>
<u>None</u>
<u>Overflow containment</u>
<u>None</u>
<u>Steel/iron</u>
<u>Suction</u>
<u>Yes</u>



5.0 SITE INSPECTION/RECONNAISSANCE

Inspectors: Walter Grabowski, Valerie Doyle,
Brian Demme, Linda Michalczak & Bob Steiner

Dates: 7/31/90, 8/7/90 &
8/10/90

5.1 The following conditions were observed to exist at the subject property at the time of inspection:

Stained or discolored ground	<u>Yes</u>
Absence of or stressed vegetation	<u>No</u>
Hills, mounds, depressions	<u>No</u>
Liquids; discolored or odorous, seeping	<u>Yes</u>
Odors	<u>Yes</u>
Containers (drums, pails, bags, boxes, barrels)	<u>Yes</u>
Fill pipes (pipes sticking out of the ground)	<u>Yes</u>
Roads, paths, trails, railroad tracks or railroad track bedding	<u>No</u>
Manholes, drainage ditches, culverts, and gullies	<u>Yes</u>
Discolored water, oily films or foaming	<u>No</u>
Stock-piled materials	<u>Yes</u>
Stained, discolored or cracked walls, floors, ceilings	<u>Yes</u>
Gravel or unpaved/paved or cracked parking lots	<u>Yes</u>
Pollution control equipment (scrubbers, flares, WWT)	<u>No</u>
Raw material, chemical and storage areas, containment	<u>Yes</u>
Sanitary, storm or process/wastewater discharge	<u>Yes</u>
Electrical transformers, circuit breakers, capacitors or fluorescent light ballasts	<u>Yes</u>
Fuel storage and transfer lines	<u>Yes</u>
Process tanks, vats, pits, ponds, lagoons, impoundments	<u>Yes</u>
Waste disposal areas, containment	<u>Yes</u>
Potential asbestos containing materials	<u>Yes</u>



A5486

Underground storage tank(s) Yes
Aboveground storage tank(s) Yes
Poor housekeeping practices Yes
Evidence of potential leaded plumbing Yes
Evidence of potential leaded paint Yes
Fill materials No
Oil/natural gas wells No
Pipeline right-of-ways No
Spill containment berms Yes

5.2 Observed or listed properties of potential concern within an approximate 0.5 mile radius:

- ☐ Hazardous Waste Management Sites
- ☐ Industries
- ☒ Highways
- ☐ Railroads
- ☐ Environmentally Sensitive Areas (☐ Wetlands, ☐ Streams, ☐ Flood Plains, ☐ Other _____)
- ☐ Solid Waste Disposal Sites
- ☒ Power Lines/Transformers
- ☐ Gas Stations
- ☐ Military Installations
- ☐ Tank Farms
- ☐ Landfills (☐ Active, ☐ Inactive)
- ☒ Manufacturing Facilities
- ☐ Chemical Handling ☐ Transfer or ☐ Storage Facilities
- ☐ Dry Cleaners

Respectfully submitted,

RECRA ENVIRONMENTAL, INC.

Walter V. Grabowski, Jr.
Walter V. Grabowski, Jr.
Program Manager



RECRA ENVIRONMENTAL, INC.

APPENDIX

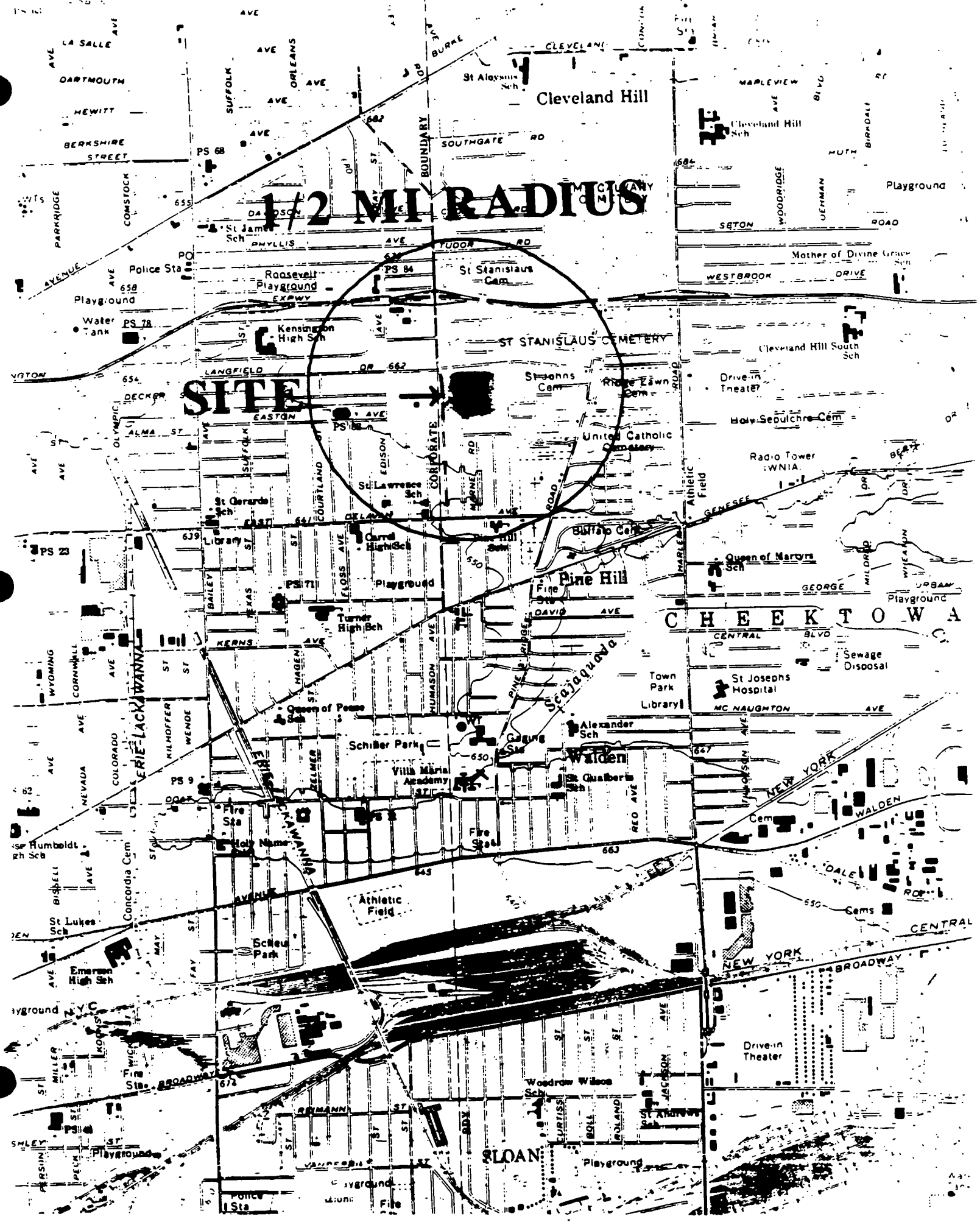
The following reference data concerning this property is enclosed.

X USGS Map(s)

X Property Map(s)

X Erie County Solid Waste Map





1/2 MI RADIUS

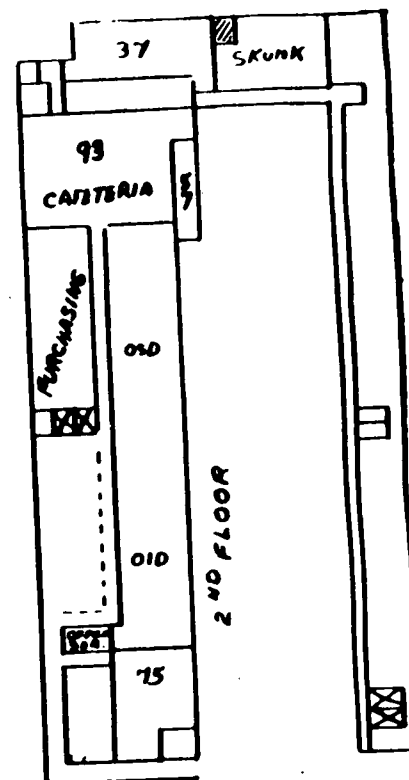
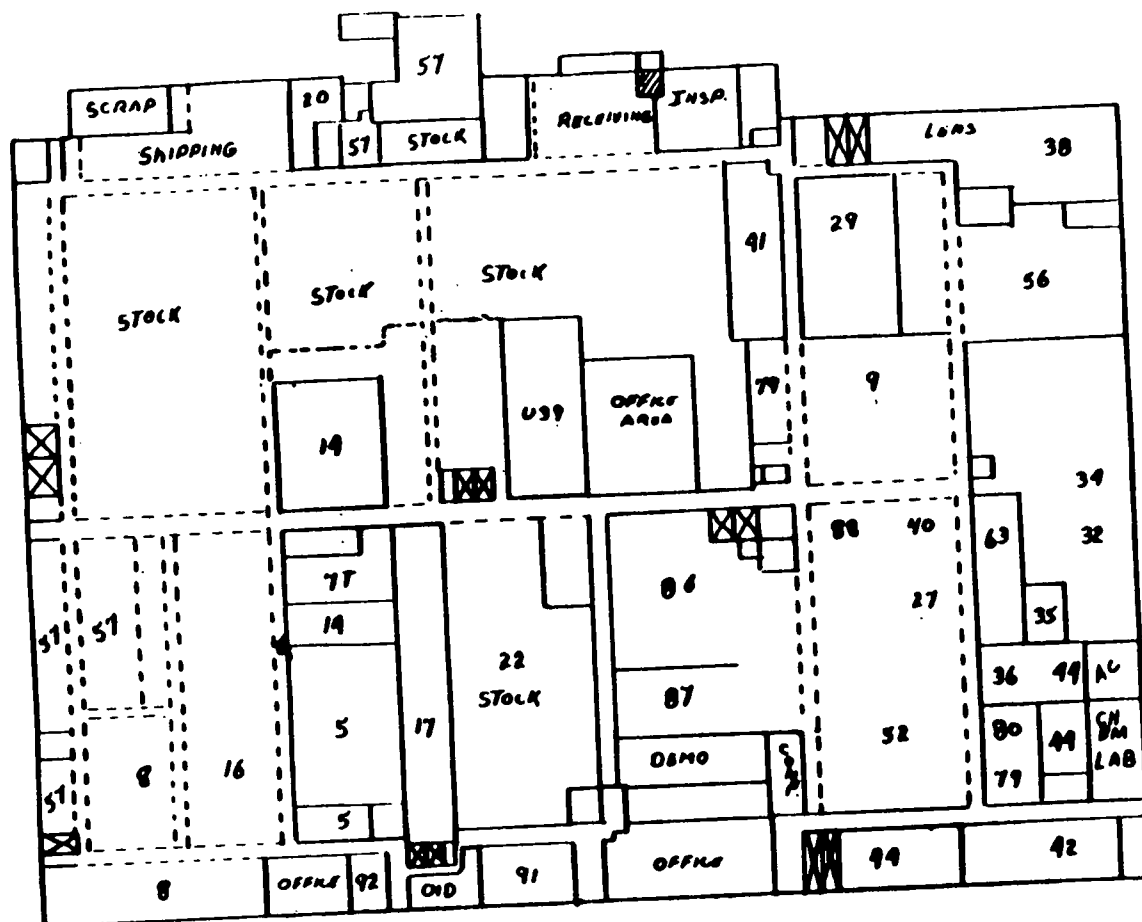
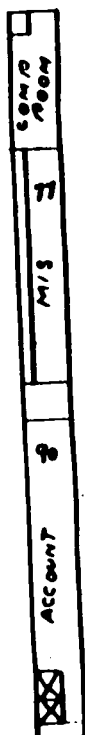
SITE

CHEEKTOWADA

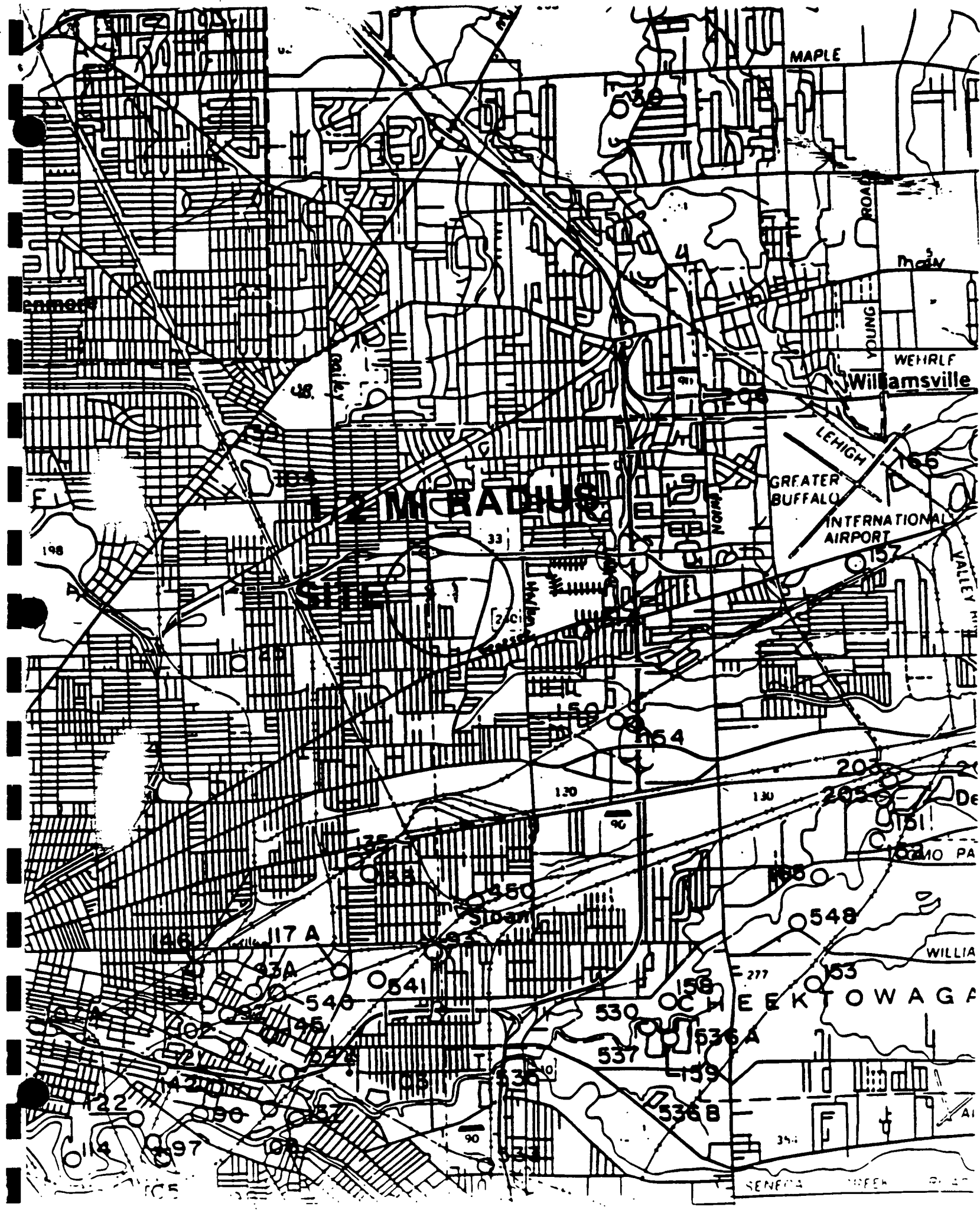
NEW YORK

SLOAN

2ND FLOOR



2ND FLOOR



MAPLE

WEHRLE
Williamsville

GREATER
BUFFALO
INTERNATIONAL
AIRPORT

2 MILE RADIUS

CHEEKTOWAGA

SENECA

RECEIVED

MAR 02 1993

N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
REGION 9

TRANSMITTAL INFORMATION SHEET

DATE: 12/18/92

The following pages are for:

NAME Arthur Alix

FIRM Leica, Inc.

ADDRESS _____

FAX NUMBER 891-3155

FROM Bob Steiner

SPECIAL INSTRUCTIONS Attached is the Data
Validation Summary which was to be
enclosed in the package I delivered today

Total number of pages 3 (including information sheet).

If you have any problems during the transmission of these documents, please call
(716) 691-2600, extension _____.



Recta Environmental, Inc.
10 Hazelwood Drive
Amherst, New York 14228-2298

Telephone: (716) 691-2600
Fax No.: (716) 691-3011

A6953

DATA VALIDATION SUMMARY
LEICA PROJECT #OC2761A

I.D. #90-2468

SAMPLED: 11/29/90

VOLATILE ORGANICS

USEPA SW-846 Method 8240 QC criteria was met.

The field blank contained methylene chloride, acetone, 1,2-dichloropropane and toluene, all below the detection limits; the trip blank contained methylene chloride also below the method detection limit. Method blank VBLK86 pertaining to Samples MW-1, MW-2, MW-3, MW-4, field blank and trip blank contained trichloroethene, benzene, toluene, and chlorobenzene at concentrations below the method detection limits.

SEMI-VOLATILE ORGANICS

USEPA SW-846 Method 8270 QC criteria was met.

One compound out of twenty-two MS/MSD spike recoveries was outside of QC limits. One MS/MSD relative percent difference out of eleven was outside the QC criteria.

PESTICIDES/PCBs

USEPA SW-846 Method 8080 QC criteria was met.

One compound out of twelve MS/MSD recoveries was outside of QC limits. Sample MW-1 DBC surrogate recovery was outside QC limits.

METALS

USEPA SW-846 QC method criteria for metals analysis was met.

One out of nineteen analytes was outside QC limits for the pre-digestion spike and four analytes were not included in the pre-spike solution. All analytes were within QC limits for the post-digestion spike.

WATER QUALITY

USEPA SW-846 Method 9010 and USEPA 1979 Method 418.1 QC criteria was met.

A6954

DATA VALIDATION SUMMARY
LEICA PROJECT #OC2761A

I.D. #91-9120

SAMPLED: 1/16/91

VOLATILE ORGANICS

USEPA SW-846 Method 8240 QC criteria was met.

The field blank contained acetone, 1,2-dichloropropane and trichloroethene, all below the detection limits; the trip blank contained trichloroethene also below the detection limit. The method blank pertaining to samples MW-1, MW-2, MW-3, field blank and trip blank contained trichloroethene, below the method detection limit of 5 ppb.

METALS

USEPA SW-846 method 6010 and 7421 QC criteria was compliant. One out of six analytes was outside QC limits for the pre-digestion spike; a post-digestion spike was not analyzed.

R E C E I V E D

MAR 02 1993

N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
- REGION 9

SOIL ANALYSIS TB-1-TB-7

OCTOBER 1990

ANALYTICAL RESULTS

Prepared For

Leica Project

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodologies employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to one of the following U.S. Environmental Protection Agency references.

- o U.S. Environmental Protection Agency "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods". Office of Solid Waste and Emergency Response. November 1986, SW-846, Third Edition.
- o 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act" October 26, 1984 (Federal Register) U.S. Environmental Protection Agency.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been defined utilizing USEPA data qualifiers as defined on the Organic and Inorganic Data Comment Pages.

Results of the analysis of Pesticides/PCB's are confirmed utilizing two dissimilar gas chromatographic column.

Results of the analysis of soils are corrected for moisture content and reported on a dry weight basis.



The dry weights (103°C) were as follows:

T-1	0-6'	- 84%
T-1	6-12'	- 90%
T-2	1-7'	- 83%
T-2	7-9'	- 86%
T-3	1-7'	- 88%
T-3	7-11'	- 82%
T-4	1-7'	- 85%
T-4	7-11'	- 87%
T-5	1-7'	- 81%
T-5	7-11'	- 86%
T-6	0-6'	- 87%
T-6	8-10'	- 82%
T-7		- 73%

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

Due to dark coloration and viscosity, sample T-7 was analyzed at a dilution factor of twenty (20).



VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

Due to dark coloration and viscosity, sample T-7 was analyzed at a dilution factor of twenty (20).



Organic Data Comment Page

Lab Name RECRA ENVIRONMENTAL, INC.

Footnotes:

NR - Not required by contract at this time

Form I:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GS/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

COMMENTS: _____

Inorganic Data Comment Page

Lab Name RECRA ENVIRONMENTAL, INC.

Case No. _____

ICP interelement and background corrections applied? Yes _____ No _____

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

- B - Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
- E - Indicates a value estimated or not reported due to the presence of interference
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- + - Indicates the correlation coefficient for method of standard addition is less than 0.995.
- M - Indicates duplicate injection results exceeded control limits.
- W - Post digestion spike for Furnance AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

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

COMMENTS: _____

CHAIN OF CUSTODY DOCUMENTS



RECRA ENVIRONMENTAL, INC.

RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO OC2761		SITE NAME Leica		NO OF CONTAINERS		REMARKS							
SAMPLER SIGNATURE Robert E. Stiner													
STATION NO	DATE	TIME	COMP	GRAB	STATION LOCATION								
	10/27/00		X		T2 1-7'	2	2						TRPH, BTEX
					T2 7-9'	2	2						
					T3 1-7'	2	2						
					T3 7-11'	2	2						
					T4 1-7'	2	2						
					T4 7-11'	2	2						
					T5 1-7'	2	2						
					T5 7-11'	2	2						
					T6 0-6'	2	2						
					T6 8-10'	2	2						
					T7	2	1	1					QA/QC ✓
													TCL VOA'S (8240)
													BN/AE
													Pest/PCB'S
													TRPH

RELINQUISHED BY (SIGNATURE) Robert E. Stiner	DATE TIME 10/23/00 1500	RECEIVED BY (SIGNATURE) Donald S. Bean	RELINQUISHED BY (SIGNATURE)	DATE TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE TIME	REMARKS	

Distribution: Original accompanies shipment; copy to coordinator field file.

RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO 002761		SITE NAME Leica		NO OF CONTAINERS	ANALYSIS						REMARKS	
SAMPLERS (SIGNATURE) Robert E. Sterner					402 G1	1602 G1	4001 VOA					
STATION NO	DATE	TIME	COMP	GRAB	STATION LOCATION							
	4/22/90	AM	X		QT-1 Q6		2	1	1			
	4/22/90	AM	X		T-1 6-12		2	1	1			QA/QC VOL'S only
												402 HSL Volatiles
												1602 Metals, Cr ⁶⁺ , Tot. Cr
												TRPH, PCB'S, LPH
	4/22/90				Trip Blank		2		2			VOA'S
RELINQUISHED BY (SIGNATURE) Robert E. Sterner		DATE TIME 4/22/90 1130		RECEIVED BY (SIGNATURE) Linda A. Guada		RELINQUISHED BY (SIGNATURE)		DATE TIME		RECEIVED BY (SIGNATURE)		
RELINQUISHED BY (SIGNATURE)		DATE TIME		RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE TIME		RECEIVED BY (SIGNATURE)		
RELINQUISHED BY (SIGNATURE)		DATE TIME		RECEIVED FOR LABORATORY BY (SIGNATURE)		DATE TIME		REMARKS				

Distribution: Original accompanies shipment; copy to coordinator; field files

VOLATILES DATA



RECRA ENVIRONMENTAL, INC.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-1(0-6)

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: T-1(0-6)

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: 4866G

Level: (low/med) LOW

Date Received: 10/22/90

% Moisture: not dec. 16

Date Analyzed: 10/24/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	7	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	1	J
75-34-3	1,1-Dichloroethane	6	
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	38	
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	9	B
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-1(6-12)

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2147

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: T-1(6-12)

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: 4867G

Level: (low/med) LOW

Date Received: 10/22/90

% Moisture: not dec. 10

Date Analyzed: 10/24/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

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

CAS NO.	COMPOUND		
74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	2	J
67-64-1-----	Acetone	10	BJ
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	9	
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	8	
56-23-5-----	Carbon Tetrachloride	5	U
108-05-4-----	Vinyl Acetate	11	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	2	J
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	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	2	BJ
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Total Xylenes	2	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-7

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: T-7

Sample wt/vol: 1.2 (g/mL) G

Lab File ID: 4872G

Level: (low/med) LOW

Date Received: 10/23/90

% Moisture: not dec. 31

Date Analyzed: 10/24/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	60	U
74-83-9-----	Bromomethane	60	U
75-01-4-----	Vinyl Chloride	41	J
75-00-3-----	Chloroethane	60	U
75-09-2-----	Methylene Chloride	4	J
67-64-1-----	Acetone	100	B
75-15-0-----	Carbon Disulfide	5	J
75-35-4-----	1,1-Dichloroethene	30	U
75-34-3-----	1,1-Dichloroethane	30	U
540-59-0-----	1,2-Dichloroethene (total)	33	
67-66-3-----	Chloroform	30	U
107-06-2-----	1,2-Dichloroethane	30	U
78-93-3-----	2-Butanone	60	U
71-55-6-----	1,1,1-Trichloroethane	4	J
56-23-5-----	Carbon Tetrachloride	30	U
108-05-4-----	Vinyl Acetate	60	U
75-27-4-----	Bromodichloromethane	30	U
78-87-5-----	1,2-Dichloropropane	30	U
10061-01-5-----	cis-1,3-dichloropropene	30	U
79-01-6-----	Trichloroethene	6	J
124-48-1-----	Dibromochloromethane	30	U
79-00-5-----	1,1,2-Trichloroethane	30	U
71-43-2-----	Benzene	62	
10061-02-6-----	trans-1,3-dichloropropene	30	U
75-25-2-----	Bromoform	30	U
108-10-1-----	4-Methyl-2-Pentanone	140	
591-78-6-----	2-Hexanone	570	
127-18-4-----	Tetrachloroethene	30	U
79-34-5-----	1,1,2,2-Tetrachloroethane	100	
108-88-3-----	Toluene	21	BJ
108-90-7-----	Chlorobenzene	530	
100-41-4-----	Ethylbenzene	450	
100-42-5-----	Styrene	30	U
1330-20-7-----	Total Xylenes	510	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNV Case No.: 2147 SAS No.: _____ SDG No.: _____

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 1738A

Level: (low/med) LOW Date Received: 10/22/90

% Moisture: not dec. _____ Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO.	COMPOUND		
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)	5	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	5	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	5	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	0.5	BJ
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

SEMI-VOLATILE DATA



RECRA ENVIRONMENTAL, INC.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-7

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: T-7

Sample wt/vol: 20.4 (g/mL) G

Lab File ID: 5215X

Level: (low/med) LOW

Date Received: 10/23/90

% Moisture: not dec. 31 dec. _____

Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SOX

Date Analyzed: 10/31/90

GPC Cleanup: (Y/N) N

Dilution Factor: 20

CAS NO.

COMPOUND

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

Q

108-95-2-----	Phenol	14000	U
111-44-4-----	bis(2-Chloroethyl) Ether	14000	U
95-57-8-----	2-Chlorophenol	14000	U
541-73-1-----	1,3-Dichlorobenzene	14000	U
106-46-7-----	1,4-Dichlorobenzene	14000	U
100-51-6-----	Benzyl Alcohol	14000	U
95-50-1-----	1,2-Dichlorobenzene	14000	U
95-48-7-----	2-Methylphenol	14000	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	14000	U
106-44-5-----	4-Methylphenol	14000	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	14000	U
67-72-1-----	Hexachloroethane	14000	U
98-95-3-----	Nitrobenzene	14000	U
78-59-1-----	Isophorone	14000	U
88-75-5-----	2-Nitrophenol	14000	U
105-67-9-----	2,4-Dimethylphenol	14000	U
65-85-0-----	Benzoic Acid	68000	U
111-91-1-----	bis(2-Chloroethoxy) Methane	14000	U
120-83-2-----	2,4-Dichlorophenol	14000	U
120-82-1-----	1,2,4-Trichlorobenzene	14000	U
91-20-3-----	Naphthalene	3900	J
106-47-8-----	4-Chloroaniline	14000	U
87-68-3-----	Hexachlorobutadiene	14000	U
59-50-7-----	4-Chloro-3-Methylphenol	14000	U
91-57-6-----	2-Methylnaphthalene	2800	J
77-47-4-----	Hexachlorocyclopentadiene	14000	U
88-06-2-----	2,4,6-Trichlorophenol	14000	U
95-95-4-----	2,4,5-Trichlorophenol	68000	U
91-58-7-----	2-Chloronaphthalene	14000	U
88-74-4-----	2-Nitroaniline	68000	U
131-11-3-----	Dimethyl Phthalate	14000	U
208-96-8-----	Acenaphthylene	14000	U
606-20-2-----	2,6-Dinitrotoluene	14000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-7

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: T-7

Sample wt/vol: 20.4 (g/mL) G Lab File ID: 5215X

Level: (low/med) LOW Date Received: 10/23/90

% Moisture: not dec. 31 dec. _____ Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SOX Date Analyzed: 10/31/90

GPC Cleanup: (Y/N) N Dilution Factor: 20

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
99-09-2-----	3-Nitroaniline	68000	U
83-32-9-----	Acenaphthene	4500	J
51-28-5-----	2,4-Dinitrophenol	68000	U
100-02-7-----	4-Nitrophenol	68000	U
132-64-9-----	Dibenzofuran	4800	J
121-14-2-----	2,4-Dinitrotoluene	14000	U
84-66-2-----	Diethylphthalate	14000	U
7005-72-3-----	4-Chlorophenyl-phenylether	14000	U
86-73-7-----	Fluorene	6600	J
100-01-6-----	4-Nitroaniline	68000	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	68000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	14000	U
101-55-3-----	4-Bromophenyl-phenylether	14000	U
118-74-1-----	Hexachlorobenzene	14000	U
87-86-5-----	Pentachlorophenol	68000	U
85-01-8-----	Phenanthrene	50000	
120-12-7-----	Anthracene	8300	J
84-74-2-----	Di-n-Butylphthalate	14000	U
206-44-0-----	Fluoranthene	43000	
129-00-0-----	Pyrene	43000	
85-68-7-----	Butylbenzylphthalate	14000	U
91-94-1-----	3,3'-Dichlorobenzidine	28000	U
56-55-3-----	Benzo(a)Anthracene	22000	
218-01-9-----	Chrysene	18000	
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	2300	BJ
117-84-0-----	Di-n-Octyl Phthalate	14000	U
205-99-2-----	Benzo(b)Fluoranthene	27000	
207-08-9-----	Benzo(k)Fluoranthene	11000	J
50-32-8-----	Benzo(a)Pyrene	17000	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	5200	J
53-70-3-----	Dibenz(a,h)Anthracene	14000	U
191-24-2-----	Benzo(g,h,i)Perylene	4300	J

(1) - Cannot be separated from Diphenylamine

PESTICIDE /PCB DATA



RECRA ENVIRONMENTAL, INC.

LEICA
SOIL MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/29/90

SAMPLE NO. T-7

COMPOUND (Units of Measure = UG/KG)	RESULT	Q
Aldrin	5.5	U
alpha-BHC	5.5	U
beta-BHC	5.5	U
gamma-BHC	5.5	U
delta-BHC	5.5	U
Chlordane	55	U
4,4'-DDD	11	U
4,4'-DDE	11	U
4,4'-DDT	11	U
Dieldrin	11	U
Endosulfan I	5.5	U
Endosulfan II	11	U
Endosulfan Sulfate	11	U
Endrin	11	U
Endrin aldehyde	8.5	J
Endrin ketone	11	U
Heptachlor	5.5	U
Heptachlor epoxide	23	
Methoxychlor	55	U
Toxaphene	110	U
Aroclor 1016	55	U
Aroclor 1221	55	U
Aroclor 1232	55	U
Aroclor 1242	55	U
Aroclor 1248	55	U
Aroclor 1254	110	U
Aroclor 1260	110	U

LEICA
SOIL MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDE
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/29/90

SAMPLE NO. T-7

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchlorendate	0.0	*

*SURROGATE RECOVERY INHIBITED DUE TO SAMPLE MATRIX
INTERFERENCE.

LEICA
SOIL MATRIX
METHOD 8080 - POLYCHLORINATED BIPHENYLS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE NO. T-1(0-6')

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/30/90

COMPOUND (Units of Measure = UG/KG)	RESULT	Q
Aroclor-1016	50	U
Aroclor-1221	50	U
Aroclor-1232	50	U
Aroclor-1242	50	U
Aroclor-1248	50	U
Aroclor-1254	100	U
Aroclor-1260	100	U

LEICA
SOIL MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDE
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE NO. T-1(0-6')

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/30/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Decachlorobiphenyl	207	

LEICA
SOIL MATRIX
METHOD 8080 - POLYCHLORINATED BIPHENYLS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE NO. T-1(6-12')

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/30/90

COMPOUND (Units of Measure = UG/KG)	RESULT	Q
Aroclor-1016	46	U
Aroclor-1221	46	U
Aroclor-1232	46	U
Aroclor-1242	46	U
Aroclor-1248	46	U
Aroclor-1254	92	U
Aroclor-1260	92	U

LEICA
SOIL MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDE
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/30/90

SAMPLE NO. T-1(0-12')

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Decachlorobiphenyl	209	

METHOD 8020 DATA



RECRA ENVIRONMENTAL, INC.

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-2(1-7')

ANALYSIS DATE 10/24/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.08	
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.1	
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-2(1-7')

ANALYSIS DATE 10/24/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	121	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-2(7-9')

ANALYSIS DATE 10/24/90

COMPOUND (Units of Measure = UG/G) ppm.	RESULT	Q
Benzene	0.14	
Ethylbenzene	0.21	
Toluene	1.5	
m-Xylene	0.17	*
o-Xylene	0.23	
p-Xylene	0.01	U

*CHROMATOGRAPHICALLY M-XYLENE AND P-XYLENE COELUTE
THE REPORTED VALUE IS THEREFORE AN "AND/OR"
VALUE.

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-2(7-9')

ANALYSIS DATE 10/24/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	116	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-2(7-9')

ANALYSIS DATE 10/24/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	116	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-3(1-7')

ANALYSIS DATE 10/24/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLLE NO. T-3(1-7')

ANALYSIS DATE 10/24/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	86	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-3(7-11')

ANALYSIS DATE 10/25/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-3(7-11')

ANALYSIS DATE 10/25/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	86	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-4(1-7')

ANALYSIS DATE 10/25/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-4(1-7')

ANALYSIS DATE 10/25/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	84	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-4(7-11')

ANALYSIS DATE 10/25/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-4(7-11')

ANALYSIS DATE 10/25/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	82	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-5(1-7')

ANALYSIS DATE 10/25/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-5(1-7')

ANALYSIS DATE 10/25/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	83	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-5(7-11')

ANALYSIS DATE 10/25/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-5(7-11')

ANALYSIS DATE 10/25/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	83	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-6(0-6')

ANALYSIS DATE 10/25/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.15	
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-6(0-6')

ANALYSIS DATE 10/25/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	85	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-6(8-10')

ANALYSIS DATE 10/24/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.022	
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-6(8-10')

ANALYSIS DATE 10/24/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	84	

METALS DATA



RECREA ENVIRONMENTAL, INC.

LEICA
SOIL MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-1(0-6')

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/KG	6010	10/30/90	0.59	U
Total Chromium	MG/KG	6010	10/30/90	9.1	
Total Nickel	MG/KG	6010	10/30/90	12	
Total Zinc	MG/KG	6010	10/30/90	24	

LEICA
SOIL MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-1(6-12')

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/KG	6010	10/30/90	0.89	
Total Chromium	MG/KG	6010	10/30/90	8.5	
Total Nickel	MG/KG	6010	10/30/90	7.8	
Total Zinc	MG/KG	6010	10/30/90	61	

LEICA
SOIL MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90

SAMPLE NO. T-1(0-6')

COMPOUND (Units of Measure = MG/KG)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	10/31/90	0.078	U

LEICA
SOIL MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
EXTRACTION DATE 10/25/90

SAMPLE NO. T-1(6-12')

COMPOUND (Units of Measure = MG/KG)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	10/31/90	0.073	U

WATER QUALITY DATA



RECRA ENVIRONMENTAL, INC.

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-1 (0-6')

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	UG/G	9010	11/05/90	0.47	U
Leachable pH	S.U.	9040	10/31/90	8.81	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90

SAMPLE NO. T-1 (6-12')

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	UG/G	9010	11/05/90	0.83	
Leachable pH	S.U.	9040	10/31/90	8.62	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 11/09/90

SAMPLE NO. T-1 (0-6')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	323	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 11/09/90

SAMPLE NO. T-1 (6-12')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	86	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-2 (1-7')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	122	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-2 (7-9')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	93	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-3 (1-7')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	7,370	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-3 (7-11')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	130	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-4 (1-7')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	1,150	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-4 (7-11')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	374	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-5 (1-7')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	178	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 11/14/90

SAMPLE NO. T-5 (7-11')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	177	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 10/31/90

SAMPLE NO. T-6 (0-6')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	110	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 11/14/90

SAMPLE NO. T-6 (8-10')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	42	

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147

SAMPLE DATE 10/22/90
ANALYSIS DATE 11/14/90

SAMPLE NO. T-7

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	28,600	

QC DATA



RECREA ENVIRONMENTAL, INC.

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRONContract: NY91-023Lab Code: RECNYCase No.: 2147

SAS No.: _____

SDG No.: _____

Matrix Spike - EPA Sample No.: T-1(6-12)Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	54.4	0	53.4	98	59-172
Trichloroethene	54.4	1.88	55.8	99	62-137
Benzene	54.4	0	56.8	104	66-142
Toluene	54.4	1.54	54.7	98	59-139
Chlorobenzene	54.4	0	56.2	103	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	53.4	51.2	96	2	22	59-172
Trichloroethene	53.4	55.4	100	-1	24	62-137
Benzene	53.4	55.6	104	0	21	66-142
Toluene	53.4	52.4	95	3	21	59-139
Chlorobenzene	53.4	51.6	97	6	21	60-133

= Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 10 outside limitsCOMMENTS: T-1 6-12' JOB2147
I50G

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-1(6-12)MS

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: T-1(6-12)MS

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: 4871G

Level: (low/med) LOW

Date Received: 10/22/90

% Moisture: not dec. 10

Date Analyzed: 10/24/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	1	J
67-64-1-----	Acetone	12	B
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	3	J
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	2	J
56-23-5-----	Carbon Tetrachloride	5	U
108-05-4-----	Vinyl Acetate	11	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	5	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	11	U
591-78-6-----	2-Hexanone	11	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
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

T-1(6-12)MSD

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: T-1(6-12)MSD

Sample wt/vol: 5.2 (g/mL) G

Lab File ID: 4870G

Level: (low/med) LOW

Date Received: 10/22/90

% Moisture: not dec. 10

Date Analyzed: 10/24/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

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

74-87-3-----Chloromethane	11	U
74-83-9-----Bromomethane	0.6	J
75-01-4-----Vinyl Chloride	11	U
75-00-3-----Chloroethane	11	U
75-09-2-----Methylene Chloride	2	J
67-64-1-----Acetone	14	B
75-15-0-----Carbon Disulfide	5	U
75-35-4-----1,1-Dichloroethene	5	U
75-34-3-----1,1-Dichloroethane	5	J
540-59-0-----1,2-Dichloroethene (total)	5	U
67-66-3-----Chloroform	5	U
107-06-2-----1,2-Dichloroethane	5	U
78-93-3-----2-Butanone	11	U
71-55-6-----1,1,1-Trichloroethane	2	J
56-23-5-----Carbon Tetrachloride	5	U
108-05-4-----Vinyl Acetate	11	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	5	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	11	U
591-78-6-----2-Hexanone	11	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
1330-20-7-----Total Xylenes	5	U

QUALITY CONTROL INFORMATION - ACCURACY
SOIL MATRIX
METHOD 8020 - PURGEABLE AROMATICS AND ADDITIONAL COMPOUNDS

SAMPLE IDENTIFICATION T-6 (8-10')

COMPOUND	NANOGRAMS OF SPIKE	MATRIX SPIKE PERCENT RECOVERY	MATRIX SPIKE DUPLICATE PERCENT RECOVERY
Benzene	20	83	84
Ethylbenzene	20	85	96
Toluene	20	81	77
<u>Additional Compounds</u>			
m-Xylene	10	87	99
o-Xylene	20	87	94
p-Xylene	10	87	99
Analysis Date		10/24/90	10/24/90
Surrogate Compound			
Level Added = 30 ug/l			
(% Recovery)			
a,a,a-Trifluorotoluene		87	87

I.D. #90-2147



RECRE ENVIRONMENTAL, INC.

1/16855.6

QUALITY CONTROL INFORMATION - PRECISION
SOIL MATRIX

PARAMETER	METHOD NUMBER	UNITS OF MEASURE	SAMPLE IDENTIFICATION	VALUE 1	Q	VALUE 2	Q	MEAN	Q	STANDARD DEVIATION
Total Recoverable Petroleum Hydrocarbons	418.1	mg/kg Dry	T-6 (8-10')	41.8		41.5		41.8		-

QUALITY CONTROL INFORMATION - ACCURACY
SOIL MATRIX

PARAMETER	METHOD NUMBER	SAMPLE IDENTIFICATION	MICROGRAMS OF SPIKE	PERCENT RECOVERY
Total Recoverable Petroleum Hydrocarbons	418.1	T-6 (8-10')	2,000	100



METHOD BLANK DATA



RECRA ENVIRONMENTAL, INC.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____
Lab File ID: 1737A Lab Sample ID: VBLK81
Date Analyzed: 10/24/90 Time Analyzed: 1516
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: 51A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	TIME ANALYZED =====
01	TRIPBLANK	TRIPBLANK	1738A	1559

COMMENTS: VBLK81
51A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK81

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: VBLK81

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 1737A

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 10/24/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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)	5	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	5	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	5	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	0.7	J
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Total Xylenes	5	U

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____
Lab File ID: 4865G Lab Sample ID: VBK54
Date Analyzed: 10/24/90 Time Analyzed: 1820
Matrix: (soil/water) SOIL Level: (low/med) LOW
Instrument ID: I50G

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	TIME ANALYZED =====
01	T-1(0-6)	T-1(0-6)	4866G	1902
02	T-1(6-12)	T-1(6-12)	4867G	1941
03	T-7	T-7	4872G	2321
04	T-1(6-12)MS	T-1(6-12)MS	4871G	2246
05	T-1(6-12)MSD	T-1(6-12)MSD	4870G	2204

COMMENTS: VBK 54
I50G

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK54

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: VBK54

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 4865G

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 10/24/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	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	
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)	5	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	5	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	5	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	2	J
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Total Xylenes	5	U

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____
Lab File ID: 5205X Lab Sample ID: SBLK26
Date Extracted: 10/25/90 Extraction: (SepF/Cont/Sonc) SOX
Date Analyzed: 10/30/90 Time Analyzed: 1654
Matrix: (soil/water) SOIL Level: (low/med) LOW
Instrument ID: I50X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	DATE ANALYZED =====
01	T-7	T-7	5215X	10/31/90

COMMENTS: SBLK26 JOB2143/2148/2147/ BP2435
AUTOSMPLR I50X

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK26

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: SBLK26

Sample wt/vol: 20.0 (g/mL) G Lab File ID: 5205X

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

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SOX Date Analyzed: 10/30/90

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

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

108-95-2-----	Phenol	500	U
111-44-4-----	bis(2-Chloroethyl) Ether	500	U
95-57-8-----	2-Chlorophenol	500	U
541-73-1-----	1,3-Dichlorobenzene	500	U
106-46-7-----	1,4-Dichlorobenzene	500	U
100-51-6-----	Benzyl Alcohol	500	U
95-50-1-----	1,2-Dichlorobenzene	500	U
95-48-7-----	2-Methylphenol	500	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	500	U
106-44-5-----	4-Methylphenol	500	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	500	U
67-72-1-----	Hexachloroethane	500	U
98-95-3-----	Nitrobenzene	500	U
78-59-1-----	Isophorone	500	U
88-75-5-----	2-Nitrophenol	500	U
105-67-9-----	2,4-Dimethylphenol	500	U
65-85-0-----	Benzoic Acid	2400	U
111-91-1-----	bis(2-Chloroethoxy) Methane	500	U
120-83-2-----	2,4-Dichlorophenol	500	U
120-82-1-----	1,2,4-Trichlorobenzene	500	U
91-20-3-----	Naphthalene	500	U
106-47-8-----	4-Chloroaniline	500	U
87-68-3-----	Hexachlorobutadiene	500	U
59-50-7-----	4-Chloro-3-Methylphenol	500	U
91-57-6-----	2-Methylnaphthalene	500	U
77-47-4-----	Hexachlorocyclopentadiene	500	U
88-06-2-----	2,4,6-Trichlorophenol	500	U
95-95-4-----	2,4,5-Trichlorophenol	2400	U
91-58-7-----	2-Chloronaphthalene	500	U
88-74-4-----	2-Nitroaniline	2400	U
131-11-3-----	Dimethyl Phthalate	500	U
208-96-8-----	Acenaphthylene	500	U
606-20-2-----	2,6-Dinitrotoluene	500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK26

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: SBLK26

Sample wt/vol: 20.0 (g/mL) G Lab File ID: 5205X

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

% Moisture: not dec. _____ dec. _____ Date Extracted: 10/25/90

Extraction: (SepF/Cont/Sonc) SOX Date Analyzed: 10/30/90

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

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

99-09-2-----3-Nitroaniline	2400	U
83-32-9-----Acenaphthene	500	U
51-28-5-----2,4-Dinitrophenol	2400	U
100-02-7-----4-Nitrophenol	2400	U
132-64-9-----Dibenzofuran	500	U
121-14-2-----2,4-Dinitrotoluene	500	U
84-66-2-----Diethylphthalate	500	U
7005-72-3-----4-Chlorophenyl-phenylether	500	U
86-73-7-----Fluorene	500	U
100-01-6-----4-Nitroaniline	2400	U
534-52-1-----4,6-Dinitro-2-Methylphenol	2400	U
86-30-6-----N-Nitrosodiphenylamine (1)	500	U
101-55-3-----4-Bromophenyl-phenylether	500	U
118-74-1-----Hexachlorobenzene	500	U
87-86-5-----Pentachlorophenol	2400	U
85-01-8-----Phenanthrene	500	U
120-12-7-----Anthracene	500	U
84-74-2-----Di-n-Butylphthalate	600	
206-44-0-----Fluoranthene	500	U
129-00-0-----Pyrene	500	U
85-68-7-----Butylbenzylphthalate	500	U
91-94-1-----3,3'-Dichlorobenzidine	990	U
56-55-3-----Benzo(a)Anthracene	500	U
218-01-9-----Chrysene	500	U
117-81-7-----Bis(2-Ethylhexyl)Phthalate	68	J
117-84-0-----Di-n-Octyl Phthalate	500	U
205-99-2-----Benzo(b)Fluoranthene	500	U
207-08-9-----Benzo(k)Fluoranthene	500	U
50-32-8-----Benzo(a)Pyrene	500	U
193-39-5-----Indeno(1,2,3-cd)Pyrene	500	U
53-70-3-----Dibenz(a,h)Anthracene	500	U
191-24-2-----Benzo(g,h,i)Perylene	500	U

