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Site Name

HACKNEY AND SONS, INC.

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AccessLevel

PUBLIC

Division

WASTE MANAGEMENT

Section

SUPERFUND

Program

IHS (IHS)

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FACILITY

File Copy

Permit Rescission Form

Facility Name	HACKNEY & SONS, INC-	TRUCK ***	-
Permit Number	WQ0007970		-
NPDES Permit Type		WQ Permit Type 0	RECEIVED
Discharge Code(s)	66	· · · · · · · · · · · · · · · · · · ·	WASHINGTON OFFICE
Regional Office	WARO .		MAR 1 6 1998
County	BEAUFORT		D. E. M.
Date Requested	12/30/97	Permit Expiration 7/31/98	_
	Original Request Received	by:	
	O Compliance Group O	Regional Office OP&E Unit	
	Request Recieved in the Fo	orm of:	
	O Signed Annual Fee Invo	ice O Letter O Other	_
Please Check Ap	propriately		
Site Visit Pe	erformed	Groundwater Monitoring Well	ls Y
Groundwate	er Concerns Addresse	(Should be addressed unless C	roundwater
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Reason for Deni	ial		-
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Dat	e 3/17/98		



KIDRON, INC. 13442 EMERSON ROAD * BOX 17 * KIDRON, OH 44636-0017

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December 23, 1997

Permits and Engineering Unit Attn: Michael Allen Division of Water Quality P.O. Box 29535 Raleigh, NC. 27626-0535

Dear Mr. Allen:

Enclosed is a letter from Mr. Will Hardison, Groundwater Supervisor for the Washington Regional Office, putting our facility in "Close-out Status" for groundwater action required. We respectfully request that you allow our permit for a Groundwater Remediation System to expire on 7/31/98, because of the new status that we have attained concerning Groundwater Incident Number 9949.

If there are any questions or concerns on this issue please call me at 1-800-321-5421. Thank you!

Sincerely,

Tim Ohler - File

Environmental / Safety Coordinator

cc: Charles Mason

GWCHSE,DOC 12/23/97

Jay Witte

DIVISION OF WATER OUALITY GROUNDWATER SECTION December 17, 1997

MEMORANDUM

TO:

Bill Morris - Solid Waste Management

Washington Regional Office

THROUGH:

Willie Hardison, Regional Groundwater Supervisor

Washington Regional Office

pronrad J. Welti, Hydrogeologist I

Washington Regional Office

SUBJECT:

Hackney & Sons, Inc.\ Well's Junk Yard
GWI # 9949 - Beaufort County

Hackney & Sons is a manufacturer of beverage delivery truck bodies, trailers and emergency support vehicles. In earlier years Hackney's manufacturing practices which involved the use of a Methylene Chloride-based paint stripper applied using a pressure sprayer. Subsurface investigations identified three groundwater contaminant plumes in the following areas: The Repair Area, the Extrusion Storage Area and the Trailer Test area. A corrective action system (CAS) was approved and operated for only the Repair Area and the Extrusion Storage Area, which is now being considered for "Close-Out" status. The Groundwater Section determined, at the time of the investigations, that the Trailer Test Area contaminant plume was attributed to an adjoining property identified as "Wells's Junk Yard".

This memo is an attempt to notify solid waste management of a potential ongoing source of contamination to the subsurface as a result of a junk yard operation.

I have attached a copy of the Close Out Report for your review however, if you have any questions or if you would like to discuss this matter further, please see me at any time.

attachments

√cc: WaRO Files

DIVISION OF WATER QUALITY GROUNDWATER SECTION

December 9, 1997

MEMORANDUM

TO:

Willie Hardison

FROM: 🔥

Čonrad J. Welti

SUBJECT:

Close-Out Report

Hackney & Sons, Inc. 400 Hackney Avenue

Washington, North Carolina - Beaufort County

Groundwater Incident Number 9949

Incident Rank 90\E

I am requesting the above referenced incident be considered for closed out status. Based on actions taken by Hackney & Sons, Inc., it has been determined that no further violations to the State's waters are likely to occur.

To assist you in evaluating the close-out request, please find attached a copy of the Pollution Incident Reporting Form, my close-out report for the subject site, and the close-out letter to Hackney & Sons, Inc. (for your signature). Please contact me if you require additional information on which to base your decision.

Enclosures

Wallo : File Copy of Clase Out

ariginal to file

(MWW)

State of North Carolina Department of Environment and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor Wayne McDevitt, Secretary



DIVISION OF WATER QUALITY **GROUNDWATER SECTION**

December 9, 1997

Mr. Charles R. Mason **Industrial Engineer** Hackney & Sons, Inc. 400 Hackney Avenue Washington, North Carolina 27889

> RE: Close-out Status

> > Hackney & Sons, Inc. - 400 Hackney Ave

Washington, North Carolina 27889 - Beaufort County

Groundwater Incident Number 9949

Incident Rank 90\E

Dear Mr. Mason:

The Division of Water Quality Groundwater Section has reviewed the activities and monitoring data for the above named site. In view of the removal of the contaminated residual materials, subsequent groundwater remediation and the absence of compounds associated with the original incident, the potential impact to groundwater has been minimized and the resource has been restored as economically as feasible. At this time, no further action will be required at the site. Therefore, the above referenced incident is considered to be closed out. If changes in environmental laws occur, and/or new information becomes available which suggests a need for further action, this decision may be reversed.

Sincerely,

Will Hardison

Groundwater Supervisor

Willedmoder

Washington Regional Office

Mr. Tim Ohler - Kidron Inc. cc:

Brian E. Kotek, ENSCI Engineering Group

Fay Sweat, PCB

WaRO

CLOSE OUT REPORT Hackney & Sons, Inc., 400 Hackney Avenue WASHINGTON, BEAUFORT COUNTY, NORTH CAROLINA GROUNDWATER INCIDENT NO. 9949 INCIDENT RANK 90\E

ABSTRACT

The Hackney facility is occupied by manufacturing operations and offices, is situated on 23 acres located south of US Highway 264, north of West Third Street, west of Hackney Avenue and east of Kinston Street in Washington, North Carolina. Hackney is a manufacturer of beverage delivery truck bodies, trailers and emergency support vehicles. In Earlier years Hackney was using poor manufacturing practices which involved the use of a Methylene Chloride-based paint stripper applied using a pressure sprayer. Paint stripper, paint residuals and paint chips were washed into the near by storm drain using a garden hose. Hackney subsequently removed 45 tons of residual materials from the storm drain system.

Site geology consists of an unnamed surficial unit composed of a yellow-brown sand unit which coarsens downward. A clay rich sand unit, which occurs at approximately 10-12 feet below land surface (BLS) separates the surficial sand and the underlying Yorktown Formation which is composed of shell rich sands, silts and clays. The Castle Hayne Formation, located beneath the Yorktown, is composed of limestone which is white to grey in color and is estimated to be at 70 feet BLS. Depth to ground water for the surficial aquifer is approximately 3 to 4 feet BLS. The surficial or shallow unconfined aquifer system has a low hydraulic gradient of 0.0013 ft/ft and the general trend of groundwater flow is toward the west \ southwest.

The Hackney manufacturing facility is currently owned by Kidron, Inc., of Kidron, Ohio. Hackney and Sons was acquired in August 1990 by the Hackney Acquisition Company. The acquisition included two manufacturing facilities: one in Independence Kansas, and the other is the subject Washington, North Carolina site. A Phase I and II ESA was preformed prior to acquisition (June 1990) where areas of potential contamination were identified at the facility.

A Phase I Hydrogeologic Assessment was preformed in October 1990 to delineate groundwater contamination in the *Repair Area* of the facility.

A Phase II Hydrogeologic Assessment was preformed in April and May of 1991. Seven monitoring wells were installed in the <u>Trailer Test Area</u>, eight wells were installed in the <u>Extrusion Storage Area</u>, two wells were installed along the <u>storm drain system</u>, one well was installed upgradient of <u>Wells Junkyard</u> and a well nest of two wells was installed in an upgradient position on the site. Additionally four 4-inch diameter monitoring\recovery wells were installed and two 2-inch diameter observation wells.

Hackney and Sons Close Out Report Page 2

Eight additional monitoring wells were installed in May 1992 adjacent to the storm drain system leading away from the Repair Facility. A comprehensive site assessment (CSA) was prepared on the field work and submitted on November 12, 1992. Multiple investigations and an extensive monitor well networ delineated three groundwater contaminant plumes in the shallow aquifer as <u>The Repair Area</u>, the <u>Extrusion Storage Area</u> and the <u>Trailer Test Area</u>.

The Repair Area/Storm Drain containing volatile and semivolatile compounds. The volatiles included methylene chloride, with a concentration range of BDL - 20,000 ppb for MW-31B, and others associated with EPA Method 8240 which were generally at or below the practical quantitation limit (PQL). Semivolatiles included dibutyl phthalate ranging from BDL to 130 ppb (MW-25B), bis (2-ethylhexyl) phthalate ranging from BDL to 110 ppb (MW-28B) and 180 ppb (MW25B).

The Extrusion Storage Area included volatile and semivolatile constituents as follows: tetrachloroethene at maximum concentrations of 16 ppb (MW-26s), methylene chloride at 5 ppb (MW-26s), trans 1,2-dichloroethene at 30 ppb (MW-26s), and bis-ethylhexyl phthalate at 13 ppb (MW-25) and 21 ppb (MW-26s) other constituents identified with EPA Method 8270 were present at or below the practical quantitation limit (PQL).

The Trailer Test Area included volatile and semivolatile constituents as follows: some select volatiles analytical results were 1,1,1-Trichloroethane at 63,000 ppb (MW-18), Acetone at 2,500 ppb (MW-18), 1,1-Dichloroethene at 5,900 ppb, Carbon Tetrachloride at 3,100 ppb (MW-TR1), and Toluene at 10,000 ppb (MW-18). Some select semi-volatile results were bis-ethylhexyl phthalate at 92 ppb (MW-19) and 18 ppb (MW-TR2), and Benzyl Alcohol at 40 ppb (MW-TR1).

The Trailer Test Area contaminant plume was determined by the groundwater section, at the time of the investigation, to be attributed to an adjoining property identified as 'Well's Junk Yard' and is being referred to the Solid Waste Section in a letter dated December 17, 1997. Hackney's consultant prepared a corrective action plan (CAP) in February 1993, a groundwater remediation system was started in November 1993. Groundwater monitoring was initiated for eleven (11) wells during the remediation phase. Three (3) consequtive quarters of monitoring showed contamination to be below the state's groundwater standards in North Carolina Administrative Code (NCAC), Title 15, Subchapter 2L, "Classification and Water Quality Standards Applicable To The Groundwaters of North Carolina".

SITE HISTORY/SOURCE CHARACTERIZATION

1. Site History: The site is a manufacturing facility owned by Kidron Inc., of Ohio. The incident is the result of manufacturing practices which have been altered to prevent impacts to soils and groundwater. A pre-purchase Phase I and Phase II investigation identified groundwater

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- a) <u>Discovery:</u> in May-June 1990, a Phase I and Phase II invetigation was preformed to evaluate potential impacts prior to the acquisition of Hackney in August 1990.
- b) <u>Assessment:</u> Hackney has a history of being proactive, reporting the results of Phase I and II audits, and completing a CSA (December 1992).
- Results of assessment Extensive subsurface investigations have included soil boring, monitoring well installation, test pit/trench installation, aquifer pump testing and soil & groundwater sampling and analysis. Through the series of soil borings and monitoring wells, preparation of a site characterization, Phase I and II audit, it was discovered that there were three contaminant plumes reportedly confined to the surficial aquifer. The Semi-confined deep aquifer (approximately 15'- 50') contained semi-volatile and volatile constituents at or below practical quantitation limits (POL).
- d) Remediation: The CAP for the Hackney site addresses the recovery and treatment of volatile and semi-volatile compounds in groundwater beneath the site. The corrective action system (CAS) was designed for the Repair Area and the Extrusion Storage Area. The CAS was successful in capturing the contaminant plume, reducing the vertical and horizontal extent of the plume, stabilizing plume migration and reducing concentrations of contaminants. The CAS for the Extrusion Storage Area consisted of three groundwater recovery wells. For the Repair Area, four groundwater recovery wells were installed. A treatment unit for contaminated groundwater was a biological treatment unit made up of two equalization tanks and a CT BIOX reactor. Effluent from the reactor was routed into a second equalization tank prior to discharged to injection wells.

CONCLUSIONS

In response to the action taken by Hackney & Sons in eliminating poor industry practices and remediating the groundwater at the site, it is anticipated that no increase in groundwater contamination will result from this former manufacturing practice. Impacts to the groundwater within the property boundary, for which Hackney is responsible for, have been minimized and the groundwater quality restored as technologically and economically as feasible. The underground water quality standards near the point source within the property boundaries are below the standards set forth in NCAC 15A Subchapter 2L.

Hackney and Sons Close Out Report Page 4

FINDINGS

As a means of evaluating whether an incident qualifies for close out status, the following criteria were considered:

- 1. The measured or anticipated increase in the concentration of the contaminants within the property boundary has been minimized through source elimination to the extent technologically and economically feasible. Source elimination included: (a) removal of underground storage tanks, (b) excavation and disposal of contaminated soils capable of releasing contaminants via leaching and percolation or through vapor phase transport, (c) removal of non-aqueous "floaters" and "sinkers", (d) removal of dissolved product.
 - (a) UST's are not associated with this incident.
 - (b) Free Product "floaters" and "sinkers" were not found at the facility.
 - (c) The removal of dissolved product was accomplished through the recovery of contaminated groundwater, treating in a bioreactor and to some extent through natural attenuation, the CAS was started in November 1993. Groundwater monitoring was in place to evaluate the effectiveness of the remediation system at the site. Groundwater samples were collected for three consecutive quarters begining in September 1995, December 1995, then March 1996. A last round of samples was collected in April 1997. The samples were analyzed by EPA Methods 624 + acetone & xylenes and 625. Results revealed no contravention of 15A NCAC 2L standards.
- 2. Any existing or anticipated increase in the concentration of the contaminants above the level of the underground water quality standards within the property boundaries has been minimized to the extent technologically and economically feasible and does not present a threat to public health and welfare or to the environment. Potential threats for all exposure pathways including ingestion, inhalation and dermal contact, receptors, and impacts on wildlife, fish and environmentally sensitive areas were evaluated.

In response to the action taken by removing the point source and subsequent contaminated soil, it is anticipated that no increase in groundwater contamination will result. The groundwater quality standards within the property boundaries have been minimized and restored as economically feasible. The groundwater quality standards near the point source within the property boundaries are below these standards set in NCAC 15A Subchapter 2L, .0202. Contaminant migration should not result in any violation of applicable groundwater standards at any existing receptor.

Hackney and Sons Close Out Report Page 5

- a) <u>Public Health and Welfare</u>. Potential threats to the public through ingestion, inhalation, and dermal contact have been minimalized. Although the sites initial contaminant levels were high, remediation efforts have removed constituents from the ground water. The contaminated soil\residuals have been removed from the site. In the past four quarterly monitoring events, there has been no contravention of groundwater standards.
- b) Receptors. The area is served by City of Washington.
- c) <u>Environment</u>. This incident appears to have had no lasting impact to the soil, groundwater or the environment at the subject site.
- d) <u>Fish and Wildlife</u>. This incident appears to have had no impact on the wildlife at the site.
- e) <u>Environmentally Sensitive Areas</u>. To our knowledge, the area is not designated as "environmentally sensitive."
- 3. Exceedences of groundwater quality standards from this incident will not occur at or beyond the property boundary.

Based on site conditions, it is unlikely that any violations to groundwater quality standards will occur at or beyond the property line since the source and soil contamination have been removed.

RECOMMENDATIONS

Based on the above findings, the Washington Regional Office recommends that the Hackney & Sons site be granted a close out status.

Prepared by:

Name: MConrad J. Welti, L.G

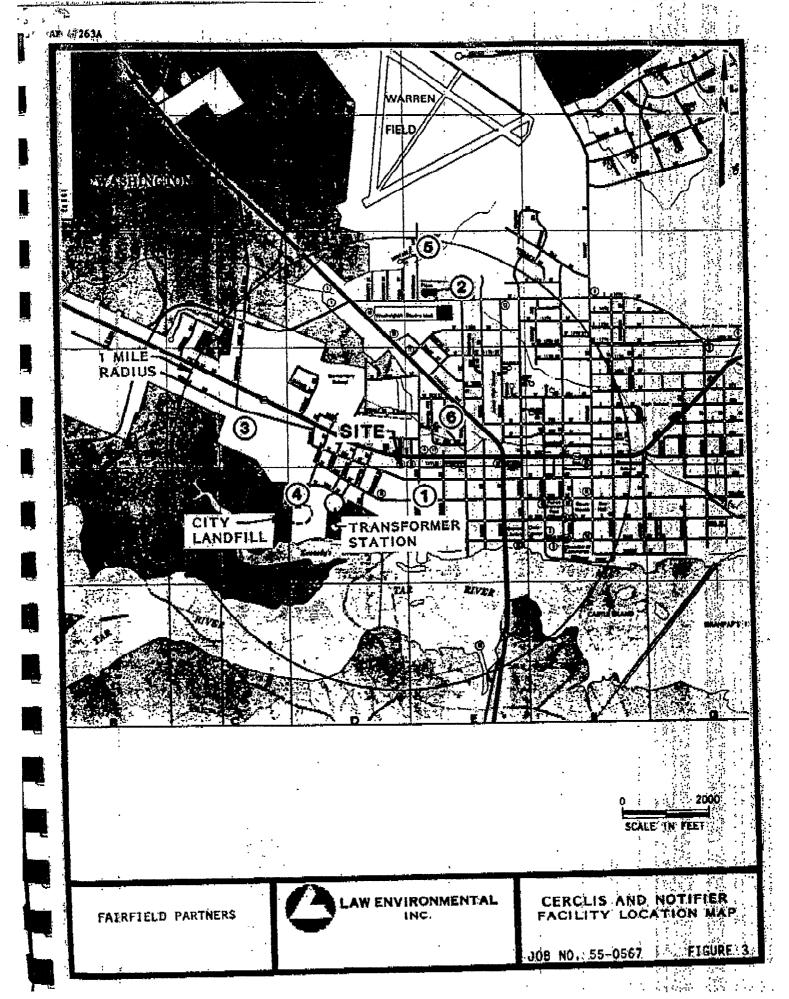
Title: <u>Hydrogeologist I</u>

Date: May 8, 1997

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From: "Guy Pearce" <NROAR01/TS19Y35>

Organization: WaRO-DEHNR

To: "Willie Hardison" <NROAR01/TS19U40>, "Jeff Welti" <NROAR01/N1E

Date: Mon, 1 Dec 1997 14:30:00 +1100

Subject: Re: Hackney & Sons - Request for Close Out.

Cc: NROAR01/TS19Y35

From: "Jeff Welti" <NROAR01/N1EG333>

Organization: WaRO-DEHNR

To: "Willie Hardison" <NROAR01/TS19U40>

Date: Tue, 25 Nov 1997 15:07:57 +1100

Subject: Hackney & Sons - Request for Close Out.

Cc: NROAR01/TS19Y35

11/25/97

Willie,

ner y fire

I am in the process of evaluating the Close Out Request from Hackney & Sons. There were reportedly 3 contaminant plumes identified at the facility. 1 The Repair Area\Storm Drain 2. Extrusion Storage Area and 3. The Trailer Test Area. Apparently the CAP addressed only The Repair Area\Storm Drain and Extrusion Storage Area, as per the CAP Page 10...." At this time, the CAP does not address the groundwater contaminant plume in the Trailer Testing Area. An addendum will be submitted subsequent to a decision by Hackney and the NCDEM concerning cleanup of this area."

Do I take this to mean we (DEM) agreed to not have Hackney remediate the GW in the Trailer Test Area?

The arguement I believe was that, yes, some of the contamination was from Hackney, however the investigation "indicated" that some of the contamination was from the adjacent property (Wells Junk Yard).

Please advise whether we have agreed to not persue the groundwater contamination in this area and that it is believed to be from another PRP.

Regards,

Jeff

Jeff and Willie,

It is my recollection that the MAJORITY of contaminants found in the

trailer test area were compounds commonly associated with engine degreasers, not compounds routinely used by Hackney. Several attempts to involve the HAZARDOUS WASTE SECTION (i.e. dick denton) in the well's junkyard site were unsucessful, and Mr. Wells claimed he did not use any degreaser type chemicals, he only stored scrap metal, etc. It seems some previous owner may have cleaned engines?, engine parts?, for Stanadyne. The issue of who was the responsible party (since this is not a UST situation and therefore cannot not be arbitrarily laid on the current owner) was never resolved, so no CAP was implemented.

State of North Carolina Department of Environment and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor Wayne McDevitt, Secretary



DIVISION OF WATER QUALITY GROUNDWATER SECTION

December 9, 1997

Mr. Charles R. Mason Industrial Engineer Hackney & Sons, Inc. 400 Hackney Avenue Washington, North Carolina 27889

RE: Close-out Status

Hackney & Sons, Inc. - 400 Hackney Ave

Washington, North Carolina 27889 - Beaufort County

Groundwater Incident Number 9949

Incident Rank 90\E

Dear Mr. Mason:

The Division of Water Quality Groundwater Section has reviewed the activities and monitoring data for the above named site. In view of the removal of the contaminated residual materials, subsequent groundwater remediation and the absence of compounds associated with the original incident, the potential impact to groundwater has been minimized and the resource has been restored as economically as feasible. At this time, no further action will be required at the site. Therefore, the above referenced incident is considered to be closed out. If changes in environmental laws occur, and/or new information becomes available which suggests a need for further action, this decision may be reversed.

Sincerely,

Will Hardison

Groundwater Supervisor Washington Regional Office

Wille Harden

cc:

Mr. Tim Ohler - Kidron Inc.
Brian E. Kotek, ENSCI Engineering Group
Fay Sweat, PCB
WaRO

DEHNR DEM GW PCB Fax:919-733-9413

Dec 16 '97 10:42 P.01/0

Facsimile Cover Page

NC DENR

DWQ-Groundwater Section

P.O. Box 29578 Raleigh NC 27626-0578 2728 Capital Blvd. Raleigh, NC 27604

Phone: (919) 733-3221

Fax: (919) 715-0588 or (919) 733-9413

To: Jeff al.	From: 4a, 5:	
Company:	Phone:	
hone:	Date: 12-16-97	
ax:	Pages including this cover page:	4
Tommonts.		\$ \$ 1

Comments:

Sorry el for got to fax this to sou stone a good time of year for me to remember what I cam four of of any

Thomas !

POLLUTION INCIDENTY U.S.T. LEAK KEROK HING F **URM** Confirm. GW Contamination (Y/N): Department of Environment, Health, Natural Resources Incident # Division of Environmental Management Major Soil Contamination (Y/N) Date incident Occurred GROUNDWATER SECTION Minor Soil Contominatin (Y/N) or Leck Detected 344 INCIDENT DESCRIPTION Hackney and Sons, Inc incident Location/Name 100 Region WaRQ 0.2 of property (both POTENTIAL SOURCE OWNER-OPERATOR Telephone SAME AS Above: 9191946-6521 Potential Source Owner-Operator Contact Person: Jay Hackney Company 400 zip Code State 7889 7. State 6. County OWNERSHIP 5.Federal 4.Privote 3. Unknown 2. Military 1. Municipal 0. N/A OPERATION TYPE 7. Mining 4. Educational/Relig. 5. Industrial 6: Commercial 0. N/A 1. Public Service 2. Agricultrural 3. Residential POLLUTANTS INVOLVED AMOUNT RECOVERED AMOUNT LOST MATERIALS INVOLVED No Free Froduct unknown compounds Various Strippers. SOURCE OF POLLUTION SETTING LOCATION PRIMARY POLLUTANT TYPE PRIMARY SOURCE OF POLLUTION (Select one) (Select one) 1, Residential _____, Facility 1. Pesticide/herbicide 1. Intentional dump 13. Well 2. Industrial 2, Railroad 2. Radioactive waste 2. Pit. pand, lögaan 14. Dredge spoil 3. Urban 3 Waterway 3. Gasoline/diesel 15. Nonpoint source 3. Lejak-junderground 4. Rurol 4. Pipeline 4. Heating oil 4. Spiray irrigation 5. Dumpsite 5. Other petroleum prod. 5. Land application 6. Highway 6. Sewage/septage 6. Animal teedlot 7. Residence 7. Fertilizers 7. Source unknown RECENTE 8. Other . 8. Sjudge 8. Septic tank 9, Solid waste leachate MAR 1 5 1993 9, Sewer line Site Priority 10. Metals 10, Stockpile POLLUTION CONTROL BRANGH 11. Other Inorganics 11. Landfill 12. Other organics 12. Spill-surface Pearce 2<u>0.</u>

Dec 16 '97

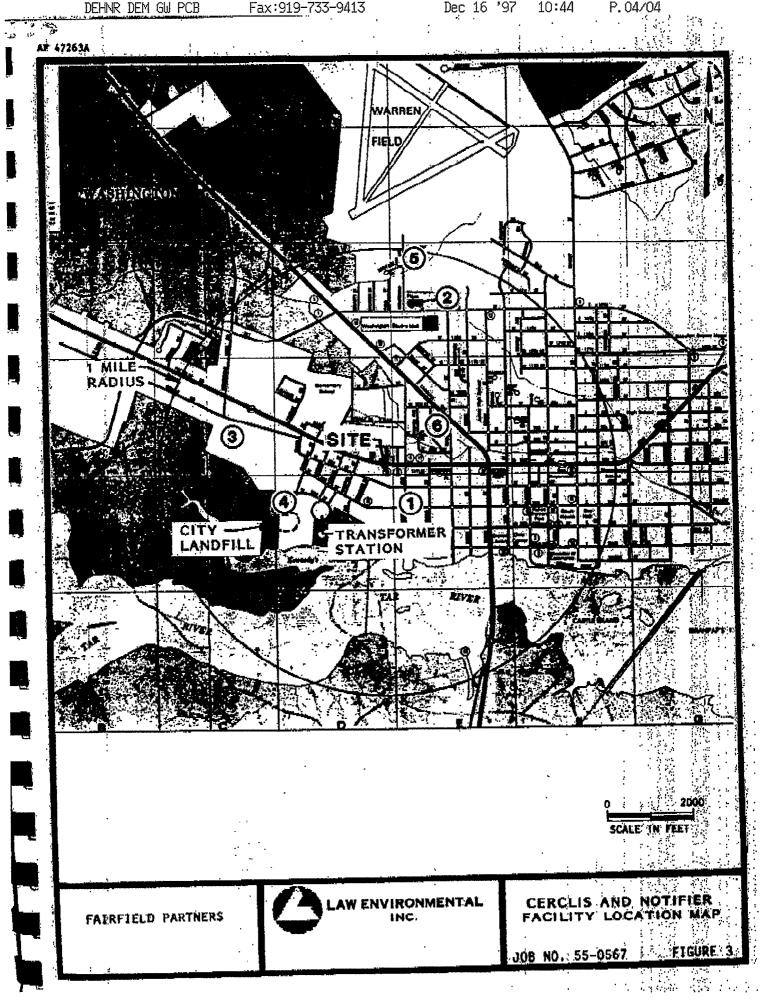
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DEHNR DEM GW PCB

Fax:919-733-9413

DEHNR DEM GW PCB Fax:919-7	733-9413	Dec 16 '9	97 10	44	P. 03	3/04	57 en 5 1 d
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COUNTY:: BEAUFORT

SAMPLE DATE (GW-59):

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FACILITY NAME:: HACKNEY AND SONS, INC.
LAT:
LONG:
QUAD NO.:: N20n
FACILITY TYPE: GW REMEDIATION
VOLUME (MG/D):: .010
PERMIT #: WQ0007970
DATE 1st ISS.:: 8/24/93
RENEWED:
DATE EXP.: 7/31/98
MW REQ. Y/N: Y
# MW REQ.: 11
# MW INST.: 11
STATUS (ACT\RESC): A
PARAMETERS:: EPA METHODS 624 AND 625, pH, W/L
COMMENTS:
FAC INSP DATE:
INSPs NAME:
REGION:
LAB CERT # PRIMARY:
LAB CERT # SECONDARY:
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10/24/97 Page 2

```
COUNTY: BEAUFORT
Incident No.: 9949
INCIDENT NAME: HACKNEY AND SONS, INC.
MANG: CJW
INCIDENT LOCATION: 400 HACKNEY AVENUE
INCIDENT CITY: WASHINGTON
QUAD NO.: N20n
GPS / LAT:
GPS / LONG:
INCID TYPE: SPILL
RESPONSIBLE PARTY: HACKNEY AND SONS, INC.
AFFIX:
FIRST:
MI:
LAST:
COMPANY:
ADDRESS1:
CITY:
ST:
ZIP:
INCID REPT'D: 7/01/90
INCID OCC'D:
SOIL CONT: Y
GW CONT: Y
INVEST DATE 7/01/90
PIRF/RANK: 3/11/9
RANK SCORE: 90/E
NOTICE SUSPENDED
NOTICE SENT:
NOTICE:
GRN SLIP RET:
45 DAY REPT DUE:
```

45 DAY REPT REC: CSA DUE: 10/24/97 Page 3

```
CSA EXT:
NOV/CSA (submit):
CSA REC'D: 11/12/92
CSA REV'D: 1/10/93
CSA ADDIN DUE:
CSA ADDIN REC'D:
CSA ADDIN REV'D:
NOV/CSA (cmplte):
NOV/CSA DUE:
NOV/CSA REC'D:
NOV/CSA REV'D:
CSA ENFORCE:
CAP DUE:
CAP EXT:
NOV/CAP (submit):
CAP RECV'D: 2/25/93
CAP TYPE: C
CAP REV'D: 4/06/93
CAP ADDIN:
CAP ADDIN RECV'D:
CAP ADDIN REVID:
NOV/CAP (cmplte):
NOV/CAP DUE:
NOV/CAP RECV'D:
CAP APPRV'D: 8/24/93
CAP ENFORCE:
STATUS: CA
CLOSED OUT:
COMMENTS: CAS C-PLAN IS RUNNING SOLVENTS ARE CONTAMINANT
```

e~ · «

"Guy Pearce" <NROAR01/TS19Y35> From:

Waro-Dehnr Organization:

"Willie Hardison" <NROAR01/TS19U40>, "Jeff Welti" <NROAR0 To:

Mon, 1 Dec 1997 14:30:00 +1100 Date:

Subject: Re: Hackney & Sons - Request for Close Out.

CC: NROAR01/TS19Y35

"Jeff Welti" <NROAR01/N1EG333>

Organization: Waro-Dehnr

"Willie Hardison" <NROAR01/TS19U40> To: Tue, 25 Nov 1997 15:07:57 +1100 Date:

Hackney & Sons - Request for Close Out. NROAR01/TS19Y35 Subject:

Cc:

11/25/97

Willie,

I am in the process of evaluating the Close Out Request from Hackney There were reportedly 3 contaminant plumes identified at the facility. 1 The Repair Area\Storm Drain 2. Extrusion Storage Area 3. The Trailer Test Area. and Apparently the CAP addressed only The Repair Area\Storm Drain and Extrusion Storage Area, as per the CAP Page 10.... At this time, the CAP does not address the groundwater contaminant plume in the Trailer Testing Area. An addendum will be submitted subsequent to a decision by Hackney and the NCDEM concerning cleanup of this area.

Do I take this to mean we (DEM) agreed to not have Hackney remediate the GW in the Trailer Test Area?

The arguement I believe was that, yes, some of the contamination was from Hackney, however the investigation "indicated" that some of the contamination was from the adjacent property (Wells JunkYard).

Please advise whether we have agreed to not persue the groundwater contamination in this area and that it is believed to be from another PRP.

Regards,

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GROUNDWATER QUALITY MONITORING: COMPLIANCE REPORT FORM

GW-59 REV. 6/93

For additional forms please write or call:

DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION P.O. BOX 29535 RALEIGH, NC 27626-0535

(919) 733-3221

Type or U	PERMIT NUMBER: (REQUIRED)					
Facility Name HACK-NEY	Non-Discharge					
Address 400 HALKNE	NPDES					
WAShington	TYPE OF DISPOSAL OPERATION BEING MONITORED					
Well Location Sec ATULO	(REQUIRED)	Lagoon	Septic Tank/D	rain Field		
Well Identification Number		Well DepthFt.	-	_	•	
Well DiameterSample (Scr	reened) Interval	Ft. ToFt.	· · -	Spray Field	Subsurface Lo Piping (LPP)	w-Pressure
Depth to Water Levelft. be	elow measuring point	(before sampling)	_	Land Application of Sl	udge .	
Measuring point isft. at		(4-3-3-4)			Other	4
Gallons of water pumped/bailed befo				Rotary Distributor	MSHINGTON OFFIC	Ş
Field Analysis: nH Sne	cific Conductance	uMhos Temp ⁰ C	Odor Ar	opearance		w
Date Sample Collected Juniz	2, 1994 Date Lab	Sample Analyzed	•	- -	JUL 1 4 1994	
Date Sample Collected Juniz Laboratory Name A fun C	Them		Certification No			
SAMPLES FOR METALS WERE CO)LLECTED UNFILTE	RED AND FIELD ACIDIFIED	YES NO		D. E. M.	
COD	ma/l	Nitrite (NO ₂) as N	ma/l	Ni - Nickel 🖁		ma/l
Coliform: MF Fecal	/100ml	Nitrate (NO ₂) as N	ma/l	Pb - Lead		
Coliform: MF Fecal Coliform: MF Total	/100ml	Nitrate (NO ₃) as N Phosphorus: Total as P	ma/l	Zn - Zinc		
(Note: Use MPN method for highly turbid sa		Al - Aluminum	mg/l			
Dissolved Solids: Total		Ba - Barium	mg/l	(Specify Compounds)		
pH (when analyzed)		Ca - Calcium		(=		ug/l
TOC.	mg/l	Cd - Cadmium		-	-	ug/l
Chloride	mg/l	Chromium: Total			<u></u>	m un/
Arsenic	mg/i	Cu - Copper		Other (Specify Comp	oounds and	RECEI ug/l
Grease and Oils	mg/ŀ	Fe - Iron	mg/l	Concentration units)	. 🚐	吳宮 ug/l
Hardness: Total	mg/l	Hg - Mercury				
Phenol	mg/l	K - Potassium	mg/l			
Sulfate	mg/l	Mg - Magnesium				
Specific Conductance	uMhos	Mn - Manganese				
Total Ammonia		Na - Sodium	mg/l			
TKN as N	mg/l	•	-		<u> </u>	
		-		-		<u>O</u>
I CERTIFY THAT THIS REPOR	RT IS TRUE AND	ACCURATE.	Note: \	Values should reflec	ct dissolved ar	nd
				colloidal concentrat		
Charles & Mas		7-6-94	* See h	ack for instructions.	·	- - - -
Signature of Permittee (or Auth	orized Agent*)	Date		it blue, green, and yellow	copies only to add	ress above.

COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES

- 1. Samples should be analyzed as soon as possible after collection. SAMPLES WHICH ARE NOT ANALYSED WITHIN THE HOLDING TIME SPECIFIED FOR THE METHOD USED (SEE #4. BELOW) MUST BE DISCARDED AND NEW SAMPLES COLLECTED.
- 2. Metals Analyses: Use Standard Method 3030C for sample preparation (mercury excluded). <u>DO NOT FILTER METALS SAMPLES IN THE FIELD !!!</u>
 Unfiltered samples must be collected for metals, then field acidified with 5 ml concentrated nitric acid per liter of sample, and should be submitted to the lab within 24 hours.
 - Sample preparation in the laboratory (extraction and filtration) must be completed within 72 hours of collection.
- 3. ANALYSES ARE TO BE MADE OF THE MOBILE CONSTITUENTS (DISSOLVED AS WELL AS COLLOIDAL) IN THE GROUNDWATER, NOT THOSE THAT ARE A PART OF SEDIMENT ASSOCIATED WITH WELL CONSTRUCTION OR SAMPLING PROCEDURES. CHECK WITH YOUR LABORATORY ON PROPER PROCEDURES FOR SAMPLE COLLECTION AND PRESERVATION.
- 4. As per Title 15, North Carolina Administrative Code, Subchapter 2L, analytical procedures shall be in accordance with the methods described in one of the following publications, or by other methods approved beforehand by the Director, Division of Environmental Management:
 - (a) Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985 and 17th Edition, 1989, published jointly by American Public Health Association, American Water Works Association and Water Pollution Control Federation;
 - (b) Methods for Chemical Analysis of Water and Waste, 1979, U.S. Environmental Protection Agency publication number EPA-600/4-79-020, as revised March 1983;
 - (c) Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods, 3rd Edition, 1986, U.S. Environmental Protection Agency publication number SW-846;
 - (d) Test Procedures for the Analysis of Polluants Under the Clean Water Act, Federal Register Vol. 49, No. 209, 40 CFR Part 136, October 26, 1984;
- 5. Measure and record the depth of water in the well prior to pumping or bailing any water from the well.
- 6. At least 3 volumes of water in the well should be pumped or bailed prior to collecting a sample for analysis. If the well is pumped/bailed dry before 3 well volumes are removed, samples can be collected as soon as the well recovers to the point where enough water is available to collect your sample.
- 7. Determination for pH, Specific Conductance, temperature, odor and appearance must be made in the field on unfiltered samples when the sample is collected.
- 8. Field equipment must be calibrated in accordance with recommendations by the manufacturer.
- 9. Samples must be filtered through a 0.45 micron filter immediately after collection when a dissolved analysis is required. (See #4. above)
- 10. The sample container should be labeled at the time of collection with the facility name, well identification number and date and time collected.
- 11."Authorized agent" is any corporate officer or public official authorized by the company, corporation, or governmental body to sign official documents.



July 30, 1997

ENGINEERING GROUP PA.

MASHINGTON OFFICE

Mr. Conrad J. Welti NCDEHNR-Division of Water Quality Washington Regional Office 943 Washington Square Mall Washington, NC 27889

AUG 0 1 1997

D. E. M.

RE: Site Closure of Hackney and Sons Facility

Washington, NC - Beaufort County

GW Incident No. 9949

Dear Mr. Welti:

This letter is being sent in response to your correspondence dated June 19, 1997, in which the application for closure of the above-referenced site was denied. A copy of this letter is attached. Upon review of your letter, it appears that the denial of site closure was based on two independent problems: the lack of continuity in the four sampling events used as the basis for the closure application; and the presence of Tetrachloroethene in well MW-26D in the first three sampling events.

According to the analytical results table which was attached to the original site closure request and the resubmitted request, Tetrachloroethene (TCE) was detected in MW-26D at 5.1 ppb during the September, 1995, December, 1995, and March, 1996 sampling events. Review of the original laboratory reports for these three events shows that the table was not correct. The TCE concentrations in well MW-26D during these events was not 5.1 ppb, but was in fact below detection limits. The original laboratory reports for this well are attached to display the correct analytical results. If you require a full copy of these reports (together over 100 pages) please contact me. To reiterate, no violations of 15A NCAC 2L Standards have been found during any of the four sampling events.

As for the time which elapsed between the March, 1996 event and the April, 1997 event: a verbal arrangement between E. Peter Burger of ENSCI, on behalf of Hackney and Sons, and Mr. Hal Bryson, formerly of your office, was reached after the initial denial of the site closure request due to the lack of a fourth quarterly event. Mr. Bryson stated that he would allow the April, 1997 event to be considered the fourth quarterly sampling event. It could be argued that instead of showing only one year of clean samples, Kidron has shown *two* years of clean samples. Although the fourth event did not immediately follow the third, it seems evident from the laboratory data that the true purpose of remedial activities, the restoration of groundwater quality, has been achieved.

Please contact E. Peter Burger or myself at 919-303-8080 if you have any questions or wish to discuss this matter further. Also, please note that our address has changed. We are now at 2521 Schieffelin Road, Suite 106, Apex, NC 27502.

Sincerely,

Brian E. Kotek, CES

Environmental Scientist

cc: Tim Ohler, Kidron Inc.

LETTER FROM MR. CONRAD WELTI, L.G.

State of North Carolina Department of Environment, Health and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary



DIVISION OF WATER QUALITY
GROUNDWATER SECTION
June 19, 1997

RECEIVEN JUL - 7 1997

Before State of the State of the

Mr. Brian E. Kotek, C.E.S. ENSCI Engineering Group Post Office Box 80275 Raleigh, North Carolina 27623-0275

RE: Site Closure Request for Hackney and Sons, Inc.
Washington, North Carolina - Beaufort County, Groundwater Incident No. 9949

Dear Mr. Kotek:

The Groundwater Section of the Washington Regional Office has received the referenced resubmitted report, dated May 20, concerning the Hackney and Sons, Inc. facility in Washington, North Carolina. The report states that groundwater sampling over the past nine (9) months has not detected any compounds above the groundwater quality standards specified in Title 15A, North Carolina Administrative Code, Subchapter 2L (15A NCAC 2L) paragraph .0202, indicating that the groundwater contaminant plume has been remediated.

While we agree that the data suggests remediation has been successful, please be advised again that current policy requires the <u>submittal of four (4) consecutive quarterly monitoring events</u> with no violations of 15A NCAC 2L groundwater quality standards before a site can be considered for close out. Since your report references only three (3) consecutive quarterly sampling events, we must deny your request for site closure at this time. Additionally, of the three consecutive quarterly monitoring reports Tetrachloroethene was detected in well MW-26d for each of the three quarters at 5.1 ppb, which is above the 2L standard of 0.7 ppb.

B.E. Kotek
ENSCI Engineering
June 19, 1997
Page Two

Our records indicate that quarterly groundwater sampling was to have been conducted in June 1996. If the results of four consecutive sampling events do not show any exceedances of the groundwater quality standards our office will review the appropriate data along with a request to close the site. This office will also consider a request to reduce the number of monitoring wells for the quarterly monitoring program.

If you have any questions, or wish to discuss this matter further, please contact me at (919) 946-6481.

Sincerely,

Conrad J. Welti, L.G.

Hydrogeologist I

cc: WaRO Files

LABORATORY REPORT FOR MW-26D

SAMPLE DATE: September 28, 1995



ENVIRONMENTAL LABORATORIES, INC. 11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Avenue

P.O. Box 880

Client #:

248

Contact:

Receipt Date: 29-Scp-95 Report Date: 23-Oct-95

North Carolina Certification Number:

South Carolina Certification Number: 99032

Sample Date:

28-Scp-95

SDG #:

SDG-000120

Lab Sample ID: LSID-000460 Sample ID:

MW-26D

		Reporting				·	~~
Parameter	Result	Limit	Unit	Method	Time	Date	Analysi
1,1,1-Trichlorocthane	Ŭ	5	ppb	EPA 624	2:40	10/5/95	СН
1,1,2,2-Tetrachlorochtane	ប	5	ppb	EPA 624	2:40	10/5/95	CH
1,1,2-Trichlorocthane	Ŭ	5	ppb	EPA 624	2:40	10/5/95	
1,1-Dichlorocthane	บ	5	ppb	EPA 624	2:40	10/5/95	CH
1.1-Dichloroethene	U	5	ppb	EPA 624	2:40	10/5/95	CH
1,2-Dichlorobenzene	บ	5	ppb	EPA 624	2:40	10/5/95	CH CH
1,2-Dichlorocthane	ט	5	ppb	EPA 624	2:40	10/5/95	CH
1,2-Dichloropropane	บ	5	ppb	EPA 624	2:40	10/5/95	
1,3-Dichlorobenzene	υ	5	ppb	EPA 624	2:40	10/5/95	CH
1,4-Dichlorobenzne	υ	5	ppb	EPA 624	2:40	10/5/95	CH
2-Chloroethylvinyl ether	บ	20	ppb	EPA 624	2:40	10/5/95	CH
Acetone	υ	10	ppb	EPA 624	2;40	10/5/95	CH ch
Benzene	บ	5	ppb	EPA 624	2:40	10/5/95	CH
Bromodichloromethane	υ	5	ррь	EPA 624	2:40	10/5/95	
Bromoform	U	5	ppb	EPA 624	2:40	10/5/95	CH
Bromomethane	บ	5	ppb	EPA 624	2:40	10/5/95	CH
Carbon Tetrachloride	ΰ	5	ppb	EPA 624	2:40		CH
Chlorobenzenc	Ŭ	5	ppb	EPA 624		10/5/95	CH
Chloroethane	บ	5		EPA 624	2:40	10/5/95	CH
	, 0	5	ppb	EFA 024	2:40	10/5/95	CH



Certificate of Analysis

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Hackney and Sons

400 Hackney Avenue

P.O. Box 880

North Carolina Certification Number: 305 South Carolina Certification Number: 99032

Client #:

248

Contact:

Receipt Date: 29-Scp-95

Report Date: 23-Oct-95

Sample Date:

28-Scp-95

SDG #:

SDG-000120

Lab Sample ID: LSID-000460

Sample ID:

MW-26D

Approved By:

Robert L. Curry

				Project Manager							
		Reporting									
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst				
Chloroform	U	5	ppb	EPA 624	2:40	10/5/95	СН				
Chloromethane	U	5	ppb	EPA 624	2:40	10/5/95	CH				
cis-1,3-Dichloropropene	U	5	ppb	EPA 624	2:40	10/5/95	CH				
Dibromochloromethane	U	5	ppb	EPA 624	2:40	10/5/95	CH				
Ethyl Benzene	U	5	ppb	EPA 624	2.40	10/5/95	CH				
Methylene Chloride	U	5	ppb	EPA 624	2:40	10/5/95	CH				
Tetrachloroethene	U	5	ppb	EPA 624	2:40	10/5/95	CH				
Toluene	U	5	ppb	EPA 624	2:40	10/5/95	CH				
Total Xylenes	U	5	ppb	EPA 624	2:40	10/5/95	CH				
trans-1,2-Dichloroethene	U	5	ppb	EPA 624	2:40	10/5/95	CH				
trans-1,3-Dichloropropene	U	5	ppb	EPA 624	2.40	10/5/95	CH				
Trichloroethene	U	5	ppb	EPA 624	2:40	10/5/95	CH				
Trichlorofluoromethane	U	5	ppb	EPA 624	2:40	10/5/95					
Vinyl Chloride	U	5	ppb	EPA 624	2:40	10/5/95	CH CH				

Kara Tara

V.)

AquaChem	•	CHAIN OF	CUSTODY	pro-	
ENVIRONMENTAL LABORATORIES, INC. 11178 DOWNS ROAD PINEVILLE, NC 28134	704/586-5076 FAX 704/586-2454			Phone Number: (919) 946-6: Fax Number: (919) 975-	521 ext 244
Chent: Hock Ney a	ud sons In	و			
Address: DO PIOV	<i>ひょ</i> ひ			Purchase Ofder Number:	
City Zuasin Ma ton	State: べ @	<u>'</u> Zip: <u></u>	7889	Certification Requirement:	· like
Contact Person Cherles W	laso N			Project Name:	
Sampled By: JACK VON	(>			Project Name: Rush Charges Authorized	□ No ·
This agreement is governed by the terms and condition	2 OU DIG LEAGLES 2506 DELECH "VINITOR" VINITAGE	to this agreement for fi arges shall be as inclu		d that I authorize the below analysis subject to the terms an schedule in biflect at the time of the analysis.	
Relinquished By: Received By:	Jun		Date:	$9\sqrt{28.95}$ Time $\sqrt{-29-95}$ Time	
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Received By:			Date:	Time	e:
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Sample ID Sampled	8	1 1 18 1		Other Analysis	Preservaline
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y 9-28.9.	_ 				
MW-26/11/1450	X 459				ace - on a
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MW-26D 19-20-9		 	┟╁┽┼┼┼┼	++++++	
MW-30 X 9-38-9-	3 X 463				
1 9-28-9	, _ 	╁╫┼┼┼┼	▎▘ ▎▐ ▕		CCC+OP4.
MW-30 X 1510'	1 H62				Xylenes.
Autosampler Sampler Location			Field pH	Please sign and return the	white and yellow copi
Date Installed Time Install		CF/GPD	Result Analyst	to the Laboratory.	
Date Picked Up Time Picker Composite Type:	d UpFlow ∃ Hand		Time/Date		
Composite Type:			(QA/QC Separate))	

20 mg = 17 mg	h 5/2
	[4]
	Lqua hem
-	ENVIRONMENTAL
£77	11176 DOWNS RO



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AquaLh	em		CHAIN OF C	USTODY	.
ENVIRONMEN 11176 DOWNS PINEVILLE, N	TAL LABORATORES, INC. ROAD 226134	704/588-5078 FAX 704/588-2454			Phone Number: (919) 975-6521 ext 244 Fax Number: (919) 975-8344
Client: Han	KONY an	& SONS	INS-		Fax Number: (9/9) 975 - 8.344 Purchase Order Number:
Address: $\underline{\mathcal{P}}$	DOX.	<u>880</u>	んC Zip: a	7000	Purchase Order Number:
City Was	hing ten	State:_	<u>んじ Zip: _ a</u>	7000	Octoboa de la companya del la companya de la compan
Contact Person _	Charles 1	Mason			Project Name:
Sampled By: \(\square\)	TACK JONE	5			Rush Charges Authorized
This agreement is govern	ed by the terms and conditions:	DU IDS USABLISA 2509 DELSOY. YOR	1322 Credites aries no co wooden		that I authorize the below analysis subject to the terms and conditions on the reverse herec schedule in effect at the time of the analysis.
Delinquished By:	27.19	Love		Date:	9-28-95 Time: $220099-28-95$ Time: $2200-29-95$ Time: 0800
Pagaired By:	Privili	many		Date: DAY	19-26-95 Time: 28.00
Retinquished By:	2 A	, , , , , , , , ,		Date: 97	-29-95 Time: <u>0800</u>
					Time:
neceived by					
	1,1,1	e ·		احرار الأواع الأراء	্রি ইয়ি ইটি Samples received on ice? Yes □ N
			<u> </u>		
Sample ID	Oate & Time Sampled	8 Lab ID	111118111		Other Analysis Preservative
	x 9-28-99	X 465			
MW-29	1425			- 	acetone
MW-29	X 9-28-95	X 464			624+ yylenes
		 	╶╏┋	- 	
			- 	- 	
		<u> </u>	- - - - - - -		
	+++				
					
Autonomolor	Sampler Location			Fleid pH	Please sign and return the white and yellow cop
<u>Autosampler</u> Date Installed	Time Installe	dFlow_	CF/GPD	Result	to the Laboratory.
Date Picked Up	Time Picked	Up Flow		Analyst Time/Date	
Composite Type:	☐ Flow ☐ Time ☐	Hand		(QA/QC Separate))

7	
ENVIRONMENTAL LABORATORIES	, INC.
11178 DOWNS ROAD	

7, 7,	11178 DOWNS ROAD PINEVILLE, NG 28134	704/588-5076 FAX 704/588-2454			Phone Number: (919)	946-6521 ext 244
Ô	Client: Hackney and	Sous IN	<u>c</u> -		Ear Number 19 19 1 9	75-8344
ı I,	Address: PC: BOY 580 City 10511NG toN	-			Purchase Order Number:	
	City 2 20 5 11 NG ton.	State:	NC Zip: 2	7889	Certification Requirement:	
	Contact Person Charles Mc	SON			PIUIECI Name.	
	Sampled By: Jack Jono	5			Rush Charges Authorized	
	By relinquishing this sample(s) to Laboratory Personnel, I v This agreement is governed by the terms and conditions or		nier into this agreement for the sis charges shall be as include	Clien) named above and id in the Laboratories fee	that I authorize the below analysis subject schedule in effect at the time of the analys	
ַטַ					9-28-95	
Z H	Relinquished By: Received By: Relinquished By: Received By:	200801		Date:	9-29-95	Time:
20	Polinguished By:	g + rus		Date:		
N Z	Received By:		•	Date:		
OS QNE	Date & Time	THE STATE OF THE S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Charles A	San	nples received on ice? Yes \(\text{No } \(\text{D} \)
Œ	Sample ID Sampled	/ G Lab ID	╎┤┤┤ ┼┼┼┼	+++++	/ 	
) 上、	MW-29B X 9-38-45	X 467				0.01010
Z Y	· MW-29B X 9-28.95	X 466			(0)	24+ yylenes
α Ω		X 469	X			· 1
I	MW-280 1230	x 468			62	U + XYIENES
Ø Ø	MW-28P 1230 9-28-9			+++++		7
10	MW-3010 X 1243	X . 4-71				acetone
н	MW-3015 X 9-28-93	X 470		44444	62	4 + Xy/enes
) I	MW-11 X 9-28.95	X 473				
⊢	9-22-95	x 472			111111111111111111111111111111111111111	4 + ylenes
₽. -	MW-11 / 1350			++++	 	
4 !	10W-10X1 1330	X 475		+++++	 	, a cetone
A1	OW-10 X 9-28-92	X 474			62	4 + X y / eves
١	Autosampler Sampler Location			Field pH	Please sign and	return the white and yellow copies;
5	Date Installed Time Installed		CF/GPD	Result	to the Laborator	γ.
ך	Date Picked Up Time Picked L			Analyst Time/Date		,
	Composite Type: ☐ Flow ☐ Time ☐ I	Hand		(QA/QC Separate		

LABORATORY REPORT FOR MW-26D

SAMPLE DATE: December 1, 1995

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

South Carolina Certification Number: 99032

Client #:

248

Contact:

Charles Mason

Receipt Date: 01-Dec-95

North Carolina Certification Number:

Report Date: 22-Dec-95

Sample Date:

01-Dec-95

SDG#:

SDG-000517

Lab Sample ID: LSID-002047 Sample ID:

MW-26D

Approved By:

Kenneth R. Richardson

	•	Reporting	;				
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst
pH	7.00	0	su	EPA 150.1	15:00	12/1/95	JBJ
Water Level	6.37	0	Ft.	Manual Tape	15:00	12/1/95	JBJ
Temperature	19.5	0	Deg. C.	Temperaure	15:00	12/1/95	JBJ

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

North Carolina Certification Number:

South Carolina Certification Number: 99032

Client #:

248

Contact:

Charles Mason

Receipt Date: 01-Dec-95

Report Date: 22-Dec-95

Sample Date:

01-Dec-95

SDG#:

SDG-000517 Lab Sample ID: LSID-002048

Sample ID:

MW-26D

Approved By

Kenneth R. Richardson

	•	Reporting				
Parameter	Result	Limit	Unit	Method	Time Date	Analyst
1,1,1-Trichloroethane	U	5	ppb	EPA 624	12/15/95	DMB
1,1,2,2-Tetrachloroehtane	Ŭ	5	ppb	EPA 624	12/15/95	DMB
1,1,2-Trichloroethane	U	5	ppb	EPA 624	12/15/95	DMB
1,1-Dichloroethane	U	5	ppb	EPA 624	12/15/95	DMB
1,1-Dichloroethene	U	5	ppb	EPA 624	12/15/95	DMB
1,2-Dichlorobenzene	U	5	ppb	EPA 624	12/15/95	DMB
1,2-Dichloroethane	U	5	ppb	EPA 624	12/15/95	DMB
1,2-Dichloropropane	Ū	5	ppb	EPA 624	12/15/95	DMB
1,3-Dichlorobenzene	Ŭ	5	ppb	EPA 624	12/15/95	DMB
1,4-Dichlorobenzne	U	5	ppb	EPA 624	12/15/95	DMB
2-Chloroethylvinyl ether	U	5	ppb	EPA 624	12/15/95	DMB
Acetone	U	10	ppb	EPA 624	12/15/95	DMB
Benzene	U	5	ppb	EPA 624	12/15/95	DMB
Bromodichloromethane	U	5	ppb	EPA 624	12/15/95	DMB
Bromoform	U	5	ppb	EPA 624	12/15/95	DMB
Bromomethane	U	5	ppb	EPA 624	12/15/95	DMB
Carbon Tetrachloride	U	5	ppb	EPA 624	12/15/95	DMB
Chlorobenzene	U	5	ppb	EPA 624	12/15/95	
Chloroethane	U	5	ppb	EPA 624	12/15/95	
Chloroform	U	5	ppb	EPA 624	12/15/95	
Chloromethane	U	5	ppb	EPA 624	12/15/95	

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

Client #:

248

Contact:

Charles Mason

Receipt Date: 01-Dec-95

Report Date: 22-Dec-95

North Carolina Certification Number:

South Carolina Certification Number: 99032

Sample Date:

01-Dec-95

SDG#:

SDG-000517 Lab Sample ID: LSID-002048

Sample ID:

MW-26D

Approved By:

Kenneth R. Richardson

		Reporting					
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst
cis-1,3-Dichloropropene	U	5	ppb	EPA 624		12/15/95	DMB
Dibromochloromethane	U	5	ppb	EPA 624		12/15/95	DMB
Ethyl Benzene	U	5	ppb	EPA 624		12/15/95	DMB
Methylene Chloride	U	5	ppb	EPA 624		12/15/95	DMB
Tetrachloroethene	U	5	ppb	EPA 624		12/15/95	DMB
Toluene	U	5	ppb	EPA 624		12/15/95	DMB
Total Xylenes	U	5	ppb	EPA 624		12/15/95	DMB
trans-1,2-Dichloroethene	U	5	ppb	EPA 624		12/15/95	DMB
trans-1,3-Dichloropropene	U	5	ppb	EPA 624		12/15/95	DMB
Trichloroethene	U	5	ppb	EPA 624		12/15/95	DMB
Trichlorofluoromethane	U	5	ppb	EPA 624		12/15/95	DMB
Vinyl Chloride	U	5	ppb	EPA 624		12/15/95	DMB

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

North Carolina Certification Number:

South Carolina Certification Number: 99032

Client #:

248

Contact:

Charles Mason

Receipt Date: 01-Dec-95

Report Date: 22-Dec-95

Sample Date:

01-Dec-95

SDG#:

SDG-000517

Lab Sample ID: LSID-002049 Sample ID:

MW-26D

Approved By

Kenneth R. Richardson Project Manager

•	1710	Reporting					
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst
1,2,4-Trichlorobenzene	U	10	ppb	EPA 625		12/12/95	JB
1,2-Dichlorobenzene	U	10	ppb	EPA 625		12/12/95	JВ
1,3-Dichlorobenzene	U	10	ppb	EPA 625		12/12/95	JВ
1,4-Dichlorobenzene	U	10	ppb	EPA 625		12/12/95	JВ
2,4,6-Trichlorophenol	U	10	ppb	EPA 625		12/12/95	JВ
2,4-Dichlorophenol	U	10	ppb	EPA 625		12/12/95	JВ
2,4-Dimethylphenol	U	10	ppb	EPA 625		12/12/95	JВ
2,4-Dinitrophenol	'n	50	ppb	EPA 625		12/12/95	JB
2,4-Dinitrotoluene	U	10	ppb	EPA 625		12/12/95	JB
2,6-Dinitrotoluene	U	10	ppb	EPA 625		12/12/95	JB
2-Chlorophenol	U	10	ppb	EPA 625		12/12/95	JВ
2-Chlronaphthalene	U	10	ppb	EPA 625		12/12/95	JВ
2-Methyl-4,6-dinitrophenol	U	50	ppb	EPA 625		12/12/95	JВ
2-Nitrophenol	U	10	ppb	EPA 625		12/12/95	JВ
3,3-Dichlorobenzidine	Ū	50	ppb	EPA 625		12/12/95	JB
4-Bromophenyl phenyl ether	Ŭ	10	ppb	EPA 625		12/12/95	лв
4-Chloro-3-methylphenol	U	10	ppb	EPA 625		12/12/95	JВ
4-Chlorophenyl phenyl ether	U	10	ppb	EPA 625		12/12/95	JB
4-Nitrophenol	U	50	ppb	EPA 625		12/12/95	
Acenaphthene	U	10	ppb	EPA 625		12/12/95	JВ
Acenaphthylene	U	10	ppb	EPA 625		12/12/95	

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

South Carolina Certification Number: 99032

North Carolina Certification Number:

Client #:

Contact:

Charles Mason

Receipt Date: 01-Dec-95

Report Date: 22-Dec-95

Sample Date:

01-Dec-95

SDG#:

SDG-000517

Lab Sample ID: LSID-002049 Sample ID:

MW-26D

Approved By:

Kenneth R. Richardson

	. ,	Reporting					
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst
Anthracene	υ	10	ppb	EPA 625		12/12/95	JB
Benzo(a)anthracene	U	10	ppb	EPA 625		12/12/95	JВ
Benzo(a)pyrene	U	10	ppb	EPA 625		12/12/95	JВ
Benzo(b)fluoranthene	Ŭ	10	ppb	EPA 625		12/12/95	JВ
Benzo(ghi)perylene	U	10	ppb	EPA 625		12/12/95	JВ
Benzo(k)fluoranthene	U	10	ppb	EPA 625		12/12/95	JВ
Bis(2-chloroethoxy) methane	U	10	ppb	EPA 625		12/12/95	JВ
Bis(2-chloroethyl) ether	U	10	ppb	EPA 625		12/12/95	JВ
Bis(2-chloroisopropyl) ehter	Ū	10	ppb	EPA 625		12/12/95	JВ
Bis(2-ethylhexyl) phthalate	U	10	ppþ	EPA 625		12/12/95	JВ
Butyl benzyl phthalate	U	10	ppb	EPA 625		12/12/95	JB
Chrysene	U	10	ppb	EPA 625		12/12/95	JВ
Di-n-butylphthalate	U	10	ppb	EPA 625		12/12/95	JВ
Di-n-octylphthalate	U	10	ppb	EPA 625		12/12/95	JВ
Dibenzo(a,h)anthracene	U	10	ppb	EPA 625		12/12/95	JВ
Diethyl phthalate	U	10	ppb	EPA 625		12/12/95	JВ
Dimethyl phthalate	U	10	ppb	EPA 625		12/12/95	
Fluoranthene	U	. 10	ppb	EPA 625		12/12/95	
Fluorene	U	10	ppb	EPA 625		12/12/95	
Hexachlorobenzene	U	10	ppb	EPA 625		12/12/95	
Hexachlorobutadiene	U	10	ppb	EPA 625		12/12/95	•

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

North Carolina Certification Number: South Carolina Certification Number: 99032

Client #:

Contact:

Charles Mason

Receipt Date: 01-Dec-95

Report Date: 22-Dec-95

Sample Date:

01-Dec-95

SDG#:

SDG-000517 Lab Sample ID: LSID-002049

Sample ID:

MW-26D

Approved By:

Kenneth R. Richardson

		Reporting					
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst
Hexachlorocyclopentadiene	U	10	ppb	EPA 625		12/12/95	JB
Hexachloroethane	U	10	ppb	EPA 625		12/12/95	JВ
Indeno(1,2,3-cd)pyrene	U	10	ppb	EPA 625		12/12/95	JВ
Isophorone	U	10	ppb	EPA 625		12/12/95	JВ
N-Nitrodiphenylamine	Ŭ	10	ppb	EPA 625		12/12/95	JВ
N-Nitrosodi-n-propylamine	U	10	ppb	EPA 625		12/12/95	JВ
Naphthalene	U	10	ppb	EPA 625		12/12/95	JВ
Nitrobenzene	U	10	ppb	EPA 625		12/12/95	JВ
Pentachlorophenol	Ū	50	ppb	EPA 625		12/12/95	JВ
Phenanthrene	U	10	ppb	EPA 625		12/12/95	JВ
Phenol	U	10	ppb	EPA 625		12/12/95	JВ
Pyrene	Ŭ	10	ppb	EPA 625		12/12/95	JВ

CHAIN OF CUSTODY Aqua Chem ENVIRONMENTAL LABORATORIES, INC. 11176 DOWNS ROAD PINEVILLE, NC 28134 704/588-5076 FAX 704/588-2454 Phone Number: (Client: Fax Number: (Purchase Order Number: Certification Requirement: ____ Contact Person Project Name: Sampled By: Jack Rush Charges Authorized ☐ Yes ☐ No By relinquishing this sample(s) to Laboratory Personnel, I warrant that I am authorized to enter into this agreement for the Client named above and that I authorize the below analysis subject to the terms and conditions on the reverse hereof. This agreement is governed by the terms and conditions on the reverse side hereof. Analysis charges shall be as included in the Laboratories fee schedule in effect at the time of the analysis. Relinquished By: Time: Received By: Relinquished By: Received By: Samples received on ice? Yes \(\nabla \) No 🗆 Date & Time Lab ID Other Analysis Preservative Sample ID Sampled SID-7056 2057 · 604 2053 625 7059-624 2060-625

Fleld pH

Result

Analyst

Time/Date

(QA/QC Separate)

Flow

Flow

CF/GPD

Please sign and return the white and yellow copies

to the Laboratory.

experimental states of the contract of the con

Sampler Location

Composite Type: ☐ Flow ☐ Time ☐ Hand

Time Installed

Time Picked Up _

<u>Autosampler</u>

Date Installed

Date Picked Up

-][
	qua C hem	

网络红色 二、

CHAIN OF CUSTODY

ENVIRONMENTAL LABORATORIES, INC. 11176 DOWNS ROAD PINEVILLE, NC 28134	704/588-5076 FAX 704/588-2454			Phone Number: ()	
Client: Hackney a	NO SONS			Fax Number: ()	
Address: 400 Hack N	er Avenuc	e c .		Purchase Order Number: E 8459 7	
City Washing ton	State:	NC Zin: 2	7889		
Contact Person				Certification Requirement:	
Sampled By: Jack Jok	10.6			Project Name:	
		atas into this annual mont for the	Olient comed shave and	Rush Charges Authorized	ea harant
This agreement is governed by the terms and conditions or	n the reverse side hereof. Analy	sis charges shall be as included	in the Laboratories fee :	schedule in effect at the time of the analysis.	
Relinquished By: Received By:	in	····	Date:	12 - 1 - 95 Time: 2100	
Received By: York KI	41000 C		Date:	Time:	
Relinquished By:	<i>;</i>		Date:	Time:	
Received By:				Time:	
/ 5/ 6/	SDC(15/7			Samples received on ice? Yes	No 🗆
등 경 교 Date & Time		S S E S S S S S S S	Selenium Chamical Cha	2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	140
Sample ID / / Sampled /	/8/ / Lab ID			Other Analysis Pres	ervative
MW-11 X 12-1-45	X (SID-2011			Temp. Waster level	
NW-11 X 12-1-95	X 5017 - 674			624,625	1
NW-25 X 12.1-95	X (SID-2044)	X		Temp. Water levell	}
1 12-1-95	2045 -636			624 625	
MW-25 71445	X 2046-WS			111111029,023	
MW-2601 X 12-1-95	x (SID-2047	X		Temp. Water level	···
MW-260 X 12-1-95	2048 - 675 2049 - 675			(024, 625)	
MIN-26 X 12-1-45	X 1910-20-0			Temp. water/eve	
MW-26 X 12-1-95	100 COC X			624 625	
MW-30 X 12-1-95	X 953	X		Temp. Water level	
MW-30 X12610	2054 COS			1024 625	
Autosampler Sampler Location	(1/03)		Field pH		· oorica
Date Installed Time Installed	Flow	CF/GPD	Result	 Please sign and return the white and yellow to the Laboratory. 	copies
Date Picked Up Time Picked U			Analyst Time/Date	io the Laboratory.	
Composite Type: ☐ Flow ☐ Time ☐ F	าสเป		(QA/QC Separate))	

Contraction of the state of the	THERWAY A SERVICE AND A SERVICE AS	. •.		de for Contract de ser	the second section of	Sept. Sept. Sept.
AquaChem		CHAIN OF (CUSTODY	748	•	
ENVIRONMENTAL LABORATORIES, INC. 11176 DOWNS ROAD PINEVILLE, NC 28134 Client: Hackyell and	704/588-5076 FAX 704/588-2454 ol Sows			Phone Number: ()_		
Address: 400 Hackney			· · · · · · · · · · · · · · · · · · ·	Fax Number: ()	E84597	
City Washing from	State: N	こ Zip: マ	7889	•		
Contact Person		•		•		
Sampled By: Jack Tope	6			Rush Charges Authorized		
By relinquishing this sample(s) to Laboratory Personnel, I was This agreement is governed by the terms and conditions on	arrant that I am authorized to enter into	this agreement for the (Client named above and I in the Laboratories fee	that I authorize the below analysis subject	to the terms and conditions on the reverse h	nereof.
Relinquished By: Kal	1	•	•	12-1-95)
Received By: CKKI	Morel		Date:	12-4-95	Time:	
Relinquished By:	ž.		Date:		Time:	
Received By:	<u></u>		Date:		Time:	
Sample ID Sample ID Sampled		TSS Ammonia Cyanice Pleno	Selentim Chronium Chronium Chronium Michel		ples received on ice? Yes D	No □
MW-29B X 12-1-95	X 19D-2U26	X		Tempa	water level	
MW-29B X 12-1-95	X 2028 624 705			624	, 625	
MW-28BX 12-1-95	X (SID-2029)	X		Temp.	Water level	
MW-286 X 1255	X 3031-625			624	, 625	<u> </u>
MW-30BX 1240	X:1SID-2032			temp.	water level	
MW-30B X 12-1-95	X .3024 -625			624	625	
0W-1D X 12-1-95	X 15112-2035			Temp	". Wasterlevel	
OW-10 X12-1-95	X 1036-621 2037-625			624	625	
0 W-15 X 1308	X 15112-20-18 xxx	<u> </u>		Temp	o water level	
012 15 V12-1-95	V 2010 1 15			/っっぴ	6751	1

Field pH Result___ Sampler Location_ Flow_ _CF/GPD Analyst ____ Time/Date_ Flow_

(QA/QC Separate)

Please sign and return the white and yellow copies to the Laboratory.