(1) - Cannot be separated from Diphenylamine

LEICA
SOIL MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/29/90

COMPOUND (Units of Measure = UG/KG)	RESULT	Q
Aldrin	4.0	U
alpha-BHC	4.0	U
beta-BHC	4.0	U
gamma-BHC	4.0	U
delta-BHC	4.0	U
Chlordane	40	U
4,4'-DDD	8.0	U
4,4'-DDE	8.0	U
4,4'-DDT	8.0	U
Dieldrin	8.0	U
Endosulfan I	4.0	U
Endosulfan II	8.0	U
Endosulfan Sulfate	8.0	U
Endrin	8.0	U
Endrin aldehyde	8.0	U
Endrin ketone	8.0	U
Heptachlor	4.0	U
Heptachlor epoxide	4.0	U
Methoxychlor	40	U
Toxaphene	80	U
Aroclor 1016	40	U
Aroclor 1221	40	U
Aroclor 1232	40	U
Aroclor 1242	40	U
Aroclor 1248	40	U
Aroclor 1254	80	U
Aroclor 1260	80	U

LEICA
SOIL MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDE
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/29/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchloredate	57	

LEICA
SOIL MATRIX
METHOD 8080 - POLYCHLORINATED BIPHENYLS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/30/90

COMPOUND (Units of Measure = UG/KG)	RESULT	Q
Aroclor-1016	40	U
Aroclor-1221	40	U
Aroclor-1232	40	U
Aroclor-1242	40	U
Aroclor-1248	40	U
Aroclor-1254	80	U
Aroclor-1260	80	U

LEICA
SOIL MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDE
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

EXTRACTION DATE 10/25/90
ANALYSIS DATE 10/30/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Decachlorobiphenyl	214	

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

ANALYSIS DATE 10/25/90

COMPOUND (Units of Measure = UG/G)	RESULT	Q
Benzene	0.02	U
Ethylbenzene	0.01	U
Toluene	0.01	U
m-Xylene	0.01	U
o-Xylene	0.01	U
p-Xylene	0.01	U

LEICA
SOIL MATRIX
METHOD 8020
PURGEABLE AROMATICS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

ANALYSIS DATE 10/25/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) a,a,a-Trifluorotoluene	85	

LEICA
SOIL MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLF NO. MB-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/KG	6010	10/30/90	0.5	U
Total Chromium	MG/KG	6010	10/30/90	1.0	U
Total Nickel	MG/KG	6010	10/30/90	4.0	U
Total Zinc	MG/KG	6010	10/30/90	1.0	U

LEICA
SOIL MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLLE NO. MB-1

EXTRACTION DATE 10/25/90

COMPOUND (Units of Measure = MG/KG)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	10/31/90	1.0	U

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	UG/G	9010	11/05/90	0.4	U

LEICA
SOIL MATRIX

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2147
DESC METHOD BLANK
SAMPLE NO. MB-1

ANALYSIS DATE 11/14/90

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	34	U

SURROGATE RECOVERY DATA



RECRA ENVIRONMENTAL, INC.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2147

SAS No.: _____

SDG No.: _____

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	TRIPBLANK	101	101	87	0	0
02	VBLK81	103	102	87	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)

S2 (BFB) = Bromofluorobenzene (86-115)

S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2147

SAS No.: _____ SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	T-1(0-6)	81	80	84	0	0
02	T-1(6-12)	93	96	87	0	0
03	T-7	99	91	100	0	0
04	T-1(6-12)MS	101	103	105	0	0
05	T-1(6-12)MSD	103	93	102	0	0
06	VBLK54	99	97	94	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (81-117)

S2 (BFB) = Bromofluorobenzene (74-121)

S3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2147

SAS No.: _____ SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====	=====
01	T-7	66	77	78	73	104	104	0	0
02	SBLK26	85	82	75	82	118	101	0	0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

INTERNAL STANDARD AREA SUMMARIES



RECRA ENVIRONMENTAL, INC.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 1735A Date Analyzed: 10/24/90
 Instrument ID: 51A Time Analyzed: 1351
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	31800	8.20	149000	18.49	145000	23.27
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	63600		298000		290000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	15900		74500		72500	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 TRIPBLANK	34100	8.22	157000	18.49	156000	23.27
02 VBLK81	34000	8.22	153000	18.49	148000	23.27

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2147 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 4863G Date Analyzed: 10/24/90
 Instrument ID: I50G Time Analyzed: 1704
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	32400	8.25	155000	18.49	138000	23.30
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	64800		310000		276000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	16200		77500		69000	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 T-1(0-6)	32800	8.25	146000	18.50	150000	23.34
02 T-1(6-12)	33000	8.23	145000	18.50	125000	23.30
03 T-7	33800	8.25	143000	18.50	123000	23.34
04 T-1(6-12)MS	39600	8.25	165000	18.52	149000	23.34
05 T-1(6-12)MSD	44900	8.23	195000	18.50	169000	23.34
06 VBLK54	32400	8.25	145000	18.50	130000	23.34

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8B
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2147

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 5204X

Date Analyzed: 10/30/90

Instrument ID: I50X

Time Analyzed: 1520

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	8650	7.62	37500	11.19	19900	16.42
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	17300		75000		39800	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	4325		18750		9950	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 T-7	7050	7.62	30600	11.17	22100	16.42
02 SBLK26	8200	7.63	32200	11.19	18600	16.42

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-023Lab Code: RECNY Case No.: 2147

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 5204XDate Analyzed: 10/30/90Instrument ID: I50XTime Analyzed: 1520

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT	AREA #	RT	AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	29900	20.89	24500	28.97	26400	33.11
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	59800		49000		52800	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	14950		12250		13200	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 T-7	39600	20.90	23700	28.97	15800	33.09
02 SBLK26	30000	20.87	25000	28.96	24900	33.09

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

R E C E I V E D
MAR 02 1993
N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
REG'D 19

F.

SOIL ANALYSIS TB-9

NOVEMBER 1990

ANALYTICAL RESULTS

Prepared For

Leica

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodologies employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to the following U.S. Environmental Protection Agency reference.

- o U.S. Environmental Protection Agency "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods." Office of Solid Waste and Emergency Response. November 1986, SW-846, Third Edition.

COMMENTS

Comments pertain to data on one or all pages of this report.

Results of the analysis of soils are corrected for moisture content and reported on a dry weight basis. The dry weight (103°C) of sample TB-9(3-5) is 76.4%.

The results are reported utilizing standard qualifiers as defined on the Organic and Inorganic Data Comment Pages.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data are processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification



criteria were not met, those compounds were deleted from the quantitation report.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.



Organic Data Comment PageLab Name RECRA ENVIRONMENTAL, INC.Footnotes:

NR - Not required by contract at this time

Form I:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GS/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

COMMENTS: _____

Inorganic Data Comment Page

Lab Name RECRA ENVIRONMENTAL, INC.

Case No. _____

ICP interelement and background corrections applied? Yes _____ No _____

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

- B - Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
- E - Indicates a value estimated or not reported due to the presence of interference
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- + - Indicates the correlation coefficient for method of standard addition is less than 0.995.
- M - Indicates duplicate injection results exceeded control limits.
- W - Post digestion spike for Furnance AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

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

COMMENTS: _____

CHAIN OF CUSTODY DOCUMENTS



RECRA ENVIRONMENTAL, INC.

RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO		SITE NAME				NO OF CONTAINERS	REMARKS									
SAMPLERS (SIGNATURE)																
STATION NO	DATE	TIME	COMP	GRAB	STATION LOCATION											
	11/14/90	-	-	X	TB-9 3-5'	1	X									OVA up to 300 ppa
	11/14/90	-		X	TB-9 1-3'	1	X									OVA 10-30 ppa
	11/14/90	-		X	MW-4 5-7'	1	X									
	11/14/90	-		X	MW-1 13-13.5'	1		✓								
		-		✓	MW-1 9-11'	1		✓								Held for B. Stener (11/24/90)
		-		✓	MW-1 5-7'	1		✓								
		-		✓	MW-2 B 4-6'	1		✓								
		-		✓	MW-2 4-6'	1		✓								
		-		✓	MW-2 A 0-2'	1		✓								
		-		✓	MW-2 A 5-7'	1		✓								
	11/14/90	-		✓	TB-8 1-3'	1		✓								
				✓	TB-8 5-7'	1		✓								
				✓	TB-8 9-11'	1		✓								
	11/14/90	-		✓	MW-3 9-11'	1		✓								
				✓	MW-3 1-3'	1		✓								

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
<i>[Signature]</i>	11/14/90	12M	<i>[Signature]</i>				
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	REMARKS	
			<i>[Signature]</i>	11/15/90	1545		

Distribution: Original and companion, deposited copy to coordinator held for

RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO					SITE NAME		NO OF CONTAINERS							REMARKS
SAMPLERS (SIGNATURE)														
STATION NO	DATE	TIME	COMP	GRAB	STATION LOCATION									
	11/14/90	-	-	X	TB-9 3-5'		1	X						
	11/14/90	-		X	TB-9 1-3'		1	X						
	11/14/90	-		X	MW-4 5-7'		1	X						
	11/14/90	-		X	MW-1 13-13.5'		1		✓					
		-		✓	MW-1 9-11'		1		✓					
		-		✓	MW-1 5-7'		1		✓					
		-		✓	MW-2 B 4-6'		1		✓					
		-		✓	MW-2 4-6'		1		✓					
		-		✓	MW 2 A 0-2'		1		✓					
		-		✓	MW 2 A 5-7'		1		✓					
	11/14/90	-		✓	TB-8 1-3'		1		✓					
				✓	TB-8 5-7'		1		✓					
				✓	TB-8 9-11'		1		✓					
	11/14/90	-		✓	MW-3 9-11'		1		✓					
				✓	MW-3 1-3'		1		✓					

1602 gals
802 gals

OVA up to 300 ppb
 OVA 10-30 ppb

Held for B.
 Stener (11/24/90)

List of metals
 TRPM
~~TCL~~ VOA's
 ON/AP's

Only Sample TB-9 (3-5')

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
<i>[Signature]</i>	11/14/90	12M					
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	REMARKS	

Distribution: Original accompanies shipment; copy to coordinator field files.

VOLATILES DATA



RECRA ENVIRONMENTAL, INC.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-9(3-5)

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: TB-9(3-5)

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 5327G

Level: (low/med) LOW Date Received: 11/19/90

% Moisture: not dec. 24 Date Analyzed: 11/28/90

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	25	
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	8	
67-64-1-----	Acetone	92	
75-15-0-----	Carbon Disulfide	6	U
75-35-4-----	1,1-Dichloroethene	6	U
75-34-3-----	1,1-Dichloroethane	6	U
540-59-0-----	1,2-Dichloroethene (total)	78	
67-66-3-----	Chloroform	6	U
107-06-2-----	1,2-Dichloroethane	6	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	6	U
56-23-5-----	Carbon Tetrachloride	6	U
108-05-4-----	Vinyl Acetate	13	U
75-27-4-----	Bromodichloromethane	6	U
78-87-5-----	1,2-Dichloropropane	6	U
10061-01-5-----	cis-1,3-dichloropropene	6	U
79-01-6-----	Trichloroethene	6	U
124-48-1-----	Dibromochloromethane	6	U
79-00-5-----	1,1,2-Trichloroethane	6	U
71-43-2-----	Benzene	6	U
10061-02-6-----	trans-1,3-dichloropropene	6	U
75-25-2-----	Bromoform	6	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	6	U
79-34-5-----	1,1,2,2-Tetrachloroethane	6	U
108-88-3-----	Toluene	1	BJ
108-90-7-----	Chlorobenzene	6	U
100-41-4-----	Ethylbenzene	6	U
100-42-5-----	Styrene	6	U
1330-20-7-----	Total Xylenes	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK88

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: VBK88

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 5315G

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

% Moisture: not dec. _____ Date Analyzed: 11/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	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)	5	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	5	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	5	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	0.5	J
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

SEMI-VOLATILE DATA



RECRA ENVIRONMENTAL, INC.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-9(3-5)

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: TB-9(3-5)

Sample wt/vol: 20.0 (g/mL) G Lab File ID: 6196Y

Level: (low/med) LOW Date Received: 11/19/90

% Moisture: not dec. 28 dec. _____ Date Extracted: 12/01/90

Extraction: (SepF/Cont/Sonc) SOX Date Analyzed: 12/04/90

GPC Cleanup: (Y/N) N Dilution Factor: 2.0

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

108-95-2-----	Phenol	1400	U
111-44-4-----	bis(2-Chloroethyl) Ether	1400	U
95-57-8-----	2-Chlorophenol	1400	U
541-73-1-----	1,3-Dichlorobenzene	1400	U
106-46-7-----	1,4-Dichlorobenzene	1400	U
100-51-6-----	Benzyl Alcohol	1400	U
95-50-1-----	1,2-Dichlorobenzene	1400	U
95-48-7-----	2-Methylphenol	1400	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	1400	U
106-44-5-----	4-Methylphenol	1400	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	1400	U
67-72-1-----	Hexachloroethane	1400	U
98-95-3-----	Nitrobenzene	1400	U
78-59-1-----	Isophorone	1400	U
88-75-5-----	2-Nitrophenol	1400	U
105-67-9-----	2,4-Dimethylphenol	1400	U
65-85-0-----	Benzoic Acid	6700	U
111-91-1-----	bis(2-Chloroethoxy) Methane	1400	U
120-83-2-----	2,4-Dichlorophenol	1400	U
120-82-1-----	1,2,4-Trichlorobenzene	1400	U
91-20-3-----	Naphthalene	1400	U
106-47-8-----	4-Chloroaniline	1400	U
87-68-3-----	Hexachlorobutadiene	1400	U
59-50-7-----	4-Chloro-3-Methylphenol	1400	U
91-57-6-----	2-Methylnaphthalene	1400	U
77-47-4-----	Hexachlorocyclopentadiene	1400	U
88-06-2-----	2,4,6-Trichlorophenol	1400	U
95-95-4-----	2,4,5-Trichlorophenol	6700	U
91-58-7-----	2-Chloronaphthalene	1400	U
88-74-4-----	2-Nitroaniline	6700	U
131-11-3-----	Dimethyl Phthalate	1400	U
208-96-8-----	Acenaphthylene	1400	U
606-20-2-----	2,6-Dinitrotoluene	1400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-9(3-5)

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2445

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: TB-9(3-5)

Sample wt/vol: 20.0 (g/mL) G

Lab File ID: 6196Y

Level: (low/med) LOW

Date Received: 11/19/90

% Moisture: not dec. 28 dec. _____

Date Extracted: 12/01/90

Extraction: (SepF/Cont/Sonc) SOX

Date Analyzed: 12/04/90

GPC Cleanup: (Y/N) N

Dilution Factor: 2.0

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

99-09-2-----	3-Nitroaniline	6700	U
83-32-9-----	Acenaphthene	1400	U
51-28-5-----	2,4-Dinitrophenol	6700	U
100-02-7-----	4-Nitrophenol	6700	U
132-64-9-----	Dibenzofuran	1400	U
121-14-2-----	2,4-Dinitrotoluene	1400	U
84-66-2-----	Diethylphthalate	180	J
7005-72-3-----	4-Chlorophenyl-phenylether	1400	U
86-73-7-----	Fluorene	1400	U
100-01-6-----	4-Nitroaniline	6700	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	6700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1400	U
101-55-3-----	4-Bromophenyl-phenylether	1400	U
118-74-1-----	Hexachlorobenzene	1400	U
87-86-5-----	Pentachlorophenol	6700	U
85-01-8-----	Phenanthrene	130	J
120-12-7-----	Anthracene	1400	U
84-74-2-----	Di-n-Butylphthalate	500	BJ
206-44-0-----	Fluoranthene	140	J
129-00-0-----	Pyrene	120	J
85-68-7-----	Butylbenzylphthalate	1400	U
91-94-1-----	3,3'-Dichlorobenzidine	2800	U
56-55-3-----	Benzo(a)Anthracene	78	J
218-01-9-----	Chrysene	1400	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	1400	U
117-84-0-----	Di-n-Octyl Phthalate	1400	U
205-99-2-----	Benzo(b)Fluoranthene	1400	U
207-08-9-----	Benzo(k)Fluoranthene	1400	U
50-32-8-----	Benzo(a)Pyrene	1400	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	1400	U
53-70-3-----	Dibenz(a,h)Anthracene	1400	U
191-24-2-----	Benzo(g,h,i)Perylene	1400	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK18

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2445

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: SBLK18

Sample wt/vol: 20.0 (g/mL) G

Lab File ID: 6212Y

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/01/90

Extraction: (SepF/Cont/Sonc) _____

SOX

Date Analyzed: 12/05/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.00

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

108-95-2-----	Phenol	500	U
111-44-4-----	bis(2-Chloroethyl) Ether	500	U
95-57-8-----	2-Chlorophenol	500	U
541-73-1-----	1,3-Dichlorobenzene	500	U
106-46-7-----	1,4-Dichlorobenzene	500	U
100-51-6-----	Benzyl Alcohol	500	U
95-50-1-----	1,2-Dichlorobenzene	500	U
95-48-7-----	2-Methylphenol	500	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	500	U
106-44-5-----	4-Methylphenol	500	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	500	U
67-72-1-----	Hexachloroethane	500	U
98-95-3-----	Nitrobenzene	500	U
78-59-1-----	Isophorone	500	U
88-75-5-----	2-Nitrophenol	500	U
105-67-9-----	2,4-Dimethylphenol	500	U
65-85-0-----	Benzoic Acid	2400	U
111-91-1-----	bis(2-Chloroethoxy) Methane	500	U
120-83-2-----	2,4-Dichlorophenol	500	U
120-82-1-----	1,2,4-Trichlorobenzene	500	U
91-20-3-----	Naphthalene	500	U
106-47-8-----	4-Chloroaniline	500	U
87-68-3-----	Hexachlorobutadiene	500	U
59-50-7-----	4-Chloro-3-Methylphenol	500	U
91-57-6-----	2-Methylnaphthalene	500	U
77-47-4-----	Hexachlorocyclopentadiene	500	U
88-06-2-----	2,4,6-Trichlorophenol	500	U
95-95-4-----	2,4,5-Trichlorophenol	2400	U
91-58-7-----	2-Chloronaphthalene	500	U
88-74-4-----	2-Nitroaniline	2400	U
131-11-3-----	Dimethyl Phthalate	500	U
208-96-8-----	Acenaphthylene	500	U
606-20-2-----	2,6-Dinitrotoluene	500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK18

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2445

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: SBLK18

Sample wt/vol: 20.0 (g/mL) G

Lab File ID: 6212Y

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/01/90

Extraction: (SepF/Cont/Sonc) SOX

Date Analyzed: 12/05/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.00

CAS NO.

COMPOUND

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

Q

99-09-2-----	3-Nitroaniline	2400	U
83-32-9-----	Acenaphthene	500	U
51-28-5-----	2,4-Dinitrophenol	2400	U
100-02-7-----	4-Nitrophenol	2400	U
132-64-9-----	Dibenzofuran	500	U
121-14-2-----	2,4-Dinitrotoluene	500	U
84-66-2-----	Diethylphthalate	500	U
7005-72-3-----	4-Chlorophenyl-phenylether	500	U
86-73-7-----	Fluorene	500	U
100-01-6-----	4-Nitroaniline	2400	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	500	U
101-55-3-----	4-Bromophenyl-phenylether	500	U
118-74-1-----	Hexachlorobenzene	500	U
87-86-5-----	Pentachlorophenol	2400	U
85-01-8-----	Phenanthrene	500	U
120-12-7-----	Anthracene	500	U
84-74-2-----	Di-n-Butylphthalate	860	
206-44-0-----	Fluoranthene	500	U
129-00-0-----	Pyrene	500	U
85-68-7-----	Butylbenzylphthalate	500	U
91-94-1-----	3,3'-Dichlorobenzidine	990	U
56-55-3-----	Benzo(a)Anthracene	500	U
218-01-9-----	Chrysene	500	U
117-81-7-----	Bis(2-Ethylhexyl) Phthalate	42	J
117-84-0-----	Di-n-Octyl Phthalate	500	U
205-99-2-----	Benzo(b) Fluoranthene	500	U
207-08-9-----	Benzo(k) Fluoranthene	500	U
50-32-8-----	Benzo(a) Pyrene	500	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	500	U
53-70-3-----	Dibenz(a,h)Anthracene	500	U
191-24-2-----	Benzo(g,h,i) Perylene	500	U

(1) - Cannot be separated from Diphenylamine

METALS DATA



RECRA ENVIRONMENTAL, INC.

LEICA
SOIL MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2445

SAMPLE DATE 11/19/90

SAMPLE NO. TE-9 (3-5')

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/KG	6010	11/30/90	0.77	
Total Chromium	MG/KG	6010	11/30/90	26	
Total Nickel	MG/KG	6010	11/30/90	21	
Total Zinc	MG/KG	6010	11/30/90	167	

WATER QUALITY DATA



RECRA ENVIRONMENTAL, INC.

LEICA
SOIL MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2445

SAMPLE DATE 11/19/90
ANALYSIS DATE 12/14/90

SAMPLE NO. TB-9 (3-5')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	178	

METHOD BLANK DATA



RECRA ENVIRONMENTAL, INC.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____
Lab File ID: 5315G Lab Sample ID: VBLK88
Date Analyzed: 11/28/90 Time Analyzed: 1241
Matrix: (soil/water) SOIL Level: (low/med) LOW
Instrument ID: I50G

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	TIME ANALYZED =====
01	TB-9(3-5)	TB-9(3-5)	5327G	2023

COMMENTS: VBLK88
I50G

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____
Lab File ID: 6212Y Lab Sample ID: SBLK18
Date Extracted: 12/01/90 Extraction: (SepF/Cont/Sonc) SOX
Date Analyzed: 12/05/90 Time Analyzed: 1545
Matrix: (soil/water) SOIL Level: (low/med) LOW
Instrument ID: I50Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	DATE ANALYZED =====
01	TB-9(3-5)	TB-9(3-5)	6196Y	12/04/90

COMMENTS: SBLK18 JOB2445 BP2596
AUTOSAMPLR I50Y

LEICA
SOIL MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2445
DESC METHOD BLANK
SAMPLE NO. MB-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/KG	6010	11/30/90	0.5	U
Total Chromium	MG/KG	6010	11/30/90	1.1	
Total Nickel	MG/KG	6010	11/30/90	4.0	U
Total Vanadium	MG/KG	6010	11/30/90	1.0	U

LEICA
SOIL MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2445

ANALYSIS DATE 12/14/90

SAMPLE NO. METHOD BLANK

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	0.5	U

SURROGATE RECOVERY DATA



RECRA ENVIRONMENTAL, INC.

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2445

SAS No.: _____

SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	TB-9 (3-5)	99	83	103	0	0
02	VBLK88	85	84	87	0	0

QC LIMITS
S1 (TOL) = Toluene-d8 (81-117)
S2 (BFB) = Bromofluorobenzene (74-121)
S3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____
 Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====	=====
01	TB-9(3-5)	81	86	102	85	91	125 *	0	1
02	SBLK18	84	86	104	86	91	120	0	0

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
 S2 (FBP) = 2-Fluorobiphenyl (30-115)
 S3 (TPH) = Terphenyl (18-137)
 S4 (PHL) = Phenol-d5 (24-113)
 S5 (2FP) = 2-Fluorophenol (25-121)
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogates diluted out

INTERNAL STANDARD AREA SUMMARIES



RECRA ENVIRONMENTAL, INC.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5313G Date Analyzed: 11/28/90
 Instrument ID: I50G Time Analyzed: 1104
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	19900	8.10	99800	18.37	91700	23.14
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	39800		199600		183400	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	9950		49900		45850	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 TB-9(3-5)	16100	8.15	72800	18.37	62100	23.14
02 VBLK88	20400	8.10	95800	18.35	88100	23.17

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

* Column used to flag internal standard area values with an asterisk

8B
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2445 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 6189Y Date Analyzed: 12/04/90
 Instrument ID: I50Y Time Analyzed: 1049

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	12100	9.57	44300	13.25	26800	18.65
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	24200		88600		53600	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	6050		22150		13400	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 TB-9(3-5)	19300	9.57	67500	13.24	42400	18.64

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-023Lab Code: RECNY Case No.: 2445

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 6189YDate Analyzed: 12/04/90Instrument ID: I50YTime Analyzed: 1049

	IS4 (PHN) AREA #	RT	IS5 (CRY) AREA #	RT	IS6 (PRY) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	41700	23.27	40300	31.59	38200	35.74
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	83400		80600		76400	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	20850		20150		19100	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 TB-9(3-5)	68100	23.25	55900	31.56	59400	35.71

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

* Column used to flag internal standard area values with an asterisk

8B
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2445

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 6204Y

Date Analyzed: 12/05/90

Instrument ID: I50Y

Time Analyzed: 0857

	IS1 (DCB) AREA #	RT	IS2 (NPT) AREA #	RT	IS3 (ANT) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	11000	9.54	38600	13.22	22900	18.60
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	22000		77200		45800	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	5500		19300		11450	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 SBLK18	10200	9.54	34700	13.19	21400	18.59

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%
of internal standard area.

LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-023Lab Code: RECNYCase No.: 2445

SAS No.: _____

SDG No.: _____

Lab File ID (Standard): 6204YDate Analyzed: 12/05/90Instrument ID: I50YTime Analyzed: 0857

	IS4 (PHN) AREA #	RT	IS5 (CRY) AREA #	RT	IS6 (PRY) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	34900	23.22	33700	31.54	31100	35.67
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	69800		67400		62200	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	17450		16850		15550	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 SBLK18	35400	23.20	29200	31.51	29000	35.64

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk

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N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
FEB 01 9

GROUNDWATER MONITORING

NOVEMBER 1990

ANALYTICAL RESULTS

Prepared For

Leica Project

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodologies employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to one of the following U.S. Environmental Protection Agency references.

- o 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act" October 26, 1984 (Federal Register) U.S. Environmental Protection Agency.
- o U.S. Environmental Protection Agency "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods". Office of Solid Waste and Emergency Response. November 1986 SW-846, Third Edition.

COMMENTS

Comments pertain to data on one or all pages of this report.

Results are reported utilizing standard qualifiers as defined on the Organic and Inorganic Data Comment Pages.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

The recovery of spiking compound Pentachlorophenol fell slightly below quality control limits in sample MW-1. The %RPD was also outside of quality control limits.

PESTICIDE/PCB DATA

The results of the analysis of Pesticides/PCB's are confirmed utilizing two dissimilar gas chromatographic columns.

ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

INORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Inorganic Data Qualifiers:

- B - Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 100).
- E - Indicates a value estimated or not reported due to the presence of interference.
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- + - Indicates the correlation coefficient for method of standard addition is less than 0.995.
- M - Indicates duplicate injection results exceeded control limits.
- W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

CHAIN OF CUSTODY DOCUMENTS



RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

[illegible]

VOLATILES DATA



RECREA ENVIRONMENTAL, INC.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1

Site Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW1

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 257E

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 11/30/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L 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)	5	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	5	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	5	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
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1MS

Sample Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW1MS

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 277E

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/01/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.

COMPOUND

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

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	1	J
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)	5	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	5	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	5	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
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1MSD

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW1MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 263E

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ Date Analyzed: 11/30/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L 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	2	J
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)	5	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	5	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	5	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
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: RECRA ENVIRON Contract: NY91-149
 Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: MW2
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 258E
 Level: (low/med) LOW Date Received: 11/29/90
 % Moisture: not dec. _____ Date Analyzed: 11/30/90
 Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L 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	0.3	J
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)	0.9	J
67-66-3-----	Chloroform	4	J
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
108-05-4-----	Vinyl Acetate	10	U
75-27-4-----	Bromodichloromethane	0.3	J
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-dichloropropene	5	U
79-01-6-----	Trichloroethene	57	B
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	0.03	BJ
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
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW3

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 259E

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 11/30/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	4	J
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)	2	J
67-66-3-----	Chloroform	0.2	J
107-06-2-----	1,2-Dichloroethane	0.05	J
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	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	0.3	BJ
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	0.06	BJ
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	0.1	BJ
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4

Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW4

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 260E

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 11/30/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	1800	E
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	6	J
75-15-0-----	Carbon Disulfide	1	J
75-35-4-----	1,1-Dichloroethene	34	
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	3500	E
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	5	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	3200	BE
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	0.6	J
71-43-2-----	Benzene	2	BJ
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	1	J
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	25	B
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	15	
100-42-5-----	Styrene	5	U
1330-20-7-----	Total Xylenes	49	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4DL

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW4DL

Sample wt/vol: 0.050 (g/mL) ML

Lab File ID: 278E

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 12/01/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.

COMPOUND

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

Q

74-87-3-----	Chloromethane	1000	U
74-83-9-----	Bromomethane	1000	U
75-01-4-----	Vinyl Chloride	1900	D
75-00-3-----	Chloroethane	1000	U
75-09-2-----	Methylene Chloride	500	U
67-64-1-----	Acetone	1000	U
75-15-0-----	Carbon Disulfide	500	U
75-35-4-----	1,1-Dichloroethene	14	DJ
75-34-3-----	1,1-Dichloroethane	500	U
540-59-0-----	1,2-Dichloroethene (total)	10000	D
67-66-3-----	Chloroform	500	U
107-06-2-----	1,2-Dichloroethane	500	U
78-93-3-----	2-Butanone	1000	U
71-55-6-----	1,1,1-Trichloroethane	500	U
56-23-5-----	Carbon Tetrachloride	500	U
108-05-4-----	Vinyl Acetate	1000	U
75-27-4-----	Bromodichloromethane	500	U
78-87-5-----	1,2-Dichloropropane	500	U
10061-01-5-----	cis-1,3-dichloropropene	500	U
79-01-6-----	Trichloroethene	6900	BD
124-48-1-----	Dibromochloromethane	500	U
79-00-5-----	1,1,2-Trichloroethane	500	U
71-43-2-----	Benzene	500	U
10061-02-6-----	trans-1,3-dichloropropene	500	U
75-25-2-----	Bromoform	500	U
108-10-1-----	4-Methyl-2-Pentanone	1000	U
591-78-6-----	2-Hexanone	1000	U
127-18-4-----	Tetrachloroethene	500	U
79-34-5-----	1,1,2,2-Tetrachloroethane	500	U
108-88-3-----	Toluene	29	DJ
108-90-7-----	Chlorobenzene	500	U
100-41-4-----	Ethylbenzene	500	U
100-42-5-----	Styrene	500	U
1330-20-7-----	Total Xylenes	500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Sample Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: TRIPBLANK

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 255E

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____

Date Analyzed: 11/30/90

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	2	J
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)	5	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	5	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	5	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
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: FIELD BLANK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 256E

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ Date Analyzed: 11/30/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L 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	0.1	J
67-64-1-----	Acetone	4	J
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)	5	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	5	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	0.2	J
10061-01-5-----	cis-1,3-dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	0.04	BJ
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	0.3	BJ
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U
1330-20-7-----	Total Xylenes	5	U

SEMI-VOLATILE DATA



RECRA ENVIRONMENTAL, INC.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW-1

Sample wt/vol: 650 (g/mL) ML

Lab File ID: 3562W

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

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

108-95-2-----	Phenol	15	U
111-44-4-----	bis(2-Chloroethyl) Ether	15	U
95-57-8-----	2-Chlorophenol	15	U
541-73-1-----	1,3-Dichlorobenzene	15	U
106-46-7-----	1,4-Dichlorobenzene	15	U
100-51-6-----	Benzyl Alcohol	15	U
95-50-1-----	1,2-Dichlorobenzene	15	U
95-48-7-----	2-Methylphenol	15	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	15	U
106-44-5-----	4-Methylphenol	15	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	15	U
67-72-1-----	Hexachloroethane	15	U
98-95-3-----	Nitrobenzene	15	U
78-59-1-----	Isophorone	15	U
88-75-5-----	2-Nitrophenol	15	U
105-67-9-----	2,4-Dimethylphenol	15	U
65-85-0-----	Benzoic Acid	77	U
111-91-1-----	bis(2-Chloroethoxy) Methane	15	U
120-83-2-----	2,4-Dichlorophenol	15	U
120-82-1-----	1,2,4-Trichlorobenzene	15	U
91-20-3-----	Naphthalene	15	U
106-47-8-----	4-Chloroaniline	15	U
87-68-3-----	Hexachlorobutadiene	15	U
59-50-7-----	4-Chloro-3-Methylphenol	15	U
91-57-6-----	2-Methylnaphthalene	15	U
77-47-4-----	Hexachlorocyclopentadiene	15	U
88-06-2-----	2,4,6-Trichlorophenol	15	U
95-95-4-----	2,4,5-Trichlorophenol	77	U
91-58-7-----	2-Chloronaphthalene	15	U
88-74-4-----	2-Nitroaniline	77	U
131-11-3-----	Dimethyl Phthalate	15	U
208-96-8-----	Acenaphthylene	15	U
606-20-2-----	2,6-Dinitrotoluene	15	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW-1

Sample wt/vol: 650 (g/mL) ML

Lab File ID: 3562W

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

CAS NO.

COMPOUND

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

Q

99-09-2-----	3-Nitroaniline	77	U
83-32-9-----	Acenaphthene	15	U
51-28-5-----	2,4-Dinitrophenol	77	U
100-02-7-----	4-Nitrophenol	77	U
132-64-9-----	Dibenzofuran	15	U
121-14-2-----	2,4-Dinitrotoluene	15	U
84-66-2-----	Diethylphthalate	15	U
7005-72-3-----	4-Chlorophenyl-phenylether	15	U
86-73-7-----	Fluorene	15	U
100-01-6-----	4-Nitroaniline	77	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	77	U
86-30-6-----	N-Nitrosodiphenylamine (1)	15	U
101-55-3-----	4-Bromophenyl-phenylether	15	U
118-74-1-----	Hexachlorobenzene	15	U
87-86-5-----	Pentachlorophenol	77	U
85-01-8-----	Phenanthrene	15	U
120-12-7-----	Anthracene	15	U
84-74-2-----	Di-n-Butylphthalate	15	U
206-44-0-----	Fluoranthene	15	U
129-00-0-----	Pyrene	15	U
85-68-7-----	Butylbenzylphthalate	15	U
91-94-1-----	3,3'-Dichlorobenzidine	31	U
56-55-3-----	Benzo(a)Anthracene	15	U
218-01-9-----	Chrysene	15	U
117-81-7-----	Bis(2-Ethylhexyl) Phthalate	15	U
117-84-0-----	Di-n-Octyl Phthalate	15	U
205-99-2-----	Benzo(b)Fluoranthene	15	U
207-08-9-----	Benzo(k)Fluoranthene	15	U
50-32-8-----	Benzo(a)Pyrene	15	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	15	U
53-70-3-----	Dibenz(a,h)Anthracene	15	U
191-24-2-----	Benzo(g,h,i)Perylene	15	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1MS

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW-1MS

Sample wt/vol: 650 (g/mL) ML Lab File ID: 3563W

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

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

108-95-2-----	Phenol	15	U
111-44-4-----	bis(2-Chloroethyl) Ether	15	U
95-57-8-----	2-Chlorophenol	15	U
541-73-1-----	1,3-Dichlorobenzene	15	U
106-46-7-----	1,4-Dichlorobenzene	15	U
100-51-6-----	Benzyl Alcohol	15	U
95-50-1-----	1,2-Dichlorobenzene	15	U
95-48-7-----	2-Methylphenol	15	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	15	U
106-44-5-----	4-Methylphenol	15	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	15	U
67-72-1-----	Hexachloroethane	15	U
98-95-3-----	Nitrobenzene	15	U
78-59-1-----	Isophorone	15	U
88-75-5-----	2-Nitrophenol	15	U
105-67-9-----	2,4-Dimethylphenol	15	U
65-85-0-----	Benzoic Acid	77	U
111-91-1-----	bis(2-Chloroethoxy) Methane	15	U
120-83-2-----	2,4-Dichlorophenol	15	U
120-82-1-----	1,2,4-Trichlorobenzene	15	U
91-20-3-----	Naphthalene	15	U
106-47-8-----	4-Chloroaniline	15	U
87-68-3-----	Hexachlorobutadiene	15	U
59-50-7-----	4-Chloro-3-Methylphenol	15	U
91-57-6-----	2-Methylnaphthalene	15	U
77-47-4-----	Hexachlorocyclopentadiene	15	U
88-06-2-----	2,4,6-Trichlorophenol	15	U
95-95-4-----	2,4,5-Trichlorophenol	77	U
91-58-7-----	2-Chloronaphthalene	15	U
88-74-4-----	2-Nitroaniline	77	U
131-11-3-----	Dimethyl Phthalate	15	U
208-96-8-----	Acenaphthylene	15	U
606-20-2-----	2,6-Dinitrotoluene	15	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1MS

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW-1MS

Sample wt/vol: 650 (g/mL) ML Lab File ID: 3563W

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

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
99-09-2-----	3-Nitroaniline	77	U
83-32-9-----	Acenaphthene	15	U
51-28-5-----	2,4-Dinitrophenol	77	U
100-02-7-----	4-Nitrophenol	77	U
132-64-9-----	Dibenzofuran	15	U
121-14-2-----	2,4-Dinitrotoluene	15	U
84-66-2-----	Diethylphthalate	15	U
7005-72-3-----	4-Chlorophenyl-phenylether	15	U
86-73-7-----	Fluorene	15	U
100-01-6-----	4-Nitroaniline	77	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	77	U
86-30-6-----	N-Nitrosodiphenylamine (1)	15	U
101-55-3-----	4-Bromophenyl-phenylether	15	U
118-74-1-----	Hexachlorobenzene	15	U
87-86-5-----	Pentachlorophenol	77	U
85-01-8-----	Phenanthrene	15	U
120-12-7-----	Anthracene	15	U
84-74-2-----	Di-n-Butylphthalate	15	U
206-44-0-----	Fluoranthene	15	U
129-00-0-----	Pyrene	15	U
85-68-7-----	Butylbenzylphthalate	15	U
91-94-1-----	3,3'-Dichlorobenzidine	31	U
56-55-3-----	Benzo(a)Anthracene	15	U
218-01-9-----	Chrysene	15	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	15	U
117-84-0-----	Di-n-Octyl Phthalate	15	U
205-99-2-----	Benzo(b)Fluoranthene	15	U
207-08-9-----	Benzo(k)Fluoranthene	15	U
50-32-8-----	Benzo(a)Pyrene	15	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	15	U
53-70-3-----	Dibenz(a,h)Anthracene	15	U
191-24-2-----	Benzo(g,h,i)Perylene	15	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1MSD

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY Case No.: 2468

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW-1MSD

Sample wt/vol: 650 (g/mL) ML

Lab File ID: 3564W

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

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

108-95-2-----Phenol	15	U
111-44-4-----bis(2-Chloroethyl) Ether	15	UU
95-57-8-----2-Chlorophenol	15	UU
541-73-1-----1,3-Dichlorobenzene	15	UU
106-46-7-----1,4-Dichlorobenzene	15	UU
100-51-6-----Benzyl Alcohol	15	UU
95-50-1-----1,2-Dichlorobenzene	15	UU
95-48-7-----2-Methylphenol	15	UU
108-60-1-----bis(2-Chloroisopropyl) Ether	15	UU
106-44-5-----4-Methylphenol	15	UU
621-64-7-----N-Nitroso-Di-n-Propylamine	15	UU
67-72-1-----Hexachloroethane	15	UU
98-95-3-----Nitrobenzene	15	UU
78-59-1-----Isophorone	15	UU
88-75-5-----2-Nitrophenol	15	UU
105-67-9-----2,4-Dimethylphenol	15	UU
65-85-0-----Benzoic Acid	77	UU
111-91-1-----bis(2-Chloroethoxy) Methane	15	UU
120-83-2-----2,4-Dichlorophenol	15	UU
120-82-1-----1,2,4-Trichlorobenzene	15	UU
91-20-3-----Naphthalene	15	UU
106-47-8-----4-Chloroaniline	15	UU
87-68-3-----Hexachlorobutadiene	15	UU
59-50-7-----4-Chloro-3-Methylphenol	15	UU
91-57-6-----2-Methylnaphthalene	15	UU
77-47-4-----Hexachlorocyclopentadiene	15	UU
88-06-2-----2,4,6-Trichlorophenol	15	UU
95-95-4-----2,4,5-Trichlorophenol	77	UU
91-58-7-----2-Chloronaphthalene	15	UU
88-74-4-----2-Nitroaniline	77	UU
131-11-3-----Dimethyl Phthalate	15	UU
208-96-8-----Acenaphthylene	15	UU
606-20-2-----2,6-Dinitrotoluene	15	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1MSD

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW-1MSD

Sample wt/vol: 650 (g/mL) ML

Lab File ID: 3564W

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

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

99-09-2-----3-Nitroaniline	77	U
83-32-9-----Acenaphthene	15	U
51-28-5-----2,4-Dinitrophenol	77	U
100-02-7-----4-Nitrophenol	77	U
132-64-9-----Dibenzofuran	15	U
121-14-2-----2,4-Dinitrotoluene	15	U
84-66-2-----Diethylphthalate	15	U
7005-72-3-----4-Chlorophenyl-phenylether	15	U
86-73-7-----Fluorene	15	U
100-01-6-----4-Nitroaniline	77	U
534-52-1-----4,6-Dinitro-2-Methylphenol	77	U
86-30-6-----N-Nitrosodiphenylamine (1)	15	U
101-55-3-----4-Bromophenyl-phenylether	15	U
118-74-1-----Hexachlorobenzene	15	U
87-86-5-----Pentachlorophenol	77	U
85-01-8-----Phenanthrene	15	U
120-12-7-----Anthracene	15	U
84-74-2-----Di-n-Butylphthalate	15	U
206-44-0-----Fluoranthene	15	U
129-00-0-----Pyrene	15	U
85-68-7-----Butylbenzylphthalate	15	U
91-94-1-----3,3'-Dichlorobenzidine	31	U
56-55-3-----Benzo(a)Anthracene	15	U
218-01-9-----Chrysene	15	U
117-81-7-----Bis(2-Ethylhexyl)Phthalate	15	U
117-84-0-----Di-n-Octyl Phthalate	15	U
205-99-2-----Benzo(b)Fluoranthene	15	U
207-08-9-----Benzo(k)Fluoranthene	15	U
50-32-8-----Benzo(a)Pyrene	15	U
193-39-5-----Indeno(1,2,3-cd)Pyrene	15	U
53-70-3-----Dibenz(a,h)Anthracene	15	U
191-24-2-----Benzo(g,h,i)Perylene	15	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW-2

Sample wt/vol: 700 (g/mL) ML Lab File ID: 3565W

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

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

108-95-2-----	Phenol	14	U
111-44-4-----	bis(2-Chloroethyl) Ether	14	U
95-57-8-----	2-Chlorophenol	14	U
541-73-1-----	1,3-Dichlorobenzene	14	U
106-46-7-----	1,4-Dichlorobenzene	14	U
100-51-6-----	Benzyl Alcohol	14	U
95-50-1-----	1,2-Dichlorobenzene	14	U
95-48-7-----	2-Methylphenol	14	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	14	U
106-44-5-----	4-Methylphenol	14	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	14	U
67-72-1-----	Hexachloroethane	14	U
98-95-3-----	Nitrobenzene	14	U
78-59-1-----	Isophorone	14	U
88-75-5-----	2-Nitrophenol	14	U
105-67-9-----	2,4-Dimethylphenol	14	U
65-85-0-----	Benzoic Acid	72	U
111-91-1-----	bis(2-Chloroethoxy) Methane	14	U
120-83-2-----	2,4-Dichlorophenol	14	U
120-82-1-----	1,2,4-Trichlorobenzene	14	U
91-20-3-----	Naphthalene	14	U
106-47-8-----	4-Chloroaniline	14	U
87-68-3-----	Hexachlorobutadiene	14	U
59-50-7-----	4-Chloro-3-Methylphenol	14	U
91-57-6-----	2-Methylnaphthalene	14	U
77-47-4-----	Hexachlorocyclopentadiene	14	U
88-06-2-----	2,4,6-Trichlorophenol	14	U
95-95-4-----	2,4,5-Trichlorophenol	72	U
91-58-7-----	2-Chloronaphthalene	14	U
88-74-4-----	2-Nitroaniline	72	U
131-11-3-----	Dimethyl Phthalate	14	U
208-96-8-----	Acenaphthylene	14	U
606-20-2-----	2,6-Dinitrotoluene	14	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW-2

Sample wt/vol: 700 (g/mL) ML

Lab File ID: 3565W

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

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

99-09-2-----	3-Nitroaniline	72	U
83-32-9-----	Acenaphthene	14	U
51-28-5-----	2,4-Dinitrophenol	72	U
100-02-7-----	4-Nitrophenol	72	U
132-64-9-----	Dibenzofuran	14	U
121-14-2-----	2,4-Dinitrotoluene	14	U
84-66-2-----	Diethylphthalate	14	U
7005-72-3-----	4-Chlorophenyl-phenylether	14	U
86-73-7-----	Fluorene	14	U
100-01-6-----	4-Nitroaniline	72	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	72	U
86-30-6-----	N-Nitrosodiphenylamine (1)	14	U
101-55-3-----	4-Bromophenyl-phenylether	14	U
118-74-1-----	Hexachlorobenzene	14	U
87-86-5-----	Pentachlorophenol	72	U
85-01-8-----	Phenanthrene	14	U
120-12-7-----	Anthracene	14	U
84-74-2-----	Di-n-Butylphthalate	14	U
206-44-0-----	Fluoranthene	14	U
129-00-0-----	Pyrene	14	U
85-68-7-----	Butylbenzylphthalate	14	U
91-94-1-----	3,3'-Dichlorobenzidine	29	U
56-55-3-----	Benzo(a)Anthracene	14	U
218-01-9-----	Chrysene	14	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	14	U
117-84-0-----	Di-n-Octyl Phthalate	14	U
205-99-2-----	Benzo(b)Fluoranthene	14	U
207-08-9-----	Benzo(k)Fluoranthene	14	U
50-32-8-----	Benzo(a)Pyrene	14	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	14	U
53-70-3-----	Dibenz(a,h)Anthracene	14	U
191-24-2-----	Benzo(g,h,i)Perylene	14	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW-3