LABORATORY REPORT FOR MW-26D

SAMPLE DATE: March 14, 1996

Certificate of Analysis

4.

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

Client #:

248

Contact:

Charles Mason

14-Mar-96

SDG#:

SDG-000947 Lab Sample ID:LSID-003518

Sample ID:

Sample Date:

MW-26d

North Carolina Certification Number:

South Carolina Certification Number: 99032

Receipt Date: 15-Mar-96

Report Date: 18-Apr-96

Approved By:

Kenneth R. Richardson

							
		Reporting					
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst
1,1,1-Trichloroethane	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,1,2,2-Tetrachloroehtane	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,1,2-Trichloroethane	U	10	ppb	EPA 624	11:35	3/28/96	SVG
1,1-Dichloroethane	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,1-Dichloroethene	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,2-Dichlorobenzene	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,2-Dichloroethane	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,2-Dichloropropane	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,3-Dichlorobenzene	U	5	ppb	EPA 624	11:35	3/28/96	SVG
1,4-Dichlorobenzne	U	5	ppb	EPA 624	11:35	3/28/96	SVG
2-Chloroethylvinyl ether	U	10	ppb	EPA 624	11:35	3/28/96	SVG
Acetone	U	15	ppb	EPA 624	11:35	3/28/96	SVG
Benzene	U	5	ppb	EPA 624	11:35	3/28/96	SVG
Bromodichloromethane	U	5	ppb	EPA 624	11:35	3/28/96	SVG
Bromoform	U	5	ppb	EPA 624	11:35	3/28/96	SVG
Bromomethane	U	10	ppb	EPA 624	11:35	3/28/96	SVG
Carbon tetrachloride	U	10	ppb	EPA 624	11:35	3/28/96	SVG
Chlorobenzene	U	5	ppb	EPA 624	11:35	3/28/96	SVG
Chloroethane	U	10	ppb	EPA 624	11:35	3/28/96	SVG
Chloroform	U	5	ppb	EPA 624	11:35	3/28/96	SVG
Chloromethane	U	5	ppb	EPA 624	11:35	3/28/96	SVG

Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

Client #:

248

Contact:

Charles Mason

Receipt Date: 15-Mar-96

Report Date: 18-Apr-96

North Carolina Certification Number:

South Carolina Certification Number: 99032

Sample Date:

14-Mar-96

SDG#:

SDG-000947

Lab Sample ID: LSID-003518

Sample ID:

MW-26d

Approved By:

Kenneth R. Richardson

305

	Reporting	
Result	Result Limit Unit Method Time	Date Analyst
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Certificate of Analysis

Client:

Hackney and Sons

400 Hackney Ave., P.O. Box 880

Wahington, NC 27889

Client #:

248

Contact:

Charles Mason

Receipt Date: 15-Mar-96

North Carolina Certification Number:

South Carolina Certification Number: 99032

Report Date: 18-Apr-96

Sample Date:

14-Mar-96

SDG#:

SDG-000947 Lab Sample ID:LSID-003519

Sample ID:

MW-26d

Approved By;

Kenneth R. Richardson

Project Manager

	•	Reporting					
Parameter	Result	Limit	Unit	Method	Time	Date	Analyst
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State of North Carolina Department of Environment. Health and Natural Resources Division of Environmental Management

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary A. Preston Howard, Jr., P.E., Director



DIVISION OF WATER QUALITY GROUNDWATER SECTION July 25, 1996

Ms. Tina C. Calhoun, P.E. ENSCI Engineering Group Post Office Box 80275 Raleigh, North Carolina 28523

RE: Site Closure Request for Hackney and Sons, Inc. Washington, North Carolina - Beaufort County, Groundwater Incident No. 9949

Dear Ms. Calhoun:

The Groundwater Section of the Washington Regional Office has received the referenced report, dated June 20, concerning the Hackney and Sons, Inc. facility in Washington, North Carolina. The report states that groundwater sampling over the past nine (9) months has not detected any compounds above the groundwater quality standards specified in Title 15A, North Carolina Administrative Code, Subchapter 2L (15A NCAC 2L) paragraph .0202, indicating that the groundwater contaminant plume has been remediated.

. While we agree that the data suggests remediation has been successful, please be advised that current policy requires the submittal of four (4) consecutive quarterly monitoring events with no violations of 15A NCAC 2L groundwater quality standards before a site can be considered for close out. Since your report references only three (3) quarterly sampling events, we must deny your request for site closure at this time.

Our records indicate that quarterly groundwater sampling was to be conducted in June 1996. If the results of this sampling event do not show any exceedances of the groundwater quality standards, please resubmit your request and our office will reconsider this decision.

Ms. Tina Calhoun - ENSCI July 25, 1996 Page Two

If you have any questions, or wish to discuss this matter further, please contact me at (919) 946-6481.

Sincerely,

Guy Pearce

Hydrogeologist I

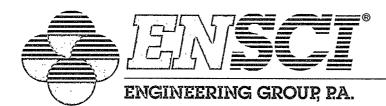
cc: WaRO Files

June 20, 1996

RECEIVED WASHINGTON OFFICE

JUN 2 1 1996

D. E. M.



Mr. Willie Hardison
North Carolina Department of Environment,
Health, and Natural Resources
Washington Regional Office
1424 Carolina Avenue
Washington, North Carolina 27889

RE: Site Closure Report

Hackney & Sons facility
Washington, North Carolina
ENSCI Project No.: EE32301
DEM Incident No.: 9949

Dear Mr. Hardison,

Please find enclosed a completed copy of the closure request for the above referenced site. ENSCI Engineering Group, P.A. has prepared this document on behalf of Hackney & Sons, Inc. The report does recommend closure of the site based on the successful completion of remedial activities.

If ENSCI can be of any assistance in evaluating this request, please contact our office at (919) 467-1227.

Sincerely,

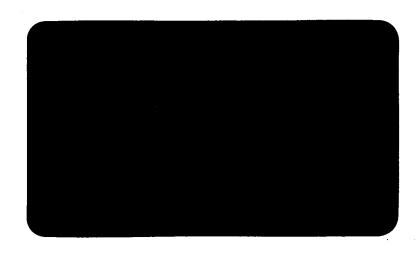
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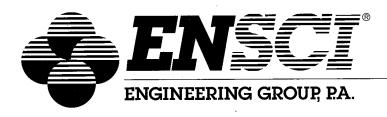
Tina C. Calhoun, P.E.

TCC enclosure

1108 Old Thomasville Road

High Point, North Carolina 27260





SITE CLOSURE

HACKNEY & SONS, INC.
WASHINGTON, NORTH CAROLINA
BEAUFORT COUNTY
DEM Incident No. 9949

PREPARED FOR
HACKNEY & SONS, INC.
400 HACKNEY AVENUE
WASHINGTON, NORTH CAROLINA 27889

PREPARED BY ENSCI ENGINEERING GROUP, P.A.



ENSCI Project No. EE32301 June 20, 1996



1.0 INTRODUCTION

ENSCI Engineering Group, P.A. (ENSCI) was contracted by Hackney & Sons, Inc. to develop a site closure request for the Hackney & Sons, Inc. (Hackney) facility at the below location:

Hackney & Sons, Inc. 400 Hackney Avenue Washington, North Carolina 27889 Beaufort County

This Site Closure has been prepared in accordance with North Carolina groundwater regulations as specified in Title 15A of the North Carolina Administrative Code, Subchapter 2L, for submission to the Washington Regional Office of the North Carolina Department of Environment, Health, and Natural Resources, Division of Environmental Management (DEM). The goal of this report is to illustrate the success of the remedial actions taken at the site to date, and to give data supporting the conclusion that no further action is necessary at the referenced site.

2.0 SITE HISTORY

The referenced facility is a production site for specialty, commercial, transfer vehicles. Suspect contamination was initially discovered during Phase I activities in May and June of 1990. The contamination of groundwater was confirmed during Phase II activities. A Comprehensive Site Assessment Report (CSA) was prepared and submitted by ENSCI to Hackney & Sons, Inc. on November 12, 1992. A Corrective Action Plan (CAP) was subsequently prepared by ENSCI and submitted to Hackney & Sons, Inc. on February 25, 1993. The CAP was implemented in November, 1993.

During the preparation of the CSA, 12 monitoring wells and 6 temporary piezometers were installed and sampled. The monitoring well locations are depicted in Figure 1, and the sampling results are summarized in Appendix A, Tables 1 & 2. Contamination was discovered in two distinct areas, the Repair and Storm Drain Area and the Extrusion Storage Area.

After the installation of the remedial system, influent/effluent samples and flow readings were taken monthly, and monitoring well samples were taken quarterly. Appendix B, Table 3, summarizes the flow readings taken from the two control panels since the system was started in November of 1993. Appendix B, Tables 4 & 5 summarizes the sampling results from the influent and effluent samples taken from the system over the last seven months. Appendix C, Tables 6 through 11, summarizes the Quarterly Monitoring efforts at the site over the last nine months. The routine monitoring of the system and the monitoring wells has illustrated a decrease in contaminants in both areas over time.

3.0 REMEDIATION SYSTEM

The remediation system installed at the site was a pump and treat system. Three groundwater recovery wells and a pump control panel were installed in the Extrusion Storage Area. Four groundwater recovery wells and a pump control panel were installed in the Repair Area. All the recovery wells were constructed of 8-inch diameter schedule 40 PVC, installed to a depth of approximately 12 feet, and covered with a flush-mounted steel vault.

The groundwater recovered from the recovery wells was treated by a biological treatment system. The system consisted of two equalization tanks and a bio-reactor. One equalization tank was placed prior to the bio-reactor and the second placed prior to discharge.

4.0 RISK ASSESSMENTS

The site and surrounding properties are served by a public water system. Underground utilities do exist in the vicinity of the original plume areas; however, these conduits are located above the water table and should not have provided pathways for contaminant migration. There is a ditch in the vicinity of one of the contaminated areas. This ditch does not intersect the water table, nor does it show any signs of contamination since the plume's initial discovery. The initial low risk to human health of this site has not changed since the initial site assessment.

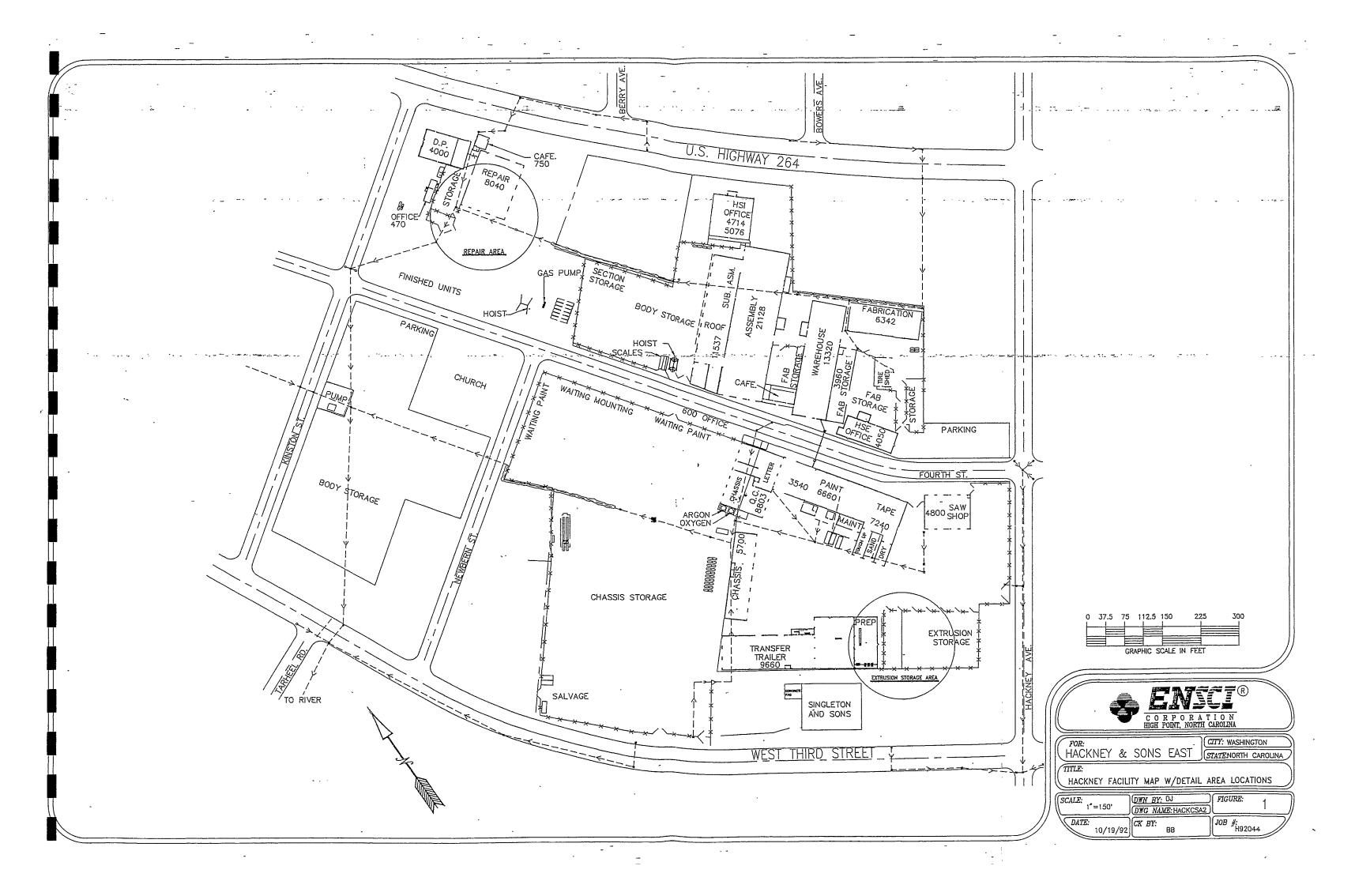
5.0 CONCLUSIONS

From the data collected over the last nine months, it is evident the remedial actions taken at the site were successful. The contaminant levels in the previous areas of contamination have remained below 2L standards over the last nine months. The influent stream to the remediation system is also below 2L standards. The risk level for this site remains extremely low as discussed earlier. Therefore, it is the opinion of ENSCI that remedial actions at the Hackney facility be terminated, the monitoring recovery wells be abandoned, and the treatment system be removed.

This report prepared by:

ENSCI Engineering Group, P.A.

Tina C. Calhoun, P.E. Project Manager



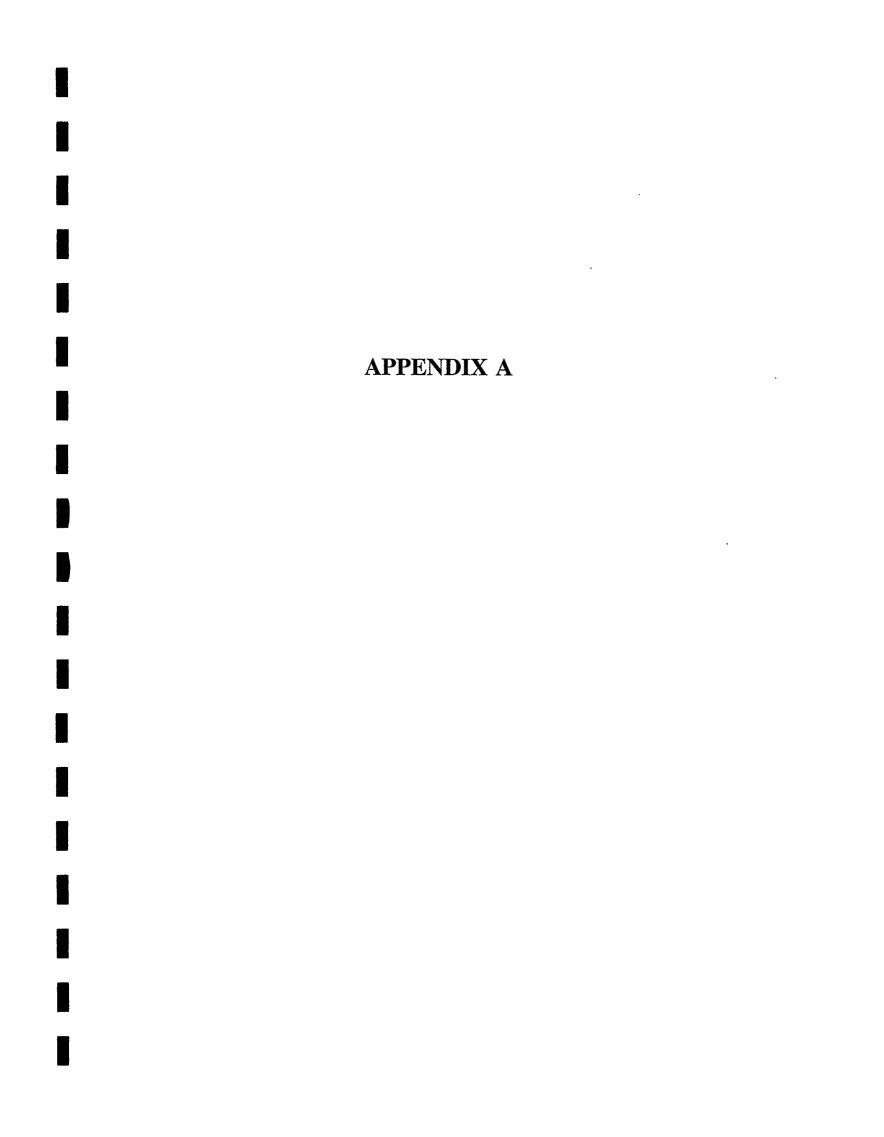


TABLE 1

GROUNDWATER CONTAMINANT CONCENTRATIONS SUMMARIZED FROM CSA REPAIR AND STORM DRAIN AREA EPA Method 8240

Well	Date	Methylene Chloride	Acetone	Carbon Disulfide	1,1- Dichloroethane	1,1,1- Trichloroethane	Carbon Tetrachloride	MIBK	Toluene	Xylene (total)	Benzoic Acid	Dibutyl Phthalate	Bis (2-Ethylhexyl) Phthalate
MW-22	5-22-91	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.6	2.3
MW-23	5-22-91	BDL	BDL	BDL	BDL	8.9	1.1	BDL	2.1	BDL	3.8	6.3	2.5
MW-24B	5-27-91	4.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	27
MW-25B	5-27-91	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8	6.3	2.5
MW-26B	5-27-91	3.5	8.4	2.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	61	86
MW-27B	5-27-91	3.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.5	83
MW-28B	5-27-91	2.8	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15	110
MW-29B	5-27-91	4.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	19	50
MW-30B	5-27-91	3.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8	26
MW-31B	5-27-91	20000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.3	30
OW #1s	3-20-91	BDL	5.0	BDL	6.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
OW #1d	11-2-90	4.9	BDL	BDL	BDL	2.0	BDL	3.2	12	12	BDL	BDL	58
WQ #1	5-22-91	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	52	2.8	38
WQ #1d	5-22-91	1.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
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NOTES:

This table summarizes only compounds that were detected at the site during the site assessment.

BDL represents values below the detection limits of the analytical method.

Bold values represents concentrations above the 15A NACA 2L standards.

2L indicates concentrations from the 15A NCAC 2L standards.

TABLE 2

GROUNDWATER CONTAMINANT CONCENTRATIONS AS SUMMARIZED IN THE CSA EXTRUSION STORAGE AREA EPA Method 8240

Well	Date	Methylene Chloride	Acetone	Carbon Disulfide	Trans-1,2- Dichloroethene	1,1,1- Trichloroethane	Trichloroethene	Tetrachloroethene	Xylene (total)	Phenol	Benzoic Acid	Dibutyl Phthalate	Bis (2-Ethylhexyl) Phthalate
MW-25	5-22-91	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15	2.5	13
MW-26S	5-22-91	5.0	12	19	30	1.4	2.5	16	BDL	BDL	9.5	BDL	21
MW-26D	5-22-91	1.1	BDL	BDL	2.0	BDL	BDL	BDL	BDL	3.6	BDL	BDL	2.6
MW-27	5-22-91	1.0	BDL	5	1.4	BDL	BDL	7.8	BDL	BDL	42	2.2	9.6
MW-28	5-22-91	BDL	14	BDL	2.4	BDL	BDL	BDL	BDL	BDL	BDL	3.9	4.2
MW-30	5-22-91/	BDL	8.4	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	4.4	BDL
SUMP	2-91	14000	BDL	BDL	26000	BDL	3100	10000	2700	BDL	BDL	BDL	BDL
2L		5.0	100	700	5.0	200	2.8	0.7	400	5.0	5.0	5.0	5.0

NOTES:

This table summarizes only compounds that were detected at the site during the site assessment.

BDL represents values below the detection limits of the analytical method.

Bold values represents concentrations above the 15A NACA 2L standards.

2L indicates concentrations from the 15A NCAC 2L standards.



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TABLE 3
RECOVERED GROUNDWATER SUMMARY

Date	Gallons Recovered	Comments
November, 1993	4185	
December, 1993	20420	
January, 1994	13370	
February, 1994	27005	
March, 1994	109505	3-3-94: ENSCI cleaned pumps
April, 1994	49583	4-10 to 4-20: Computer down
May, 1994	27247	
June, 1994	17390	
July, 1994	9968	
August, 1994	5090	
September, 1994	7360	
October, 1994	31370	10-3-94: ENSCI cleaned pumps
November, 1994	21430	
December, 1994	14245	
January, 1995	8525	
February, 1995	2090	Partial shut down due to frozen line
March, 1995	820	
April, 1995	2010	
May, 1995	24360	5-5-95: ENSCI cleaned pumps
June, 1995	34920	
July, 1995	30200	
August, 1995	74260	8-3-96: Repaired wells in Area A
September, 1995	90090	
October, 1995	88680	
November, 1995	44881	
December, 1995	54150	
January, 1996	36580	
February, 1996	25060	Well recovery rates decreasing
March, 1996	3960	3-14-96: Pumps cleaned
Total	878454	

TABLE 4

REMEDIATION SYSTEM INFLUENT AND EFFLUENT SAMPLE RESULTS SIX MONTH SUMMARY EPA Method 624

								, 		1	,	
Parameter	INF 26-I	EFF 26-E	INF 27-I	EFF 27-E	INF 28-I	EFF 28-E	INF 29-I	EFF 29-E	INF 30-1	EFF 30-E	INF 31-I	EFF 31-E
	10-12-95	10-12-95	11-6-95	11-6-95	12-1-95	12-1-95	1-8-96	1-8-96	2-12-96	2-12-96	3-15-96	3-15-96
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichlorothene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-dichlorothane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BĎL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:

BDL represents values below the detection limits of the analytical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 4 (cont)

REMEDIATION SYSTEM INFLUENT AND EFFLUENT SAMPLE RESULTS SIX MONTH SUMMARY EPA Method 624

Parameter	INF-26-I	EFF-26-E	INF-27-I	EFF-27-E	INF-28-I	EFF-28-E	INF-29-I	EFF-29-E	INF-30-I	EFF-30-E	INF-31-I	EFF-31-E
	10-12-95	10-12-95	11-6-95	11-6-95	12-1-95	12-1-95	1-8-96	1-8-96	2-12-96	2-12-96	3-15-96	3-15-96
Chloroethane	BDL											
Chloroform	BDL											
Chloromethane	BDL											
Cis-1,3-Dichloropropene	BDL											
BDLTribromochloromethane	BDL											
Ethyl Benzene	BDL											
Methylene Chloride	BDL											
Tetrachloroethene	BDL	BDL	5.1	BDL								
Toluene	BDL											
Total Xylenes	BDL											
trans-1,2-Dichloroethene	BDL											
trans-1,3-Dichloropropene	BDL											
Trichloroethene	BDL											
Trichlorofluoromethane	BDL											
Vinyl Chloride	BDL											

NOTES:

BDL represents values below the detection limits of the analytical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 5 REMEDIATION SYSTEM INFLUENT AND EFFLUENT SAMPLE RESULTS SIX MONTH SUMMARY EPA Method 625

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Parameter	INF-26-I	EFF-26-E	INF-27-I	EFF-27-E	INF-28-I	EFF-28-E	INF-29-I	EFF-29-E	INF-30-I	EFF-30-E	INF-31-I	EFF-31-E
	10-12-95	10-12-95	11-6-95	11-6-95	12-1-95	12-1-95	1-8-96	1-8-96	2-12-96	2-12-96	3-15-96	3-15-96
1,2,4-Trichlorobenzene	BDL											
1,2-Dichlorobenzene	BDL											
1,3-Dichlorobenzene	BDL											
1,4-Dichlorobenzene	BDL											
2,4,6-Trichlorophenol	BDL	BDL.	BDL	BDL								
2,4-Dichlorophenol	BDL											
2,4-Dimethylphenol	BDL											
2,4-Dinitrophenol	BDL											
2,4-Dinitrotoluene	BDL											
2,6-Dinitrotoluene	BDL											
2-Chlorophenol	BDL											
2-Chlronaphthalene	BDL											
2-Methyl-4,6-dinitrophenol	BDL											
2-Nitrophenol	BDL											
3,3-Dichlorobenzidine	BDL											
4-Bromophenyl phenyl ether	BDL											
4-Chloro-3-methylphenol	BDL											
4-Chlorophenyl phenyl ether	BDL											
4-Nitrophenol	BDL											
Acenaphthene	BDL											
Acenaphthylene .	BDL											
Anthracene	BDL											
Benxo(a)anthracene	BDL											
Benzo(a)pyrene	BDL											
Benzo(b)fluoranthene	BDL											
Benzo(ghi)perylene	BDL											
Benzo(k)flouoranthene	BDL											

NOTES:

BDL represents values below the detection limits of the analyitical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 5 (cont) REMEDIATION SYSTEM INFLUENT AND EFFLUENT SAMPLE RESULTS SIX MONTH SUMMARY EPA Method 625

Parameter	INF-26-I	EFF-26-E	INF-27-I	EFF-27-E	INF-28-I	EFF-28-E	INF-29-I	EFF-29-E	INF-30-I	EFF-30-E	INF-31-I	EFF-31-E
	10-12-95	10-12-95	11-6-95	11-6-95	12-1-95	12-1-95	1-8-96	1-8-96	2-12-96	2-12-96	3-15-96	3-15-96
Bis(2-chloroethoxy) methane	BDL											
Bis(2-chloroethyl) ether	BDL											
Bis(2-chloroisopropyl) methane	BDL											
Bis(2-ethylhexyl) phthalate	BDL											
Butyl benzyl phthalate	BDL											
Chrysene	BDL											
Di-n-butylphthalate	BDL											
Di-n-octylphthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL.	BDL	BDL	BDL	BDL	BDL
Dibenzo(a,h)anthracene	BDL											
Diethyl phthalate	BDL											
Dimethyl phthalate	BDL											
Fluoranthene	BDL											
Fluorene	BDL											
Hexachlorobenzene	BDL											
Hexachlorobutadiene	BDL											
Hexachlorocyclopentadiene	BDL											
Hexachloroethane	BDL											
Indeno(1,2,3-cd)pyrene	BDL											
Isophorone	BDL											
N-Nitrodiphenylamine	BDL											
N-Nitrosodi-n-propylamine	BDL											
Naphthalene	BDL											
Nitrobenzene	BDL											
Pentachlorophenol	BDL											
Phenanthrene	BDL											
Phenol	BDL											
Pyrene	BDL											

NOTES:

BDL represents values below the detection limits of the analyitical method. Bold values represents concentrations above the 15A NACA 2L standards.

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TABLE 6

QUARTERLY MONITORING SUMMARY September, 1995 EPA Method 624

Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tretachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	24	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tribromochloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	BDL	BDL	BDL 🥦	5.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 7

QUARTERLY MONITORING SUMMARY September, 1995 EPA Method 625

	 	Т	T	T 	 			7		T	 		
Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL.	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlronaphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Methyl-4,6-dinitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL ·
2-Nitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chlorophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL ·	BDL	BDL
4-Nitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benxo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)flouoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:

BDL represents values below the detection limits of the analyitical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 7 (cont)

QUARTERLY MONTIORING SUMMARY September, 1995 EPA Method 625

Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
Bis(2-chloroethoxy) methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl) ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl) methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl) phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Butyl benzyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-butylphthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-octylphthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dimethyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isophorone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrodiphenylamine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-propylamine	BDL	BDL	BDL	BDL	BDL	BDL	BDŁ	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:

BDL represents values below the detection limits of the analytical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 8 QUARTERLY MONITORING SUMMARY December, 1995 EPA Method 624

Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tretachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tribromochloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	BDL	BDL	BDL	5.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 9

QUARTERLY MONITORING SUMMARY December, 1995 EPA Method 625

									-				
Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlronaphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Methyl-4,6-dinitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Nitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chlorophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benxo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)flouoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:

BDL represents values below the detection limits of the analytical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 9 (cont)

QUARTERLY MONTIORING SUMMARY December, 1995 EPA Method 625

Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
Bis(2-chloroethoxy) methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl) ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl) methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl) phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Butyl benzyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-butylphthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-octylphthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL ·	BDL	BDL	BDL	BDL
Diethyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dimethyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isophorone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrodiphenylamine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-propylamine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:

BDL represents values below the detection limits of the analyitical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 10 QUARTERLY MONITORING SUMMARY March, 1996 EPA Method 624

Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tretachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tribromochloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	BDL	BDL	BDL	5.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 11

QUARTERLY MONITORING SUMMARY March, 1996 EPA Method 625

Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL	BDL	BDL ·	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chironaphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Methyl-4,6-dinitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Nitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Chlorophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benxo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)flouoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:

BDL represents values below the detection limits of the analyitical method. Bold values represents concentrations above the 15A NACA 2L standards.

TABLE 11 (cont)

QUARTERLY MONTIORING SUMMARY March, 1996 EPA Method 625

Baramatar	3.4537.44	MW 25	1077.00	MOVICE	NGW 25	A COLUMN	N. 600	2007 000	2071.00	LATE CON	NOW COT	OTT #2 -	
Parameter	MW-11	MW-25	MW-26	MW-26D	MW-27	MW-28B	MW-29	MW-29B	MW-30	MW-30B	MW-31B	OW #1d	OW #1s
Bis(2-chloroethoxy) methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl) ether	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl) methane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl) phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Butyl benzyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-butylphthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-octylphthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Diethyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dimethyl phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isophorone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrodiphenylamine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-propylamine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL _	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phenol	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

NOTES:

BDL represents values below the detection limits of the analytical method. Bold values represents concentrations above the 15A NACA 2L standards.