Sample wt/vol: 700 (g/mL) ML Lab File ID: 3566W

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2-----	Phenol	14	U
111-44-4-----	bis(2-Chloroethyl) Ether	14	U
95-57-8-----	2-Chlorophenol	14	U
541-73-1-----	1,3-Dichlorobenzene	14	U
106-46-7-----	1,4-Dichlorobenzene	14	U
100-51-6-----	Benzyl Alcohol	14	U
95-50-1-----	1,2-Dichlorobenzene	14	U
95-48-7-----	2-Methylphenol	14	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	14	U
106-44-5-----	4-Methylphenol	14	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	14	U
67-72-1-----	Hexachloroethane	14	U
98-95-3-----	Nitrobenzene	14	U
78-59-1-----	Isophorone	14	U
88-75-5-----	2-Nitrophenol	14	U
105-67-9-----	2,4-Dimethylphenol	14	U
65-85-0-----	Benzoic Acid	72	U
111-91-1-----	bis(2-Chloroethoxy) Methane	14	U
120-83-2-----	2,4-Dichlorophenol	14	U
120-82-1-----	1,2,4-Trichlorobenzene	14	U
91-20-3-----	Naphthalene	14	U
106-47-8-----	4-Chloroaniline	14	U
87-68-3-----	Hexachlorobutadiene	14	U
59-50-7-----	4-Chloro-3-Methylphenol	14	U
91-57-6-----	2-Methylnaphthalene	14	U
77-47-4-----	Hexachlorocyclopentadiene	14	U
88-06-2-----	2,4,6-Trichlorophenol	14	U
95-95-4-----	2,4,5-Trichlorophenol	72	U
91-58-7-----	2-Chloronaphthalene	14	U
88-74-4-----	2-Nitroaniline	72	U
131-11-3-----	Dimethyl Phthalate	14	U
208-96-8-----	Acenaphthylene	14	U
606-20-2-----	2,6-Dinitrotoluene	14	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW-3

Sample wt/vol: 700 (g/mL) ML

Lab File ID: 3566W

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

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

99-09-2-----	3-Nitroaniline	72	U
83-32-9-----	Acenaphthene	14	U
51-28-5-----	2,4-Dinitrophenol	72	U
100-02-7-----	4-Nitrophenol	72	U
132-64-9-----	Dibenzofuran	14	U
121-14-2-----	2,4-Dinitrotoluene	14	U
84-66-2-----	Diethylphthalate	14	U
7005-72-3-----	4-Chlorophenyl-phenylether	14	U
86-73-7-----	Fluorene	14	U
100-01-6-----	4-Nitroaniline	72	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	72	U
86-30-6-----	N-Nitrosodiphenylamine (1)	14	U
101-55-3-----	4-Bromophenyl-phenylether	14	U
118-74-1-----	Hexachlorobenzene	14	U
87-86-5-----	Pentachlorophenol	72	U
85-01-8-----	Phenanthrene	14	U
120-12-7-----	Anthracene	14	U
84-74-2-----	Di-n-Butylphthalate	14	U
206-44-0-----	Fluoranthene	14	U
129-00-0-----	Pyrene	14	U
85-68-7-----	Butylbenzylphthalate	14	U
91-94-1-----	3,3'-Dichlorobenzidine	29	U
56-55-3-----	Benzo(a)Anthracene	14	U
218-01-9-----	Chrysene	14	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	14	U
117-84-0-----	Di-n-Octyl Phthalate	14	U
205-99-2-----	Benzo(b)Fluoranthene	14	U
207-08-9-----	Benzo(k)Fluoranthene	14	U
50-32-8-----	Benzo(a)Pyrene	14	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	14	U
53-70-3-----	Dibenz(a,h)Anthracene	14	U
191-24-2-----	Benzo(g,h,i)Perylene	14	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW-4

Sample wt/vol: 700 (g/mL) ML

Lab File ID: 3567W

Level: (low/med) LOW

Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/08/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

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

108-95-2-----	Phenol	14	U
111-44-4-----	bis(2-Chloroethyl) Ether	14	U
95-57-8-----	2-Chlorophenol	14	U
541-73-1-----	1,3-Dichlorobenzene	14	U
106-46-7-----	1,4-Dichlorobenzene	14	U
100-51-6-----	Benzyl Alcohol	14	U
95-50-1-----	1,2-Dichlorobenzene	14	U
95-48-7-----	2-Methylphenol	14	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	14	U
106-44-5-----	4-Methylphenol	14	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	14	U
67-72-1-----	Hexachloroethane	14	U
98-95-3-----	Nitrobenzene	14	U
78-59-1-----	Isophorone	14	U
88-75-5-----	2-Nitrophenol	14	U
105-67-9-----	2,4-Dimethylphenol	1	J
65-85-0-----	Benzoic Acid	72	U
111-91-1-----	bis(2-Chloroethoxy) Methane	14	U
120-83-2-----	2,4-Dichlorophenol	14	U
120-82-1-----	1,2,4-Trichlorobenzene	14	U
91-20-3-----	Naphthalene	14	U
106-47-8-----	4-Chloroaniline	14	U
87-68-3-----	Hexachlorobutadiene	14	U
59-50-7-----	4-Chloro-3-Methylphenol	14	U
91-57-6-----	2-Methylnaphthalene	14	U
77-47-4-----	Hexachlorocyclopentadiene	14	U
88-06-2-----	2,4,6-Trichlorophenol	14	U
95-95-4-----	2,4,5-Trichlorophenol	72	U
91-58-7-----	2-Chloronaphthalene	14	U
88-74-4-----	2-Nitroaniline	72	U
131-11-3-----	Dimethyl Phthalate	14	U
208-96-8-----	Acenaphthylene	14	U
606-20-2-----	2,6-Dinitrotoluene	14	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW-4

Sample wt/vol: 700 (g/mL) ML Lab File ID: 3567W

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/08/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

99-09-2-----	3-Nitroaniline	72	U
83-32-9-----	Acenaphthene	14	U
51-28-5-----	2,4-Dinitrophenol	72	U
100-02-7-----	4-Nitrophenol	72	U
132-64-9-----	Dibenzofuran	14	U
121-14-2-----	2,4-Dinitrotoluene	14	U
84-66-2-----	Diethylphthalate	14	U
7005-72-3-----	4-Chlorophenyl-phenylether	14	U
86-73-7-----	Fluorene	14	U
100-01-6-----	4-Nitroaniline	72	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	72	U
86-30-6-----	N-Nitrosodiphenylamine (1)	14	U
101-55-3-----	4-Bromophenyl-phenylether	14	U
118-74-1-----	Hexachlorobenzene	14	U
87-86-5-----	Pentachlorophenol	72	U
85-01-8-----	Phenanthrene	14	U
120-12-7-----	Anthracene	14	U
84-74-2-----	Di-n-Butylphthalate	14	U
206-44-0-----	Fluoranthene	14	U
129-00-0-----	Pyrene	14	U
85-68-7-----	Butylbenzylphthalate	14	U
91-94-1-----	3,3'-Dichlorobenzidine	29	U
56-55-3-----	Benzo(a)Anthracene	14	U
218-01-9-----	Chrysene	14	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	14	U
117-84-0-----	Di-n-Octyl Phthalate	14	U
205-99-2-----	Benzo(b)Fluoranthene	14	U
207-08-9-----	Benzo(k)Fluoranthene	14	U
50-32-8-----	Benzo(a)Pyrene	14	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	14	U
53-70-3-----	Dibenz(a,h)Anthracene	14	U
191-24-2-----	Benzo(g,h,i)Perylene	14	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

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

Sample wt/vol: 700 (g/mL) ML Lab File ID: 3561W

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
108-95-2-----	Phenol	14	U
111-44-4-----	bis(2-Chloroethyl) Ether	14	U
95-57-8-----	2-Chlorophenol	14	U
541-73-1-----	1,3-Dichlorobenzene	14	U
106-46-7-----	1,4-Dichlorobenzene	14	U
100-51-6-----	Benzyl Alcohol	14	U
95-50-1-----	1,2-Dichlorobenzene	14	U
95-48-7-----	2-Methylphenol	14	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	14	U
106-44-5-----	4-Methylphenol	14	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	14	U
67-72-1-----	Hexachloroethane	14	U
98-95-3-----	Nitrobenzene	14	U
78-59-1-----	Isophorone	14	U
88-75-5-----	2-Nitrophenol	14	U
105-67-9-----	2,4-Dimethylphenol	14	U
65-85-0-----	Benzoic Acid	72	U
111-91-1-----	bis(2-Chloroethoxy) Methane	14	U
120-83-2-----	2,4-Dichlorophenol	14	U
120-82-1-----	1,2,4-Trichlorobenzene	14	U
91-20-3-----	Naphthalene	14	U
106-47-8-----	4-Chloroaniline	14	U
87-68-3-----	Hexachlorobutadiene	14	U
59-50-7-----	4-Chloro-3-Methylphenol	14	U
91-57-6-----	2-Methylnaphthalene	14	U
77-47-4-----	Hexachlorocyclopentadiene	14	U
88-06-2-----	2,4,6-Trichlorophenol	14	U
95-95-4-----	2,4,5-Trichlorophenol	72	U
91-58-7-----	2-Chloronaphthalene	14	U
88-74-4-----	2-Nitroaniline	72	U
131-11-3-----	Dimethyl Phthalate	14	U
208-96-8-----	Acenaphthylene	14	U
606-20-2-----	2,6-Dinitrotoluene	14	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

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

Sample wt/vol: 700 (g/mL) ML Lab File ID: 3561W

Level: (low/med) LOW Date Received: 11/29/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

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

CAS NO.	COMPOUND		
99-09-2-----	3-Nitroaniline	72	U
83-32-9-----	Acenaphthene	14	U
51-28-5-----	2,4-Dinitrophenol	72	U
100-02-7-----	4-Nitrophenol	72	U
132-64-9-----	Dibenzofuran	14	U
121-14-2-----	2,4-Dinitrotoluene	14	U
84-66-2-----	Diethylphthalate	14	U
7005-72-3-----	4-Chlorophenyl-phenylether	14	U
86-73-7-----	Fluorene	14	U
100-01-6-----	4-Nitroaniline	72	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	72	U
86-30-6-----	N-Nitrosodiphenylamine (1)	14	U
101-55-3-----	4-Bromophenyl-phenylether	14	U
118-74-1-----	Hexachlorobenzene	14	U
87-86-5-----	Pentachlorophenol	72	U
85-01-8-----	Phenanthrene	14	U
120-12-7-----	Anthracene	14	U
84-74-2-----	Di-n-Butylphthalate	14	U
206-44-0-----	Fluoranthene	14	U
129-00-0-----	Pyrene	14	U
85-68-7-----	Butylbenzylphthalate	14	U
91-94-1-----	3,3'-Dichlorobenzidine	29	U
56-55-3-----	Benzo(a)Anthracene	14	U
218-01-9-----	Chrysene	14	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	14	U
117-84-0-----	Di-n-Octyl Phthalate	14	U
205-99-2-----	Benzo(b)Fluoranthene	14	U
207-08-9-----	Benzo(k)Fluoranthene	14	U
50-32-8-----	Benzo(a)Pyrene	14	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	14	U
53-70-3-----	Dibenz(a,h)Anthracene	14	U
191-24-2-----	Benzo(g,h,i)Perylene	14	U

(1) - Cannot be separated from Diphenylamine

PCB/PESTICIDE DATA



RECRA ENVIRONMENTAL, INC.

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE NO. MW-1

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/19/90

COMPOUND (Units of Measure = UG/L)	RESULT	Q
Aldrin	0.08	U
alpha-BHC	0.08	U
beta-BHC	0.08	U
gamma-BHC	0.08	U
delta-BHC	0.08	U
Chlordane	0.2	U
4,4'-DDD	0.2	U
4,4'-DDE	0.2	U
4,4'-DDT	0.2	U
Dieldrin	0.2	U
Endosulfan I	0.08	U
Endosulfan II	0.2	U
Endosulfan Sulfate	0.2	U
Endrin	0.2	U
Endrin aldehyde	0.2	U
Endrin ketone	0.2	U
Heptachlor	0.08	U
Heptachlor epoxide	0.08	U
Methoxychlor	0.8	U
Toxaphene	2.0	U
Aroclor 1016	0.8	U
Aroclor 1221	0.8	U
Aroclor 1232	0.8	U
Aroclor 1242	0.8	U
Aroclor 1248	0.8	U
Aroclor 1254	1.6	U
Aroclor 1260	1.6	U

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/19/90

SAMPLE NO. MW-1

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchloredate	244	

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

SAMPLE NO. MW-2

COMPOUND (Units of Measure = UG/L)	RESULT	Q
Aldrin	0.08	U
alpha-BHC	0.08	U
beta-BHC	0.08	U
gamma-BHC	0.08	U
delta-BHC	0.08	U
Chlordane	0.8	U
4,4'-DDD	0.14	U
4,4'-DDE	0.14	U
4,4'-DDT	0.14	U
Dieldrin	0.14	U
Endosulfan I	0.08	U
Endosulfan II	0.14	U
Endosulfan Sulfate	0.14	U
Endrin	0.14	U
Endrin aldehyde	0.14	U
Endrin ketone	0.14	U
Heptachlor	0.08	U
Heptachlor epoxide	0.08	U
Methoxychlor	0.8	U
Toxaphene	1.4	U
Aroclor 1016	0.8	U
Aroclor 1221	0.8	U
Aroclor 1232	0.8	U
Aroclor 1242	0.8	U
Aroclor 1248	0.8	U
Aroclor 1254	1.4	U
Aroclor 1260	1.4	U

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE NO. MW-2

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchloroendate	78	

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE NO. MW-3

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

COMPOUND (Units of Measure = UG/L)	RESULT	Q
Aldrin	0.08	U
alpha-BHC	0.08	U
beta-BHC	0.08	U
gamma-BHC	0.08	U
delta-BHC	0.08	U
Chlordane	0.8	U
4,4'-DDD	0.14	U
4,4'-DDE	0.14	U
4,4'-DDT	0.14	U
Dieldrin	0.14	U
Endosulfan I	0.08	U
Endosulfan II	0.14	U
Endosulfan Sulfate	0.14	U
Endrin	0.14	U
Endrin aldehyde	0.14	U
Endrin ketone	0.14	U
Heptachlor	0.08	U
Heptachlor epoxide	0.08	U
Methoxychlor	0.8	U
Toxaphene	1.4	U
Aroclor 1016	0.8	U
Aroclor 1221	0.8	U
Aroclor 1232	0.8	U
Aroclor 1242	0.8	U
Aroclor 1248	0.8	U
Aroclor 1254	1.4	U
Aroclor 1260	1.4	U

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE NO. MW-3

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchloredate	56	

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE NO. MW-4

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

COMPOUND (Units of Measure = UG/L)	RESULT	Q
Aldrin	0.08	U
alpha-BHC	0.08	U
beta-BHC	0.08	U
gamma-BHC	0.08	U
delta-BHC	0.08	U
Chlordane	0.8	U
4,4'-DDD	0.14	U
4,4'-DDE	0.14	U
4,4'-DDT	0.14	U
Dieldrin	0.14	U
Endosulfan I	0.08	U
Endosulfan II	0.14	U
Endosulfan Sulfate	0.14	U
Endrin	0.14	U
Endrin aldehyde	0.14	U
Endrin ketone	0.14	U
Heptachlor	0.08	U
Heptachlor epoxide	0.08	U
Methoxychlor	0.8	U
Toxaphene	1.4	U
Aroclor 1016	0.8	U
Aroclor 1221	0.8	U
Aroclor 1232	0.8	U
Aroclor 1242	0.8	U
Aroclor 1248	0.8	U
Aroclor 1254	1.4	U
Aroclor 1260	1.4	U

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

SAMPLE NO. MW-4

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchloredate	66	

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE NO. FIELD BLANK

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

COMPOUND (Units of Measure = UG/L)	RESULT	Q
Aldrin	0.08	U
alpha-BHC	0.08	U
beta-BHC	0.08	U
gamma-BHC	0.08	U
delta-BHC	0.08	U
Chlordane	0.8	U
4,4'-DDD	0.14	U
4,4'-DDE	0.14	U
4,4'-DDT	0.14	U
Dieldrin	0.14	U
Endosulfan I	0.08	U
Endosulfan II	0.14	U
Endosulfan Sulfate	0.14	U
Endrin	0.14	U
Endrin aldehyde	0.14	U
Endrin ketone	0.14	U
Heptachlor	0.08	U
Heptachlor epoxide	0.08	U
Methoxychlor	0.8	U
Toxaphene	1.4	U
Aroclor 1016	0.8	U
Aroclor 1221	0.8	U
Aroclor 1232	0.8	U
Aroclor 1242	0.8	U
Aroclor 1248	0.8	U
Aroclor 1254	1.4	U
Aroclor 1260	1.4	U

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

SAMPLE NO. FIELD BLANK

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchlorendate	59	

METALS DATA



RECRA ENVIRONMENTAL, INC.

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	12/06/90	0.49	
Total Antimony	MG/L	7040	12/04/90	0.01	U
Total Arsenic	MG/L	7060	12/04/90	0.005	U
Total Barium	MG/L	6010	12/06/90	0.16	
Total Beryllium	MG/L	7090	12/04/90	0.005	U
Total Cadmium	MG/L	6010	12/06/90	0.005	U
Total Calcium	MG/L	6010	12/06/90	110	
Total Chromium	MG/L	6010	12/06/90	0.01	U
Total Cobalt	MG/L	6010	12/06/90	0.02	U
Total Copper	MG/L	6010	12/06/90	0.01	U
Total Iron	MG/L	6010	12/06/90	0.8	
Total Lead	MG/L	7421	12/04/90	0.003	U
Total Magnesium	MG/L	6010	12/06/90	37	
Total Manganese	MG/L	6010	12/06/90	0.23	
Total Mercury	MG/L	7470	12/06/90	0.0004	U
Total Nickel	MG/L	6010	12/06/90	0.03	U
Total Potassium	MG/L	6010	12/06/90	2.8	
Total Selenium	MG/L	7740	12/04/90	0.005	U
Total Silver	MG/L	6010	12/06/90	0.005	U
Total Sodium	MG/L	6010	12/06/90	236	
Total Thallium	MG/L	7841	12/04/90	0.006	U
Total Vanadium	MG/L	6010	12/06/90	0.03	U
Total Zinc	MG/L	6010	12/06/90	0.022	

LEICA PROJECT
AQUEOUS MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/03/90

SAMPLE NO. MW-1

COMPOUND (Units of Measure = MG/L)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	12/03/90	0.01	U

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-2

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	12/06/90	17	
Total Antimony	MG/L	7040	12/04/90	0.01	U
Total Arsenic	MG/L	7060	12/04/90	0.006	
Total Barium	MG/L	6010	12/06/90	0.17	
Total Beryllium	MG/L	7090	12/04/90	0.005	U
Total Cadmium	MG/L	6010	12/06/90	0.005	U
Total Calcium	MG/L	6010	12/06/90	152	
Total Chromium	MG/L	6010	12/05/90	0.026	
Total Cobalt	MG/L	6010	12/06/90	0.02	U
Total Copper	MG/L	6010	12/06/90	0.035	
Total Iron	MG/L	6010	12/06/90	24	
Total Lead	MG/L	7421	12/04/90	0.028	
Total Magnesium	MG/L	6010	12/06/90	27	
Total Manganese	MG/L	6010	12/06/90	0.35	
Total Mercury	MG/L	7470	12/06/90	0.0004	U
Total Nickel	MG/L	6010	12/06/90	0.042	
Total Potassium	MG/L	6010	12/06/90	4.8	
Total Selenium	MG/L	7740	12/04/90	0.005	U
Total Silver	MG/L	6010	12/06/90	0.005	U
Total Sodium	MG/L	6010	12/06/90	10	
Total Thallium	MG/L	7841	12/04/90	0.006	U
Total Vanadium	MG/L	6010	12/06/90	0.03	U
Total Zinc	MG/L	6010	12/06/90	0.18	

LEICA PROJECT
AQUEOUS MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/03/90

SAMPLE NO. MW-2

COMPOUND (Units of Measure = MG/L)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	12/03/90	0.01	U

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-3

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	12/06/90	2.5	
Total Antimony	MG/L	7040	12/04/90	0.01	U
Total Arsenic	MG/L	7060	12/04/90	0.005	U
Total Barium	MG/L	6010	12/06/90	0.12	
Total Beryllium	MG/L	7090	12/04/90	0.005	U
Total Cadmium	MG/L	6010	12/06/90	0.005	U
Total Calcium	MG/L	6010	12/06/90	111	
Total Chromium	MG/L	6010	12/06/90	0.01	U
Total Cobalt	MG/L	6010	12/06/90	0.02	U
Total Copper	MG/L	6010	12/06/90	0.01	U
Total Iron	MG/L	6010	12/06/90	3.5	
Total Lead	MG/L	7421	12/04/90	0.005	
Total Magnesium	MG/L	6010	12/06/90	94	
Total Manganese	MG/L	6010	12/06/90	0.39	
Total Mercury	MG/L	7470	12/06/90	0.0017	
Total Nickel	MG/L	6010	12/06/90	0.03	U
Total Potassium	MG/L	6010	12/06/90	3.4	
Total Selenium	MG/L	7740	12/04/90	0.005	U
Total Silver	MG/L	6010	12/06/90	0.005	U
Total Sodium	MG/L	6010	12/06/90	89	
Total Thallium	MG/L	7841	12/04/90	0.006	U
Total Vanadium	MG/L	6010	12/06/90	0.03	U
Total Zinc	MG/L	6010	12/06/90	0.048	

LEICA PROJECT
AQUEOUS MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/03/90

SAMPLE NO. MW-3

COMPOUND (Units of Measure = MG/L)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	12/03/90	0.01	U

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-4

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	12/06/90	0.31	
Total Antimony	MG/L	7040	12/04/90	0.01	U
Total Arsenic	MG/L	7060	12/04/90	0.005	U
Total Barium	MG/L	6010	12/06/90	0.44	
Total Beryllium	MG/L	7090	12/04/90	0.005	U
Total Cadmium	MG/L	6010	12/06/90	0.005	U
Total Calcium	MG/L	6010	12/06/90	86	
Total Chromium	MG/L	6010	12/06/90	0.01	U
Total Cobalt	MG/L	6010	12/06/90	0.02	U
Total Copper	MG/L	6010	12/06/90	0.01	U
Total Iron	MG/L	6010	12/06/90	0.7	
Total Lead	MG/L	7421	12/04/90	0.003	U
Total Magnesium	MG/L	6010	12/06/90	46	
Total Manganese	MG/L	6010	12/06/90	0.17	
Total Mercury	MG/L	7470	12/06/90	0.0004	U
Total Nickel	MG/L	6010	12/06/90	0.03	U
Total Potassium	MG/L	6010	12/06/90	16	
Total Selenium	MG/L	7740	12/04/90	0.005	U
Total Silver	MG/L	6010	12/06/90	0.005	U
Total Sodium	MG/L	6010	12/06/90	178	
Total Thallium	MG/L	7841	12/04/90	0.005	U
Total Vanadium	MG/L	6010	12/06/90	0.03	U
Total Zinc	MG/L	6010	12/06/90	0.03	

LEICA PROJECT
AQUEOUS MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/03/90

SAMPLE NO. MW-4

COMPOUND (Units of Measure = MG/L)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	12/03/90	0.01	U

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. FIELD BLANK

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	12/06/90	0.05	U
Total Antimony	MG/L	7040	12/04/90	0.01	U
Total Arsenic	MG/L	7060	12/04/90	0.005	U
Total Barium	MG/L	6010	12/06/90	0.05	U
Total Beryllium	MG/L	7090	12/04/90	0.005	U
Total Cadmium	MG/L	6010	12/06/90	0.005	U
Total Calcium	MG/L	6010	12/06/90	0.3	U
Total Chromium	MG/L	6010	12/06/90	0.01	U
Total Cobalt	MG/L	6010	12/06/90	0.02	U
Total Copper	MG/L	6010	12/06/90	0.01	U
Total Iron	MG/L	6010	12/06/90	0.021	U
Total Lead	MG/L	7421	12/04/90	0.003	U
Total Magnesium	MG/L	6010	12/06/90	0.2	U
Total Manganese	MG/L	6010	12/06/90	0.005	U
Total Mercury	MG/L	7470	12/06/90	0.0004	U
Total Nickel	MG/L	6010	12/06/90	0.03	U
Total Potassium	MG/L	6010	12/06/90	0.3	U
Total Selenium	MG/L	7740	12/04/90	0.005	U
Total Silver	MG/L	6010	12/06/90	0.005	U
Total Sodium	MG/L	6010	12/06/90	0.56	U
Total Thallium	MG/L	7841	12/04/90	0.005	U
Total Vanadium	MG/L	6010	12/06/90	0.03	U
Total Zinc	MG/L	6010	12/06/90	0.01	U

LEICA PROJECT
AQUEOUS MATRIX
SOLUBLE METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90
EXTRACTION DATE 12/03/90

SAMPLE NO. FIELD BLANK

COMPOUND (Units of Measure = MG/L)	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Hexavalent Chromium	7195	12/03/90	0.01	U

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. SSW-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/L	7130	12/03/90	0.012	
Total Chromium	MG/L	7190	12/03/90	0.024	
Total Nickel	MG/L	7520	12/03/90	0.16	
Total Zinc	MG/L	7950	12/03/90	0.16	

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. SSW-2

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/L	7130	12/03/90	0.014	
Total Chromium	MG/L	7190	12/03/90	0.023	
Total Nickel	MG/L	7520	12/03/90	0.06	
Total Zinc	MG/L	7950	12/03/90	0.049	

WATER QUALITY DATA



RECRA ENVIRONMENTAL, INC.

LEICA PROJECT
AQUEOUS MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	mg/l	9010	12/11/90	0.01	U
Total Rec. Petro. Hydrocarbons	mg/l	418.1	12/14/90	0.5	U

LEICA PROJECT
AQUEOUS MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-2

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	mg/l	9010	12/11/90	0.01	U
Total Rec. Petro. Hydrocarbons	mg/l	418.1	12/14/90	0.5	U

LEICA PROJECT
AQUEOUS MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-3

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	mg/l	9010	12/11/90	0.01	U
Total Rec. Petro. Hydrocarbons	mg/l	418.1	12/14/90	0.5	U

LEICA PROJECT
AQUEOUS MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. MW-4

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	mg/l	9010	12/11/90	0.01	U
Total Rec. Petro. Hydrocarbons	mg/l	418.1	12/14/90	0.5	U

LEICA PROJECT
AQUEOUS MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468

SAMPLE DATE 11/29/90

SAMPLE NO. FIELD BLANK

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	mg/l	9010	12/11/90	0.01	U
Total Rec. Petro. Hydrocarbons	mg/l	418.1	12/14/90	0.5	U

METHOD BLANK DATA



RECRA ENVIRONMENTAL, INC.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-149
Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____
Lab File ID: 251E Lab Sample ID: VBLK86
Date Analyzed: 11/30/90 Time Analyzed: 1150
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: 51E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	FIELDBLANK	FIELDBLANK	256E	1452
02	MW1	MW1	257E	1528
03	MW2	MW2	258E	1606
04	MW3	MW3	259E	1640
05	MW4	MW4	260E	1715
06	TRIPBLANK	TRIPBLANK	255E	1417
07	MW1MSD	MW1MSD	263E	2102

COMMENTS: VBLK86
51E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK86

Lab Name: RECRA ENVIRON Contract: NY91-149
 Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: VBLK86
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 251E
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 11/30/90
 Column: (pack/cap) PACK Dilution Factor: 1.0

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
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)	5	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	5	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	0.2	J
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	0.1	J
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	0.2	J
108-90-7	-----Chlorobenzene	0.3	J
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-149
Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____
Lab File ID: 276E Lab Sample ID: VBK87
Date Analyzed: 12/01/90 Time Analyzed: 0950
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: 51E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	TIME ANALYZED =====
01	MW4DL	MW4DL	278E	1105
02	MW1MS	MW1MS	277E	1030

COMMENTS: VBLK 87
51E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK87

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: VBLK87

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 276E

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

% Moisture: not dec. _____ Date Analyzed: 12/01/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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
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)	5	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	5	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	0.8	J
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
1330-20-7	Total Xylenes	5	U

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-149
 Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____
 Lab File ID: 3560W Lab Sample ID: SBLK46
 Date Extracted: 12/05/90 Extraction: (SepF/Cont/Sonc) SEPF
 Date Analyzed: 12/07/90 Time Analyzed: 1839
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: I50W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	DATE ANALYZED =====
01	FIELDBLANK	FIELDBLANK	3561W	12/07/90
02	MW-1	MW-1	3562W	12/07/90
03	MW-2	MW-2	3565W	12/07/90
04	MW-3	MW-3	3566W	12/07/90
05	MW-4	MW-4	3567W	12/08/90
06	MW-1MS	MW-1MS	3563W	12/07/90
07	MW-1MSD	MW-1MSD	3564W	12/07/90

COMMENTS: SBLK46 JOB2468
AUTOSAMPLR I50W

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK46

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: SBLK46

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

Lab File ID: 3560W

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____ dec. _____

Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.0

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

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
100-51-6-----	Benzyl Alcohol	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic Acid	50	U
111-91-1-----	bis(2-Chloroethoxy) Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethyl Phthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK46

Lab Name: RECRA ENVIRON Contract: NY91-149

Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: SBLK46

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 3560W

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

% Moisture: not dec. _____ dec. _____ Date Extracted: 12/05/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/07/90

GPC Cleanup: (Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

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

99-09-2-----3-Nitroaniline	50	U
83-32-9-----Acenaphthene	10	U
51-28-5-----2,4-Dinitrophenol	50	U
100-02-7-----4-Nitrophenol	50	U
132-64-9-----Dibenzofuran	10	U
121-14-2-----2,4-Dinitrotoluene	10	U
84-66-2-----Diethylphthalate	10	U
7005-72-3-----4-Chlorophenyl-phenylether	10	U
86-73-7-----Fluorene	10	U
100-01-6-----4-Nitroaniline	50	U
534-52-1-----4,6-Dinitro-2-Methylphenol	50	U
86-30-6-----N-Nitrosodiphenylamine (1)	10	U
101-55-3-----4-Bromophenyl-phenylether	10	U
118-74-1-----Hexachlorobenzene	10	U
87-86-5-----Pentachlorophenol	50	U
85-01-8-----Phenanthrene	10	U
120-12-7-----Anthracene	10	U
84-74-2-----Di-n-Butylphthalate	10	U
206-44-0-----Fluoranthene	10	U
129-00-0-----Pyrene	10	U
85-68-7-----Butylbenzylphthalate	10	U
91-94-1-----3,3'-Dichlorobenzidine	20	U
56-55-3-----Benzo(a)Anthracene	10	U
218-01-9-----Chrysene	10	U
117-81-7-----Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----Di-n-Octyl Phthalate	10	U
205-99-2-----Benzo(b)Fluoranthene	10	U
207-08-9-----Benzo(k)Fluoranthene	10	U
50-32-8-----Benzo(a)Pyrene	10	U
193-39-5-----Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----Dibenz(a,h)Anthracene	10	U
191-24-2-----Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB'S

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468
DESC METHOD BLANK
SAMPLE NO. MB-1

EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

COMPOUND (Units of Measure = UG/L)	RESULT	Q
Aldrin	0.05	U
alpha-BHC	0.05	U
beta-BHC	0.05	U
gamma-BHC	0.05	U
delta-BHC	0.05	U
Chlordane	0.5	U
4,4'-DDD	0.1	U
4,4'-DDE	0.1	U
4,4'-DDT	0.1	U
Dieldrin	0.1	U
Endosulfan I	0.05	U
Endosulfan II	0.1	U
Endosulfan Sulfate	0.1	U
Endrin	0.1	U
Endrin aldehyde	0.1	U
Endrin ketone	0.1	U
Heptachlor	0.05	U
Heptachlor epoxide	0.05	U
Methoxychlor	0.5	U
Toxaphene	1.0	U
Aroclor 1016	0.5	U
Aroclor 1221	0.5	U
Aroclor 1232	0.5	U
Aroclor 1242	0.5	U
Aroclor 1248	0.5	U
Aroclor 1254	1.0	U
Aroclor 1260	1.0	U

LEICA PROJECT
AQUEOUS MATRIX
METHOD 8080 - ORGANOCHLORINE PESTICIDES
PCB SURROGATE RECOVERY

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468
DESC METHOD BLANK
SAMPLE NO. MB-1

EXTRACTION DATE 12/05/90
ANALYSIS DATE 12/07/90

COMPOUND	RESULT	Q
Surrogates		
(%Recovery) Dibutylchloroendate	79	

LEICA PROJECT
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468
DESC METHOD BLANK
SAMPLE NO. MB-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	12/06/90	0.05	U
Total Antimony	MG/L	7040	12/04/90	0.01	U
Total Arsenic	MG/L	7060	12/04/90	0.005	U
Total Barium	MG/L	6010	12/06/90	0.05	U
Total Beryllium	MG/L	7090	12/04/90	0.005	U
Total Cadmium	MG/L	6010	12/06/90	0.005	U
Total Calcium	MG/L	6010	12/06/90	0.3	U
Total Chromium	MG/L	6010	12/06/90	0.01	U
Total Cobalt	MG/L	6010	12/06/90	0.02	U
Total Copper	MG/L	6010	12/06/90	0.01	U
Total Iron	MG/L	6010	12/06/90	0.02	U
Total Lead	MG/L	7421	12/04/90	0.003	U
Total Magnesium	MG/L	6010	12/06/90	0.2	U
Total Manganese	MG/L	6010	12/06/90	0.005	U
Total Mercury	MG/L	7470	12/06/90	0.0004	U
Total Nickel	MG/L	6010	12/06/90	0.03	U
Total Potassium	MG/L	6010	12/06/90	0.3	U
Total Selenium	MG/L	7740	12/04/90	0.005	U
Total Silver	MG/L	6010	12/06/90	0.005	U
Total Sodium	MG/L	6010	12/06/90	0.3	U
Total Thallium	MG/L	7841	12/04/90	0.005	U
Total Vanadium	MG/L	6010	12/06/90	0.03	U
Total Zinc	MG/L	6010	12/06/90	0.01	U

LEICA PROJECT
AQUEOUS MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2468
DESC METHOD BLANK
SAMPLE NO. MB-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cyanide	mg/l	9010	12/11/90	0.01	U
Total Rec. Petro. Hydrocarbons	mg/l	418.1	12/14/90	0.5	U

QC SUMMARY



RECRA ENVIRONMENTAL, INC.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRONContract: NY91-149Lab Code: RECNYCase No.: 2468

SAS No.: _____

SDG No.: _____

Matrix Spike - EPA Sample No.: MW1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC =	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	50.9	102	61-145
Trichloroethene	50.0	0	48.8	98	71-120
Benzene	50.0	0	48.8	98	76-127
Toluene	50.0	0	48.0	96	76-125
Chlorobenzene	50.0	0	51.4	103	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50.0	47.9	96	6	14	61-145
Trichloroethene	50.0	56.1	112	-13	14	71-120
Benzene	50.0	47.1	94	4	11	76-127
Toluene	50.0	48.9	98	-2	13	76-125
Chlorobenzene	50.0	54.6	109	-6	13	75-130

= Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 10 outside limitsCOMMENTS: MW1 JOB2468
51E

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRONContract: NY91-149Lab Code: RECNYCase No.: 2468

SAS No.: _____

SDG No.: _____

Matrix Spike - EPA Sample No.: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	308	0	123	40	12- 86
2-Chlorophenol	308	0	169	55	27-123
1,4-Dichlorobenzene	154	0	88.4	57	36 97
N-Nitroso-di-n-prop. (1)	154	0	80.2	52	41 116
1,2,4-Trichlorobenzene	154	0	113	73	39 98
4-Chloro-3-methylphenol	308	0	217	70	23 97
Acenaphthene	154	0	84.1	55	46-118
4-Nitrophenol	308	0	49.7	16	10- 80
2,4-Dinitrotoluene	154	0	119	77	24- 96
Pentachlorophenol	308	0	17.7	6 *	9-103
Pyrene	154	0	142	92	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	308	126	41	-2	42 12- 86
2-Chlorophenol	308	211	69	-23	40 27-123
1,4-Dichlorobenzene	154	107	69	-19	28 36 97
N-Nitroso-di-n-prop. (1)	154	89.9	58	-11	38 41 116
1,2,4-Trichlorobenzene	154	143	93	-24	28 39 98
4-Chloro-3-methylphenol	308	242	79	-12	42 23 97
Acenaphthene	154	97.3	63	-14	31 46-118
4-Nitrophenol	308	46.7	15	6	50 10- 80
2,4-Dinitrotoluene	154	137	89	-14	38 24- 96
Pentachlorophenol	308	39.3	13	-74 *	50 9-103
Pyrene	154	160	104	-12	31 26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 11 outside limitsSpike Recovery: 1 out of 22 outside limitsCOMMENTS: MW1 JOB2468 AP8419/20
AUTOSAMPLR I50W

QUALITY CONTROL INFORMATION - ACCURACY
AQUEOUS MATRIX
METHOD 8080 - HAZARDOUS SUBSTANCE LIST ORGANOCHLORINE PESTICIDES/PCB'S

SAMPLE IDENTIFICATION MW-1

COMPOUND	NANOGRAMS OF SPIKE	MATRIX SPIKE PERCENT RECOVERY	MATRIX SPIKE DUPLICATE PERCENT RECOVERY
Aldrin	0.20	120	105
Gamma-BHC	0.20	105	90
4,4'-DDT	0.20	174	156
Endrin	0.20	140	118
Heptachlor	0.20	120	100
Dieldrin	0.20	112	94
<u>Surrogate</u> (% Recovery)			
Dibutylchlorendate		174	134
Extraction Date		12/5/90	12/5/90
Analysis Date		12/19/90	12/19/90

1/17233.6

QUALITY CONTROL INFORMATION - PRECISION
AQUEOUS MATRIX
TOTAL METALS

PARAMETER (Units of Measure = mg/l)	METHOD NUMBER	SAMPLE IDENTIFICATION	VALUE 1	Q	VALUE 2	Q	MEAN	Q	STANDARD DEVIATION
Total Aluminum	6010	MW-1	0.49		0.48		0.49		0.0071
Total Antimony	7040		0.010	U	0.010	U	0.010	U	-
Total Arsenic	7060		0.005	U	0.005	U	0.005	U	-
Total Barium	6010		0.16		0.15		0.16		0.0071
Total Beryllium	7090		0.005	U	0.005	U	0.005	U	-
Total Cadmium	6010		0.005	U	0.005	U	0.005	U	-
Total Calcium	6010		110		110		110		0
Total Chromium	6010		0.010	U	0.010	U	0.010	U	-
Total Cobalt	6010		0.020	U	0.020	U	0.020	U	-
Total Copper	6010		0.010	U	0.010	U	0.010	U	-
Total Iron	6010		1.0		0.60		0.80		0.28
Total Lead	7421		0.003	U	0.003	U	0.003	U	-
Total Magnesium	6010		36.3		37.7		37.0		0.99
Total Manganese	6010		0.20		0.25		0.23		0.035
Total Mercury	7470		0.0004	U	0.0004	U	0.0004	U	-
Total Nickel	6010		0.030	U	0.030	U	0.030	U	-
Total Potassium	6010		2.6		2.9		2.8		0.21
Total Selenium	7740		0.005	U	0.005	U	0.005	U	-
Total Silver	6010		0.005	U	0.005	U	0.005	U	-
Total Sodium	6010		234		238		236		2.8
Total Thallium	7841		0.006	U	0.006	U	0.006	U	-
Total Vanadium	6010		0.030	U	0.030	U	0.030	U	-
Total Zinc	6010		0.029		0.014		0.022		0.011

I.D. #90-2468

QUALITY CONTROL INFORMATION - ACCURACY
 AQUEOUS MATRIX
 TOTAL METALS

PARAMETER	METHOD NUMBER	SAMPLE IDENTIFICATION	MICROGRAMS OF SPIKE	PERCENT RECOVERY
Total Aluminum	6010	MW-1 *	5,000	98
Total Antimony	7040		100	90
Total Arsenic	7060		100	100
Total Barium	6010		5,000	93
Total Beryllium	7090		1,000	94
Total Cadmium	6010		2,500	91
Total Calcium	6010		50,000	93
Total Chromium	6010		5,000	92
Total Cobalt	6010		5,000	93
Total Copper	6010		5,000	93
Total Iron	6010		5,000	93
Total Lead	7421		100	98
Total Magnesium	6010		50,000	95
Total Manganese	6010		5,000	93
Total Mercury	7470		0.4	99
Total Nickel	6010		5,000	94
Total Potassium	6010		50,000	99
Total Selenium	7740		100	94
Total Silver	6010		1,000	101
Total Sodium	6010		50,000	101
Total Thallium	7841		100	114
Total Vanadium	6010		5,000	93
Total Zinc	6010		5,000	92

* Spike added following digestion.

QUALITY CONTROL INFORMATION - ACCURACY
AQUEOUS MATRIX
TOTAL METALS

PARAMETER	METHOD NUMBER	SAMPLE IDENTIFICATION	MICROGRAMS OF SPIKE	PERCENT RECOVERY
Total Aluminum	6010	MW-1 *	2,000	99
Total Antimony	7040		50	46
Total Arsenic	7060		20	85
Total Barium	6010		2,000	98
Total Beryllium	7090		50	94
Total Cadmium	6010		50	92
Total Calcium	6010			**
Total Chromium	6010		200	76
Total Cobalt	6010		500	74
Total Copper	6010		250	78
Total Iron	6010		1,000	58
Total Lead	7421		500	86
Total Magnesium	6010			**
Total Manganese	6010		500	40
Total Mercury	7470		0.4	99
Total Nickel	6010		500	61
Total Potassium	6010			**
Total Selenium	7740		10	0
Total Silver	6010			**
Total Sodium	6010		100,000	91
Total Thallium	7841		50	54
Total Vanadium	6010		500	75
Total Zinc	6010		200	70

* Spike added prior to digestion.

** Spiking compound was inadvertently omitted from the pre-spike.

1/17233.5

QUALITY CONTROL INFORMATION - PRECISION
AQUEOUS MATRIX
SOLUBLE METALS

COMPOUND (Units of Measure = mg/l)	METHOD NUMBER	SAMPLE IDENTIFICATION	VALUE 1	Q	VALUE 2	Q	MEAN	Q	STANDARD DEVIATION
Hexavalent Chromium	7195	MW-1	0.010	U	0.010	U	0.010	U	-

QUALITY CONTROL INFORMATION - ACCURACY
AQUEOUS MATRIX
SOLUBLE METALS

PARAMETER	METHOD NUMBER	SAMPLE IDENTIFICATION	MICROGRAMS OF SPIKE	PERCENT RECOVERY
Hexavalent Chromium	7195	MW-1 *	1,000	82

* Spike added following digestion.

1/17233.8

QUALITY CONTROL INFORMATION - PRECISION
AQUEOUS MATRIX
WATER QUALITY TESTING

PARAMETER	METHOD NUMBER	UNITS OF MEASURE	SAMPLE IDENTIFICATION	VALUE 1	Q	VALUE 2	Q	MEAN	Q	STANDARD DEVIATION
Total Cyanide	9010	mg/l	MW-1	0.01	U	0.01	U	0.01	U	-
Total Recoverable Petroleum Hydrocarbons	418.1	mg/l		0.5	U	0.5	U	0.5	U	-

QUALITY CONTROL INFORMATION - ACCURACY
AQUEOUS MATRIX
WATER QUALITY TESTING

PARAMETER	METHOD NUMBER	SAMPLE IDENTIFICATION	MICROGRAMS OF SPIKE	PERCENT RECOVERY
Total Cyanide	9010	MW-1	50	93
Total Recoverable Petroleum Hydrocarbons	418.1		2.0 *	100

* Parts per million (ppm).

SURROGATE RECOVERY DATA



RECRA ENVIRONMENTAL, INC.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	FIELD BLANK	100	102	94	0	0
02	MW1	98	99	97	0	0
03	MW2	97	99	94	0	0
04	MW3	96	99	98	0	0
05	MW4	98	95	91	0	0
06	TRIP BLANK	98	100	95	0	0
07	MW4DL	99	99	98	0	0
08	MW1MS	99	98	98	0	0
09	MW1MSD	94	93	92	0	0
10	VBLK86	101	98	98	0	0
11	VBLK87	100	100	99	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)

S2 (BFB) = Bromofluorobenzene (86-115)

S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON

Contract: NY91-149

Lab Code: RECNY

Case No.: 2468

SAS No.: _____

SDG No.: _____

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	FIELD BLANK	68	86	99	31	36	78	0	0
02	MW-1	70	85	88	37	50	68	0	0
03	MW-2	62	82	83	38	51	114	0	0
04	MW-3	65	81	69	32	46	78	0	0
05	MW-4	46	63	68	39	47	104	0	0
06	MW-1MS	64	78	72	33	42	62	0	0
07	MW-1MSD	73	88	78	38	45	80	0	0
08	SBLK46	66	78	92	26	39	82	0	0

S1 (NBZ) = Nitrobenzene-d5

S2 (FBP) = 2-Fluorobiphenyl

S3 (TPH) = Terphenyl

S4 (PHL) = Phenol-d5

S5 (2FP) = 2-Fluorophenol

S6 (TBP) = 2,4,6-Tribromophenol

QC LIMITS

(35-114)

(43-116)

(33-141)

(10-94)

(21-100)

(10-123)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

INTERNAL STANDARD AREA SUMMARIES



RECREA ENVIRONMENTAL, INC.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-149
 Lab Code: RECNY Case No.: 2468 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 249E Date Analyzed: 11/30/90
 Instrument ID: 51E Time Analyzed: 1024
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	74800	7.78	322000	17.87	298000	22.69
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	149600		644000		596000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	37400		161000		149000	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 FIELDBLANK	72200	7.82	303000	17.87	279000	22.69
02 MW1	67100	7.82	295000	17.90	278000	22.72
03 MW2	70300	7.78	293000	17.90	278000	22.75
04 MW3	66400	7.78	293000	17.87	272000	22.72
05 MW4	72300	7.82	286000	17.87	260000	22.72
06 TRIPBLANK	69200	7.78	297000	17.87	284000	22.72
07 MW1MSD	72300	7.78	300000	17.87	296000	22.72
08 VBLK86	72900	7.78	311000	17.87	285000	22.69

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-149Lab Code: RECNY Case No.: 2468

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 274EDate Analyzed: 12/01/90Instrument ID: 51ETime Analyzed: 0822Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	75200	7.78	332000	17.87	317000	22.69
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	150400		664000		634000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	37600		166000		158500	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MW4DL	71700	7.78	303000	17.87	290000	22.69
02 MW1MS	74000	7.78	317000	17.87	310000	22.72
03 VBLK87	75200	7.78	324000	17.87	306000	22.72

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-149ALab Code: RECNY Case No.: 0120

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 770EDate Analyzed: 01/18/91Instrument ID: 51ETime Analyzed: 0926Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT	AREA #	RT	AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	39900	7.82	168000	17.89	143000	22.74
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	79800		336000		286000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	19950		84000		71500	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MW4	38400	7.82	167000	17.89	142000	22.72
02 MW4MS	39000	7.82	169000	17.89	145000	22.69
03 MW4MSD	37800	7.82	168000	17.89	145000	22.72
04 VBLK13	38500	7.78	169000	17.89	144000	22.69

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-149Lab Code: RECNY Case No.: 2468

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 3555WDate Analyzed: 12/07/90Instrument ID: I50WTime Analyzed: 1432

	IS4 (PHN) AREA #	RT	IS5 (CRY) AREA #	RT	IS6 (PRY) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	9900	23.15	9460	31.46	7930	35.64
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	19800		18920		15860	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	4950		4730		3965	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 FIELDBLANK	13000	23.14	9200	31.42	9590	35.61
02 MW-1	13900	23.14	10900	31.44	11200	35.61
03 MW-2	14400	23.14	11200	31.42	11100	35.61
04 MW-3	14000	23.14	10900	31.42	11400	35.61
05 MW-4	16400	23.14	13300	31.46	12900	35.64
06 MW-1MS	13700	23.14	10400	31.42	10800	35.61
07 MW-1MSD	12700	23.14	10400	31.42	10500	35.61
08 SBLK46	14900	23.14	10900	31.42	10700	35.61

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-149Lab Code: RECNYCase No.: 2468

SAS No.: _____

SDG No.: _____

Lab File ID (Standard): 3555WDate Analyzed: 12/07/90Instrument ID: I50WTime Analyzed: 1432

	IS1 (DCB) AREA #	RT	IS2 (NPT) AREA #	RT	IS3 (ANT) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	3420	9.47	12900	13.14	7280	18.54
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	6840		25800		14560	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	1710		6450		3640	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 FIELDBLANK	4440	9.45	15600	13.12	8540	18.52
02 MW-1	4690	9.45	16900	13.12	9280	18.52
03 MW-2	4930	9.45	17400	13.12	9800	18.52
04 MW-3	4580	9.45	16400	13.12	9270	18.52
05 MW-4	5080	9.45	17900	13.12	10500	18.52
06 MW-1MS	4550	9.45	16700	13.12	9350	18.52
07 MW-1MSD	4450	9.45	15400	13.12	8550	18.52
08 SBLK46	4730	9.45	17000	13.12	9450	18.52

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk

RECEIVED
MAR 02 1993
N. J. DEPT. OF
ENVIRONMENTAL CONSERVATION
REGISTRY

GROUNDWATER MONITORING

JANUARY 1991

ANALYTICAL RESULTS

Prepared For

Leica Project

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodologies employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to the following U.S. Environmental Protection Agency reference.