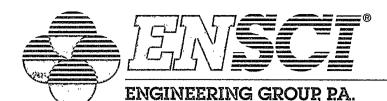
Post Office Box 80275 Rateigh, North Carolina 27623-0275 **T** (919) 787-8209 **F** (919) 881-8205

1108 Old Thomasville Road High Point, North Carolina 27260 **T** (919) 883-7505

F (919) 882-7958

D. E. M.

June 5, 1996



Guy Pierce North Carolina Department of Environment, Health and Natural Resources Division of Environmental Management Washington Regional Office 1424 Carolina Avenue Washington, NC 27889

Re:

Hackney & Sons

Site Closure Request

Dear Guy Pierce:

To reiterate the message from Lynn Daniel on May 30, 1996, it is acceptable for the remediation system located at the above referenced facility to remain inoperative during closure request activities, as long as the closure request is submitted within the next few weeks. As I informed Ms. Daniel on May 29, 1996, the system at the referenced facility is currently inoperative apparently due to a control panel malfunction. ENSCI, at the request of Hackney & Sons, was to review the site for closure when this problem arose. Hackney & Sons and ENSCI appreciate your willingness to work with us on providing the most economical and environmentally beneficial solution to this series of events.

The Closure Request should be mailed to your office by June 21, 1996. If the request is not approved by your office, ENSCI will work with Hackney & Sons, and your office to provide the best remedial alternative for the current site conditions.

Sincerely,

ENSCI ENGINEERING GROUP, P.A.

Tina C. Calhoun, P.E.

Project Manger

cc: Hackney & Sons

TC/js

1108 Old Thomasville Road High Point, North Carolina 27260

Post Office Box 80275

Raleigh, NC 27623-0275

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Management

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary A. Preston Howard, Jr., P.E., Director



March 18, 1996

RECEIVED WASHINGTON OFFICE

Hackney and Sons, Inc. 400 Hackney Avenue Washington, NC 27889

MAR 2 0 1996

D. E. M.

Attn: Mr. Jay A. Witte

Director of Operations

SUBJECT: Permit No. WQ0007970/GW95175

Hackney and Sons, Inc.

Groundwater Incident No. 9949

Groundwater Remediation Facilities with Injection Wells

Beaufort County

Dear Mr. Witte:

In accordance with the policy of the Division of Environmental Management to ensure the good quality of North Carolina's groundwater, the referenced Permit requires several activities related to groundwater monitoring. The following guidelines and forms are presented to assist you in complying with those requirements. If you have any questions concerning these matters, you should contact Willie Hardison at the address shown below to discuss the requirements relevant to your specific facility:

Washington Regional Office 1424 Carolina Avenue Washington, NC 27889 (919) 946-6481

Groundwater Condition No. IV.6.: Sampling of the referenced wells on the schedule and for the constituents listed below:

SCHEDULE: Monitor wells MW-25, MW-26, MW-26d, MW-30, MW-11, MW-28B,

MW-29B, MW-30B, OW-1d, and OW-1s shall be sampled every March, June,

September, and December.

<u>CONSTITUENTS</u>: Acetone Water Levels

EPA Method 624 (VOCs) Xylenes

pH

EPA Method 625 (Semi-Volatile Organic Compounds) -- In December only.

Groundwater Section,
P.O. Box 29578, Raleigh, North Carolina 27626-0578
2728 Capital Blvd., Raleigh, North Carolina 27604
Reduce



Mr. Witte March 18, 1996 Page 2

The measurement of water levels must be made prior to sampling for the remaining parameters.

The results of all analyses specified in the monitoring requirements must be submitted simultaneously.

- * A supply of forms (GW-59) on which the analytical results must be reported is attached. Instructions are provided on the reverse of the white copy of each four-part form. The analytical results should be sent the address shown at the top of the form and is due in our office no later than the last working day of the month following sample collection.
- * FOR ANY ADDITIONAL INFORMATION RELATED TO REQUIREMENTS FOR GROUNDWATER QUALITY PROTECTION, PLEASE REFER TO YOUR PERMIT. A copy of the Groundwater Requirements for Permit No. WQ0007970 is attached for your reference.

If you have any questions, please do not hesitate to contact me at (919) 715-6168.

Sincerely,

Cynthia A. Boyles

Hydrogeological Technician II

Cynthia a. Boyles

Permits and Compliance

Groundwater Section

Attachments

cc: Willie Hardison

Compliance Monitoring Files

IV. GROUNDWATER REQUIREMENTS

1. The <u>COMPLIANCE BOUNDARY</u> for the disposal system is specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards. The Compliance Boundary is for the disposal system constructed after December 31, 1983 is established at either (1) 250 feet from the waste disposal area, or (2) 50 feet within the property boundary, whichever is closest to the waste disposal area. An exceedance of Groundwater Quality Standards at or beyond the Compliance Boundary is subject to immediate remediation action in addition to the penalty provisions applicable under General Statute 143-215.6A(a)(1).

In accordance with 15A NCAC 2L, a <u>REVIEW BOUNDARY</u> is established around the disposal systems midway between the Compliance Boundary and the perimeter of the waste disposal area. Any exceedance of standards at the Review Boundary shall require remediation action on the part of the permittee.

- 2. Any additional groundwater quality monitoring, as deemed necessary by the Division, shall be provided.
- 3. The treatment system shall consist of a biological degradation unit, as described in the permit application documents
- 4. The two injection wells shall be constructed of 18 inch diameter stainless steel casing and the screened interval and grouting of each well shall be as indicated in the approved specifications. The wells shall be constructed such that the screened interval of each well is located from 3 feet to 8 feet below land surface, as described in the permit application. Also each wellhead shall be equipped to measure the injection pressure at the screened interval.
- 5. Injection pressures shall not be greater than the ambient pressure exerted at the screened interval due to the differential in the water table and the water level in the well. If operating pressures are to be increased above this level, the permittee must obtain approval from the Washington Regional Groundwater Supervisor prior to increasing injection pressures.
- 6. Monitor wells MW-25, MW-26, MW-26d, MW-29, MW-30, MW-11, MW-28B, MW-29B, MW-30B, OW-1d, and OW-1s shall be sampled every March, June, September, and December for the following parameters:

EPA Methods 624 (Volatile Organic Compounds - including acetone and xylenes) pH
Water Level

EPA Method 625 (Semi-volatile Organic Compounds) - in December only

The measurement of water levels must be made prior to sampling for the remaining parameters. The depth to water in each well shall be measured from the surveyed point on the top of the casing.

The measuring points (top of well casing) of all monitoring wells shall be surveyed to provide the relative elevation of the measuring point for each monitoring well.

The results of the sampling and analysis shall be sent to the Groundwater Section, Permits and Compliance Unit, P.O. Box 29578 Raleigh, N.C. 27626-0578 on Form GW-59 [Compliance Monitoring Report Form] every April, July, October, and January.

7. The influent and effluent from the treatment system shall be sampled monthly for the parameters specified below:

EPA Methods 624 (Volatile Organic Compounds - including acetone and xylenes) pH
Water Level

EPA Method 625 (Semi-volatile Organic Compounds) - in December only

The results of the sampling and analysis shall be sent to the Groundwater Section, Permits and Compliance Unit, P.O. Box 29578 Raleigh, N.C. 27626-0578 every April, July, October, and January, along with the groundwater data.

Three copies of the influent and effluent data required should also be sent to the following address by March 1 of each year:

Division of Environmental Management Water Quality Facilities Assessment Unit P.O: Box 29535 Raleigh, North Carolina 27626-0535

- 8. The groundwater treatment system shall consistently achieve at least a 95% treatment efficiency (i.e. remove 95% of the influent contaminants) prior to discharge to the injection wells. If the treatment system fails to consistently achieve this standard, additional treatment units or changes in operational methods, may be required.
- 9. All components of the groundwater recovery, treatment, and disposal system shall be properly weather-proofed to prevent freezing and failure of the system.
- 10. The groundwater recovery, treatment and disposal system shall be inspected weekly. If it is determined that the system is malfunctioning, all repairs should be made as soon as possible and reported to the Washington Regional Office within 48 hours.
- 11. Isoconcentration (lines connecting points of equal concentration) maps in both the vertical and horizontal directions shall be developed using the December groundwater monitoring data for total volatile and semi-volatile hydrocarbons A water level contour map must also be developed on a quarterly basis. These maps shall be submitted along with all other monitoring data for that period.
- 12. The permittee shall submit a report outlining the injection volumes and pressures of the injection wells. This report may be submitted along with all other monitoring data.
- 13. All wells that are constructed for purposes of groundwater monitoring shall be constructed in accordance with 15A NCAC 2C .0108 (Standards of Construction for Wells Other than Water Supply) and any other state and local laws and regulations pertaining to well construction.
- 14. Prior to operation of the groundwater remediation system, the permittee shall certify the mechanical integrity of the injection wells as defined by 15A NCAC 2C .0207. Additionally, an engineering certification shall be provided stating that the injection wells have been constructed in accordance with 15A NCAC 2C .0200 and the conditions of this permit. This certification shall be forwarded to the Groundwater Section Permits Unit, P.O. Box 29578, Raleigh, NC, 27626-0578 prior to operation of the system.
- 15. The two injection wells shall be constructed such that the screened interval of each well is located from 3 feet to 8 feet below land surface, as described in the permit application.

- 16. Within sixty (60) days of completion of all monitoring wells, the permittee shall submit two original copies of a scaled topographic map (scale no greater than 1":100') signed and sealed by a professional engineer or a state licensed land surveyor that indicates all of the following information:
 - a. the location and identity of each monitoring well,
 - b. the location of the waste disposal system,
 - c. the location of all property boundaries,
 - d. the latitude and longitude of the established horizontal control monument,
 - e. the relative elevation of the top of the well casing (which shall be known as the "measuring point"), and
 - f. the depth of water below the measuring point at the time the measuring point is established.
- 17. Upon completion of all well construction activities, a certification must be received from a professional engineer certifying that the monitoring wells are located and constructed in accordance with the Well Construction Standards (15A NCAC 2C) and this permit. This certification should be submitted with copies of the Well Completion Form (GW-1) for each well. Mail this certification and the associated GW-1 forms to the Permits and Compliance Unit, Groundwater Section, P.O. Box 29578, Raleigh, NC, 27626-0578.
- 18. For the initial sampling of the well as specified elsewhere in the permit, the permittee shall submit a copy of the GW-1 Form (Well Completion Form) with the Compliance Monitoring Form (GW-59) for that well. Compliance Monitoring Forms that do not include copies of the GW-1 form will be returned to the permittee without being processed. Failure to submit these forms as required by this permit may result in the initiation of enforcement activities pursuant to NC General Statutes 143-215.6.

V. INSPECTIONS

- 1. Adequate inspection, maintenance and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.
- 2. The Permittee or his designee shall inspect the groundwater recovery and treatment facilities to prevent malfunctions and deterioration, operator errors and discharges which may cause or lead to the release of wastes to the environment, a threat to human health, or a nuisance. The Permittee shall maintain an inspection log or summary including at least the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken by the Permittee. This log of inspections shall be maintained by the Permittee for a period of three years from the date of the inspection and shall be made available to the Division of Environmental Management or other permitting authority, upon request.
- 3. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site or facility at any reasonable time for the purpose of determining compliance with this permit, may inspect or copy any records that must be maintained under the terms and conditions of this permit, and may obtain samples of groundwater, surface water, or leachate.

VI. GENERAL CONDITIONS

- 1. Issuance of this permit does not constitute approval for reimbursement from the Leaking Petroleum Underground Storage Tank Cleanup Funds (15A NCAC 2P).
- 2. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.

State of North Carolina Department of Environment, Health and Natural Resources Division of Environmental Management

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary A. Preston Howard, Jr., P.E., Director



November 3, 1995

NOV 0 7 1995

D. E. M.

Mr. Jay A. Witte, Director of Operations Hackney and Sons, Inc. 400 Hackney Avenue Washington, North Carolina 27889

N.

Subject:

Permit No. WQ0007970 Amendment

Hackney and Sons, Inc.

Groundwater Remediation Facilities

Beaufort County

Dear Mr. Witte:

On July 20, 1995, the Division's Washington Regional Office received your request to reduce the groundwater monitoring frequency for semi-volatile organic compounds to an annual event. In accordance with your request, and the initial permit application received June 4, 1993, we are forwarding herewith Permit No. WQ0007970 dated November 3, 1995, to Hackney and Sons, Inc. for the continued operation of the subject groundwater remediation facility. This permit amendment changes the monitoring for semi-volatile organic compounds, from quarterly to annually, in accordance with your request.

This permit shall be effective from the date of issuance until July 31, 1998, shall void Permit No. WQ0007970 issued August 24, 1993, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

A set of approved plans and specifications was forwarded to you as part of the August 24, 1993 permit, and are considered to be a part of this permit. If you have any questions concerning the Groundwater Conditions or groundwater monitoring requirements, please contact Mr. Brian Wootton in the Groundwater Section at (919) 715-6164. If you need any additional information concerning this matter, please contact Mr. John Seymour at (919) 733-5083 ext. 546.

Sincerely,

Preston Howard, Jr., P.E.

cc: Beaufort County Health Department
ENSCI Engineering Group
Washington Regional Office, Water Quality Section
Washington Regional Office, Groundwater Section
Brian Wootton, Groundwater Section, Central Office
Training and Certification Unit (no rating change)
Facilities Assessment Unit

NORTH CAROLINA

ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

RALEIGH

GROUNDWATER REMEDIATION PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

Hackney and Sons, Inc.

Beaufort County

FOR THE

continued operation of a 10,080 GPD groundwater remediation and injection well disposal facility consisting of seven 1,440 GPD recovery wells, a 500 gallon equalization tank, a biological treatment unit, facilities for nutrient addition, a 500 gallon equalization tank, a bag filter, two injection wells, and all other appurtenances to serve Hackney and Sons, Inc., with no discharge of wastes to the surface waters, pursuant to the application received June 4, 1993, and to the July 20, 1995, modification request, and in conformity with the project plan, specifications, and other supporting data subsequently filed and approved by the Department of Environment, Health and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until July 31, 1998, shall void Permit No. WQ0007970 issued August 24, 1993, and shall be subject to the following specified conditions and limitations:

I. <u>PERFORMANCE STANDARDS</u>

- 1. This permit shall become voidable if the soils fail to adequately assimilate the wastes and may be rescinded unless the facilities are installed, maintained, and operated in a manner which will protect the assigned water quality standards of the surface waters and ground waters.
- 2. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those actions that may be required by this Division, such as the construction of additional or replacement treatment or disposal facilities.
- 3. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwaters resulting from the operation of this facility.
- 4. Any residuals generated from these treatment facilities must be disposed in accordance with General Statute 143-215.1 and in a manner approved by the North Carolina Division of Environmental Management.

5. Diversion or bypassing of the untreated groundwater from the treatment facilities is prohibited.

II. OPERATION AND MAINTENANCE REQUIREMENTS

- 1. The facilities shall be properly maintained and operated at all times.
- 2. Upon classification of the facility by the Certification Commission, the Permittee shall employ a certified wastewater treatment plant operator to be in responsible charge (ORC) of the wastewater treatment facilities. The operator must hold a certificate of the type and grade at least equivalent to or greater than the classification assigned to the wastewater treatment facilities by the Certification Commission. The Permittee must also employ a certified back-up operator of the appropriate type and grade to comply with the conditions of Title 15A, Chapter 8A, .0202. The ORC of the facility must visit each Class I facility at least weekly and each Class II, III, and IV facility at least daily, excluding weekends and holidays, and must properly manage and document daily operation and maintenance of the facility and must comply with all other conditions of Title 15A, Chapter 8A, .0202.
- 3. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility.

III. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring deemed necessary by the Division of Environmental Management to insure surface and ground water protection will be established and an acceptable sampling reporting schedule shall be followed.

2. Noncompliance Notification:

The Permittee shall report by telephone to the Washington Regional Office, telephone number 919/946-6481 as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:

- a. Any occurrence at the wastewater treatment facility which results in the treatment of significant amounts of wastes which are abnormal in quantity or characteristic, such as the dumping of the contents of a basin or tank, the known passage of a slug of hazardous substance through the facility, or any other unusual circumstances;
- b. Any process unit failure, due to known or unknown reasons, that renders the facility incapable of adequate wastewater treatment, such as mechanical or electrical failures of pumps, aerators, compressors, etc.;
- c. Any failure of a pumping station, sewer line, or treatment facility resulting in a by-pass directly to receiving waters without treatment of all or any portion of the influent to such station or facility; or
- d. Any time that self-monitoring information indicates that the facility is not in compliance with its permit limitations.

Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

IV. GROUNDWATER REQUIREMENTS

1. The <u>COMPLIANCE BOUNDARY</u> for the disposal system is specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards. The Compliance Boundary is for the disposal system constructed after December 31, 1983 is established at either (1) 250 feet from the waste disposal area, or (2) 50 feet within the property boundary, whichever is closest to the waste disposal area. An exceedance of Groundwater Quality Standards at or beyond the Compliance Boundary is subject to immediate remediation action in addition to the penalty provisions applicable under General Statute 143-215.6A(a)(1).

In accordance with 15A NCAC 2L, a <u>REVIEW BOUNDARY</u> is established around the disposal systems midway between the Compliance Boundary and the perimeter of the waste disposal area. Any exceedance of standards at the Review Boundary shall require remediation action on the part of the permittee.

- 2. Any additional groundwater quality monitoring, as deemed necessary by the Division, shall be provided.
- 3. The treatment system shall consist of a biological degradation unit, as described in the permit application documents
- 4. The two injection wells shall be constructed of 18 inch diameter stainless steel casing and the screened interval and grouting of each well shall be as indicated in the approved specifications. The wells shall be constructed such that the screened interval of each well is located from 3 feet to 8 feet below land surface, as described in the permit application. Also each wellhead shall be equipped to measure the injection pressure at the screened interval.
- 5. Injection pressures shall not be greater than the ambient pressure exerted at the screened interval due to the differential in the water table and the water level in the well. If operating pressures are to be increased above this level, the permittee must obtain approval from the Washington Regional Groundwater Supervisor prior to increasing injection pressures.
- 6. Monitor wells MW-25, MW-26, MW-26d, MW-29, MW-30, MW-11, MW-28B, MW-29B, MW-30B, OW-1d, and OW-1s shall be sampled every March, June, September, and December for the following parameters:

EPA Methods 624 (Volatile Organic Compounds - including acetone and xylenes) pH Water Level

EPA Method 625 (Semi-volatile Organic Compounds) - in December only

The measurement of water levels must be made prior to sampling for the remaining parameters. The depth to water in each well shall be measured from the surveyed point on the top of the casing.

The measuring points (top of well casing) of all monitoring wells shall be surveyed to provide the relative elevation of the measuring point for each monitoring well.

The results of the sampling and analysis shall be sent to the Groundwater Section, Permits and Compliance Unit, P.O. Box 29578 Raleigh, N.C. 27626-0578 on Form GW-59 [Compliance Monitoring Report Form] every April, July, October, and January.

7. The influent and effluent from the treatment system shall be sampled monthly for the parameters specified below:

EPA Methods 624 (Volatile Organic Compounds - including acetone and xylenes) pH
Water Level

EPA Method 625 (Semi-volatile Organic Compounds) - in December only

The results of the sampling and analysis shall be sent to the Groundwater Section, Permits and Compliance Unit, P.O. Box 29578 Raleigh, N.C. 27626-0578 every April, July, October, and January, along with the groundwater data.

Three copies of the influent and effluent data required should also be sent to the following address by March 1 of each year:

Division of Environmental Management Water Quality Facilities Assessment Unit P.O. Box 29535 Raleigh, North Carolina 27626-0535

- 8. The groundwater treatment system shall consistently achieve at least a 95% treatment efficiency (i.e. remove 95% of the influent contaminants) prior to discharge to the injection wells. If the treatment system fails to consistently achieve this standard, additional treatment units or changes in operational methods, may be required.
- 9. All components of the groundwater recovery, treatment, and disposal system shall be properly weather-proofed to prevent freezing and failure of the system.
- 10. The groundwater recovery, treatment and disposal system shall be inspected weekly. If it is determined that the system is malfunctioning, all repairs should be made as soon as possible and reported to the Washington Regional Office within 48 hours.
- 11. Isoconcentration (lines connecting points of equal concentration) maps in both the vertical and horizontal directions shall be developed using the December groundwater monitoring data for total volatile and semi-volatile hydrocarbons. A water level contour map must also be developed on a quarterly basis. These maps shall be submitted along with all other monitoring data for that period.
- 12. The permittee shall submit a report outlining the injection volumes and pressures of the injection wells. This report may be submitted along with all other monitoring data.
- 13. All wells that are constructed for purposes of groundwater monitoring shall be constructed in accordance with 15A NCAC 2C .0108 (Standards of Construction for Wells Other than Water Supply) and any other state and local laws and regulations pertaining to well construction.
- 14. Prior to operation of the groundwater remediation system, the permittee shall certify the mechanical integrity of the injection wells as defined by 15A NCAC 2C .0207. Additionally, an engineering certification shall be provided stating that the injection wells have been constructed in accordance with 15A NCAC 2C .0200 and the conditions of this permit. This certification shall be forwarded to the Groundwater Section Permits Unit, P.O. Box 29578, Raleigh, NC, 27626-0578 prior to operation of the system.
- 15. The two injection wells shall be constructed such that the screened interval of each well is located from 3 feet to 8 feet below land surface, as described in the permit application.

- 16. Within sixty (60) days of completion of all monitoring wells, the permittee shall submit two original copies of a scaled topographic map (scale no greater than 1":100') signed and sealed by a professional engineer or a state licensed land surveyor that indicates all of the following information:
 - a. the location and identity of each monitoring well,
 - b. the location of the waste disposal system,
 - c. the location of all property boundaries,
 - d. the latitude and longitude of the established horizontal control monument,
 - e. the relative elevation of the top of the well casing (which shall be known as the "measuring point"), and
 - f. the depth of water below the measuring point at the time the measuring point is established.
- 17. Upon completion of all well construction activities, a certification must be received from a professional engineer certifying that the monitoring wells are located and constructed in accordance with the Well Construction Standards (15A NCAC 2C) and this permit. This certification should be submitted with copies of the Well Completion Form (GW-1) for each well. Mail this certification and the associated GW-1 forms to the Permits and Compliance Unit, Groundwater Section, P.O. Box 29578, Raleigh, NC, 27626-0578.
- 18. For the initial sampling of the well as specified elsewhere in the permit, the permittee shall submit a copy of the GW-1 Form (Well Completion Form) with the Compliance Monitoring Form (GW-59) for that well. Compliance Monitoring Forms that do not include copies of the GW-1 form will be returned to the permittee without being processed. Failure to submit these forms as required by this permit may result in the initiation of enforcement activities pursuant to NC General Statutes 143-215.6.

V. <u>INSPECTIONS</u>

,]

- 1. Adequate inspection, maintenance and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.
- 2. The Permittee or his designee shall inspect the groundwater recovery and treatment facilities to prevent malfunctions and deterioration, operator errors and discharges which may cause or lead to the release of wastes to the environment, a threat to human health, or a nuisance. The Permittee shall maintain an inspection log or summary including at least the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken by the Permittee. This log of inspections shall be maintained by the Permittee for a period of three years from the date of the inspection and shall be made available to the Division of Environmental Management or other permitting authority, upon request.
- 3. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site or facility at any reasonable time for the purpose of determining compliance with this permit, may inspect or copy any records that must be maintained under the terms and conditions of this permit, and may obtain samples of groundwater, surface water, or leachate.

VI. GENERAL CONDITIONS

- 1. Issuance of this permit does not constitute approval for reimbursement from the Leaking Petroleum Underground Storage Tank Cleanup Funds (15A NCAC 2P).
- 2. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.

- 3. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.
- 4. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Environmental Management accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.
- 5. A set of approved plans and specifications for the subject project must be retained by the Permittee for the life of this project.
- 6. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Environmental Management in accordance with North Carolina General Statute 143-215.6(a) to 143-215.6(c).
- 7. The annual administering and compliance fee must be paid by the Permittee within thirty (30) days after being billed by the Division. Failure to pay the fee accordingly may cause the Division to initiate action to revoke this permit as specified by 15A NCAC 2H .0205 (c)(4).
- 8. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.
- 9. The Permittee, at least six (6) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.

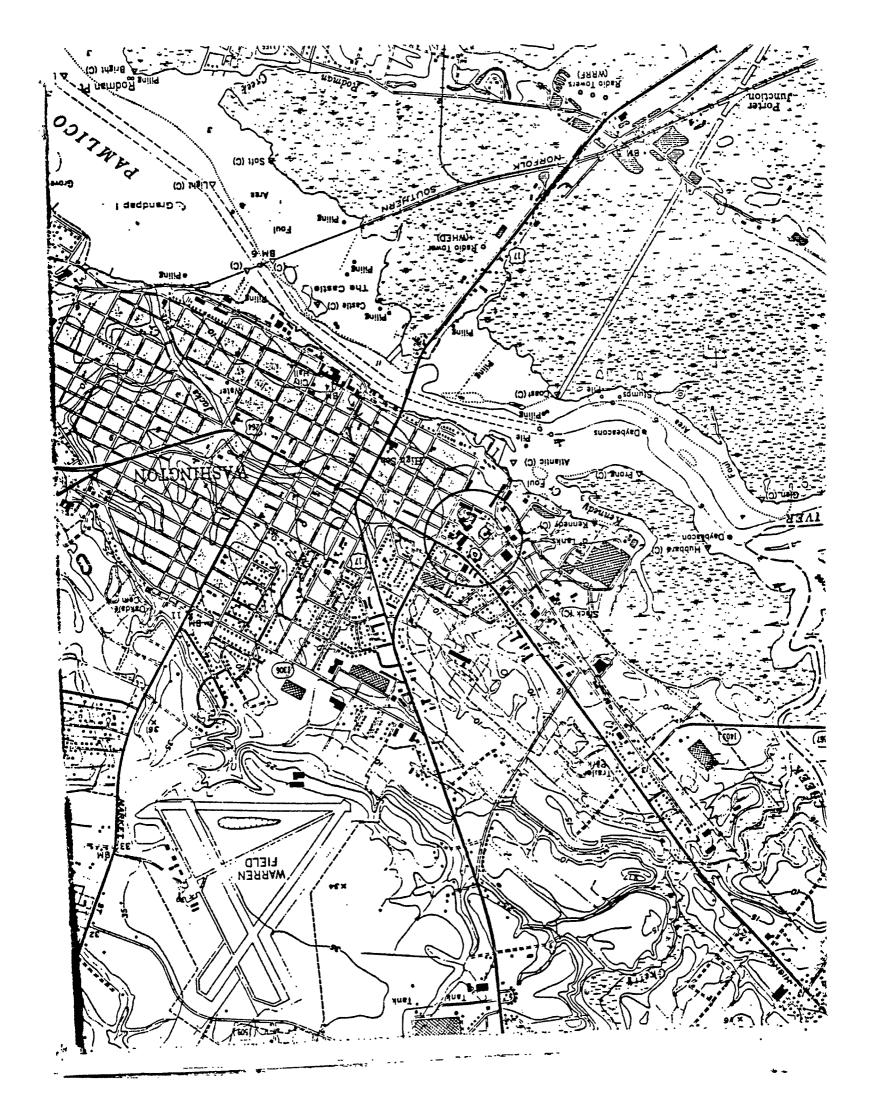
Permit issued this the 3rd day of November, 1995

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

A. Preston Howard, Jr., P.E., Director Division of Environmental Management

By Authority of the Environmental Management Commission

Permit Number WO0007970



DIVISION OF ENVIRONMENTAL MANAGEMENT

GROUNDWATER SECTION

August 8, 1995

MEMORANDUM

RECEIVED WASHINGTON OFFICE

AUG 1 8 1995

D. E. M.

To:

Carolyn McCaskill

Through:

Bob Cheek fril

From:

Brian Wootton BW

Subject:

Hackney and Sons, Inc.

Request to Modify Permit No. WO007970

Groundwater Remediation System

Beaufort County

The Groundwater Section (Central Office and Regional Office) have reviewed the subject permit modification request to reduce the current required quarterly sampling for Semivolatile Compounds (EPA Method 625) to annual sampling event. Semivolatile Compounds have not been detected in the groundwater with the exception of Phenol, Di-n-Butyl Phthalate, and Bis(2-ethylhexyl) Phthalate, which have been detected at levels below 2L standards. In conclusion, we have no objection to reduce quarterly sampling of Semivolatile Compounds by EPA Method 625 to an annual frequency, however quarterly groundwater analysis of Volatile Organic Compounds by EPA Method 624 shall remain the same. The following conditions (no's. IV-6,7) in the permit issued August 24, 1993 shall be modified to read the following:

1. Monitor wells MW-25, MW-26, MW-26d, MW-29, MW-30, MW-11, MW-28B, MW-29B, MW-30B, OW-1d, and OW-1s shall be sampled every March, June, September, and December for the following parameters:

EPA Method 624 (Volatile Organic Compounds - including acetone and xylenes)

pН

Water Level

EPA Method 625 (Semivolatile Organic Compounds) - in December only

The measurement of water levels must be made prior to sampling for the remaining parameters. The depth to water in each well shall be measured from the surveyed point on the top of the casing.

The measuring points (top of well casing) of all monitoring wells shall be surveyed to provide the relative elevation of the measuring point for each monitoring well.

2. <u>All other groundwater requirements stated in the permit (issued August 24, 1993) shall remain the same.</u>

cc: Willie Hardison Central Files Permit Files

DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION August 4, 1995

MEMORANDUM

TO: Bob Cheek, Permits and Compliance Unit

THROUGH: Willie Hardison, Regional Groundwater Supervisor

FROM: Guy Pearce, Hydrogeologist

SUBJECT: Non-Discharge Permit Modification

Hackney and Sons, Inc.

Groundwater Remediation - Beaufort County

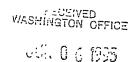
Permit No. WQ0007970

The Washington Regional Office has reviewed a request from the subject facility to reduce the currently required quarterly sampling for semi-volatile compounds by EPA Method 625 to annual sampling (a copy of the request is attached). Based on our review, the following comments are submitted for your consideration:

- 1. The applicant has submitted the required \$400.00 fee for permit modification. I forwarded the check to the WaRO Water Quality Section for deposit, and have attached a copy of the check and deposit slip.
- 2. A review of the submitted groundwater data for this facility indicates that semi-volatile organic compounds have not been detected in the groundwater with the following exceptions:
 - a. Phenol has been detected once in the treatment system effluent at 17 ppb, well below the Groundwater standard of 300 ppb.
 - b. Di-n-Butyl Phthalate has been detected in MW-29 at 17 ppb, and in MW-30B at 19 ppb, well below the Groundwater standard of 700 ppb.
 - c. Bis(2-ethylhexyl)Phthalate has been detected once in MW-27 at 43 ppb, and is a common sampling/lab artifact.

Based on the above, the Washington Regional Office does not object to modification of Section IV - Groundwater Requirements, Paragraph 7, to require annual groundwater analysis by EPA Method 625 (semi-volatile organic compounds). Please retain the current requirement for quarterly groundwater analysis by EPA Method 624 (volatile organic compounds). If you have any questions, or wish to discuss this matter further, please contact me at any time.

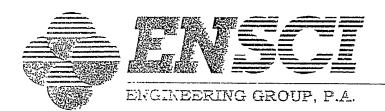
cc:WaRO Files



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WASHINGTON OFFICE

0. 巴肌



June 5, 1995

Mr. Willie Hardison NCDEHNR-DEM, Groundwater Section 1424 Carolina Avenue Washington, North Carolina 27889

RE: Request For Modification Of The Groundwater Monitoring Program. Hackney and Sons, Inc. 400 Hackney Avenue, Washington, North Carolina.

Dear Mr. Hardison:

Hackney and Sons, Inc. (Hackney), has been conducting groundwater remediation at the above referenced facility since December, 1993. The remediation program includes groundwater recovery from two separate areas, above ground biological groundwater treatment at a central location, and aquifer re-injection of the treated groundwater in accordance with Injection Well Permit WQ0007970, dated August 24, 1993. As a result of these activities, Hackney has collected approximately 1.5 years of remediation operations data and groundwater monitoring data. At the request of Hackney, ENSCI has reviewed the system operations data and quarterly monitoring analytical data.

Historic quarterly monitoring data evidenced the presence of volatile organic compounds in both the influent samples and several monitoring well samples. These results are consistent with the results of the Comprehensive Site Assessment.

With regard to the detection of semi-volatile organic compounds, the following items summarize the analytical results:

- On 12/1/95, Phenol was detected for the first time in the influent sample. Analytical data for the following 4 months, failed to evidence Phenol in the influent samples. With this one exception, Phenol has not been detected in groundwater or during influent sampling to date. Therefore, its detection is anomalous.
- Bis(2-ethylhexyl)Phthalate has been detected only once and in only one well, MW-27. The detected concentration was 43 parts per billion.

2 71731 031-00QT



Di-n-Butyl Phthalate was detected in monitoring wells MW29 and MW30B only during the 3/1/95 quarterly monitoring event. However, the detected concentrations were below the concentration detected in the trip blank for this sampling event. Therefore, the detection of Di-n-Butyl Phthalate is likely a laboratory artifact.

I have attached Tables which summarize the analytical results for the Hackney project for your review.

Based on analytical testing completed to date, we feel that the reduction of the quarterly semi-volatile groundwater analysis to an annual event is both scientifically prudent and economically justified. Therefore, we suggest modification of Permit No. WQ0007970, Section IV Groundwater Requirements, paragraph 7., which requires quarterly groundwater analysis by EPA Method 624 (volatile organic compounds) and EPA Method 625 (semi-volatile organic compounds). We request quarterly groundwater analysis by EPA Method 624 and with analysis by EPA Methods 624 and 625 conducted annually.

Please take a moment to review this information. Hackney and ENSCI have and continue to work diligently on the remediation of groundwater at the subject site, with final closure of this groundwater incidence as our goal. If you have any questions or need additional information, please feel free to contact our office at (910) 883-7505. We appreciate your time and consideration in these matters.

Sincerely yours,

ENSCI Engineering Group, P.A.

Edmund Q.B. Henriques, P.G.

Project Manager/Geologist

pc: Jay Witte, Hackney and Sons Inc.

Edmund C. B. Honing

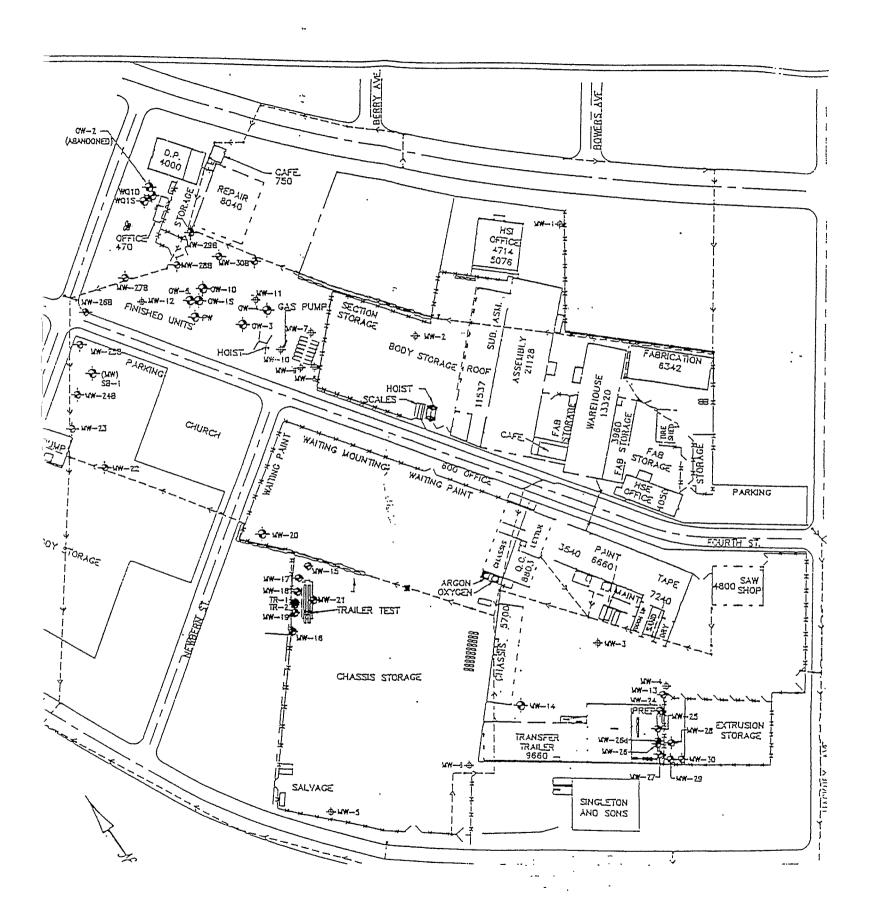
Charles Mason, Hackney and Sons Inc.

Attachments: Analytical Results Summary Tables



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CHECK NUMBER		TOTALS	400.00		400.00

Hackney AND SONS, Inc.	$\Big)$
AOO HACKNEY AVENUE	

400 HACKNEY AVENUE WASHINGTON, NORTH CAROLINA 27889 NORTH CAROLINA NATIONAL BANK WASHINGTON, N.C.

CHECK DATE CHECK NO.

66-117 531

6-29-95

CHECK AMOUNT

\$400.00***********

NC-DEHNR

TO THE ORDER OF 1424 Carolina Ave. Washington, NC 27889

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

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7/1/95

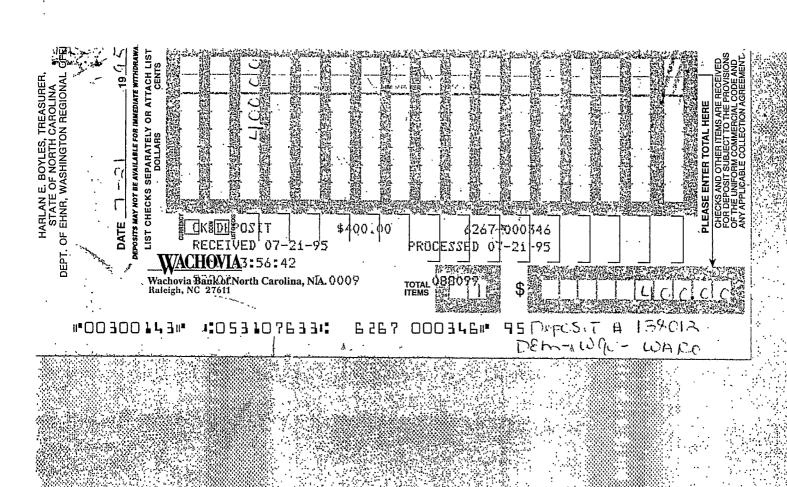
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

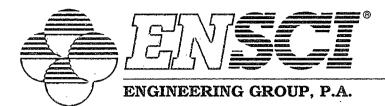
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O. F. M.

June 5, 1995

Mr. Willie Hardison NCDEHNR-DEM, Groundwater Section 1424 Carolina Avenue Washington, North Carolina 27889 WASHINGTON OFFICE

A COLUMN

JUL 2 0 1995

D. E. M.

RE: Request For Modification Of The Groundwater Monitoring Program. Hackney and Sons, Inc. 400 Hackney Avenue, Washington, North Carolina.

Dear Mr. Hardison:

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Please take a moment to review this information. Hackney and ENSCI have and continue to work diligently on the remediation of groundwater at the subject site, with final closure of this groundwater incidence as our goal. If you have any questions or need additional information, please feel free to contact our office at (910) 883-7505. We appreciate your time and consideration in these matters.

Sincerely yours,

ENSCI Engineering Group, P.A.

Edmund Q.B. Henriques, P.G.

Project Manager/Geologist

pc: Jay Witte, Hackney and Sons Inc.

Edmund C. B. Honing

Charles Mason, Hackney and Sons Inc.

Attachments: Analytical Results Summary Tables



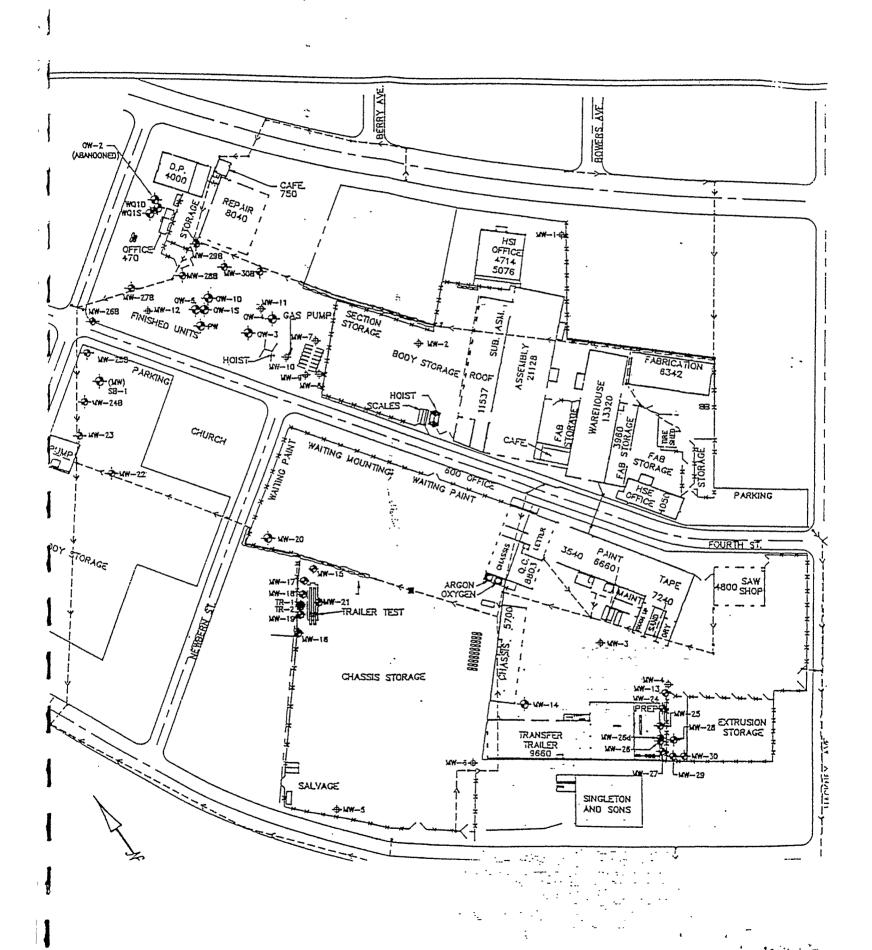


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State of North Carolina Department of Environment, Health and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary Nancy W. Smith, Regional Manager



DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION

June 22, 1995

Mr. Edmund Q. B. Henriques, P.G. ENSCI Engineering Group, Inc. Post Office Box 80275 Raleigh, North Carolina 27623-0275

Subject: Modification of Groundwater Monitoring Requirements at Hackney and Sons, Inc. - Groundwater Remediation System Beaufort County - Permit No. WQ0007970

Dear Mr. Henriques:

On June 6, 1995 the Groundwater Section of the Washington Regional Office received the subject request for a reduction of semi-volatile groundwater analysis by EPA Method 625 from quarterly to annually. Based on the submitted groundwater data, it does not appear that significant quantities of the compounds detected by EPA Method 625 are present in the groundwater or influent/effluent of the treatment system. Your request therefore appears to be reasonable. Please be advised, however; that a four hundred dollar (\$400) fee is required by the Division for permit modification. Upon receipt of the fee, our office will begin to process your request.

I have made a copy of your request letter and the supporting information for our files, and I am returning the original to you. If you decide to pursue this matter, please resubmit the letter and supporting information, and the \$400 fee (cheek made payable to NC-DEHNR) to the Washington Regional Office.

If you have any questions, or wish to discuss this matter further, please contact me at (919) 946-6481.

Sincerely,

Guy C. Pearce Hydrogeologist

attachments

cc: WaRO Files

,		, <u>, , , , , , , , , , , , , , , , , , </u>	r			NET AMOUNT
ł	INVOICE NO.	INVOICE DATE	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
		6-29-95		Remediation System	WASHINGTON OFFICE JUL 2 0 1995 D. E. M.	400.00
	CHECK NUMBER		TOTALS	400.00		400.00



State of North Carolina Department of Environment, Health and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary Nancy W. Smith, Regional Manager



DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION

June 22, 1995

Mr. Edmund Q. B. Henriques, P.G. ENSCI Engineering Group, Inc. Post Office Box 80275 Raleigh, North Carolina 27623-0275

Subject: Modification of Groundwater Monitoring Requirements at Hackney and Sons, Inc. - Groundwater Remediation System Beaufort County - Permit No. W00007970

Dear Mr. Henriques:

On June 6, 1995 the Groundwater Section of the Washington Regional Office received the subject request for a reduction of semi-volatile groundwater analysis by EPA Method 625 from quarterly to annually. Based on the submitted groundwater data, it does not appear that significant quantities of the compounds detected by EPA Method 625 are present in the groundwater or influent/effluent of the treatment system. Your request therefore appears to be reasonable. Please be advised, however; that a four hundred dollar (\$400) fee is required by the Division for permit modification. Upon receipt of the fee, our office will begin to process your request.

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Sincerely,

Guy C. Pearce Hydrogeologist

attachments

cc: WaRO Files



June 5, 1995

Mr. Willie Hardison NCDEHNR-DEM, Groundwater Section 1424 Carolina Avenue Washington, North Carolina 27889

RE: Request For Modification Of The Groundwater Monitoring Program. Hackney and Sons, Inc. 400 Hackney Avenue, Washington, North Carolina.

Dear Mr. Hardison:

Hackney and Sons, Inc. (Hackney), has been conducting groundwater remediation at the above referenced facility since December, 1993. The remediation program includes groundwater recovery from two separate areas, above ground biological groundwater treatment at a central location, and aquifer re-injection of the treated groundwater in accordance with Injection Well Permit WQ0007970, dated August 24, 1993. As a result of these activities, Hackney has collected approximately 1.5 years of remediation operations data and groundwater monitoring data. At the request of Hackney, ENSCI has reviewed the system operations data and quarterly monitoring analytical data.

Historic quarterly monitoring data evidenced the presence of volatile organic compounds in both the influent samples and several monitoring well samples. These results are consistent with the results of the Comprehensive Site Assessment.

With regard to the detection of semi-volatile organic compounds, the following items summarize the analytical results:

- On 12/1/95, Phenol was detected for the first time in the influent sample. Analytical data for the following 4 months, failed to evidence Phenol in the influent samples. With this one exception, Phenol has not been detected in groundwater or during influent sampling to date. Therefore, its detection is anomalous:
- Bis(2-ethylhexyl)Phthalate has been detected only once and in only one well, MW-27. The detected concentration was 43 parts per billion.

(A)

Di-n-Butyl Phthalate was detected in monitoring wells MW29 and MW30B only during the 3/1/95 quarterly monitoring event. However, the detected concentrations were below the concentration detected in the trip blank for this sampling event. Therefore, the detection of Di-n-Butyl Phthalate is likely a laboratory artifact.

I have attached Tables which summarize the analytical results for the Hackney project for your review.

Based on analytical testing completed to date, we feel that the reduction of the quarterly semi-volatile groundwater analysis to an annual event is both scientifically prudent and economically justified. Therefore, we suggest modification of Permit No. WQ0007970, Section IV Groundwater Requirements, paragraph 7., which requires quarterly groundwater analysis by EPA Method 624 (volatile organic compounds) and EPA Method 625 (semi-volatile organic compounds). We request quarterly groundwater analysis by EPA Method 624 and with analysis by EPA Methods 624 and 625 conducted annually.

Please take a moment to review this information. Hackney and ENSCI have and continue to work diligently on the remediation of groundwater at the subject site, with final closure of this groundwater incidence as our goal. If you have any questions or need additional information, please feel free to contact our office at (910) 883-7505. We appreciate your time and consideration in these matters.

Sincerely yours,

ENSCI Engineering Group, P.A.

Edmund Q.B. Henriques, P.G.

Project Manager/Geologist

pc: Jay Witte, Hackney and Sons Inc.

Edmund G.B. Honing

Charles Mason, Hackney and Sons Inc.

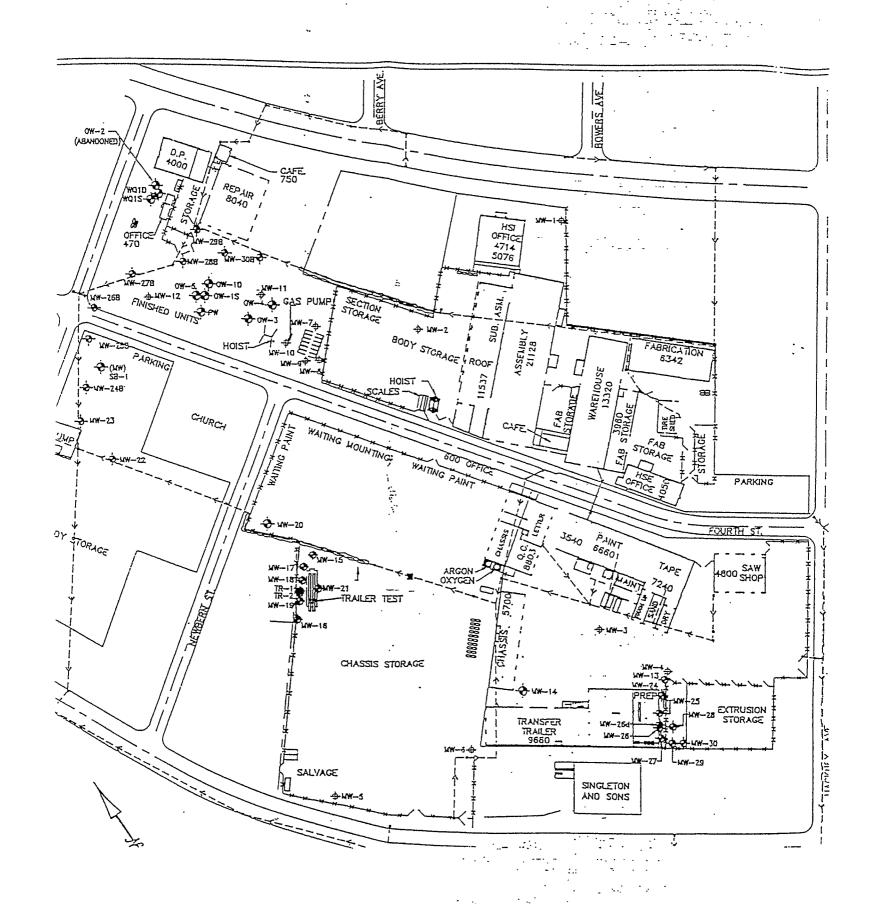
Attachments: Analytical Results Summary Tables



ACKNEY AND SO	<u></u>					·										
			ANALYSIS IN	UNITS PPE				 								
ARAMETER OVER LIMITS	DATE		EFFLUENT			MW30	MW29	MW28B	OW1D	MW25	OW1S	MW26	WM30B	MW11	MW31B	MW27
	12/6/93	INF #1-1	EFF#1-E													
1	12-20-93	INF#2-1	EFF#2-E													
ETRACHLOROETHENE	12-30-95				12											
MENE					9	698	25	121	54	2370	578					1
OLUENE						1690	25	112	38	1430	1490			1		
THYL BENZENE '						206		32		880	173					
	1/3/94	INF #3-1	EFF#3-E													
	1/25/94	INF #4-1	EFF#4-E											 		1
	2/7/94	INF #5-1	EFF#5-E													
	2/25/94	INF #6-1	EFF#6-E						-	-						
	3/3/94															
	3/15/94	INF #7-1	EFF#7-E				 	 	4	 						
	4/12/94	INF #8-1	EFF#8-E													
METHYLENE CHLORIDE		1730		1						1						1
TETRACHLOROETHENE			55	5												
	5/9/9	1 INF #9-1	EFF#9-E												<u> </u>	
METHYLENE CHLORIDE	_	1099		I .		· .			_	1					<u> </u>	
TETRACHLOROETHENE		71					<u> </u>			1					<u> </u>	
	6/2/9	1 INF#10H	EFF #10-E								·			_	,	
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TOLUENE		<u> </u>	/	5			ļ			ļ		_				<u> </u>
TRICHLOROETHENE			- 		_			2					_			<u>: : '</u>
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		34 INF#12H	EFF#12-E	-	+	=	+	+	_		+	= ===				_
METHYLENE CHLORIDE	1 3/1/5	6534		-				1		_						
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HACKNEY AND SO	NS MO	NITORH	YG WELL	SPREAD	SHEET	<u> </u>											
			analysis i	LUNTS PPE							-	1 H 1 HA	1-81-004-1	F 8 7 7 8 8	CATEGOR	X & A & C 1 7	
PARAMETER OVER UNITS				MW298	MW260	WW30	WAS	WMS88	OWID	MW25	OWIS	MWZ6	WAAAAA	MW11	WMSIB	MYV27	THEPBLANK
	11/1/34	INF IN SH	EFF #15-E	<u> </u>		 	 				<u>'</u>				<u> </u>		
	12/1/94	INF#164	EFF#16E								L				ļ		
TETRACHLORGETHENE		8			7	<u> </u>									<u> </u>		<u> </u>
PHEHOL		17	1														
CHLOROFORM i			72	, ·									65	31		<u> </u>	ļ
BISZZETHYLHEXYLYPHTHALA	NTE .															48	
	174795	INF#174	EFF #17-E			1				l .	<u> </u>						}
1.1,-01CHLOPOETHANE	11 645	6	-}	 	 	 	<u> </u>										
	2/8/95	NF#18H	£FF ≠18-E														
	3/1/95	INF#194	EFF #19-E														
TETRACHLORGETHENE		7		6	5			7				5				<u> </u>	
DHVBUTYL PHTHALATE							17						19				2
XMLENES				9										ļ	<u> </u>	ļ	
	4/4/95	INF 20-1	EFF 20-E	 							1						
ACETONE		100									1						
	5/9/95	INF21H	EFF 21-E												<u> </u>		
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State of North Carolina Department of Environment, Health and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary Nancy W. Smith, Regional Manager



DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION

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Guy C. Pearce Hydrogeologist

attachments

cc: WaRO Files



RECEIVED WASHINGTON OFFICE

JUN 0 6 1995

D. E. M.

June 5, 1995

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F (010) 882 7958



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ENSCI Engineering Group, P.A.

Edmund G.B. Honer

Edmund Q.B. Henriques, P.G.

Project Manager/Geologist

Duy, Please look at the date closely, I have no objection to reducing sampling, but I am relucing sampling, but I am pc: Jay Witte, Hackney and Sons Inc. Charles Mason, Hackney and Sons Inc.

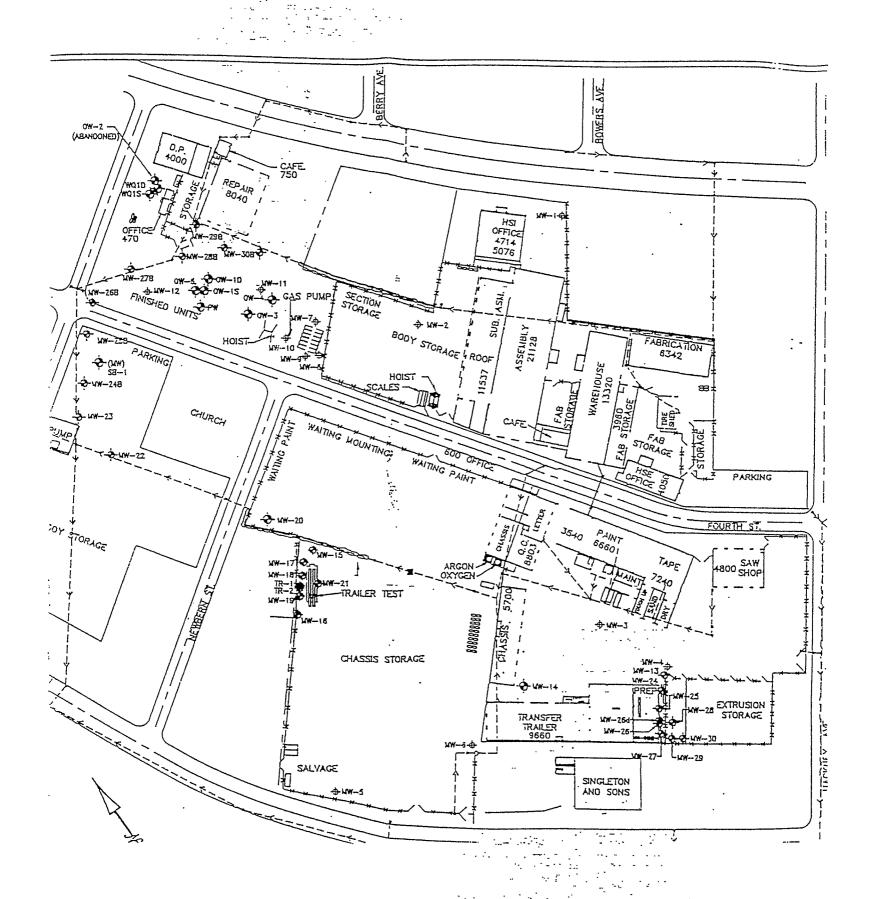
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			ANALYSIS IN							ļ						<u> </u>
PARAMETER OVER LIMITS			EFFLUENT	MW29B	MW26D	WW30	MW29	MW28B	OW1D	MW25	OW1S	MW26	WM30B	MW11	MW31B	MW27
	12/6/93	INF #1-1	EFF#1-E	<u> </u>		ļ	<u> </u>				<u> </u>	ļ		ļ		ļ
	12-20-93	INF#24	EFF#2-E													
ETRACHLOROETHENE	12-30-95			<u> </u>	12		<u> </u>	<u> </u>								1
KYLENE					9	698	25	121	54	2370	578	 		 		1
TOLUENE						1690			38			 		1		
ETHYL BENZENE						206		32		880	173					
······································	1/3/94	INF #3-1	EFF#3-E												, , , , ,	
		INF#4-1	EFF#4-E						 	-						
	2/7/94	INF #5-1	EFF#5-E			+				1	 			1		+===
		INF #6-1	EFF#6-E		-	 	+	+	 	-		 		-	+	
	3/3/94				+	-	+===	+	 	+	 	-				
	-	INF #7-1	EFF #7-E	 			†==		 	+	-	+		 	+===	
		1 INF #8-1	EFF#8-E		-	+	+	 	 		+	-	+==			1
METHYLENE CHLORIDE		1730			,	1	 	-	 				 			
TETRACHLOROETHENE			54	5												
	5/9/9	4 INF #9-1	EFF#9-E										1			
METHYLENE CHLORIDE		109	9 5	4						1						
TETRACHLOROETHENE		7	1												ı	
	6/2/9	4 INF#10-1	EFF#10-E								1					•
TETRACHLOROETHENE		1	3 1	4							•				3	4
TOLUENE			7	5												
TRICHLOROETHENE							1	2								. '
CIS 1.2-DICHLOROETHENE			<u> </u>				1	0						1	1 1	2
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· · · · · · · · · · · · · · · · · · ·	8/1/9	34 INF #12-1			_							_				
METHYLENE CHLORIDE		6534					-									
	9/2/	94 INF #134	EFF #13-E					_			_					
TETRACHLOROETHENE	+							·					_			_
	10/3/	94 INF #14H	EFF#14E							_L						

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HACKNEY AND SO	VS MO	NITORH	G WELL	SPREAD	SHEET												
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PARAMETER OVER LIMITS	DATE	INFLUENT	ETTWENT	MW288	MW26D	WW30	WAS3	MW289	OWID	MW25	OW15	MW26	WW308	MW11	WMAJR	MW21	TRIPBLANK
,	11/1/94	INFINSH	EFF #15-E				ļ		·	<u> </u>	ļ <u>.</u>						
	12/1/94	INF#16H								ļ						ļ	
TETRACHLOROETHENE		8			7						ļ			ļ		<u> </u>	
PHEHOL		17								<u> </u>						ļ	
CHLOROFORM 1		·	72	1	<u> </u>					L			65	31	ļ		ļ
BISZZETHYLHEXYLYHITHALI	TE							<u> </u>								43	
	1/4/95	NF#174	EFF #17-E														
1,1,-DICHLOPOETHANE		6															
	2/8/35	MF#18H	EFF #18+E	ĺ													ļ
	3/1/95	ENF MISH	EFF#19-E	·													
TETRACHLORGETHENE		7		6	5			7		<u> </u>		5				<u> </u>	
DHVBUTYL PHTHALATE							17				<u> </u>	<u> </u>	19		<u> </u>	<u> </u>	2
XALENES				9						ļ					<u> </u>		
	4/4/95	INF 20-1	ध्यम् क्षम्ह								1						
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State of North Carolina Department of Environment, Health and Natural Resources Washington Regional Office

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary Nancy W. Smith, Regional Manager



DIVISION OF ENVIRONMENTAL MANAGEMENT

December 6, 1993

Mr. Jay A. Witte Hackney and Sons, Inc. 400 Hackney Avenue, Box 880 Washington, North Carolina 27889-0880

SUBJECT: Implementation of Corrective Action Plan

for Hackney and Sons, Inc. - Beaufort County

Dear Mr. Witte:

On Tuesday, October 19, 1993 I met with Bruce Braswell, of ENSCI at the Hackney and Sons, Inc. site to review the progress made toward implementation of the approved Corrective Action Plan (CAP) for remediation of contaminated groundwater at your facility. At that time, installation of the recovery and injection wells had been completed and the biological treatment plant was nearing completion. Based on that review, and discussions with Bruce Braswell, the Division believes that Hackney and Sons, Inc. has satisfied the schedule outlined in the CAP to the extent reasonably possible and appreciates your efforts in this regard.

As you know, previous site assessment activities identified three (3) areas, referred to as the REPAIR AREA, the EXTRUSION STORAGE AREA, and the TRAILER TEST AREA, where groundwater contamination had occurred. Further investigation in and around the TRAILER TEST AREA appears to indicate that an off-site source (possibly Well's Junkyard, located adjacent to the TRAILER TEST AREA) is contributing to the groundwater contamination in this area. It has been your position that while Hackney and Sons, Inc. should and will be responsible for remediation of any groundwater contaminated as a result of activities conducted on their property, they should not be required to remediate contamination caused by off-site activities that were not conducted by Hackney and

Mr. Jay A. Witte Hackney and Sons, Inc. December 6, 1993 Page Two

Sons, Inc. The Division has agreed to postpone corrective action in the TRAILER TEST AREA until this issue has been resolved.

If you have any questions, or wish to discuss these matters further, please contact me at any time. I can be reached at (919) 946-6481.