- o U.S. Environmental Protection Agency "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods". Office of Solid Waste and Emergency Response. November 1986, SW-846, Third Edition.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing USEPA data qualifiers as defined on the Organic and Inorganic Data Comment Pages.



VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

Due to the high concentration of trans-1,2-Dichloroethene, samples MW-4, MW-4 Matrix Spike and MW-4 Matrix Spike Duplicate were analyzed at a dilution factor of 500.



ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.



INORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Inorganic Data Qualifiers:

- B - Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 100).
- E - Indicates a value estimated or not reported due to the presence of interference.
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- + - Indicates the correlation coefficient for method of standard addition is less than 0.995.
- M - Indicates duplicate injection results exceeded control limits.
- W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.



CHAIN OF CUSTODY DOCUMENTATION



RECRA ENVIRONMENTAL, INC.

RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO 002761		SITE NAME Leica, Inc.		NO. OF CONTAINERS		REMARKS											
SAMPLER SIGNATURE Robert E. Stener / J.Y.																	
STATION NO	DATE	TIME	COMP	GRAB	STATION LOCATION												
	1/16/91	1410		X	MW-1	3	1	2								1602 Plastic 0101	
		1226		X	MW-2	3	1	2								Total Metals:	
		1132		X	MW-3	3	1	2								Aluminum	
		1025		X	MW-4	9	3	6								Iron	
					Field Blank	3	1	2								Lead	
					Trip Blank	2		2								Magnesium	
																Manganese	
																Sodium	
																VOA's: 8240 ⁷ HSL	
RELINQUISHED BY (SIGNATURE) Robert E. Stener						DATE / TIME 1/16/91/1519		RECEIVED BY (SIGNATURE) S. Wheeler						DATE / TIME		RECEIVED BY (SIGNATURE)	
RELINQUISHED BY (SIGNATURE)						DATE / TIME		RECEIVED BY (SIGNATURE)						DATE / TIME		RECEIVED BY (SIGNATURE)	
RELINQUISHED BY (SIGNATURE)						DATE / TIME		RECEIVED FOR LABORATORY BY (SIGNATURE) S. Wheeler						DATE / TIME 1/16/91/1519		REMARKS	

VOLATILES DATA



RECRA ENVIRONMENTAL, INC.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1

Lab Name: RECRA ENVIRON Contract: NY91-149A

Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 744E

Level: (low/med) LOW Date Received: 01/16/91

% Moisture: not dec. _____ Date Analyzed: 01/17/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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	6	J
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)	5	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	5	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	1	BJ
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
1330-20-7	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2

Lab Name: RECRA ENVIRON Contract: NY91-149A

Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 745E

Level: (low/med) LOW Date Received: 01/16/91

% Moisture: not dec. _____ Date Analyzed: 01/17/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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
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)	5	
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	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	54	B
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
1330-20-7	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3

Lab Name: RECRA ENVIRON Contract: NY91-149A

Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 746E

Level: (low/med) LOW Date Received: 01/16/91

% Moisture: not dec. _____ Date Analyzed: 01/17/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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	30	
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)	5	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	5	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	1	BJ
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
1330-20-7-----	Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4

Lab Name: RECRA ENVIRON

Contract: NY91-149A

Lab Code: RECNY

Case No.: 0120

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW4

Sample wt/vol: 0.010 (g/mL) ML

Lab File ID: 779E

Level: (low/med) LOW

Date Received: 01/16/91

% Moisture: not dec. _____

Date Analyzed: 01/18/91

Column: (pack/cap) PACK

Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	5000	U
74-83-9-----	Bromomethane	5000	U
75-01-4-----	Vinyl Chloride	12000	
75-00-3-----	Chloroethane	5000	U
75-09-2-----	Methylene Chloride	2500	U
67-64-1-----	Acetone	5000	U
75-15-0-----	Carbon Disulfide	2500	U
75-35-4-----	1,1-Dichloroethene	2500	U
75-34-3-----	1,1-Dichloroethane	2500	U
540-59-0-----	1,2-Dichloroethene (total)	56000	
67-66-3-----	Chloroform	2500	U
107-06-2-----	1,2-Dichloroethane	2500	U
78-93-3-----	2-Butanone	5000	U
71-55-6-----	1,1,1-Trichloroethane	2500	U
56-23-5-----	Carbon Tetrachloride	2500	U
108-05-4-----	Vinyl Acetate	5000	U
75-27-4-----	Bromodichloromethane	2500	U
78-87-5-----	1,2-Dichloropropane	2500	U
10061-01-5-----	cis-1,3-dichloropropene	2500	U
79-01-6-----	Trichloroethene	33000	
124-48-1-----	Dibromochloromethane	2500	U
79-00-5-----	1,1,2-Trichloroethane	2500	U
71-43-2-----	Benzene	2500	U
10061-02-6-----	trans-1,3-dichloropropene	2500	U
75-25-2-----	Bromoform	2500	U
108-10-1-----	4-Methyl-2-Pentanone	5000	U
591-78-6-----	2-Hexanone	5000	U
127-18-4-----	Tetrachloroethene	2500	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2500	U
108-88-3-----	Toluene	2500	U
108-90-7-----	Chlorobenzene	2500	U
100-41-4-----	Ethylbenzene	2500	U
100-42-5-----	Styrene	2500	U
1330-20-7-----	Total Xylenes	2500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4MS

Lab Name: RECRA ENVIRON

Contract: NY91-149A

Lab Code: RECNY

Case No.: 0120

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: MW4MS

Sample wt/vol: 0.010 (g/mL) ML

Lab File ID: 780E

Level: (low/med) LOW

Date Received: 01/16/91

% Moisture: not dec. _____

Date Analyzed: 01/18/91

Column: (pack/cap) PACK

Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	5000	U
74-83-9-----	Bromomethane	5000	U
75-01-4-----	Vinyl Chloride	12000	
75-00-3-----	Chloroethane	5000	U
75-09-2-----	Methylene Chloride	2500	U
67-64-1-----	Acetone	5000	U
75-15-0-----	Carbon Disulfide	2500	U
75-35-4-----	1,1-Dichloroethene	2500	U
75-34-3-----	1,1-Dichloroethane	2500	U
540-59-0-----	1,2-Dichloroethene (total)	55000	
67-66-3-----	Chloroform	2500	U
107-06-2-----	1,2-Dichloroethane	2500	U
78-93-3-----	2-Butanone	5000	U
71-55-6-----	1,1,1-Trichloroethane	2500	U
56-23-5-----	Carbon Tetrachloride	2500	U
108-05-4-----	Vinyl Acetate	5000	U
75-27-4-----	Bromodichloromethane	2500	U
78-87-5-----	1,2-Dichloropropane	2500	U
10061-01-5-----	cis-1,3-dichloropropene	2500	U
79-01-6-----	Trichloroethene	2500	U
124-48-1-----	Dibromochloromethane	2500	U
79-00-5-----	1,1,2-Trichloroethane	2500	U
71-43-2-----	Benzene	2500	U
10061-02-6-----	trans-1,3-dichloropropene	2500	U
75-25-2-----	Bromoform	2500	U
108-10-1-----	4-Methyl-2-Pentanone	5000	U
591-78-6-----	2-Hexanone	5000	U
127-18-4-----	Tetrachloroethene	2500	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2500	U
108-88-3-----	Toluene	2500	U
108-90-7-----	Chlorobenzene	2500	U
100-41-4-----	Ethylbenzene	2500	U
100-42-5-----	Styrene	2500	U
1330-20-7-----	Total Xylenes	2500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4MSD

Lab Name: RECRA ENVIRON Contract: NY91-149A

Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MW4MSD

Sample wt/vol: 0.010 (g/mL) ML Lab File ID: 781E

Level: (low/med) LOW Date Received: 01/16/91

% Moisture: not dec. _____ Date Analyzed: 01/18/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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

74-87-3-----	Chloromethane	5000	U
74-83-9-----	Bromomethane	5000	U
75-01-4-----	Vinyl Chloride	12000	
75-00-3-----	Chloroethane	5000	U
75-09-2-----	Methylene Chloride	2500	U
67-64-1-----	Acetone	5000	U
75-15-0-----	Carbon Disulfide	2500	U
75-35-4-----	1,1-Dichloroethene	2500	U
75-34-3-----	1,1-Dichloroethane	2500	U
540-59-0-----	1,2-Dichloroethene (total)	62000	
67-66-3-----	Chloroform	2500	U
107-06-2-----	1,2-Dichloroethane	2500	U
78-93-3-----	2-Butanone	5000	U
71-55-6-----	1,1,1-Trichloroethane	2500	U
56-23-5-----	Carbon Tetrachloride	2500	U
108-05-4-----	Vinyl Acetate	5000	U
75-27-4-----	Bromodichloromethane	2500	U
78-87-5-----	1,2-Dichloropropane	2500	U
10061-01-5-----	cis-1,3-dichloropropene	2500	U
79-01-6-----	Trichloroethene	2500	U
124-48-1-----	Dibromochloromethane	2500	U
79-00-5-----	1,1,2-Trichloroethane	2500	U
71-43-2-----	Benzene	2500	U
10061-02-6-----	trans-1,3-dichloropropene	2500	U
75-25-2-----	Bromoform	2500	U
108-10-1-----	4-Methyl-2-Pentanone	5000	U
591-78-6-----	2-Hexanone	5000	U
127-18-4-----	Tetrachloroethene	2500	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2500	U
108-88-3-----	Toluene	2500	U
108-90-7-----	Chlorobenzene	2500	U
100-41-4-----	Ethylbenzene	2500	U
100-42-5-----	Styrene	2500	U
1330-20-7-----	Total Xylenes	2500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: RECRA ENVIRON Contract: NY91-149A

Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 742E

Level: (low/med) LOW Date Received: 01/16/91

% Moisture: not dec. _____ Date Analyzed: 01/17/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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
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	8	J
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)	5	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	5	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	0.8	J
10061-01-5	-----cis-1,3-dichloropropene	5	U
79-01-6	-----Trichloroethene	1	BJ
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
1330-20-7	-----Total Xylenes	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: RECRA ENVIRON Contract: NY91-149A

Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 741E

Level: (low/med) LOW Date Received: 01/16/91

% Moisture: not dec. _____ Date Analyzed: 01/17/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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)	5	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	5	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	1	BJ
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
1330-20-7-----	Total Xylenes	5	U

METALS DATA



RECRA ENVIRONMENTAL, INC.

RECRA ENVIRONMENTAL, INC.
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 91-0120

SAMPLE DATE 01/16/91

SAMPLE NO. MW-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	01/18/91	0.68	
Total Iron	MG/L	6010	01/18/91	3.8	
Total Lead	MG/L	7421	01/18/91	0.007	
Total Magnesium	MG/L	6010	01/18/91	50	
Total Manganese	MG/L	6010	01/18/91	0.31	
Total Sodium	MG/L	6010	01/18/91	237	

RECRA ENVIRONMENTAL, INC.
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 91-0120

SAMPLE DATE 01/16/91

SAMPLE NO. MW-2

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	01/18/91	3.1	
Total Iron	MG/L	6010	01/18/91	4.5	
Total Lead	MG/L	7421	01/18/91	0.01	
Total Magnesium	MG/L	6010	01/18/91	17	
Total Manganese	MG/L	6010	01/18/91	0.057	
Total Sodium	MG/L	6010	01/18/91	23	

RECRA ENVIRONMENTAL, INC.
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 91-0120

SAMPLE DATE 01/16/91

SAMPLE NO. MW-3

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	01/18/91	13	
Total Iron	MG/L	6010	01/18/91	26	
Total Lead	MG/L	7421	01/18/91	0.03	
Total Magnesium	MG/L	6010	01/18/91	118	
Total Manganese	MG/L	6010	01/18/91	0.77	
Total Sodium	MG/L	6010	01/18/91	120	

RECRA ENVIRONMENTAL, INC.
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 91-0120

SAMPLE DATE 01/16/91

SAMPLE NO. MW-4

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	01/18/91	17	
Total Iron	MG/L	6010	01/18/91	35	
Total Lead	MG/L	7421	01/18/91	0.032	
Total Magnesium	MG/L	6010	01/18/91	152	
Total Manganese	MG/L	6010	01/18/91	1.1	
Total Sodium	MG/L	6010	01/18/91	210	

RECRA ENVIRONMENTAL, INC.
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 91-0120

SAMPLE DATE 01/16/91

SAMPLE NO. FIELD BLANK

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	01/18/91	0.05	U
Total Iron	MG/L	6010	01/18/91	0.04	U
Total Lead	MG/L	7421	01/18/91	0.003	U
Total Magnesium	MG/L	6010	01/18/91	0.02	U
Total Manganese	MG/L	6010	01/18/91	0.005	U
Total Sodium	MG/L	6010	01/18/91	0.33	U

METHOD BLANK DATA



RECRA ENVIRONMENTAL, INC.

EPA SAMPLE NO.

Lab Name: RECRA ENVIRON

Contract: NY91-149A

Lab Code: RECNY

Case No. : 0120

SAS No. :

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: VBLK12

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 740E

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 01/17/91

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:

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

Q

CAS NO.

COMPOUND

FORM I VOA

1/87 Rev.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK13

Lab Name: RECRA ENVIRON

Contract: NY91-149A

Lab Code: RECNY

Case No.: 0120

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: VBK13

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 774E

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 01/18/91

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	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)	5	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	5	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	5	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
1330-20-7-----	Total Xylenes	5	U

SURROGATE RECOVERY DATA



RECRA ENVIRONMENTAL, INC.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON

Contract: NY91-149A

Lab Code: RECNY

Case No.: 0120

SAS No.: _____

SDG No.: _____

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	FIELD BLANK	104	107	100	0	0
02	MW1	104	109	97	0	0
03	MW2	104	110	97	0	0
04	MW3	106	107	95	0	0
05	MW4	101	106	97	0	0
06	TRIP BLANK	104	112	103	0	0
07	MW4MS	103	105	95	0	0
08	MW4MSD	101	104	98	0	0
09	VBLK12	104	110	104	0	0
10	VBLK13	103	106	95	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)

S2 (BFB) = Bromofluorobenzene (86-115)

S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

QC DATA



RECRA ENVIRONMENTAL, INC.

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRONContract: NY91-149ALab Code: RECNY Case No.: 0120

SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: MW4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	25000	0	23000	92	61-145
Trichloroethene	25000	33200	53500	81	71-120
Benzene	25000	0	23000	92	76-127
Toluene	25000	0	24200	97	76-125
Chlorobenzene	25000	0	22900	92	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	25000	23200	93	-1	14	61-145
Trichloroethene	25000	55500	89	-9	14	71-120
Benzene	25000	23400	94	-2	11	76-127
Toluene	25000	24000	96	1	13	76-125
Chlorobenzene	25000	22800	91	1	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 10 outside limitsCOMMENTS: MW4DL JOB0120 DF500
51E



QUALITY CONTROL INFORMATION - PRECISION
AQUEOUS MATRIX
TOTAL METALS

PARAMETER (Units of Measure = mg/l)	METHOD NUMBER	SAMPLE IDENTIFICATION	VALUE 1	VALUE 2	MEAN	STANDARD DEVIATION
Total Aluminum	6010	MW-4	16.3	16.9	16.6	0.42
Total Iron	6010		33.8	36.6	35.2	2.0
Total Lead	7421		0.028	0.035	0.032	0.0049
Total Magnesium	6010		151	154	152	2.1
Total Manganese	6010		1.1	1.1	1.1	-
Total Sodium	6010		208	211	210	2.1

QUALITY CONTROL INFORMATION - ACCURACY
AQUEOUS MATRIX
TOTAL METALS

PARAMETER	METHOD NUMBER	SAMPLE IDENTIFICATION	PPB OF * SPIKE	PERCENT RECOVERY
Total Aluminum	6010	MW-4	2,000	94
Total Iron	6010		1,000	115
Total Lead	7421		500	120
Total Magnesium	6010		50,000	105
Total Manganese	6010		500	42
Total Sodium	6010		100,000	100

PPB * = Parts per billion.

METHOD BLANK SUMMARY



RECREA ENVIRONMENTAL, INC.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-149A
Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____
Lab File ID: 740E Lab Sample ID: VBLK12
Date Analyzed: 01/17/91 Time Analyzed: 1456
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: 51E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	FIELDBLANK	FIELDBLANK	742E	1611
02	MW1	MW1	744E	1721
03	MW2	MW2	745E	1756
04	MW3	MW3	746E	1832
05	TRIPBLANK	TRIPBLANK	741E	1536

COMMENTS: VBLK12
51E

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-149A
Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____
Lab File ID: 774E Lab Sample ID: VLK13
Date Analyzed: 01/18/91 Time Analyzed: 1153
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: 51E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	MW4	MW4	779E	1454
02	MW4MS	MW4MS	780E	1529
03	MW4MSD	MW4MSD	781E	1604

COMMENTS: VBLK13
51E

INTERNAL STANDARD AREA SUMMARIES



RECRA ENVIRONMENTAL, INC.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-149A
 Lab Code: RECNY Case No.: 0120 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 737E Date Analyzed: 01/17/91
 Instrument ID: 51E Time Analyzed: 1301
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	41400	7.82	178000	17.89	153000	22.69
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	82800		356000		306000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	20700		89000		76500	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 FIELDBLANK	37700	7.82	169000	17.89	143000	22.72
02 MW1	39400	7.78	174000	17.85	148000	22.69
03 MW2	39600	7.78	174000	17.89	148000	22.69
04 MW3	39000	7.82	173000	17.89	144000	22.69
05 TRIPBLANK	35300	7.82	160000	17.89	138000	22.72
06 VBLK12	35500	7.78	159000	17.89	136000	22.72

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

RECRA ENVIRONMENTAL, INC.
AQUEOUS MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 91-0120
DESC METHOD BLANK
SAMPLE NO. MB-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Aluminum	MG/L	6010	01/18/91	0.05	U
Total Iron	MG/L	6010	01/18/91	0.04	U
Total Lead	MG/L	7421	01/18/91	0.003	U
Total Magnesium	MG/L	6010	01/18/91	0.2	U
Total Manganese	MG/L	6010	01/18/91	0.005	U
Total Sodium	MG/L	6010	01/18/91	0.2	U

RECEIVED
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NATIONAL SYSTEM OF
ENVIRONMENTAL CONSERVATION
— REGION 9

SOIL ANALYSIS MW-4

NOVEMBER 1990

ANALYTICAL RESULTS

Prepared For

Leica Project

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodologies employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to the following U.S. Environmental Protection Agency reference.

- o U.S. Environmental Protection Agency "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods". Office of Solid Waste and Emergency Response. November 1986, SW-846, Third Edition.

GENERAL COMMENTS

Comments pertain to data on one or all pages of this report.

Results of the analysis of soil sample MW-4 (0-5') have been corrected for moisture content and are reported on a dry weight basis. The dry weight (103°C) of sample MW-4 (0-5') is 73.3%.

The enclosed data are defined utilizing the following USEPA data qualifiers (Q):

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.



VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. If contract laboratory protocol spectral identification criteria were not met, those compounds were deleted from the quantitation report.

Samples MW-4 (0-5') and MW-4 (0-5') RE required analysis at a dilution factor of 2.0 due to the viscosity and dark coloration of the sample extract.

The Internal Standard area of Perylene is outside of quality control limits in both samples MW-4 (0-5') and MW-4 (0-5')RE, indicating sample matrix interference.



Organic Data Comment PageLab Name RECRA ENVIRONMENTAL, INC.Footnotes:

NR - Not required by contract at this time

Form I:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GS/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

COMMENTS: _____

Inorganic Data Comment Page

Lab Name RECRA ENVIRONMENTAL, INC.