Sincerely,

Guy C. Pearce Hydrogeologist

cc: WaRO Files

Bruce Braswell - ENSCI



NATIONAL SALES OFFICE: 400 HACKNEY AVENUE, P.O. BOX 880, WASHINGTON, NC 27889-0880

APRIL 25., 1994

GROUNDWATER SECTION P.O. BOX 29530 RALEIGH, NC. 27626

DEAR SIR OR MADAM:

IN ACCORDANCE WITH OUR PERMIT ON. WQ0007970 DATED AUGUST 24, 1963,
I HAVE ENCLOSEED 3 COPIES OF THE RESULTS OF THE SAMPLING AND ANALYSIS OF
THE 11 MONITORING WELLS STATED IN THE PERMIT. ALSO ENCLOSED IS 3 COPIES OF
INFLUENT AND EFFLUENT ANALYSIS AND DAILY LOG FOR JANUARY, FEBRUARY,
AND MARCH. 1994

SINCERELY,

CHARLES R. MASON INDUSTRIAL ENGINEER

Jole R. Maron

ET04.XLS

Jan-94												
									1			
				P.H. /	TSULDO	PHOSPAT	E ADDED	BUGS	PUMPING	AREA 'A'	PUMPIING	AREA '8'
DATE	PH	AMMONA	PHOSPHATE	LIME	CAUSTIC	LARGE TANK	METERING	ADDED	READING	TOTAL	READING	TOTAL
1-Jan	6								2520	0	18250	0
2-Jan	5.5	20	17									
3-Jan	6	30	25		2			2				
4-Jan	6	30	20		2	2						
5-Jan	6	30	15									
6-Jan	6	15	30	1	0	2			2520	0	18250	0
7-Jan	6	15	20		2	4			3080	560	18250	0
8-Jan	6				2	3.5		2	3880	1360	18430	180
9-Jan	6											
10-Jan	6	2.5	4		3	4			4570	2050	19260	1010
11-Jan	6				2	4						
12-Jan	7	15	30		2	4			4920	2400	20140	1890
13-Jan	6	10	30	-	2	4			4920	2400	20790	2540
14-Jan	6	12	30			6	İ	1	5540	3020	21150	2900
15-Jan	7				4		<u> </u>	1			 	
16-Jan	6	20	20		3	3	 					<u> </u>
17-Jan	6.5	15	40		2	2		1	6660	4140	22330	4080
18-Jan	6	12	25		2				6800	4280	22720	4470
19-Jan	6				2			1	6940	4420		4690
20-Jan	7	25	30		2				6950	4430		4720
21-Jan	7				2				6950	4430		4720
22-Jar	7	35	30		<u> </u>		 		6950	4430	<u> </u>	4720
23-Jar		75	30			 	†		6950			4720
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27-Jar		- -	 		<u>.</u>		\ 		 	1	 	
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29-Jar						` `	<u> </u>		1320	1 210	<u> </u>	1 303
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DATE	PH	AMMONA	PHOSPHATE	LIME	CAUSTIC	LARGE TANK	METERING	ADDED	READING		READING	TOTAL	<u> </u>
1-Fab	6	2.5	40		2	2			8810	0	25330	0	
2-Feb	5.5	2	50			2			9620	810	26360	1030	l
3-Feb	6	2	45										
4-Feb	5.5	1.5	45		2	3			10130	1320	26770	1440	
5-Feb													<u> </u>
6-Fab	5.5	2.5	30	5				1					
7-Feb	5.7	5	50		2	2			10250	1440	27300	1970	
8-Feb	6	2	30			3			10270	1460	27550	2220	
9-Feb	6					3			10550	1740	27790	2460	
10-Feb	5.5	2	30			2.5			10550	1740	27970	2640	
11-Feb	5	2	30	15		3			10550	1740	28430	3100	
12-Feb													
13-Feb	6.5	2.5	35	10		3			10550	1740	29650	4320	
14-Feb	6.6			10		3			10550	1740	30060	4730	
15-Feb	6	5	35		4	2			10550	1740	30730	5400	
16-Feb	7	2	30		2	2			10600	1790	31490	6160	
17-Feb	7	1	40		2	2	*************	3	10600	1790	31590	6260	
18-Feb	7	7.5	30		2	3	~~~~		10840	2030	32480	7150	
19-Feb	7	5	30		3	3			10950	2140	34830	9500	
20-Feb													· · · · · · · · · · · · · · · · · · ·
21-Feb	6.5	1.5	40		2	2	···		10990	2180	36900	11570	
22-Feb	6	1.5	40		2	2			10900	2090	36900	11570	
23-Feb	6.6	2	40		2	2			11060	2250	38930	13600	
24-Feb	6.5	2	30		2	2			11060	2250	41160	15830	
25-Feb	7	2	30			3UREA 2			11070	2260	43140	17810	
26-Feb									11070	2260	44930	19600	
27-Feb	6.5	2.5	25			1UREA			11070	2260	46720	21390	
28-Feb	6.5	2.5	25		1	2 UREA			11070	2260	48790	23460	
1-Mar									11070	2260	50075	24745	
OTES: 2	-7 SENT	OFF SAMP	LES										
			JUCTION PUMP										
		TDOWNA											
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TEST	TEST	TEST	P.H. AE	DJUST	PHOSPA	TE ADDED	BUGS	PUMPING	AREA'A'	PUMPING	AREA'B'	1
РН	AMMONA	PHOSPHATE	LIME	CAUSTIC	LARGE	METERIN	ADDED	READING	TOTAL	READING	TOTAL	
6.5	3	20		1	2			11070	0	50075	0	1
6	1.5	25		1	4			11070	0	51213	1138	
6	1.5	25		2	4			11070	0	52513	2438	
5.5	1.5			2	3			11070	0	53790	3715	
6	1	30		2	2			11150	80	56740	6665	
6.5	1	25		2	2	25						
6	1	20		2	4			15420	4350	60530	10455	
	1.5	15			1			16670	5600	65670	15595	
6.5	1.5	12		1	3							
6.5	1.5	8		1	3.5			19280	8210	72330	22255	
								21153	10083	74925	24850	
6.5	1.5	12		2	4			24126	13056	78150	28075	
7	1.5						1	25800	14730	80660	30585	
					2			27960	16890	83580	33505	
					4			30460	19390	86670	36595	
					3.5			32480	21410	891230	841155	
	~~~~				5	25		34390	23320	91420	41345	
		~~~						35925	24855	93850	43775	
				1	3			36580	25510	95480	45405	
					1			38280	27210	98480	48405	
		~~~						39390	28320	100850	50775	
		<del></del>		2	1			40640	29570		·····	
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5	2	20		2	2			44540	33470	106360	56285	
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5	1	30		5	3			46170	35100	112820	62745	
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								47910	36840	116550	66475	·-··
						25	2		38020			
6.5	2.5	30		3				30320	19250	120330	70255	
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TEST TEST TEST P.H. ADDJUST PH AMMONA PHOSPHATE LIME CAUSTIC 6.5 3 20 1 6 1.5 25 1 6 1.5 25 2 5.5 1.5 25 2 6 1 20 2 7 1.5 15 2 12 1 6.5 1.5 8 1 6.5 1.5 8 1 6.5 1.5 10 7 7 1.5 10 7 6.5 1.5 10 7 7 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 7 1.5 10 7 6.5 1.5 10 7 7 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7 6.5 1.5 10 7	TEST TEST TEST P.H. ADDJUST PHOSPATE LIME CAUSTIC LARGE TO 65 3 20 1 2 2 4 5 5 1.5 25 2 3 4 5 5 1.5 25 2 2 4 5 5 1.5 2 2 2 4 6 6 1 30 2 2 2 2 6 6 1 20 2 2 4 7 1.5 15 15 12 1 3 6 6 5 1.5 15 12 1 3 3 6 6 5 1.5 15 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 3 5 6 6 5 1.5 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TEST TEST TEST P.H. ADDJUST PHOSPATE ADDED PH AMMONA PHOSPHATE LIME CAUSTIC LARGE T METERAL 65 3 20 1 4 66 1.5 25 1 4 6 1.5 25 2 2 4 5.5 1.5 2 2 3 6 1 30 2 2 2 6 6 1 30 2 2 2 2 6 6 1 20 2 2 2 6 6 1 20 2 2 4 7 1.5 15 15 11 3 6 6 5 1.5 12 1 3 6 6 5 1.5 12 1 3 6 6 5 1.5 12 1 3 6 6 6 1 5 5 10 1 30 5 6 7 1.5 10 1 2 2 4 7 1.5 10 1 2 2 4 7 1.5 10 1 2 2 4 7 1.5 10 1 3.5 10 1 4 6 6 7 2 15 10 1 3.5 10 1 4 6 6 7 2 15 10 1 1 3 6 6 7 2 12 1 1 3 6 6 7 2 15 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TEST TEST TEST P.H. ADDJUST PHOSPATE ADDED PH AMMONA PHOSPHATE LIME CAUSTIC LARGE T METERUL ADDED 6	TEST TEST TEST P.H. 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ADJUST PHOSPATE ACCED BUGS PUMPING AREA W PUMPING 65 3 20 11 2 11070 0 50075 66 1.5 25 11 4 11070 0 52075 66 1.5 25 12 4 111070 0 53273 6 1.5 25 1.5 2 2 3 111070 0 53273 6 1 1 2 2 1 111070 0 53273 6 1 1 2 2 1 111070 0 53273 6 1 1 2 2 1 111070 0 53273 6 1 1 2 2 1 111070 0 53273 6 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TEST TEST TEST P.H. ADDJUST PHOSPATE ADDED BLGS PUMPING AREA X PUMPING AREA 19 PM AMMONA PHOSPHATE LIME CAUSTIC LAPAGE NAMETHERU ADDED READING TOTAL READING TOTAL 6.5 3 20 11 2 11070 0 5075 0 5075 1 4 11070 0 52513 2488



11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

Date of Report: Date Received:

03/1/5/94

Approved By:

Poler H. Garber Laboratory Director

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 287K01

SAMPLE ID: INF. #7-I

		Det.		Analysis				
Parameter	Result	Limit	Unit	Method	Time	Date	Anal	
рН	6.26	0-14	s.U.	EPA150.1	11:30	03/15/94	RCD	
Acetone	BDL	5	ppb	EPA 8240	09:32	03/23/94	FDM	
Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM	
Bromodichloromethane	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
Bromoform	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM	
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	09:32	03/23/94	FDM	
Carbon Tetrachloride	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
Chlorobenzene	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	09:32	03/23/94	FDM	
2-Chloroethylvinyl Eth	BDL	10	ppb	EPA 624	09:32	03/23/94	FDM	
Chloroform	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM	
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	09:32	03/23/94	FDM	
Dibromochloromethane	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM	
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM	
1,2-Dichloroethane	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
1,1-Dichloroethene	BDL	10	ppb	EPA 624	09:32	03/23/94	FDM	
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
1,2-Dichloropropane	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM	

LAB ID: 287K01

SAMPLE ID: INF. #7-I

SAMELIS ID. INC. #1-1		Det.	Analysis				
Parameter	Result		Unit	Method	Time	Date	Anal.
Ethyl Benzene	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	09:32	03/23/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM
Toluene	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM
Trichlorofluoromethane	$\mathtt{BDL}$	10	ppb	EPA 624	09:32	03/23/94	FDM
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	09:32	03/23/94	FDM
Total Xylene	BDL	5	ppb	EPA 624	09:32	03/23/94	FDM
1,1,1,2-Tetrachloroeth	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	09:32	03/23/94	FDM
1,2-Dichloroethane-d4	90		% Rec	EPA 624	09:32	03/23/94	FDM
Toluene-d8	102		% Rec	EPA 624	09:32	03/23/94	FDM
4-Bromofluorobenzene	94		% Rec	EPA 624	09:32	03/23/94	FDM
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Acenaphthylene	$\mathtt{BDL}$	10 `	PPB	EPA 625	09:00	03/17/94	FDM
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (b) Fluoranthene		10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (g,h,i) Perylene		10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (k) Fluoranthene		10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB .	EPA 625	09:00	03/17/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	09:00	03/17/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	09:00	03/17/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Chrysene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	09:00	03/17/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
3,3'-Dichlorobenzidine		10	PPB	EPA 625	09:00	03/17/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM

# LAB ID: 287K01 SAMPLE ID: INF. #7-I

		Det.		Analysis					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.		
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
2,4-Dinitrotoluene	BDL	1.0	PPB	EPA 625	09:00	03/17/94	FDM		
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Fluorene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Hexachlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Hexachlorobutadiene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Hexachloroethane	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Naphthalene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Nitrobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
N-Nitrosodiphenylamine	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
2-Chlorophenol	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
2-Methyl-4,6-Dinitroph		10	PPB	EPA 625	09:00	03/17/94	FDM		
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Phenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM		
4-Methylphenol	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM		
Nitrobenzene-d8	84		% Rec	EPA 625	09:00	03/17/94	FDM		
2-Fluorobiphenyl	104		% Rec	EPA 625	09:00	03/17/94	FDM		

LAB ID: 287K01

SAMPLE ID: INF. #7-I							
		Det.			Anal	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
p-Terphenyl-d14	90		% Rec	EPA 625	09:00	03/17/94	FDM
Phenol-d6	72		% Rec	EPA 625	09:00	03/17/94	FDM
2-Fluorophenol	80		% Rec	EPA 625	09:00	03/17/94	FDM
2,4,6-Tribromophenol	114		% Rec	EPA 625	09:00	03/17/94	FDM
13D TD: 207W02							
LAB ID: 287K02 SAMPLE ID: EFF #7-E							
	6.93	0-14	s.U.	EPA150.1	11.25	03/15/94	RCD
pH Acatana	BDL	5		EPA 8240	11:16	03/13/94	FDM
Acetone	BDL	5	ppb	EPA 6240	11:16	03/23/94	FDM
Benzene			ppb	EPA 624		03/23/94	FDM
Bromodichloromethane	BDL	5	ppb		11:16		FDM
Bromoform	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	11:16	03/23/94	
Carbon Tetrachloride	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	11:16	03/23/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	11:16	03/23/94	FDM
Chloroform	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	11:16	03/23/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	11:16	03/23/94	FDM
Trans-1,2-Dichloroethe		5	ppb	EPA 624	11:16	03/23/94	FDM
1,2-Dichloropropane	BDL ·	5 ·	ppb	EPA 624	11:16	03/23/94	FDM
Cis-1,3-Dichloropropen		5	ppb	EPA 624	11:16	03/23/94	FDM
Trans-1,3-Dichloroprop		5	ppb	EPA 624	11:16	03/23/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
Methylene Chloride	$\mathtt{BDL}$	5	ppb	EPA 624	11:16	03/23/94	FDM
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	11:16	03/23/94	FDM
Tetrachloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	11:16	03/23/94	FDM
Toluene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
Trichlorofluoromethane	BDL	10	ppb	EPA 624	11:16	03/23/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	11:16	03/23/94	FDM

LAB ID: 287K02 SAMPLE ID: EFF #7-E

		Det.			Ana	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Total Xylene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,1,1,2-Tetrachloroeth	$\mathtt{BDL}$	5	ppb	EPA 624	11:16	03/23/94	FDM
Cis 1,2-dichloroethene	BDL	5	ppb	EPA 624	11:16	03/23/94	FDM
1,2-Dichloroethane-d4	94		% Rec	EPA 624	11:16	03/23/94	FDM
Toluene-d8	108		% Rec	EPA 624	11:16	03/23/94	FDM
4-Bromofluorobenzene	99		% Rec	EPA 624	11:16	03/23/94	FDM
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (b) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (g,h,i) Perylene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzo (k) Fluoranthene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Chloroethyl) Et	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Bis (2-Ethylhexyl) Pht	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
4-Bromophenyl Phenyl E	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	09:00	03/17/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
4-Chlorophenyl Phenyl	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Chrysene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Dibenzo (a,h) Anthrace	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
3,3'-Dichlorobenzidine	$\operatorname{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Fluorene	$\mathtt{BDL}$	10 ·	PPB	EPA 625	09:00	03/17/94	FDM ·
Hexachlorobenzene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Hexachlorobutadiene	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	09:00	03/17/94	FDM

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LAB ID: 287K02 SAMPLE ID: EFF #7-E

	Det.			Ana:	lysis		
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Indeno (1,2,3-cd) Pyre		10	PPB	EPA 625	09:00	03/17/94	FDM
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
N-Nitroso-Di-N-Propyla		10	PPB	EPA 625	09:00	03/17/94	FDM
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
2-Chlorophénol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
2-Methyl-4,6-Dinitroph		10	PPB	EPA 625	09:00	03/17/94	FDM
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Phenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10 .	PPB	EPA 625	09:00	03/17/94	FDM
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/17/94	FDM
4-Methylphenol	BDL	10 .	PPB	EPA 625	09:00	03/17/94	FDM
Nitrobenzene-d8	89	-	% Rec	EPA 625	09:00	03/17/94	FDM
2-Fluorobiphenyl	109		% Rec	EPA 625	09:00	03/17/94	FDM
p-Terphenyl-d14	86		% Rec	EPA 625	09:00	03/17/94	FDM
Phenol-d6	71		% Rec	EPA 625	09:00	03/17/94	FDM
2-Fluorophenol	82		% Rec	EPA 625	09:00	03/17/94	FDM
2,4,6-Tribromophenol	118		% Rec	EPA 625	09:00	03/17/94	FDM



**ENVIRONMENTAL LABORATORIES, INC.** 

11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

Date of Report: 03/11/94

Date Received: 02/25/94

Approved By:

Tyler H. Garber Laboratory Director

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 131K01

SAMPLE ID: INF. #6-I

		Det.			Ana	alysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal
рн	6.41	0-14	s.U.	EPA150.1	13:50	02/25/94	RCD
Acetone	BDL	5	ppb	EPA 8240	20:57	03/04/94	FDM
Benzene	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Bromoform	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Bromomethane	BDĹ	10	ppb	EPA 624	20:57	03/04/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	20:57	03/04/94	FDM
2-Chloroethylvinyl Eth	BDL	10	ppb	EPA 624	20:57	03/04/94	FDM
Chloroform	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	20:57	03/04/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	20:57	03/04/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	20:57	03/04/94	FDM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	20:57	03/04/94	FDM
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM

LAB ID: 131K01

SAMPLE ID: INF. #6-I

Parameter			Det.					
Methylene Chloride	Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
1,1,2,2-Tetrachlorothan   BDL   5	Ethyl Benzene	BDL	5	ppb	EPA 624		03/04/94	FDM
Tetrachloroethene	Methylene Chloride	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Toluene	1,1,2,2-Tetrachlorotha	BDL		ppb	EPA 624	20:57	03/04/94	FDM
1,1,1-Trichloroethane   BDL   5   ppb   EPA 624   20:57   03/04/94   FDM	Tetrachloroethene	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
1,1,2-Trichloroethane	Toluene	BDL		ppb	EPA 624	20:57	03/04/94	FDM
Trichloroethene	1,1,1-Trichloroethane	BDL	5.	ppb	EPA 624	20:57	03/04/94	FDM
Trichlorofluoromethane BDL 10 ppb EPA 624 20:57 03/04/94 FDM Vinyl Chloride BDL 10 ppb EPA 624 20:57 03/04/94 FDM 1,1,1,2-Tetrachloroeth BDL 10 ppb EPA 624 20:57 03/04/94 FDM 1,1,1,2-Tetrachloroeth BDL 10 ppb EPA 624 20:57 03/04/94 FDM 1,1,1,2-Tetrachloroetheme BDL 5 ppb EPA 624 20:57 03/04/94 FDM 1,2-dichloroethane-d4 119 % Rec EPA 624 20:57 03/04/94 FDM 1,2-Dichloroethane-d4 119 % Rec EPA 624 20:57 03/04/94 FDM 1,2-Dichloroethane-d4 119 % Rec EPA 624 20:57 03/04/94 FDM 10-lone-d8 99 % Rec EPA 624 20:57 03/04/94 FDM 10-lone-d8 99 % Rec EPA 624 20:57 03/04/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lone-d8 BDL 10 PPB EPA 625 09:00 03/02/94 FDM 10-lon	1,1,2-Trichloroethane	BDL		ppb	EPA 624	20:57	03/04/94	FDM
Trichlorofluoromethane   BDL   10   ppb   EPA 624   20:57   03/04/94   FDM	Trichloroethene	BDL	5	ppb	EPA 624	20:57	03/04/94	FDM
Vinyl Chloride	Trichlorofluoromethane	BDL	10	ppb	EPA 624	20:57	03/04/94	FDM
Total Xylene	Vinyl Chloride	BDL	10		EPA 624	20:57	03/04/94	FDM
1,1,1,2-Tetrachloroeth	Total Xylene	$\mathtt{BDL}$	5		EPA 624	20:57	03/04/94	FDM
Cis 1,2-dichloroethene BDL 110		BDL	10		EPA 624	20:57	03/04/94	FDM
1,2-Dichloroethane-d4			5		EPA 624	20:57	03/04/94	FDM
## A-Bromofluorobenzene   112	1,2-Dichloroethane-d4	119			EPA 624	20:57	03/04/94	FDM
## Acenaphthene   112	Toluene-d8	99		% Rec	EPA 624	20:57	03/04/94	FDM
Acenaphthylene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Anthracene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (a) Anthracene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 09:00 03/02/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 2-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene		112		% Rec	EPA 624	20:57	03/04/94	FDM
Acenaphthylene	Acenaphthene	$\mathtt{BDL}$	10	PPB '	EPA 625	09:00	03/02/94	FDM
Anthracene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (a) Anthracene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Chlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 F		$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (a) Pyrene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Benzo (b) Fluoranthene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Benzo (g,h,i) Perylene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Benzo (k) Fluoranthene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Chloroethoxy) M         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Chloroethyl) Et         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Chloroisopropyl BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Ethylhexyl) Pht BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Ethylhexyl) Pht BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Ethylhexyl) Pht BDL         10         PPB         EPA 625         09:00         03/		$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (b) Fluoranthene BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Benzo (g,h,i) Perylene BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Benzo (k) Fluoranthene BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Chloroethoxy) M BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Chloroethyl) Et BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Chloroisopropyl BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Bis (2-Ethylhexyl) Pht BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           4-Bromophenyl Phenyl E BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           4-Bromophenyl Phenyl E BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           4-Chloronaphthalene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Chrysene	Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (g,h,i) Perylene BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Benzo (k) Fluoranthene BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroethoxy) M BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroethyl) Et BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroisopropyl BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Ethylhexyl) Pht BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Bromophenyl Phenyl E BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         8-Chloronaphthalene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Chrysene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Dibenzo (a,h) Anthrace       BDL       10       PPB       EPA 625       09:00	Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (g,h,i) Perylene BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Benzo (k) Fluoranthene BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroethoxy) M BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroethyl) Et BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroisopropyl BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Ethylhexyl) Pht BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Bromophenyl Phenyl E BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         8-Chloronaphthalene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Chrysene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/		$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (k) Fluoranthene BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroethoxy) M BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroethyl) Et BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Chloroisopropyl BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Bis (2-Ethylhexyl) Pht BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Bromophenyl Phenyl E BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         8enzyl Butyl Phthalate BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         2-Chloronaphthalene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Chrysene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/			10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM			10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM	Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 09:00 03/02/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM			10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Ethylhexyl) Pht BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           4-Bromophenyl Phenyl E BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Benzyl Butyl Phthalate BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           2-Chloronaphthalene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           4-Chlorophenyl Phenyl         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Chrysene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           Dibenzo (a,h) Anthrace         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           1,2-Dichlorobenzene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           1,4-Dichlorobenzene         BDL         10         PPB         EPA 625         09:00         03/02/94         FDM           3,3'-Dichlorobenzidine         BDL         10         PPB         EPA 625         09:00         03/0			10	PPB	EPA 625	09:00	03/02/94	FDM
Benzyl Butyl Phthalate BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         2-Chloronaphthalene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Chrysene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Dibenzo (a,h) Anthrace       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,3-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,4-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         3,3'-Dichlorobenzidine       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Diethyl Phthalate       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM	Bis (2-Ethylhexyl) Pht	BDL .	10	PPB .	EPA 625	09:00	03/02/94	FDM
Benzyl Butyl Phthalate BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         2-Chloronaphthalene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Chrysene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Dibenzo (a,h) Anthrace       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,3-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         1,4-Dichlorobenzene       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         3,3'-Dichlorobenzidine       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM         Diethyl Phthalate       BDL       10       PPB       EPA 625       09:00       03/02/94       FDM	4-Bromophenyl Phenyl E	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
2-Chloronaphthalene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM			10	PPB	EPA 625	09:00	03/02/94	FDM
4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 09:00 03/02/94 FDM Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM				PPB	EPA 625	09:00	03/02/94	FDM
Chrysene BDL 10 PPB EPA 625 09:00 03/02/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM		BDL	10 .	PPB	EPA 625	09:00	03/02/94	FDM
Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM		$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
1,2-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM			10	PPB	EPA 625	09:00	03/02/94	FDM
1,3-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM			10	PPB		09:00	03/02/94	FDM
1,4-Dichlorobenzene BDL 10 PPB EPA 625 09:00 03/02/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM						09:00		FDM
3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 09:00 03/02/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM	•							FDM
Diethyl Phthalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM								FDM
Dimetryl Prinalate BDL 10 PPB EPA 625 09:00 03/02/94 FDM	Dimethyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM

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LAB ID: 131K01 SAMPLE ID: INF. #6-I

		Det.		Analysis				
Parameter	Result		Unit	${ t Method}$	Time	Date	Anal.	
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Fluorene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Hexachlorocyclopentadi	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Napĥthalene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Nitrobenzene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
N-Nitrosodiphenylamine		10	PPB	EPA 625	09:00	03/02/94	FDM	
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
2-Chlorophenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
2-Methyl-4,6-Dinitroph	BDL .	10	PPB	EPA 625	09:00	03/02/94	FDM	
2-Nitrophenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM	
Pentachlorophenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
Phenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
P-chloro-m-cresol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
4-Methylphenol	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM	
Nitrobenzene-d8	81		% Rec	EPA 625	09:00	03/02/94	FDM	
2-Fluorobiphenyl	92		% Rec	EPA 625	09:00	03/02/94	FDM	

LAB ID: 131K01 SAMPLE ID: INF. #6-I

		Det.					
Parameter	Result	Limit	Unit	Method	Time	lysis Date	Anal.
p-Terphenyl-d14	101		% Rec	EPA 625	09:00	03/02/94	FDM
Phenol-d6	72		% Rec	EPA 625	09:00	03/02/94	FDM
2-Fluorophenol	78		% Rec	EPA 625	09:00	03/02/94	FDM
2,4,6-Tribromophenol	108		% Rec	EPA 625	09:00	03/02/94	FDM
LAB ID: 131K02 SAMPLE ID: EFF #6-E							
На	6.23	0-14	s.U.	EPA150.1	13:50	02/25/94	RCD
Acetone	BDL	5	ppb	EPA 8240	22:20	03/04/94	FDM
Benzene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Bromoform	$\mathtt{BDL}$	5	ppb	EPA 624	22:20	03/04/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	22:20	03/04/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Chlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	22:20	03/04/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	22:20	03/04/94	FDM
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA 624	22:20	03/04/94	FDM
Chloroform	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	22:20	03/04/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	22:20	03/04/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	22:20	03/04/94	FDM
Trans-1, 2-Dichloroethe		5	ppb	EPA 624	22:20	03/04/94	FDM
1,2-Dichloropropane	BDL	·5		EPA 624	22:20	03/04/94	FDM
Cis-1,3-Dichloropropen		5	ppb	EPA 624	22:20	03/04/94	FDM
Trans-1,3-Dichloroprop		5 .	ppb	EPA 624	22:20	03/04/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	22:20	03/04/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Toluene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
Trichlorofluoromethane		10	ppb	EPA 624	22:20	03/04/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	22:20	03/04/94	FDM

LAB ID: 131K02 SAMPLE ID: EFF #6-E

SAMPLE ID: EFF #6-E		<b>D</b> - 4-			~	-	
<b>—</b>	D 7 to	Det.		30 - 1 3		lysis	
Parameter		Limit	Unit	Method	Time	Date	Anal.
Total Xylene	BDL	5	ppb	EPA 624	22:20	03/04/94	FDM
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	22:20	03/04/94	FDM
Cis 1,2-dichloroethene		5	ppb	EPA 624	22:20	03/04/94	FDM
1,2-Dichloroethane-d4	119		% Rec	EPA 624	22:20	03/04/94	FDM
Toluene-d8	99		% Rec	EPA 624	22:20	03/04/94	FDM
4-Bromofluorobenzene	112		% Rec	EPA 624	22:20	03/04/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (g,h,i) Perylene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Chloroethyl) Et	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Chloroisopropyl	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	09:00	03/02/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	09:00	03/02/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	09:00	03/02/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Chrysene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	09:00	03/02/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
3,3'-Dichlorobenzidine		10	PPB	EPA 625	09:00	03/02/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Fluorene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
		.10	PPB	EPA 625	09:00	03/02/94	FDM
Hexachlorobutadiene	BDL			EPA 625	09:00	03/02/94	FDM
Hexachlorocyclopentadi		10	PPB				FDM
Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	F DIM

LAB ID: 131K02 SAMPLE ID: EFF #6-E

		Det.					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
N-Nitroso-Di-N-Propyla		10	PPB	EPA 625	09:00	03/02/94	FDM
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 625	00:00	03/02/94	FDM
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
2-Methyl-4,6-Dinitroph		10	PPB	EPA 625	09:00	03/02/94	FDM
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Phenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	09:00	03/02/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	09:00	03/02/94	FDM
4-Methylphenol	BDL	10 .	PPB	EPA 625	09:00	03/02/94	FDM
Nitrobenzene-d8	84		% Rec	EPA 625	09:00	03/02/94	FDM
2-Fluorobiphenyl	106		% Rec	EPA 625	09:00	03/02/94	FDM
p-Terphenyl-d14	109		% Rec	EPA 625	09:00	03/02/94	FDM
Phenol-d6	84		% Rec	EPA 625	09:00	03/02/94	FDM
2-Fluorophenol	79		% Rec	EPA 625	09:00	03/02/94	FDM
2,4,6-Tribromophenol	120		% Rec	EPA 625	09:00	03/02/94	FDM

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**ENVIRONMENTAL LABORATORIES, INC.** 

11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

Date of Report: Date Received:

02/23/94 02/08/94

Approved By:

Tyler H. Garber Laboratory Director

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 868J01

SAMPLE ID: INF #5-I

		Det.			Ana	alysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Bromodichloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Bromoform	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	18:08	02/14/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	18:08	02/14/94	FDM
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA 624	18:08	02/14/94	FDM
Chloroform	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	18:08	02/14/94	FDM
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
1,2-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	18:08	02/14/94	FDM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
Metĥylene Chloride	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM

LAB ID: 868J01 SAMPLE ID: INF #5-I

		Det.					
Parameter	Result	Limit	Unit	Method	Time	lysis Date	Anal.
1,1,2,2-Tetrachlorotha	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Tetrachloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Toluene	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
Trichlorofluoromethane	BDL	10	ppb	EPA 624	18:08	02/14/94	FDM
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	18:08	02/14/94	FDM
Total Xylene	$\mathtt{BDL}$	5	ppb	EPA 624	18:08	02/14/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	18:08	02/14/94	FDM
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	dqq	EPA 624	18:08	02/14/94	FDM
1,2-Dichloroethane-d4	117		% Rec	EPA 624	18:08	02/14/94	FDM
Toluene-d8	98		% Rec	EPA 624	18:08	02/14/94	FDM
4-Bromofluorobenzene	98		% Rec	EPA 624	18:08	02/14/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Benzo (g,h,i) Perylene		10	PPB	EPA 625	08:30	02/09/94	FDM
Benzo (k) Fluoranthene		10	PPB	EPA 625	08:30	02/09/94	FDM
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	08:30	02/09/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	08:30	02/09/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:30	02/09/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:30	02/09/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	08:30	02/09/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:30	02/09/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Chrysene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:30	02/09/94	FDM

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LAB ID: 868J01 SAMPLE ID: INF #5-I

		Det.		Analysis				
Parameter	Result	Limit	Unit	Method	d T		Date	Anal.
2,6-Dinitrotoluene	BDL	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Fluorene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Hexachlorobutadiene	BDL	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Hexachlorocyclopentadi		10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Benzidine	BDL	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 62	25 0		02/09/94	FDM
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 62	25 0		02/09/94	FDM
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 62	25 0		02/09/94	FDM
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 62	25 0	8:30	02/09/94	FDM
Pentachlorophenol	$\mathtt{BDL}$	10	PPB .	EPA 62	25 0	8:30	02/09/94	FDM
Phenol	$\mathtt{BDL}$	10	PPB	EPA 62			02/09/94	FDM
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 62	25 0		02/09/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 62	25 0		02/09/94	FDM
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 62			02/09/94	FDM
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 62	25 0		02/09/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 62	25 0		02/09/94	FDM
4-Methylphenol	BDL	10	PPB	EPA 62	25 0		02/09/94	FDM
Nitrobenzene-d8	104		% Rec	EPA 62			02/09/94	FDM
2-Fluorobiphenyl .	94		% Rec	EPA 62			02/09/94	FDM
p-Terphenyl-d14	105		% Rec	EPA 62			02/09/94	FDM
Phenol-d6	68		% Rec	EPA 62	25 0	8:30	02/09/94	FDM

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LAB ID: 868J01 SAMPLE ID: INF #5-I

2		Det.			Ana	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
2-Fluorophenol	71		% Rec	EPA 625	08:30	02/09/94	FDM
2,4,6-Tribromophenol	121		% Rec	EPA 625	08:30	02/09/94	FDM
Acetone	BDL	5	ppb	EPA 8240	18:08	02/14/94	FDM
LAB ID: 868J02							
SAMPLE ID: EFF #5-E		_				/ /	
Benzene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Bromoform	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	19:30	02/14/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	19:30	02/14/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	19:30	02/14/94	FDM
Chloroform	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	19:30	02/14/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	19:30	02/14/94	FDM
Trans-1,2-Dichloroethe		5	ppb	EPA 624	19:30	02/14/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Cis-1,3-Dichloropropen		5	ppb	EPA 624	19:30	02/14/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Ethyl Benzene	BDL	5 .	ppb	EPA 624	19:30	02/14/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	19:30	02/14/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Toluene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
Trichlorofluoromethane		10	ppb	EPA 624	19:30	02/14/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	19:30	02/14/94	FDM
Total Xylene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	19:30	02/14/94	FDM
Cis 1,2-dichloroethene	BDL	5	ppb	EPA 624	19:30	02/14/94	FDM

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LAB ID: 868J02 SAMPLE ID: EFF #5-E

Parameter			Det.			Anal	lysis	
Toluene-d8 96	Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
4-Bromofluorobenzene 101	1,2-Dichloroethane-d4				EPA 624	19:30	02/14/94	FDM
Acenaphthene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Acenaphthylene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Anthracene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 02/09/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Chrysene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Chrysene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 P								
Acenaphthylene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Anthracene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 02/09/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 02/09/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 02/09/94 FDM Chrysene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dientyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dientyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dientyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dientyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dientyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dientyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Dientyl Phthalate BDL	4-Bromofluorobenzene	101				19:30		
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Diethyl Phthalate       BDL       10       PPB       EPA 625       08:30       02/09/94       FDM         Dimethyl Phthalate       BDL       10       PPB       EPA 625       08:30       02/09/94       FDM         Di-N-Butyl Phthalate       BDL       10       PPB       EPA 625       08:30       02/09/94       FDM								
Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM	•							
Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM	<b>-</b>							
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2 4-Dinitrotoluene					•			
	2,4-Dinitrotoluene	$\mathtt{BDL}_{\cdot}$	10	PPB	EPA 625	08:30	02/09/94	FDM
2,6-Dinitrotoluene BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Di-N-Octylphthalate BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Fluoranthene BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Fluorene BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Hexachlorobenzene BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Hexachlorobutadiene BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Hexachloroethane BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 08:30 02/09/94 FDM								
Isophorone BDL 10 PPB EPA 625 08:30 02/09/94 FDM	<b>-</b>							
Naphthalene BDL 10 PPB EPA 625 08:30 02/09/94 FDM	Naphthalene	BDL	10	PPB	EPA 625	08:30	02/09/94	F.DW

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LAB ID: 868J02 SAMPLE ID: EFF #5-E

		Det.		Analysis				
Parameter	Result	Limit	Unit	Meth	rod	Time	Date	Anal.
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA	625	08:30	02/09/94	FDM
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
Pyrene	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
Benzidine	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB		625	08:30	02/09/94	FDM
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA	625	08:30	02/09/94	FDM
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA		08:30	02/09/94	FDM
Phenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:30	02/09/94	FDM
Nitrobenzene-d8	100		% Rec	EPA	625	08:30	02/09/94	FDM
2-Fluorobiphenyl	82		% Rec .	EPA	625	08:30	02/09/94	FDM
p-Terphenyl-d14	101 .		% Rec	EPA	625	08:30	02/09/94	FDM
Phenol-d6	69		% Rec	EPA	625	08:30	02/09/94	FDM
2-Fluorophenol	78		% Rec	EPA	625	08:30	02/09/94	FDM
2,4,6-Tribromophenol	118		% Rec	EPA	625	08:30	02/09/94	FDM
Acetone	BDL	5	ppb	EPA	8240	19:30	02/14/94	FDM



ENVIRONMENTAL LABORATORIES, INC. 11176 Downs Road Pineville, NC 28134

704/588-5076 FAX 704/588-2454 NC Certification Number: 305 SC Certification Number: 99032

Date of Report:
Date Received:

81/26/94

Approved By:

Tyler H. Garber Laboratory Director

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 739J01

SAMPLE ID: INF #4-I

		Det.			Ana	alysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Benzene	BDL	5	ppb	EPA 624	23:02	02/01/94	THG
Bromodichloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Bromoform	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	23:02	02/01/94	THG
Carbon Tetrachloride	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Chlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	23:02	02/01/94	THG
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA 624	23:02	02/01/94	THG
Chloroform	$\mathtt{BDL}$	5	ppb ·	EPA 624	23:02	02/01/94	THG
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	23:02	02/01/94	THG
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
1,2-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	23:02	02/01/94	THG
Trans-1,2-Dichloroethe	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Trans-1,3-Dichloroprop	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Ethyl Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	23:02	02/01/94	THG
Methylene Chloride	BDL	5	ppb	EPA 624	23:02	02/01/94	THG

LAB ID: 739J01

SAMPLE ID: INF #4-I

Parameter			Det.					
Tetrachloroethene BDL 5 ppb EPA 624 23:02 02/01/94 THG Toluene BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,1,1-Trichloroethane BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,1,2-Trichloroethane BDL 5 ppb EPA 624 23:02 02/01/94 THG Trichloroethane BDL 5 ppb EPA 624 23:02 02/01/94 THG Trichloroethane BDL 5 ppb EPA 624 23:02 02/01/94 THG Trichlorofluoromethane BDL 10 ppb EPA 624 23:02 02/01/94 THG Trichlorofluoromethane BDL 10 ppb EPA 624 23:02 02/01/94 THG Trichlorofluoromethane BDL 10 ppb EPA 624 23:02 02/01/94 THG Total Xylene BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d4 93 % Rec EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d8 96 % Rec EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d8 96 % Rec EPA 624 23:02 02/01/94 THG 4-Bromofluorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG PB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG PB EPA 625 08:30 01/31/94 THG PB EPA 625 08:30 01/31/94 THG PB EPA 625 08:30 01/31/94	Parameter	Result	Limit	Unit	Method		lysis Date	Anal.
Toluene				ppb	EPA 624	23:02	02/01/94	THG
1,1,1-Trichloroethane   BDL   5   PDb   EPA 624   23:02   02/01/94   THG	Tetrachloroethene			ppb		23:02	02/01/94	THG
1,1,2-Trichloroethane   BDL   5   Ppb   EPA 624   23:02   02/01/94   THG   Trichloroethene   BDL   5   Ppb   EPA 624   23:02   02/01/94   THG   Trichlorofluoromethane   BDL   10   Ppb   EPA 624   23:02   02/01/94   THG   Vinyl Chloride   BDL   10   Ppb   EPA 624   23:02   02/01/94   THG   Total Xylene   BDL   5   Ppb   EPA 624   23:02   02/01/94   THG   Total Xylene   BDL   5   Ppb   EPA 624   23:02   02/01/94   THG   Total Xylene   BDL   5   Ppb   EPA 624   23:02   02/01/94   THG   Th				ppb		23:02	02/01/94	
Trichloroethene   BDL   5   ppb   EPA 624   23:02   02/01/94   THG   Vinyl Chloride   BDL   10   ppb   EPA 624   23:02   02/01/94   THG   Vinyl Chloride   BDL   10   ppb   EPA 624   23:02   02/01/94   THG   Vinyl Chloride   BDL   5   ppb   EPA 624   23:02   02/01/94   THG   Total Xylene   BDL   5   ppb   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethene   BDL   5   ppb   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethene   BDL   5   ppb   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethane-d4   93   % Rec   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethane-d4   96   % Rec   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethane-d8   96   % Rec   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethane-d8   96   % Rec   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethane-d8   96   % Rec   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethane-d8   96   % Rec   EPA 624   23:02   02/01/94   THG   Cis 1,2-dichloroethene   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Cis 1,2-dichloroethane-d8   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Cis 1,2-dichloroethane-d8   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Benzo (a) Anthracene   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Benzo (b) Fluoranthene   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Benzo (c) Fluoranthene   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Bis (2-Chloroethay)   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Bis (2-Ethylhexyl)   Pth BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Benzyl   Butyl   Pthalate   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Benzyl   Butyl   Pthalate   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Benzyl   Butyl   Pthalate   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Chrysene   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Chrysene   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   Chrysene   BDL   10   PPB   EPA 625   08:30   01/31/94   THG   1,4-Dichlorobenzene   BDL   10   PPB   EPA 625						23:02		
Trichlorofluoromethane BDL 10 ppb EPA 624 23:02 02/01/94 THG Vinyl Chloride BDL 10 ppb EPA 624 23:02 02/01/94 THG Total Xylene BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d4 93 %Rec EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d4 93 %Rec EPA 624 23:02 02/01/94 THG Toluene-d8 96 %Rec EPA 624 23:02 02/01/94 THG Toluene-d8 96 %Rec EPA 624 23:02 02/01/94 THG Acenaphthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG PB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibentyl Phthalate BDL 10 PPB EPA 625 08:3				ppb	EPA 624	23:02		
Vinyl Chloride			5	ppb		23:02		
Total Xylene BDL 5 ppb EPA 624 23:02 02/01/94 THG Cis 1,2-dichloroethene BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d4 93 % Rec EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d4 93 % Rec EPA 624 23:02 02/01/94 THG Toluene-d8 96 % Rec EPA 624 23:02 02/01/94 THG A-Bromofluorobenzene 96 % Rec EPA 624 23:02 02/01/94 THG A-Bromofluorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Pyrene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chlorospropyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chlorospropyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Brzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Brzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phthalate BDL 10 PPB EPA 625 08				ppb				
Total Xylene BDL 5 ppb EPA 624 23:02 02/01/94 THG Cis 1,2-dichloroethene BDL 5 ppb EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d4 93 % Rec EPA 624 23:02 02/01/94 THG 1,2-Dichloroethane-d4 93 % Rec EPA 624 23:02 02/01/94 THG Toluene-d8 96 % Rec EPA 624 23:02 02/01/94 THG A-Bromofluorobenzene 96 % Rec EPA 624 23:02 02/01/94 THG A-Bromofluorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Pyrene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chlorospropyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chlorospropyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Brzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Brzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG B-Chlorophenyl Phthalate BDL 10 PPB EPA 625 08	Vinyl Chloride	$\mathtt{BDL}$	10	ppb				
Cis 1,2-dichloroethene BDL 5				ppb				
1,2-Dichloroethane-d4 93	1,1,1,2-Tetrachloroeth	$\mathtt{BDL}$		ppb	EPA 624	23:02	02/01/94	
Toluene-d8 4-Bromofluorobenzene 96	Cis 1,2-dichloroethene		5			23:02	02/01/94	
4-Bromofluorobenzene 96 Acenaphthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Pyrene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG 2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL	1,2-Dichloroethane-d4					23:02		
Acenaphthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Acenaphthylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Anthracene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (a) Pyrene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloronaphthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL				% Rec		23:02		
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Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG 2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG								
Bis (2-Chloroethoxy) M BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Bis (2-Chloroethyl) Et BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Bis (2-Chloroisopropyl BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Bis (2-Ethylhexyl) Pht BDL       10       PPB       EPA 625       08:30       01/31/94       THG         4-Bromophenyl Phenyl E BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Benzyl Butyl Phthalate BDL       10       PPB       EPA 625       08:30       01/31/94       THG         2-Chloronaphthalene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Chrysene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         1,4-Dichlorobenzene       BDL       10       PPB       EPA 625       08:30	Benzo (g,h,i) Perylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	
Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG 2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	· •							
Bis (2-Chloroisopropyl BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Bis (2-Ethylhexyl) Pht BDL       10       PPB       EPA 625       08:30       01/31/94       THG         4-Bromophenyl Phenyl E BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Benzyl Butyl Phthalate BDL       10       PPB       EPA 625       08:30       01/31/94       THG         2-Chloronaphthalene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Chrysene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Dibenzo (a,h) Anthrace       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         1,4-Dichlorobenzene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         3,3'-Dichlorobenzidine       BDL       10       PPB       EPA 6	Bis (2-Chloroethoxy) M	$\mathtt{BDL}$		PPB		08:30		
Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG 2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	Bis (2-Chloroethyl) Et	$\mathtt{BDL}$		PPB		08:30		
4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:30 01/31/94 THG Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG 2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG				PPB				
Benzyl Butyl Phthalate       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         2-Chloronaphthalene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         4-Chlorophenyl Phenyl       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Chrysene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Dibenzo (a,h) Anthrace       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         1,3-Dichlorobenzene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         1,4-Dichlorobenzene       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         3,3'-Dichlorobenzidine       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Diethyl Phthalate       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Di-N-Butyl Phthalate       BDL	Bis (2-Ethylhexyl) Pht	$\mathtt{BDL}$		PPB	EPA 625	08:30		
2-Chloronaphthalene BDL 10 PPB EPA 625 08:30 01/31/94 THG 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	4-Bromophenyl Phenyl E	BDL		PPB	EPA 625	08:30		
4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:30 01/31/94 THG Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	Benzyl Butyl Phthalate		10	PPB		08:30		
Chrysene BDL 10 PPB EPA 625 08:30 01/31/94 THG Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB .	EPA 625	08:30		
Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	4-Chlorophenyl Phenyl			PPB		08:30		
1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG			10	PPB	EPA 625	08:30		
1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG								
1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:30 01/31/94 THG 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625			
3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:30 01/31/94 THG Diethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:30		
Diethyl Phthalate       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Dimethyl Phthalate       BDL       10       PPB       EPA 625       08:30       01/31/94       THG         Di-N-Butyl Phthalate       BDL       10       PPB       EPA 625       08:30       01/31/94       THG	1,4-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30		
Dimethyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	3,3'-Dichlorobenzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:30		
Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:30 01/31/94 THG	Diethyl Phthalate	BDL	10	PPB		08:30		
	Dimethyl Phthalate	$\mathtt{BDL}$	10	PPB		08:30		
2,4-Dinitrotoluene BDL 10 PPB EPA 625 08:30 01/31/94 THG	Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	
	2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:30	01/31/94	THG

LAB ID: 739J01 SAMPLE ID: INF #4-I

		Det.		Analysis				
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.	
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Fluorene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Hexachlorobenzene .	BDL	. 10	PPB	EPA 625	08:30	01./31/94	$\mathtt{THG}$	
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:30	01/31/94	THG	
Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	08:30	01/31/94	THG	
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:30	01/31/94	THG	
N-Nitrosodiphenylamine		10	PPB	EPA 625	08:30	01/31/94	THG	
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Phenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:30	01/31/94	THG	
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:30	01/31/94	THG	
Nitrobenzene-d8	82		% Rec	EPA 625	08:30	01/31/94	THG	
2-Fluorobiphenyl	77		% Rec	EPA 625	08:30	01/31/94	THG	
p-Terphenyl-d14	77		% Rec	EPA 625	08:30	01/31/94	THG	
Phenol-d6	60		% Rec	EPA 625	08:30	01/31/94	THG	

LAB ID: 739J01

SAMPLE ID: INF #4-I

		Det.		Analysis				
Parameter	Result	Limit	Unit	Meth	ıod	Time	Date	Anal.
2-Fluorophenol	85		% Rec	EPA		08:30	01/31/94	THG
2,4,6-Tribromophenol	131		% Rec	EPA	625	08:30	01/31/94	THG
LAB ID: 739J02								
SAMPLE ID: EFF #4-E								
Benzene	BDL	5	ppb	EPA	624	00:24	02/02/94	THG
Bromodichloromethane	$\mathtt{BDL}$	5	ppb	EPA	624	00:24	02/02/94	THG
Bromoform	BDL	5	ppb	EPA		00:24	02/02/94	THG
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA	624	00:24	02/02/94	THG
Carbon Tetrachloride	$\mathtt{BDL}$	5 .	ppb	EPA	624	00:24	02/02/94	THG
Chlorobenzene	BDL	5	ppb	EPA	624	00:24	02/02/94	THG
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA	624	00:24	02/02/94	THG
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA	624	00:24	02/02/94	THG
Chloroform	BDL	5	ppb	EPA	624	00:24	02/02/94	THG
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA	624	00:24	02/02/94	THG
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA	624	00:24	02/02/94	THG
1,2-Dichlorobenzene	BDL	5	ppb	EPA	624	00:24	02/02/94	THG
1,3-Dichlorobenzene	BDL	5	ppb	EPA	624	00:24	02/02/94	THG
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA	624	00:24	02/02/94	THG
1,1-Dichloroethane	BDL	5	ppb	EPA	624	00:24	02/02/94	THG
1,2-Dichloroethane	BDL	5	ppb	EPA	624	00:24	02/02/94	THG
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA	624	00:24	02/02/94	THG
Trans-1,2-Dichloroethe	$\mathtt{BDL}$	5	ppb	EPA	624	00:24	02/02/94	THG
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA	624	00:24	02/02/94	THG
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA	624	00:24	02/02/94	THG
Trans-1,3-Dichloroprop	$\mathtt{BDL}$	5 ·	ppb	EPA		00:24	02/02/94	$\mathtt{THG}$
Ethyl Benzene	B.DL	5	ppb	EPA		00:24	02/02/94	THG
Methylene Chloride	$\mathtt{BDL}$	5	ppb	EPA		00:24	021/02/94	THG
1,1,2,2-Tetrachlorotha	$\mathtt{BDL}$	5	ppb	EPA		00:24	02/02/94	THG
Tetrachloroethene	$\mathtt{BDL}$	5	ppb	EPA		00:24	02/02/94	THG
Toluene	$\mathtt{BDL}$	5	ppb	EPA		00:24	02/02/94	THG
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA		00:24	02/02/94	THG
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA		00:24	02/02/94	THG
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA		00:24	02/02/94	THG
Trichlorofluoromethane		10	ppb	EPA		00:24	02/02/94	THG
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA		00:24	02/02/94	THG
Total Xylene	BDL	5	ppb	EPA		00:24	02/02/94	THG
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA		00:24	02/02/94	THG
Cis 1,2-dichloroethene	BDL	5	ppb	EPA		00:24	02/02/94	THG
1,2-Dichloroethane-d4	93		% Rec	EPA	624	00424	02/02/94	THG

LAB ID: 739J02

SAMPLE ID: EFF #4-E

		Det.			Ana	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Toluene-d8	95		% Rec	EPA 624	00:24	02/02/94	THG
4-Bromofluorobenzene	96		% Rec	EPA 624	00:24	02/02/94	THG
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Anthracene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Benzo (b) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Benzo (q,h,i) Perylene		10	PPB	EPA 625	08:15	02/01/94	THG
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Bis (2-Chloroethyl) Et	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Bis (2-Chloroisopropyl	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:15	02/01/94	THG
4-Bromophenyl Phenyl E	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Benzyl Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Chrysene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG ·
3,3'-Dichlorobenzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Diethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Dimethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Fluorene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	02/01/94	THG
Indeno (1,2,3-cd) Pyre		10	PPB	EPA 625	08:15	02/01/94	THG
Isophorone	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Naphthalene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG
Nitrobenzene	BDL	10	PPB	EPA 625	08:15	02/01/94	THG

LAB ID: 739J02

SAMPLE ID: EFF #4-E

		Det.		Analysis				
Parameter	Result	Limit	Unit	Meth	.od	Time	Date	Anal.
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA	625	08:15	02/01/94	THG
N-Nitrosodiphenylamine	BDL	10	PPB	EPA	625	08:15	02/01/94	THG
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
Pyrene	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
Benzidine	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	$\mathtt{THG}$
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	$\mathtt{THG}$
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	$\mathtt{THG}$
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	$\mathtt{THG}$
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	$\mathtt{THG}$
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA		08:15	02/01/94	THG
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
Phenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
P-chloro-m-cresol	BDL	10	PPB	EPA	625	08:15	02/01/94	THG
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94…	
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	02/01/94	THG
Nitrobenzene-d8	78		% Rec	EPA	625	08:15	02/01/94	THG
2-Fluorobiphenyl	72		% Rec	EPA	625	08:15	02/01/94	THG
p-Terphenyl-d14	65		% Rec	EPA	625	08:15	02/01/94	THG
Phenol-d6	52		% Rec		625	08:15	02/01/94	THG
2-Fluorophenol	71		% Rec	EPA		08:15	02/01/94	THG
2,4,6-Tribromophenol	118		% Rec	EPA	625	08:15	02/01/94	THG

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ENVIRONMENTAL LABORATORIES, INC.

11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

Date of Report:
Date Received:

02/14794 <del>201/04/1</del>94

Approved By:

Tyler H. Garber Laboratory Director

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 431J01

SAMPLE ID: INF. #3-I

		Det.			Ana	alysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
рН	6.69	0-14	s.u.	EPA150.1	13:25	01/04/94	RCD
Acetone	BDL	5	ppb	EPA 8240	19:51	01/13/94	THG
Benzene	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Bromodichloromethane	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Bromoform	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Bromomethane	BDL	10	ppb	EPA 624	19:51	01/13/94	THG
Carbon Tetrachloride	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Chlorobenzene	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Chloroethane	BDL	10	ppb	EPA 624	19:51	01/13/94	THG
2-Chloroethylvinyl Eth	BDL	10	ppb	EPA 624	19:51	01/13/94	THG
Chloroform -	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	19:51	01/13/94	THG
Dibromochloromethane	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,1-Dichloroethane	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,2-Dichloroethane	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,1-Dichloroethene	BDL	10	ppb	EPA 624	19:51	01/13/94	THG
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,2-Dichloropropane	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	19:51	01/13/94	THG

LAB ID: 431J01

SAMPLE ID: INF. #3-I

		Det.					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Ethyl Benzene	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Methylene Chloride	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Tetrachloroethene	BDL	5	ppb	EPA 624	19:51	01/13/94	$\mathtt{THG}$
Toluene	$\mathtt{BDL}$	5	ppb	EPA 624	19:51	01/13/94	THG
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	19:51	01/13/94	THG
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	19:51	01/13/94	THG
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	19:51	01/13/94	THG
Trichlorofluoromethane		10	ppb	EPA 624	19:51	01/13/94	THG
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	19:51	01/13/94	THG
Total Xylene	$\mathtt{BDL}$	5	ppb	EPA 624	19:51	01/13/94	THG
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	19:51	01/13/94	THG
Cis 1,2-dichloroethene		5	ppb	EPA 624	19:51	01/13/94	THG
1,2-Dichloroethane-d4	106		% Rec	EPA 624	19:51	01/13/94	THG
Toluene-d8	102		% Rec	EPA 624	19:51	01/13/94	· THG
4-Bromofluorobenzene	108		% Rec	EPA 624	19:51	01/13/94	THG
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Benzo (b) Fluoranthene		10	PPB	EPA 625	09:30	01/10/94	THG
Benzo (g,h,i) Perylene		10	PPB	EPA 625	09:30	01/10/94	THG
Benzo (k) Fluoranthene		10	PPB	EPA 625	09:30	01/10/94	THG
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	09:30	01/10/94	THG
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	09:30	01/10/94	THG
Bis (2-Chloroisopropyl		10	PPB	EPA 625	09:30	01/10/94	THG
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	09:30	01/10/94	THG
4-Bromophenyl Phenyl E		10	-BĎB	EPA 625	09:30	01/10/94	THG
Benzyl Butyl Phthalate		10	PPB	EPA 625	09:30	01/10/94	THG
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
4-Chlorophenyl Phenyl	$\mathtt{BDL}$	10	PPB .	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Chrysene	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	09:30	01/10/94	THG
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
3,3'-Dichlorobenzidine		10	PPB	EPA 625	09:30	01/10/94	THG
Diethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Dimethyl Phthalate	BDL	10	PPB	EPA 625	09:30	01/10/94	THG

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LAB ID: 431J01 SAMPLE ID: INF. #3-I

SAMPLE ID: INF. #3-1								
		Det.					lysis	
Parameter	Result		Unit	Method		.me	Date	Anal.
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 62		30:30	01/10/94	THG
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 62		30:30	01/10/94	THG
2,6-Dinitrotoluene	BDL	10	PPB	EPA 62		30:30	01/10/94	THG
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 62		9:30	01/10/94	THG
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 62		3:30	01/10/94	THG
Fluorene	·BDL	10	PPB	EPA 62		9:30	01/10/94	THG
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	3:30	01/10/94	THG
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	3:30	01/10/94	$\mathtt{THG}$
Hexachlorocyclopentadi	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	30:30	01/10/94	THG
Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	3:30	01/10/94	THG
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	9:30	01/10/94	THG
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	3:30	01/10/94	THG
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	3:30	01/10/94	THG
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	3:30	01/10/94	THG
N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	3:30	01/10/94	THG
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	:30	01/10/94	THG
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	:30	01/10/94	THG
Pyrene	BDL	10	PPB	EPA 62	25 09	:30	01/10/94	THG
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 62	25 09	30:30	01/10/94	THG
Benzidine	BDL	10	PPB	EPA 62	25 09	:30	01/10/94	THG
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 62		:30	01/10/94	THG
N-Nitrosodimethylamine	BDL	10	PPB	EPA 62		:30	01/10/94	THG
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 62		:30	01/10/94	THG
2-Chlorophenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
2,4-Dichlorophenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
2,4-Dimethylphenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
2,4-Dinitrophenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 62		:30	01/10/94	. THG
2-Nitrophenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
4-Nitrophenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
Pentachlorophenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
Phenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 62		:30	01/10/94	THG
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
P-chloro-m-cresol	BDL	10	PPB	EPA 62		:30	01/10/94	THG
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 62		:30	01/10/94	THG
4-Methylphenol	BDL	10	PPB	EPA 62		:30	01/10/94	
Nitrobenzene-d8	82		% Rec	EPA 62		:30	01/10/94	THG
2-Fluorobiphenyl	102		% Rec	EPA 62		:30	01/10/94	THG
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LAB ID: 431J01 SAMPLE ID: INF. #3-I

		Det.					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
p-Terphenyl-d14	112		% Rec	EPA 625	09:30	01/10/94	THG
Phenol-d6	78		% Rec	EPA 625	09:30	01/10/94	THG
2-Fluorophenol	74		% Rec	EPA 625	09:30	01/10/94	$\mathtt{THG}$
2,4,6-Tribromophenol	102		% Rec	EPA 625	09:30	01/10/94	THG
LAB ID: 431J02 SAMPLE ID: EFF #3-E							
pH	7.54	0-14	s.u.	EPA150.1	13:30	01/04/94	RCD
Acetone	BDL	5	ppb	EPA 8240	21:11	01/13/94	THG
Benzene	BDL	5	ppb	EPA 624	21:11	01/13/94	THG
Bromodichloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
Bromoform	BDL	5	ppb	EPA 624	21:11	01/13/94	THG
Bromomethane	BDL	10	ppb	EPA 624	21:11	01/13/94	THG
Carbon Tetrachloride	BDL	5	ppb	EPA 624	21:11	01/13/94	THG
Chlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	21:11	01/13/94	THG
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA 624	21:11	01/13/94	THG
Chloroform	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	21:11	01/13/94	· THG
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	21:11	01/13/94	THG
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	21:11	01/13/94	THG
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	$\mathtt{THG}$
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	$\mathtt{THG}$
1,2-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	21:11	01/13/94	THG
Trans-1,2-Dichloroethe		5	ppb	EPA 624	21:11	01/13/94	THG
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
Cis-1,3-Dichloropropen		5		EPA 624	21:11	01/13/94	THG
Trans-1,3-Dichloroprop		5	ppb	EPA 624	21:11	01/13/94	THG
Ethyl Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
Methylene Chloride	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	21:11	01/13/94	THG
Tetrachloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
Toluene	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	21:11	01/13/94	THG
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	21:11	01/13/94	THG
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
Trichlorofluoromethane		10	ppb	EPA 624	21:11	01/13/94	THG
Vinyl Chloride	BDL	10	ppb	EPA 624	21:11	01/13/94	THG

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LAB ID: 431J02 SAMPLE ID: EFF #3-E

SAMPLE ID: EFF #3-E							
		Det.				lysis	
Parameter	Result	Limit	Unit	${ t Method}$	Time	Date	Anal.
Total Xylene	$\mathtt{BDL}$	5	ppb	EPA 624	21:11	01/13/94	THG
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	21:11	01/13/94	THG
Cis 1,2-dichloroethene		5	ppb	EPA 624	21:11	01/13/94	THG
1,2-Dichloroethane-d4	118		% Rec	EPA 624	21:11	01/13/94	THG
Toluene-d8	102		% Rec	EPA 624	21:11	01/13/94	THG
4-Bromofluorobenzene	109		% Rec	EPA 624	21:11	01/13/94	THG
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Benzo (g,h,i) Perylene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Bis (2-Chloroethyl) Et	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
Bis (2-Chloroisopropyl	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Bis (2-Ethylhexyl) Pht	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
4-Bromophenyl Phenyl E	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
Benzyl Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
4-Chlorophenyl Phenyl	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Chrysene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Dibenzo (a,h) Anthrace	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
1,2-Dichlorobenzene	BDL .	10	PPB	EPA 625	09:30	01/10/94	THG
1,3-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
1,4-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
3,3'-Dichlorobenzidine	$\mathtt{BDL}$	10 -	PPB	EPA 625	09:30	01/10/94	THG
Diethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Dimethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	· THG
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Fluorene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Hexachlorobutadiene	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
Hexachloroethane	BDL	10	PPB	EPA 625	09:30	01/10/94	THG

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LAB ID: 431J02 SAMPLE ID: EFF #3-E

		Det.					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
N-Nitrosodiphenylamine	BDL	10	PPB	EPA 625	09:30	01/10/94	THG
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	THG
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
N-Nitrosodimethylamine		10	PPB	EPA 625		01/10/94	THG
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	09:30	01/10/94	$\mathtt{THG}$
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625		01/10/94	THG
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
Phenol	BDL	10	PPB	EPA 625		01/10/94	THG
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625		01/10/94	· THG
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
P-chloro-m-cresol	BDL	10	PPB	EPA 625		01/10/94	THG
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA 625		01/10/94	THG
Nitrobenzene-d8	94		% Rec	EPA 625		01/10/94	THG
2-Fluorobiphenyl	108		% Rec	EPA 625		01/10/94	THG
p-Terphenyl-d14	108		% Rec	EPA 625		01/10/94	THG
Phenol-d6	85		% Rec	EPA 625		01/10/94	THG
2-Fluorophenol	76		% Rec	EPA 625		01/10/94	THG
2,4,6-Tribromophenol	101		% Rec	EPA 625	09:30	01/10/94	$\mathtt{THG}$

WASHINGTON OFFICE

JUN 1 3 1994

D. E. M.

Monitoring Well Report Hackney and Sons Washington, North Carolina

Prepared by

AquaChem Environmental Laboratories, Inc. 11176 Downs Road Pineville, North Carolina 28134 704/588-5076 FAX 704/588-2454

## Monitoring Well Sampling Hackney & Sons Washington, North Carolina

## Field Investigation

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On March 3, 1994, AquaChem Environmental Laboratories, Inc. mobilized to the Hackney and Sons Site in Washington, North Carolina to conduct the quarterly ground water sampling event required under Hackney and Sons Permit Number WQ0007970 at eleven (11) locations as denoted on the attached site plant (attachment A). The procedures followed in sampling the monitoring wells (MW-25, MW-26, MW-26D, MW-29, MW-30, MW-11, MW-28B, MW-29B, MW-30B, OW-D1, OW-1S) are specified in the sampling and analysis plant contained in the permit.

Upon arrival at the Hackney and Sons (Washington) site, the water levels of all the wells were measured using a "Well Water Depth Indicator" and recorded (see Laboratory Report). Prior to sampling, all wells were developed by removing three to five well volumes of water using teflon bailers. The water bailed from each well was collected in a container and disposed of in Hackney and Sons wastewater treatment plant. The wells were sampled immediately after purging each well.

Following development, each monitoring well was sampled using Teflon Bailers. While sampling the monitoring wells using EPA procedures, the pH for each well was field analyzed and recorded (See Laboratory Report). Each sample collected was then placed into a sample container which was labeled denoting the job name, sample number, date, time, location, and analysis to be conducted. The sample containers were then placed into a transpack with ice, chilled to approximately four degrees Celsius and transported to the Laboratory with the completed Chain-of-Custody forms. The samples were then relinquished to the laboratory sample custodian where the forms were signed, dated and timed.

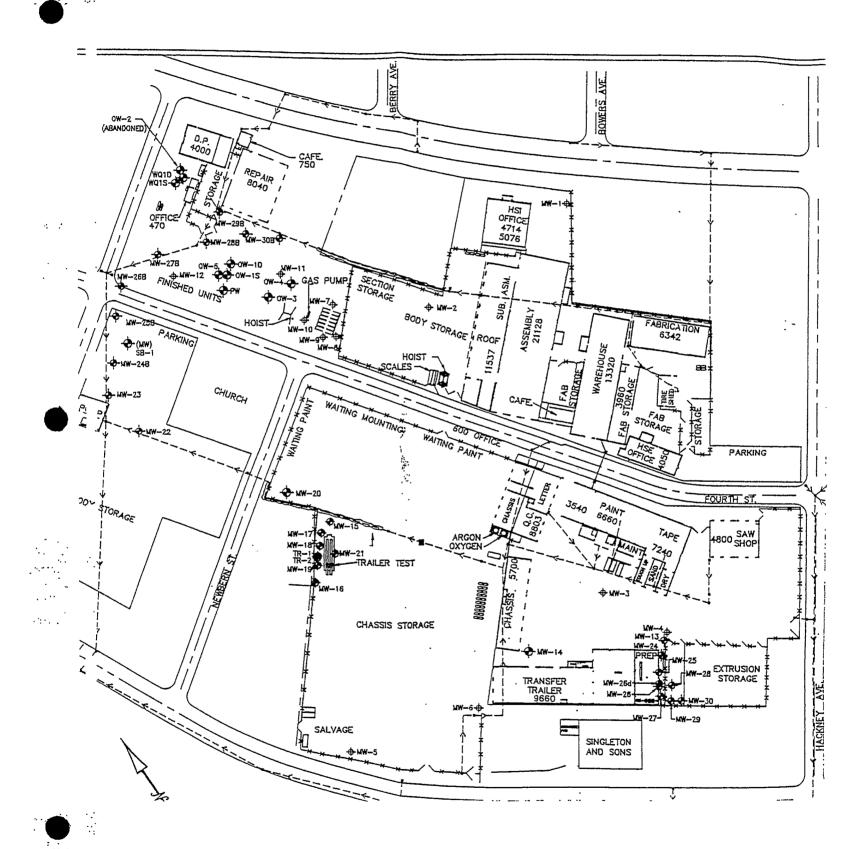
## Laboratory Analysis

The samples were submitted to AquaChem Environmental Laboratories, Inc. to be analyzed for EPA Method 8240 for Acetone, EPA method 624, EPA method 625, and EPA method 150.1 for pH.

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One sample was submitted and analyzed - as a Trip Blank. This sample was analyzed to evaluate field and laboratory quality assurance/quality control. These results are included in the Laboratory Report.

The Laboratory Results are included in this report, please find them attached.



## Hackney and Sons MONITORING WELL SPREADSHEET

SAMPLE ID	Date	рН	Water Level	Tetrachloroethene	Total Xylene	Toluene	Ethyl Benzene
MW29B	03/03/94	6.70 s.u.	4.99 ft.	BDL	BDL	BDL	BDL.
MW26D	03/03/94	8.84 s.u.	6.15 ft.	BDL	BDL	BDL	BDL
MW30	03/03/94	7.01 s.u.	5,97 ft.	BDL.	BDL	BDL	BDL
MW29	03/03/94	7.39 s.u.	6.21 ft.	BDL	BDL	BDL	BDL
MW28B	03/03/94	6.83 s.u.	4.12 ft.	BDL BDL	BDL	BDL	BDL
OW1D	03/03/94	6.71 s.u.	5.13 ft.	BDL	BDL	BDL	BDL
MW25	03/03/94	7,35 s.u.	6,09 ft,	BDL	BDL	BDL	BDL
OW1S	03/03/94	6.80 s.u.	4.90 ft	BDL.	BDL	BDL	BDL
MW26	03/03/94	7,89 s,u.	6.13 ft.	BDL	BDL	BDL	BDL
MW30B	03/03/94	6.46 s.u.	5.02 ft.	BDL	BDL	BDL	BDL
MW11	03/03/94	6.64 s.u.	6.12 ft.	BDL BDL	BDL	BDL	BDL
Trip Blank	03/03/94	6.98 s.u.	N/A	BDL	BDL	BDL	BDL

1/18/94



ENVIRONMENTAL LABORATORIES, INC.

11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

Date of Report:
Date Received:

03/24/94)

Approved By:

Tyler H. Garber Laboratory Director

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 186K01 SAMPLE ID: MW 25

		Det.			Ana	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal
pН	7.35	0-14	s.u.	EPA150.1	12:30	03/03/94	JCT
Benzene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
- Bromodichloromethane	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Bromoform	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Bromomethane	BDL	10 .	ppb	EPA 624	23:52	03/14/94	FDM
Carbon Tetrachloride	$\mathtt{BDL}$	5	ppb	EPA 624	23:52	03/14/94	FDM
Chlorobenzene	$\mathtt{BDL}$	5 ·	ppb	EPA 624	23:52	03/14/94	FDM
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	23:52	03/14/94	FDM
2-Chloroethylvinyl Eth	BDL	10	ppb	EPA 624	23:52	03/14/94	FDM
Chloroform	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	23:52	03/14/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	23:52	03/14/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	23:52	03/14/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	23:52	03/14/94	FDM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM

LAB ID: 186K01 SAMPLE ID: MW 25

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DEMILIE LD. IM. 20		Det.			Ana	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Methylene Chloride	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Toluene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Trichlorofluoromethane	BDL	10	ppb	EPA 624	23:52	03/14/94	FDM
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	23:52	03/14/94	FDM
Total Xylene	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	23:52	03/14/94	FDM
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	23:52	03/14/94	FDM
1,2-Dichloroethane-d4	78		% Rec	EPA 624	23:52	03/14/94	FDM
Toluene-d8	109		% Rec	EPA 624	23:52	03/14/94	FDM
4-Bromofluorobenzene	104		% Rec	EPA 624	23:52	03/14/94	FDM
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (b) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (g,h,i) Perylene	$\mathtt{BDL}$	10	PPB.	EPA 625	08:15	03/07/94	FDM
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethoxy) M	BDL	10 '	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethyl) Et	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Ethylhexyl) Pht	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Bromophenyl Phenyl E	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzyl Butyl Phthalate	BDL	10	PPB	EPA 625		03/07/94	FDM
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Chrysene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625		03/07/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625		03/07/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625		03/07/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625		03/07/94	FDM
3,3'-Dichlorobenzidine		10	PPB	EPA 625		03/07/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625		03/07/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625		03/07/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625		03/07/94	FDM

LAB ID: 186K01 SAMPLE ID: MW 25

Result Limit		•	Det.			Ana.	lysis	
2,6-Dinitrotoluene	Parameter	Result		Unit	Method			Anal.
Di-N-octylphthalate         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Fluoranthene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Fluorene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Hexachlorobutadiene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Hexachlorocethane         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Indental         10         PPB         EPA         625         08:15         03/07/94         FDM           Indental         10         PPB         EPA         625         08:15         03/07/94         FDM           Introphenzene	2,4-Dinitrotoluene	BDL	10 .	PPB	EPA 625	08:15	03/07/94	FDM
Fluoranthene	2,6-Dinitrotoluene	BDL	10 ·	PPB	EPA 625	08:15	03/07/94	FDM
Fluorene	Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobenzene	Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene	Fluorene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorocyclopentadi   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Exachlorocethane   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Indemo (1,2,3-cd)   PYP   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Isophorone   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Isophorone   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrobenzene   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenylamine   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrosociphenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10   PPB   EPA   625   08:15   03/07/94   FDM   Nitrophenol   BDL   10	Hexachlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane	Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Indeno (1,2,3-cd) Pyre   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Isophorone   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Naphthalene   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Nitrobenzene   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   N-Nitroso-Di-N-Propyla   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   N-Nitroso-Di-N-Propyla   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   PDM   P	Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Isophorone	Hexachloroethane	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Pyrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2,4-Trichlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA 625         08	Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pyrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2,4-Trichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodimethylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodimethylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dindirophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dindiroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 6	Isophorone	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2,4-Trichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2,4-Trichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2,4-Trichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Chloro-3-Methylpheno BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Chlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625	Naphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pyrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pyrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pyrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Benzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodimethylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodimethylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Chloro-3-Methylpheno BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine	Nitrobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Pyrene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,2,4-Trichlorobenzene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           4-Chloro-3-Methylpheno         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           2-Chlorophenol         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           2,4-Dichlorophenol         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           2,4-Dimethylphenol         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM	N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Pyrene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,2,4-Trichlorobenzene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           4-Chloro-3-Methylpheno         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           2-Chlorophenol         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           2,4-Dichlorophenol         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           2,4-Dimethylphenol         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM	N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2,4-Trichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Benzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Chloro-3-Methylpheno BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphen			10	PPB	EPA 625	08:15	03/07/94	FDM