Case No. _____

ICP interelement and background corrections applied? Yes _____ No _____

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form I:

- B - Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).
- E - Indicates a value estimated or not reported due to the presence of interference
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- + - Indicates the correlation coefficient for method of standard addition is less than 0.995.
- M - Indicates duplicate injection results exceeded control limits.
- W - Post digestion spike for Furnance AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

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

COMMENTS: _____

CHAIN OF CUSTODY DOCUMENTS



RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

[illegible]

VOLATILES DATA



RECRA ENVIRONMENTAL, INC.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: RECRA ENVIRON

Contract: NY91-023

MW-4(0-5)

Lab Code: RECNY

Case No.: 2371

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: MW-4(0-5)

Sample wt/vol: 4.2 (g/mL) G

Lab File ID: 2002A

Level: (low/med) MED

Date Received: 11/16/90

% Moisture: not dec. 27

Date Analyzed: 11/19/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	1600	U
74-83-9	Bromomethane	1600	U
75-01-4	Vinyl Chloride	840	J
75-00-3	Chloroethane	1600	U
75-09-2	Methylene Chloride	390	J
67-64-1	Acetone	1800	B
75-15-0	Carbon Disulfide	820	U
75-35-4	1,1-Dichloroethene	820	U
75-34-3	1,1-Dichloroethane	820	U
540-59-0	1,2-Dichloroethene (total)	460	J
67-66-3	Chloroform	820	U
107-06-2	1,2-Dichloroethane	820	U
78-93-3	2-Butanone	1600	U
71-55-6	1,1,1-Trichloroethane	820	U
56-23-5	Carbon Tetrachloride	820	U
108-05-4	Vinyl Acetate	1600	U
75-27-4	Bromodichloromethane	820	U
78-87-5	1,2-Dichloropropane	820	U
10061-01-5	cis-1,3-dichloropropene	820	U
79-01-6	Trichloroethene	820	U
124-48-1	Dibromochloromethane	820	U
79-00-5	1,1,2-Trichloroethane	820	U
71-43-2	Benzene	820	U
10061-02-6	trans-1,3-dichloropropene	820	U
75-25-2	Bromoform	820	U
108-10-1	4-Methyl-2-Pentanone	1600	U
591-78-6	2-Hexanone	1600	U
127-18-4	Tetrachloroethene	820	U
79-34-5	1,1,2,2-Tetrachloroethane	820	U
108-88-3	Toluene	400	BJ
108-90-7	Chlorobenzene	820	U
100-41-4	Ethylbenzene	800	J
100-42-5	Styrene	820	U
1330-20-7	Total Xylenes	5100	

SEMI-VOLATILE DATA



RECRA ENVIRONMENTAL, INC.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4(0-5)

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: MW-4(0-5)
 Sample wt/vol: 20.3 (g/mL) G Lab File ID: 6171Y
 Level: (low/med) LOW Date Received: 11/16/90
 % Moisture: not dec. 22 dec. _____ Date Extracted: 11/28/90
 Extraction: (SepF/Cont/Sonc) SOX Date Analyzed: 11/30/90
 GPC Cleanup: (Y/N) N Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	1300	U
111-44-4	bis(2-Chloroethyl) Ether	1300	U
95-57-8	2-Chlorophenol	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
100-51-6	Benzyl Alcohol	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
95-48-7	2-Methylphenol	1200	J
108-60-1	bis(2-Chloroisopropyl) Ether	1300	U
106-44-5	4-Methylphenol	1300	U
621-64-7	N-Nitroso-Di-n-Propylamine	1300	U
67-72-1	Hexachloroethane	1300	U
98-95-3	Nitrobenzene	1300	U
78-59-1	Isophorone	1300	U
88-75-5	2-Nitrophenol	1300	U
105-67-9	2,4-Dimethylphenol	1300	U
65-85-0	Benzoic Acid	6100	U
111-91-1	bis(2-Chloroethoxy) Methane	1300	U
120-83-2	2,4-Dichlorophenol	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U
91-20-3	Naphthalene	1100	J
106-47-8	4-Chloroaniline	1300	U
87-68-3	Hexachlorobutadiene	1300	U
59-50-7	4-Chloro-3-Methylphenol	1300	U
91-57-6	2-Methylnaphthalene	890	J
77-47-4	Hexachlorocyclopentadiene	1300	U
88-06-2	2,4,6-Trichlorophenol	1300	U
95-95-4	2,4,5-Trichlorophenol	6100	U
91-58-7	2-Chloronaphthalene	1300	U
88-74-4	2-Nitroaniline	6100	U
131-11-3	Dimethyl Phthalate	1300	U
208-96-8	Acenaphthylene	1300	U
606-20-2	2,6-Dinitrotoluene	1300	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4(0-5)

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) SOIL Lab Sample ID: MW-4(0-5)
 Sample wt/vol: 20.3 (g/mL) G Lab File ID: 6171Y
 Level: (low/med) LOW Date Received: 11/16/90
 % Moisture: not dec. 22 dec. _____ Date Extracted: 11/28/90
 Extraction: (SepF/Cont/Sonc) SOX Date Analyzed: 11/30/90
 GPC Cleanup: (Y/N) N Dilution Factor: 2.0

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

CAS NO.	COMPOUND		Q
99-09-2-----	3-Nitroaniline	6100	U
83-32-9-----	Acenaphthene	160	J
51-28-5-----	2,4-Dinitrophenol	6100	U
100-02-7-----	4-Nitrophenol	6100	U
132-64-9-----	Dibenzofuran	1300	U
121-14-2-----	2,4-Dinitrotoluene	1300	U
84-66-2-----	Diethylphthalate	1300	U
7005-72-3-----	4-Chlorophenyl-phenylether	1300	U
86-73-7-----	Fluorene	1300	U
100-01-6-----	4-Nitroaniline	6100	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	6100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1300	U
101-55-3-----	4-Bromophenyl-phenylether	1300	U
118-74-1-----	Hexachlorobenzene	1300	U
87-86-5-----	Pentachlorophenol	6100	U
85-01-8-----	Phenanthrene	1300	U
120-12-7-----	Anthracene	1300	U
84-74-2-----	Di-n-Butylphthalate	1300	U
206-44-0-----	Fluoranthene	3700	
129-00-0-----	Pyrene	1300	U
85-68-7-----	Butylbenzylphthalate	1300	U
91-94-1-----	3,3'-Dichlorobenzidine	2500	U
56-55-3-----	Benzo(a)Anthracene	1300	U
218-01-9-----	Chrysene	1700	
117-81-7-----	Bis(2-Ethylhexyl) Phthalate	4200	B
117-84-0-----	Di-n-Octyl Phthalate	1300	U
205-99-2-----	Benzo(b) Fluoranthene	1300	U
207-08-9-----	Benzo(k) Fluoranthene	1300	U
50-32-8-----	Benzo(a) Pyrene	1300	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	1300	U
53-70-3-----	Dibenz(a,h) Anthracene	1300	U
191-24-2-----	Benzo(g,h,i) Perylene	1300	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4(0-5)RE

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2371

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: MW-4(0-5)RE

Sample wt/vol: 20.3 (g/mL) G

Lab File ID: 6187Y

Level: (low/med) LOW

Date Received: 11/16/90

Moisture: not dec. 22 dec. _____

Date Extracted: 11/28/90

Extraction: (SepF/Cont/Sonc) SOX

Date Analyzed: 12/04/90

GPC Cleanup: (Y/N) N

Dilution Factor: 2.0

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

108-95-2-----	Phenol	1300	U
111-44-4-----	bis(2-Chloroethyl) Ether	1300	U
95-57-8-----	2-Chlorophenol	1300	U
541-73-1-----	1,3-Dichlorobenzene	1300	U
106-46-7-----	1,4-Dichlorobenzene	1300	U
100-51-6-----	Benzyl Alcohol	1300	U
95-50-1-----	1,2-Dichlorobenzene	1300	U
95-48-7-----	2-Methylphenol	1300	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	1300	U
106-44-5-----	4-Methylphenol	1300	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	1300	U
67-72-1-----	Hexachloroethane	1300	U
98-95-3-----	Nitrobenzene	1300	U
78-59-1-----	Isophorone	1300	U
88-75-5-----	2-Nitrophenol	1300	U
105-67-9-----	2,4-Dimethylphenol	2700	U
65-85-0-----	Benzoic Acid	6100	U
111-91-1-----	bis(2-Chloroethoxy) Methane	1300	U
120-83-2-----	2,4-Dichlorophenol	1300	U
120-82-1-----	1,2,4-Trichlorobenzene	1300	U
91-20-3-----	Naphthalene	1000	J
106-47-8-----	4-Chloroaniline	1300	U
87-68-3-----	Hexachlorobutadiene	1300	U
59-50-7-----	4-Chloro-3-Methylphenol	1300	U
91-57-6-----	2-Methylnaphthalene	570	J
77-47-4-----	Hexachlorocyclopentadiene	1300	U
88-06-2-----	2,4,6-Trichlorophenol	1300	U
95-95-4-----	2,4,5-Trichlorophenol	6100	U
91-58-7-----	2-Chloronaphthalene	1300	U
88-74-4-----	2-Nitroaniline	6100	U
131-11-3-----	Dimethyl Phthalate	1300	U
208-96-8-----	Acenaphthylene	1300	U
606-20-2-----	2,6-Dinitrotoluene	1300	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4(0-5)RE

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2371

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: MW-4(0-5)RE

Sample wt/vol: 20.3 (g/mL) G

Lab File ID: 6187Y

Level: (low/med) LOW

Date Received: 11/16/90

% Moisture: not dec. 22 dec. _____

Date Extracted: 11/28/90

Extraction: (SepF/Cont/Sonc) SOX

Date Analyzed: 12/04/90

GPC Cleanup: (Y/N) N

Dilution Factor: 2.0

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

99-09-2-----3-Nitroaniline	6100	U
83-32-9-----Acenaphthene	200	J
51-28-5-----2,4-Dinitrophenol	6100	U
100-02-7-----4-Nitrophenol	6100	U
132-64-9-----Dibenzofuran	1300	U
121-14-2-----2,4-Dinitrotoluene	1300	U
84-66-2-----Diethylphthalate	1300	U
7005-72-3-----4-Chlorophenyl-phenylether	1300	U
86-73-7-----Fluorene	1300	U
100-01-6-----4-Nitroaniline	6100	U
534-52-1-----4,6-Dinitro-2-Methylphenol	6100	U
86-30-6-----N-Nitrosodiphenylamine (1)	1300	U
101-55-3-----4-Bromophenyl-phenylether	1300	U
118-74-1-----Hexachlorobenzene	1300	U
87-86-5-----Pentachlorophenol	6100	U
85-01-8-----Phenanthrene	1300	U
120-12-7-----Anthracene	1300	U
84-74-2-----Di-n-Butylphthalate	1300	U
206-44-0-----Fluoranthene	2800	
129-00-0-----Pyrene	1300	U
85-68-7-----Butylbenzylphthalate	1300	U
91-94-1-----3,3'-Dichlorobenzidine	2500	U
56-55-3-----Benzo(a)Anthracene	1300	U
218-01-9-----Chrysene	1700	
117-81-7-----Bis(2-Ethylhexyl)Phthalate	4400	B
117-84-0-----Di-n-Octyl Phthalate	1300	U
205-99-2-----Benzo(b)Fluoranthene	1300	U
207-08-9-----Benzo(k)Fluoranthene	1300	U
50-32-8-----Benzo(a)Pyrene	1300	U
193-39-5-----Indeno(1,2,3-cd)Pyrene	1300	U
53-70-3-----Dibenz(a,h)Anthracene	1300	U
191-24-2-----Benzo(g,h,i)Perylene	1300	U

(1) - Cannot be separated from Diphenylamine

METALS DATA



RECREA ENVIRONMENTAL, INC.

LEICA PROJECT
SOIL MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2371

SAMPLE DATE 11/16/90

SAMPLE NO. MW-4(0-5')

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/KG	6010	11/21/90	2.5	
Total Chromium	MG/KG	6010	11/21/90	41	
Total Nickel	MG/KG	6010	11/21/90	54	
Total Zinc	MG/KG	6010	11/21/90	445	

WATER QUALITY DATA



RECRA ENVIRONMENTAL, INC.

LEICA PROJECT
SOIL MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2371

SAMPLE DATE 11/16/90

SAMPLE NO. MW-4(0-5')

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	60,900	

METHOD BLANK DATA



RECREA ENVIRONMENTAL, INC.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____
Lab File ID: 1996A Lab Sample ID: VBLK94
Date Analyzed: 11/19/90 Time Analyzed: 1102
Matrix: (soil/water) SOIL Level: (low/med) MED
Instrument ID: 51A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-4 (0-5)	MW-4 (0-5)	2002A	1508

COMMENTS: VBLK 94
51A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK94

Lab Name: RECRA ENVIRON Contract: NY91-023

Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: VBLK94

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 1996A

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

% Moisture: not dec. _____ Date Analyzed: 11/19/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3	-----Chloromethane	1200	U
74-83-9	-----Bromomethane	1200	U
75-01-4	-----Vinyl Chloride	1200	U
75-00-3	-----Chloroethane	1200	U
75-09-2	-----Methylene Chloride	620	U
67-64-1	-----Acetone	880	J
75-15-0	-----Carbon Disulfide	620	U
75-35-4	-----1,1-Dichloroethene	620	U
75-34-3	-----1,1-Dichloroethane	620	U
540-59-0	-----1,2-Dichloroethene (total)	620	U
67-66-3	-----Chloroform	620	U
107-06-2	-----1,2-Dichloroethane	620	U
78-93-3	-----2-Butanone	1200	U
71-55-6	-----1,1,1-Trichloroethane	620	U
56-23-5	-----Carbon Tetrachloride	620	U
108-05-4	-----Vinyl Acetate	1200	U
75-27-4	-----Bromodichloromethane	620	U
78-87-5	-----1,2-Dichloropropane	620	U
10061-01-5	-----cis-1,3-dichloropropene	620	U
79-01-6	-----Trichloroethene	620	U
124-48-1	-----Dibromochloromethane	620	U
79-00-5	-----1,1,2-Trichloroethane	620	U
71-43-2	-----Benzene	620	U
10061-02-6	-----trans-1,3-dichloropropene	620	U
75-25-2	-----Bromoform	620	U
108-10-1	-----4-Methyl-2-Pentanone	1200	U
591-78-6	-----2-Hexanone	1200	U
127-18-4	-----Tetrachloroethene	620	U
79-34-5	-----1,1,2,2-Tetrachloroethane	620	U
108-88-3	-----Toluene	68	J
108-90-7	-----Chlorobenzene	620	U
100-41-4	-----Ethylbenzene	620	U
100-42-5	-----Styrene	620	U
1330-20-7	-----Total Xylenes	620	U

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____
Lab File ID: 6166Y Lab Sample ID: SBLK16
Date Extracted: 11/28/90 Extraction: (SepF/Cont/Sonc) SOX
Date Analyzed: 11/30/90 Time Analyzed: 1915
Matrix: (soil/water) SOIL Level: (low/med) LOW
Instrument ID: I50Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	MW-4(0-5)	MW-4(0-5)	6171Y	11/30/90
02	MW-4(0-5)RE	MW-4(0-5)RE	6187Y	12/04/90

COMMENTS: SBLK16 JOB2371 BP2556
AUTOSAMPLR I50Y

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK16

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2371

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: SBLK16

Sample wt/vol: 20.0 (g/mL) G

Lab File ID: 6166Y

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____ dec. _____

Date Extracted: 11/28/90

Extraction: (SepF/Cont/Sonc) SOX

Date Analyzed: 11/30/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
108-95-2-----	Phenol	500	U
111-44-4-----	bis(2-Chloroethyl) Ether	500	U
95-57-8-----	2-Chlorophenol	500	U
541-73-1-----	1,3-Dichlorobenzene	500	U
106-46-7-----	1,4-Dichlorobenzene	500	U
100-51-6-----	Benzyl Alcohol	500	U
95-50-1-----	1,2-Dichlorobenzene	500	U
95-48-7-----	2-Methylphenol	500	U
108-60-1-----	bis(2-Chloroisopropyl) Ether	500	U
106-44-5-----	4-Methylphenol	500	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	500	U
67-72-1-----	Hexachloroethane	500	U
98-95-3-----	Nitrobenzene	500	U
78-59-1-----	Isophorone	500	U
88-75-5-----	2-Nitrophenol	500	U
105-67-9-----	2,4-Dimethylphenol	500	U
65-85-0-----	Benzoic Acid	2400	U
111-91-1-----	bis(2-Chloroethoxy) Methane	500	U
120-83-2-----	2,4-Dichlorophenol	500	U
120-82-1-----	1,2,4-Trichlorobenzene	500	U
91-20-3-----	Naphthalene	500	U
106-47-8-----	4-Chloroaniline	500	U
87-68-3-----	Hexachlorobutadiene	500	U
59-50-7-----	4-Chloro-3-Methylphenol	500	U
91-57-6-----	2-Methylnaphthalene	500	U
77-47-4-----	Hexachlorocyclopentadiene	500	U
88-06-2-----	2,4,6-Trichlorophenol	500	U
95-95-4-----	2,4,5-Trichlorophenol	2400	U
91-58-7-----	2-Chloronaphthalene	500	U
88-74-4-----	2-Nitroaniline	2400	U
131-11-3-----	Dimethyl Phthalate	500	U
208-96-8-----	Acenaphthylene	500	U
606-20-2-----	2,6-Dinitrotoluene	500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK16

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY

Case No.: 2371

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: SBLK16

Sample wt/vol: 20.0 (g/mL) G

Lab File ID: 6166Y

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____ dec. _____

Date Extracted: 11/28/90

Extraction: (SepF/Cont/Sonc) SOX

Date Analyzed: 11/30/90

GPC Cleanup: (Y/N) N

Dilution Factor: 1.00

CAS NO.

COMPOUND

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

Q

99-09-2-----	3-Nitroaniline	2400	U
83-32-9-----	Acenaphthene	500	U
51-28-5-----	2,4-Dinitrophenol	2400	U
100-02-7-----	4-Nitrophenol	2400	U
132-64-9-----	Dibenzofuran	500	U
121-14-2-----	2,4-Dinitrotoluene	500	U
84-66-2-----	Diethylphthalate	500	U
7005-72-3-----	4-Chlorophenyl-phenylether	500	U
86-73-7-----	Fluorene	500	U
100-01-6-----	4-Nitroaniline	2400	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	500	U
101-55-3-----	4-Bromophenyl-phenylether	500	U
118-74-1-----	Hexachlorobenzene	500	U
87-86-5-----	Pentachlorophenol	2400	U
85-01-8-----	Phenanthrene	34	J
120-12-7-----	Anthracene	500	U
84-74-2-----	Di-n-Butylphthalate	370	J
206-44-0-----	Fluoranthene	500	U
129-00-0-----	Pyrene	500	U
85-68-7-----	Butylbenzylphthalate	500	U
91-94-1-----	3,3'-Dichlorobenzidine	990	U
56-55-3-----	Benzo(a)Anthracene	500	U
218-01-9-----	Chrysene	500	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	39	J
117-84-0-----	Di-n-Octyl Phthalate	500	U
205-99-2-----	Benzo(b)Fluoranthene	500	U
207-08-9-----	Benzo(k)Fluoranthene	500	U
50-32-8-----	Benzo(a)Pyrene	500	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	500	U
53-70-3-----	Dibenz(a,h)Anthracene	500	U
191-24-2-----	Benzo(g,h,i)Perylene	500	U

(1) - Cannot be separated from Diphenylamine

LEICA PROJECT
SOIL MATRIX
TOTAL METALS

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2371
DESC METHOD BLANK
SAMPLE NO. MB-1

COMPOUND	UNIT OF MEASURE	METHOD NUMBER	ANALYSIS DATE	RESULT	Q
Total Cadmium	MG/KG	6010	11/21/90	0.5	U
Total Chromium	MG/KG	6010	11/21/90	1.0	U
Total Nickel	MG/KG	6010	11/21/90	4.0	U
Total Zinc	MG/KG	6010	11/21/90	1.0	U

LEICA PROJECT
SOIL MATRIX
WATER QUALITY TESTING

LAB NAME RECRA ENVIRONMENTAL INC.
JOB NO. 90-2371
DESC METHOD BLANK
SAMPLE NO. MB-1

PARAMETER (Units of Measure = MG/KG)	METHOD NUMBER	RESULT	Q
Total Recoverable Petroleum Hydrocarbons	418.1	25	U

SURROGATE RECOVERY DATA



RECRA ENVIRONMENTAL, INC.

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON Contract: NY91-023
Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____
Level: (low/med) MED

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	MW-4 (0-5)	104	106	114	0	0
02	VBLK94	105	104	103	0	0

QC LIMITS

S1 (TOL) = Toluene-d8 (81-117)
S2 (BFB) = Bromofluorobenzene (74-121)
S3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____
 Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====	=====
01	MW-4 (0-5)	80	89	131	78	78	117	0	0
02	MW-4 (0-5) RE	89	100	154 *	88	88	121	0	1
03	SBLK16	77	79	77	70	72	106	0	0

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
 S2 (FBP) = 2-Fluorobiphenyl (30-115)
 S3 (TPH) = Terphenyl (18-137)
 S4 (PHL) = Phenol-d5 (24-113)
 S5 (2FP) = 2-Fluorophenol (25-121)
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogates diluted out

INTERNAL STANDARD AREA SUMMARIES



RECRA ENVIRONMENTAL, INC.

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON Contract: NY91-023
 Lab Code: RECNY Case No.: 2371 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 1994A Date Analyzed: 11/19/90
 Instrument ID: 51A Time Analyzed: 0930
 Matrix:(soil/water) SOIL Level:(low/med) MED Column:(pack/cap) PACK

	IS1(BCM)	RT	IS2(DFB)	RT	IS3(CBZ)	RT
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	54200	8.17	238000	18.42	215000	23.20
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	108400		476000		430000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	27100		119000		107500	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MW-4(0-5)	44900	8.18	197000	18.45	178000	23.24
02 VBLK94	49200	8.18	219000	18.42	191000	23.24

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-023Lab Code: RECNYCase No.: 2371

SAS No.: _____

SDG No.: _____

Lab File ID (Standard): 6158YDate Analyzed: 11/30/90Instrument ID: I50YTime Analyzed: 1223

	IS1 (DCB)	RT	IS2 (NPT)	RT	IS3 (ANT)	RT
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	6820	9.62	26700	13.30	15200	18.72
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	13640		53400		30400	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	3410		13350		7600	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MW-4 (0-5)	8060	9.62	31400	13.29	23600	18.80
02 SBLK16	7680	9.62	27400	13.29	17100	18.70

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRONContract: NY91-023Lab Code: RECNYCase No.: 2371

SAS No.: _____

SDG No.: _____

Lab File ID (Standard): 6158YDate Analyzed: 11/30/90Instrument ID: I50YTime Analyzed: 1223

	IS4 (PHN)	RT	IS5 (CRY)	RT	IS6 (PRY)	RT
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	25700	23.34	19800	31.66	21200	35.82
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	51400		39600		42400	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	12850		9900		10600	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MW-4 (0-5)	29200	23.69	21200	31.99	6110 *	36.02
02 SBLK16	29700	23.32	26300	31.66	26100	35.81

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

= Column used to flag internal standard area values with an asterisk

8B
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2371

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 6173Y

Date Analyzed: 12/03/90

Instrument ID: I50Y

Time Analyzed: 1917

	IS1 (DCB) AREA #	RT	IS2 (NPT) AREA #	RT	IS3 (ANT) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	10000	9.59	42100	13.27	24600	18.67
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	20000		84200		49200	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	5000		21050		12300	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MW-4 (0-5) RE	15700	9.59	63600	13.25	33600	18.74

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100%
of internal standard area.

LOWER LIMIT = - 50%
of internal standard area.

= Column used to flag internal standard area values with an asterisk

8C
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: RECRA ENVIRON

Contract: NY91-023

Lab Code: RECNY Case No.: 2371

SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 6173Y

Date Analyzed: 12/03/90

Instrument ID: I50Y

Time Analyzed: 1917

	IS4 (PHN) AREA #	RT	IS5 (CRY) AREA #	RT	IS6 (PRY) AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	36800	23.29	37100	31.59	37000	35.74
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	73600		74200		74000	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	18400		18550		18500	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 MW-4(0-5)RE	30200	23.79	19700	31.91	11900 *	36.01

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

* Column used to flag internal standard area values with an asterisk

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