Benzidine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodimethylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Chloro-3-Methylpheno         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2-Chlorophenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2,4-Dichlorophenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2,4-Dimethylphenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2,4-Dinitrophenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2-Methyl-4,6-Dinitroph         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Nitrophenol         BDL         10         PPB         EPA 625	Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodimethylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Chloro-3-Methylpheno BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Chlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-	1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodimethylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Chloro-3-Methylpheno BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Chlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 Rec EPA 625 08:15 03/07/94 FDM	Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chloro-3-Methylpheno BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Chlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1-	N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 % Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dimethylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 % Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 % Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 % Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Nitrophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Pentachlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 % Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-NitrophenolBDL10PPBEPA 62508:1503/07/94FDMPentachlorophenolBDL10PPBEPA 62508:1503/07/94FDMPhenolBDL10PPBEPA 62508:1503/07/94FDM2,4,6-TrichlorophenolBDL10PPBEPA 62508:1503/07/94FDM1,2-DiphenylhydrazineBDL10PPBEPA 62508:1503/07/94FDM4,6-Dinitro-o-cresolBDL10PPBEPA 62508:1503/07/94FDMP-chloro-m-cresolBDL10PPBEPA 62508:1503/07/94FDMTrans-1,3-dichloropropBDL10PPBEPA 62508:1503/07/94FDM4-MethylphenolBDL10PPBEPA 62508:1503/07/94FDMNitrobenzene-d878% RecEPA 62508:1503/07/94FDM2-Fluorobiphenyl102% RecEPA 62508:1503/07/94FDM	2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Pentachlorophenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2,4,6-Trichlorophenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4,6-Dinitro-o-cresol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           P-chloro-m-cresol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Trans-1,3-dichloroprop         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Methylphenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene-d8         78         % Rec         EPA 625         08:15         03/07/94         FDM           2-Fluorobiphenyl         102         % Rec         EPA 625         08:15         03/07/94	2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Pentachlorophenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2,4,6-Trichlorophenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Diphenylhydrazine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4,6-Dinitro-o-cresol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           P-chloro-m-cresol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Trans-1,3-dichloroprop         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Methylphenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene-d8         78         % Rec         EPA 625         08:15         03/07/94         FDM           2-Fluorobiphenyl         102         % Rec         EPA 625         08:15         03/07/94	4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4,6-Trichlorophenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Diphenylhydrazine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM P-chloro-m-cresol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Trans-1,3-dichloroprop BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Methylphenol BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene-d8 78 % Rec EPA 625 08:15 03/07/94 FDM 2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	Pentachlorophenol	BDL	10	PPB	EPA 625	08:15		FDM
1,2-Diphenylhydrazine       BDL       10       PPB       EPA 625       08:15       03/07/94       FDM         4,6-Dinitro-o-cresol       BDL       10       PPB       EPA 625       08:15       03/07/94       FDM         P-chloro-m-cresol       BDL       10       PPB       EPA 625       08:15       03/07/94       FDM         Trans-1,3-dichloroprop       BDL       10       PPB       EPA 625       08:15       03/07/94       FDM         4-Methylphenol       BDL       10       PPB       EPA 625       08:15       03/07/94       FDM         Nitrobenzene-d8       78       % Rec       EPA 625       08:15       03/07/94       FDM         2-Fluorobiphenyl       102       % Rec       EPA 625       08:15       03/07/94       FDM	Phenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4,6-Dinitro-o-cresolBDL10PPBEPA 62508:1503/07/94FDMP-chloro-m-cresolBDL10PPBEPA 62508:1503/07/94FDMTrans-1,3-dichloropropBDL10PPBEPA 62508:1503/07/94FDM4-MethylphenolBDL10PPBEPA 62508:1503/07/94FDMNitrobenzene-d878% RecEPA 62508:1503/07/94FDM2-Fluorobiphenyl102% RecEPA 62508:1503/07/94FDM	2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
P-chloro-m-cresol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Trans-1,3-dichloroprop         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Methylphenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene-d8         78         % Rec         EPA 625         08:15         03/07/94         FDM           2-Fluorobiphenyl         102         % Rec         EPA 625         08:15         03/07/94         FDM	1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
P-chloro-m-cresol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Trans-1,3-dichloroprop         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Methylphenol         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene-d8         78         % Rec         EPA 625         08:15         03/07/94         FDM           2-Fluorobiphenyl         102         % Rec         EPA 625         08:15         03/07/94         FDM	4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Trans-1,3-dichloroprop       BDL       10       PPB       EPA 625       08:15       03/07/94       FDM         4-Methylphenol       BDL       10       PPB       EPA 625       08:15       03/07/94       FDM         Nitrobenzene-d8       78       % Rec       EPA 625       08:15       03/07/94       FDM         2-Fluorobiphenyl       102       % Rec       EPA 625       08:15       03/07/94       FDM	P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15		FDM
Nitrobenzene-d8       78       % Rec       EPA 625       08:15       03/07/94       FDM         2-Fluorobiphenyl       102       % Rec       EPA 625       08:15       03/07/94       FDM	Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	4-Methylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Fluorobiphenyl 102 % Rec EPA 625 08:15 03/07/94 FDM	Nitrobenzene-d8	78		% Rec	EPA 625	08:15		FDM
	2-Fluorobiphenyl	102		% Rec	EPA 625	08:15		FDM
	p-Terphenyl-d14	91		% Rec	EPA 625	08:15		FDM

n Militeria, desergino e figuração of Militera, que casa o residencia a especión de la composiçõe de la compos

LAB ID: 186K01 SAMPLE ID: MW 25

SAMPLE ID: MW 25					_		
		Det.	_			Lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Phenol-d6	72		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorophenol	81		% Rec	EPA 625	08:15	03/07/94	FDM
2,4,6-Tribromophenol	121		% Rec	EPA 625	08:15	03/07/94	FDM
Acetone	BDL	5	dqq	EPA 8240	23:52	03/14/94	FDM
Water Level	6.09		FT		12:30	03/03/94	JCT
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LAB ID: 186K02							
SAMPLE ID: MW 26							
pH '	7.89	0-14	s.U.	EPA150.1	12:45	03/03/94	JCT
-	BDL			EPA 624	01:17		FDM
Benzene		5	ppb			03/15/94	
Bromodichloromethane	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
Bromoform	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	01:17	03/15/94	FDM
Carbon Tetrachloride	$\mathtt{BDL}$	5	ppb	EPA 624	01:17	03/15/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
Chloroethane	$\mathtt{BDL}$	10 ,	ppb	EPA 624	01:17	03/15/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	01:17	03/15/94	FDM
Chloroform	$\mathtt{BDL}$	5 ·	ppb	EPA 624	01:17	03/15/94	FDM
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	01:17	03/15/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	01:17	03/15/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	01:17	03/15/94	FDM
Trans-1,2-Dichloroethe		5	ppb	EPA 624	01:17	03/15/94	FDM
	BDL	5		EPA 624	01:17	03/15/94	FDM
1,2-Dichloropropane			ppb				
Cis-1,3-Dichloropropen		5	ppb	EPA 624	01:17	03/15/94	FDM
Trans-1,3-Dichloroprop		5	ppb	EPA 624	01:17	03/15/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	01:17	03/15/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
Toluene	$\mathtt{BDL}$	5	ppb	EPA 624	01:17	03/15/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	01:17	03/15/94	FDM
Trichlorofluoromethane	BDL	10	ppb	EPA 624	01:17	03/15/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	01:17	03/15/94	FDM
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LAB ID: 186K02 SAMPLE ID: MW 26

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DIMILIE ID: IIII 20							
		Det.			Ana.	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Total Xylene	$\mathtt{BDL}$	5 .	ppb	EPA 624	01:17	03/15/94	FDM
1,1,1,2-Tetrachloroeth	$\mathtt{BDL}$	5	ppb	EPA 624	01:17	03/15/94	FDM
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	01:17	03/15/94	FDM
1,2-Dichloroethane-d4	77		% Rec	EPA 624	01:17	03/15/94	FDM
Toluene-d8	107		% Rec	EPA 624	01:17	03/15/94	FDM
4-Bromofluorobenzene	105		% Rec	EPA 624	01:17	03/15/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (g,h,i) Perylene		10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (k) Fluoranthene		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:15	03/07/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	08:15	03/07/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Chrysene	BDL	10.	PPB	EPA 625	08:15	03/07/94	FDM
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
3,3'-Dichlorobenzidine		10	PPB	EPA 625	08:15	03/07/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluorene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorocyclopentadi		10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
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LAB ID: 186K02 SAMPLE ID: MW 26

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	Det.				Ana]			
Parameter	Result	Limit	Unit	Meth	.od	Time	Date	Anal.
Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Isophorone	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Naphthalene	BDL	10	PPB	EPA	625	08:15 ·	03/07/94	FDM
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	03/07/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Phenanthrene	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Pyrene	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Benzidine	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
N-Nitrosodimethylamine	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA	625	08:15	03/07/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
2,4-Dichlorophenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
2,4-Dinitrophenol	BDL	10 '	PPB	EPA	625	08:15	03/07/94	FDM
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
4-Nitrophenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Phenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
2,4,6-Trichlorophenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB		625	08:15	03/07/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
4-Methylphenol	BDL	10	PPB	EPA	625	08:15	03/07/94	FDM
Nitrobenzene-d8	84		% Rec	EPA	625	08:15	03/07/94	FDM
2-Fluorobiphenyl	94		% Rec	EPA	625	08:15	03/07/94	FDM
p-Terphenyl-d14	92		% Rec	EPA	625	08:15	03/07/94	FDM
Phenol-d6	70		% Rec	EPA	625	08:15	03/07/94	FDM
2-Fluorophenol	84	. •	% Rec	EPA	625	08:15	03/07/94	FDM
2,4,6-Tribromophenol	118		% Rec	EPA	625	08:15	03/07/94	FDM
Acetone	BDL	5	ppb	EPA	8240	01:17	03/15/94	FDM
Water Level	6.13	•	FT			12:45	03/03/94	JCT

LAB ID: 186K03 SAMPLE ID: MW 26D

LAB ID: 186K03 SAMPLE ID: MW 26D

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	Det.			Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
pH	8.84	0-14	s.u.	EPA150.1	13:00	03/03/94	JCT
Benzene	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	02:41 .	03/15/94	FDM
Bromoform	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	02:41	03/15/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	02:41	03/15/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	02:41	03/15/94	FDM
Chloroform	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	02:41	03/15/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	02:41	03/15/94	FDM
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	dqq	EPA 624	02:41	03/15/94	FDM
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	02:41	03/15/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
1,2-Dichloroethane	BDL	5 ·	ppb	EPA 624	02:41	03/15/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	02:41	03/15/94	FDM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Methylene Chloride	$\mathtt{BDL}$	5	ppb	EPA 624	02:41	03/15/94	FDM
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Toluene	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
1,1,2-Trichloroethane	BDL -	5	ppb	EPA 624	02:41	03/15/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Trichlorofluoromethane	BDL	10 .	ppb	EPA 624	02:41	03/15/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	02:41	03/15/94	FDM
Total Xylene	BDL	5 .	ppb .	EPA 624	02:41	03/15/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	02:41	03/15/94	FDM
Cis 1,2-dichloroethene	BDL	· 5	ppb	EPA 624	02:41	03/15/94	FDM
1,2-Dichloroethane-d4	79	_	% Rec	EPA 624	02:41	03/15/94	FDM
Toluene-d8	105	•	% Rec	EPA 624	02:41	03/15/94	FDM
4-Bromofluorobenzene	102		% Rec	EPA 624	02:41	03/15/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM

LAB ID: 186K03 SAMPLE ID: MW 26D

Parameter			Det.			Ana.		
Benzo (a) Anthracene   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM	Parameter	Result	Limit	Unit	Method	Time	Date	
Benzo (a) Pyrene   BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Benzo (b) Fluoranthene   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Benzo (g,h,i) Perylene   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Benzo (k) Fluoranthene   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Benzo (k) Fluoranthene   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Bis (2-Chloroethxy)   M BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Bis (2-Chlorosty)   M BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Bis (2-Chlorosty)   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Bis (2-Ethylhexyl)   Pht BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Bis (2-Ethylhexyl)   Pht BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Bis (2-Ethylhexyl)   Pht BDL   10   PPB   EPA 625   08:15   03/07/94   FDM   Benzyl   Butyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB   EPA 625   08:15   03/07/94   FDM   Heavyl   Phthalate   BBL   10   PPB	Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	
Benzo (b) Fluoranthene BDL 10	Benzo (a) Anthracene	BDL	10 .	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (g,h,i) Perylene BDL	Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15		
Benzo (k) Fluoranthene BDL	Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	
Bis (2-Chloroethoxy) M BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Bis (2-Chloroethyl) Et BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Bis (2-Chloroisopropyl BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Bis (2-Ethylhexyl) Pht         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Bromophenyl Phenyl EDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2-Chloronaphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Chlorophenyl Phenyl         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           10chrysene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,3-Dichlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,4-Dichlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94	Benzo (g,h,i) Perylene	BDL	10	PPB		08:15	03/07/94	
Bis (2-Chloroethyl) Et BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Bis (2-Chloroisopropyl) BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Bis (2-Ethylhexyl) Pht BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Bromophenyl Phenyl BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Benzyl Butyl Phthalate         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2-Chloronaphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Chlorophenyl Phenyl         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Chrysene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Chrysene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Dichlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM <td>Benzo (k) Fluoranthene</td> <td>BDL</td> <td>10</td> <td>PPB</td> <td>EPA 625</td> <td>08:15</td> <td></td> <td></td>	Benzo (k) Fluoranthene	BDL	10	PPB	EPA 625	08:15		
Bis (2-Chloroisopropyl BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           Bis (2-Ethylhexyl) Phenyl E BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           4-Bromophenyl Phenyl E BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           2-Chloronaphthalene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           4-Chlorophenyl Phenyl         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           6chrysene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,3-Dichlorobenzene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,3-Dichlorobenzene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM           1,3-Dichlorobenzene         BDL         10         PPB         EPA         625         08:15         03/07/94         FDM <t< td=""><td>Bis (2-Chloroethoxy) M</td><td>BDL</td><td>10</td><td>PPB</td><td>EPA 625</td><td>08:15</td><td>03/07/94</td><td>FDM</td></t<>	Bis (2-Chloroethoxy) M	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Ethylhexyl) Pht BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Bromophenyl Phenyl E BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Benzyl Butyl Phthalate         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           2-Chloronaphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           4-Chlorophenyl Phenyl         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Chrysene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Dibenzo (a,h) Anthrace         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,2-Dichlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           1,3-Oichlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           3,3'-Dichlorobenzene         BDL         10         PPB         EPA 625         08:15	Bis (2-Chloroethyl) Et	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
### A-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:15 03/07/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 6-Chrysene BDL 10 PPB EPA 625 08:15	Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:15 03/07/94 FDM Chrysene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,3-Dichlorobenzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrotoluene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrotoluene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,6-Dinitrotoluene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Di-N-Octylphthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Fluoranthene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Fluorene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:15 03/07/94 FDM Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 08:15 03/07/94 FDM Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 08:15 03/07/94 FDM Naphthalene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Naphthalene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Naphthalene BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA	Bis (2-Ethylhexyl) Pht	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chloronaphthalene	4-Bromophenyl Phenyl E	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
## Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:15 03/07/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,4-Dichlorobenzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,4-Dichlorobenzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,4-Dichlorobenzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 08:15 03/07/94 FDM 10 PPB EPA 625 0	Benzyl Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
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1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 3,3'-Dichlorobenzidine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Diethyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Dimethyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,4-Dinitrotoluene BDL 10 PPB EPA 625 08:15 03/07/94 FDM 2,6-Dinitrotoluene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Di-N-Octylphthalate BDL 10 PPB EPA 625 08:15 03/07/94 FDM Fluoranthene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Fluoranthene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobutadiene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:15 03/07/94 FDM Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 08:15 03/07/94 FDM Isophorone BDL 10 PPB EPA 625 08:15 03/07/94 FDM Isophorone BDL 10 PPB EPA 625 08:15 03/07/94 FDM Isophorone BDL 10 PPB EPA 625 08:15 03/07/94 FDM Naphthalene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene			10	PPB	EPA 625	08:15	03/07/94	FDM
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Di-N-Octylphthalate         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Fluoranthene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Fluorene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorobutadiene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Indentification         10         PPB         EPA 625         08:15	2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluoranthene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Fluorene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobutadiene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachloroethane BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachloroethane BDL 10 PPB EPA 625 08:15 03/07/94 FDM Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 08:15 03/07/94 FDM Isophorone BDL 10 PPB EPA 625 08:15 03/07/94 FDM Naphthalene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA	2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluorene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorobutadiene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:15 03/07/94 FDM Hexachloroethane BDL 10 PPB EPA 625 08:15 03/07/94 FDM Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 08:15 03/07/94 FDM Isophorone BDL 10 PPB EPA 625 08:15 03/07/94 FDM Naphthalene BDL 10 PPB EPA 625 08:15 03/07/94 FDM Nitrobenzene BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB EPA 625 08:15 03/07/94 FDM PPB PPB EPA 625 08:15 03/07/94 FDM PPB PPB PPB PPB PPB PPB PPB PPB PPB PP	Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorobutadiene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocethane         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Indeno (1,2,3-cd)         Pyre         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Isophorone         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 62	Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocthane         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Indeno (1,2,3-cd)         Pyre         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Isophorone         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM	Fluorene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Hexachlorocthane         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Indeno (1,2,3-cd)         Pyre         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Isophorone         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM	Hexachlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Indeno (1,2,3-cd) Pyre         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Isophorone         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM		BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Indeno (1,2,3-cd) Pyre         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Isophorone         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM	Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Isophorone         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM			10	PPB	EPA 625	08:15	03/07/94	FDM
Isophorone         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM	Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Naphthalene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Nitrobenzene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           N-Nitrosodiphenylamine         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM           Phenanthrene         BDL         10         PPB         EPA 625         08:15         03/07/94         FDM			10	PPB	EPA 625		03/07/94	FDM
N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 08:15 03/07/94 FDM N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM	Naphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine BDL 10 PPB EPA 625 08:15 03/07/94 FDM Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM	Nitrobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM	N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM			10	PPB	EPA 625	08:15	03/07/94	FDM
Pyrene BDL 10 PPB EPA 625 08:15 03/07/94 FDM						08:15		FDM
	Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	fDM

LAB ID: 186K03 SAMPLE ID: MW 26D

		Det.		Analysis				
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.	
1,2,4-Trichlorobenzene	BDL	10 .	PPB	EPA 625	08:15	03/07/94	FDM	
Benzidine	BDL	10 .	PPB	EPA 625	08:15	03/07/94	FDM	
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
2-Chlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
4-Nitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Pentachlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Phenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
4-Methylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Nitrobenzene-d8	79		% Rec	EPA 625	08:15	03/07/94	FDM	
2-Fluorobiphenyl	99		% Rec	EPA 625	08:15	03/07/94	FDM	
p-Terphenyl-d14	90		% Rec	EPA 625	08:15	03/07/94	FDM	
Phenol-d6	77		% Rec	EPA 625	08:15	03/07/94	FDM	
2-Fluorophenol	84		% Rec	EPA 625	08:15	03/07/94	FDM	
2,4,6-Tribromophenol	111		% Rec	EPA 625	08:15	03/07/94	FDM	
Acetone	BDL	5	ppb	EPA 8240	02:41	03/15/94	FDM	
Water Level	6.15		FΤ		13:00	03/03/94	JCT	
LAB ID: 186K04								
SAMPLE ID: MW 29				,				
рH	7.39	0-14	s.U.	EPA150.1	13:15	03/03/94	JCT	
Benzene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Bromodichloromethane	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Bromoform	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Bromomethane	BDL	10	ppb	EPA 624	04:05	03/15/94	FDM	
Carbon Tetrachloride	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Chlorobenzene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Chloroethane	BDL	10	ppb	EPA 624	04:05	03/15/94	FDM	
2-Chloroethylvinyl Eth	BDL	10	ppb	EPA 624	04:05	03/15/94	FDM	

LAB ID: 186K04 SAMPLE ID: MW 29

		Det.			Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.	
Chloroform	BDL	5 .	ppb	EPA 624	04:05	03/15/94	FDM	
Chloromethane	BDL	20	ppb	EPA 624	04:05	03/15/94	FDM	
Dibromochloromethane	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,1-Dichloroethane	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,2-Dichloroethane	BDL	5	ppb	EPA 624		03/15/94	FDM	
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	04:05	03/15/94	FDM	
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,2-Dichloropropane	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Ethyl Benzene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
Methylene Chloride	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,1,2,2-Tetrachlorotha	BDL	5 .	ppb	EPA 624	04:05	03/15/94	FDM	
Tetrachloroethene	BDL	5	ppb	EPA 624		03/15/94	FDM	
Toluene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	04:05	03/15/94	FDM	
Trichloroethene	$\mathtt{BDL}$	5 .	ppb	EPA 624	04:05	03/15/94	FDM	
Trichlorofluoromethane	BDL	10	ppb	EPA 624	04:05	03/15/94	FDM	
Vinyl Chloride	BDL	10	ppb	EPA 624	04:05	03/15/94	FDM	
Total Xylene	BDL	5	ppb	EPA 624	04:05	03/15/94	FDM	
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	04:05	03/15/94	FDM	
Cis 1,2-dichloroethene		5	ppb	EPA 624	04:05	03/15/94	FDM	
1,2-Dichloroethane-d4	82		% Rec	EPA 624	04:05	03/15/94	FDM	
Toluene-d8	101		% Rec	EPA 624	04:05	03/15/94	FDM	
4-Bromofluorobenzene	108 · -		% Rec	EPA 624	04:05	03/15/94	FDM	
Acenaphthene	BDL	10	PPB	EPA 625		03/07/94	FDM	
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (b) Fluoranthene		10	PPB .	EPA 625	08:15	03/07/94	FDM	
Benzo (g,h,i) Perylene		10	PPB	EPA 625		03/07/94	FDM	
Benzo (k) Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Bis (2-Chloroethoxy) M		10	PPB	EPA 625		03/07/94	FDM	
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	08:15	03/07/94	FDM	
Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	

LAB ID: 186K04 SAMPLE ID: MW 29

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		Det.			Ana.	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Bis (2-Ethylhexyl) Pht	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Bromophenyl Phenyl E	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Chrysene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluorene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorocyclopentadi		10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Indeno (1,2,3-cd) Pyre		10	PPB	EPA 625	08:15	03/07/94	FDM
Isophorone	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Naphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10	PPB .	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine	BDL	10	PPB··	EPA 625	08:15	03/07/94	FDM
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM

LAB ID: 186K04 SAMPLE ID: MW 29

SAMPLE ID. MW 29					3 3		
		Det.	·	35 - 44 - 3		lysis	3-0-7
Parameter		Limit	Unit	Method	Time	Date	Anal.
2-Methyl-4,6-Dinitroph		10 .	PPB	EPA 625	08:15	03/07/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Nitrophenol	BDL	10 -	PPB	EPA 625	08:15	03/07/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Methylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene-d8	72		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorobiphenyl	98		% Rec	EPA 625	08:15	03/07/94	FDM
p-Terphenyl-d14	94		% Rec	EPA 625	08:15	03/07/94	FDM
Phenol-d6	69		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorophenol	83		% Rec	EPA 625	08:15	03/07/94	FDM
2,4,6-Tribromophenol	109	•	% Rec	EPA 625	08:15	03/07/94	FDM
Acetone	BDL	5	ppb	EPA 8240	04:05	03/15/94	FDM
Water Level	6.21	_	FT		13:15	03/03/94	JCT
Trace Devel	0.21					,, -	
LAB ID: 186K05							
SAMPLE ID: MW 30							
pH	7.01	0-14	s.U.	EPA150.1	13:40	03/03/94	JCT
Benzene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Bromoform	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	05:28	03/15/94	FDM
Carbon Tetrachloride	BDL	5		EPA 624	05:28	03/15/94	FDM
Chlorobenzene		5	ppb	EPA 624	05:28	03/15/94	FDM
	BDL		ppb		05:28		FDM
Chloroethane	BDL	10	ppb	EPA 624		03/15/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	05:28	03/15/94	
Chloroform	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	05:28	03/15/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
1,1-Dichloroethane	$\mathtt{BDL}$	5 .	ppb	EPA 624	05:28	03/15/94	FDM
1,2-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	05:28	03/15/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	05:28	03/15/94	FDM

LAB ID: 186K05 SAMPLE ID: MW 30

		Det.		Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	05:28	03/15/94	FDM
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Trans-1,3-Dichloroprop	$\mathtt{BDL}$	5	ppb	EPA 624	05:28	03/15/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Methylene Chloride	$\mathtt{BDL}$	5	ppb	EPA 624	05:28	03/15/94	FDM
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Toluene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	05:28	03/15/94	FDM
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	05:28	03/15/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Trichlorofluoromethane	BDL	10	dqq	EPA 624	05:28	03/15/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	05:28	03/15/94	FDM
Total Xylene	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	05:28	03/15/94	FDM
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	05:28	03/15/94	FDM
1,2-Dichloroethane-d4	77		% Rec	EPA 624	05:28	03/15/94	FDM
Toluene-d8	104		% Rec	EPA 624	05:28	03/15/94	FDM
4-Bromofluorobenzene	108		% Rec	EPA 624	05:28	03/15/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (g,h,i) Perylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethoxy) M	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:15	03/07/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	08:15	03/07/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Chrysene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM

LAB ID: 186K05 SAMPLE ID: MW 30

SAMPLE ID: MW 30							
		Det.				Lysis	_
Parameter	Result		Unit	Method	Time	Date	Anal.
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
3,3'-Dichlorobenzidine	BDL	10 .	PPB	EPA 625	08:15	03/07/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Dimethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluorene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Naphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Nitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM

LAB ID: 186K05 SAMPLE ID: MW 30

		Det.			Ana]	Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.		
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM		
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM		
Nitrobenzene-d8	85		% Rec	EPA 625	08:15	03/07/94	FDM		
2-Fluorobiphenyl	103		% Rec	EPA 625	08:15	03/07/94	FDM		
p-Terphenyl-d14	94		% Rec	EPA 625	08:15	03/07/94	FDM		
Phenol-d6	74		% Rec	EPA 625	08:15	03/07/94	FDM		
2-Fluorophenol	77		% Rec	EPA 625	08:15	03/07/94	FDM		
2,4,6-Tribromophenol	119		% Rec	EPA 625	08:15	03/07/94	FDM		
Acetone	$\mathtt{BDL}$	5	ppb	EPA 8240	05:28	03/15/94	FDM		
Water Level	5.97		FΤ		13:40	03/03/94	JCT		
LAB ID: 186K06									
SAMPLE ID: MW 11									
рН	6.64	0-14	s.u.	EPA150.1	14:05	03/03/94	JCT		
Benzene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Bromodichloromethane	BDL	5 ,	ppb	EPA 624	06:51	03/15/94	FDM		
Bromoform	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Bromomethane	BDL	10	ppb	EPA 624	06:51	03/15/94	FDM		
Carbon Tetrachloride	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Chlorobenzene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Chloroethane	BDL	10	ppb	EPA 624	06:51	03/15/94	FDM		
2-Chloroethylvinyl Eth	BDL	10	ppb	EPA 624	06:51	03/15/94	FDM		
Chloroform	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Chloromethane	BDL	20	ppb	EPA 624	06:51	03/15/94	FDM		
Dibromochloromethane	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,1-Dichloroethane	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,2-Dichloroethane	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,1-Dichloroethene	BDL	10	ppb	EPA 624	06:51	03/15/94	FDM		
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,2-Dichloropropane	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA 624	06:51	03/15/94	FDM		
Trans-1,3-Dichloroprop		5	ppb	EPA 624	06:51	03/15/94	FDM		
Ethyl Benzene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Methylene Chloride	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	06:51	03/15/94	FDM		
Tetrachloroethene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		
Toluene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM		

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LAB ID: 186K06 SAMPLE ID: MW 11

		Det.	•		Ana.		
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	06:51	03/15/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM
Trichlorofluoromethane	$\mathtt{BDL}$	10	ppb	EPA 624	06:51	03/15/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	06:51	03/15/94	FDM
Total Xylene	$\mathtt{BDL}$	5	ppb	EPA 624	06:51	03/15/94	FDM
1,1,1,2-Tetrachloroeth	$\mathtt{BDL}$	5	ppb	EPA 624	06:51	03/15/94	FDM
Cis 1,2-dichloroethene	BDL	5	ppb	EPA 624	06:51	03/15/94	FDM
1,2-Dichloroethane-d4	77		% Rec	EPA 624	06:51	03/15/94	FDM
Toluene-d8	99		% Rec	EPA 624	06:51	03/15/94	FDM
4-Bromofluorobenzene	107		% Rec	EPA 624	06:51	03/15/94	FDM
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (b) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (g,h,i) Perylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (k) Fluoranthene		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethyl) Et	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:15	03/07/94	FDM
4-Bromophenyl Phenyl E	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzyl Butyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chlorophenyl Phenyl	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Chrysene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Dibenzo (a,h) Anthrace	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Diethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM

LAB ID: 186K06 SAMPLE ID: MW 11

		Det.			Ana]	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Fluorene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Isophorone	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Methylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene-d8	77		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorobiphenyl	103		% Rec	EPA 625	08:15	03/07/94	FDM
p-Terphenyl-d14	92		% Rec	EPA 625	08:15	03/07/94	FDM
Phenol-d6	74		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorophenol	80		% Rec	EPA 625	08:15	03/07/94	FDM
2,4,6-Tribromophenol	117		% Rec	EPA 625	08:15	03/07/94	FDM
Acetone	BDL	5	ppb	EPA 8240	06:51	03/15/94	FDM

LAB ID: 186K06 SAMPLE ID: MW 11

Parameter   Result Limit   Unit   Method   Time   Date   Anal.   Water Level   6.12   FT   Water   Lat.   Date   Anal.   Water Level   Color   Date			Det.			Ana	alysis	
Name	Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
### BANGER ID: MW 28B pH 6.83 0-14 5.U. EPA150.1 14:22 03/03/94 JCT Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Bromodichloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Bromoform BDL 5 ppb EPA 624 08:14 03/15/94 FDM Bromomethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Bromomethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Carbon Tetrachloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloroethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Chloroethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM 2-Chloroethylvinyl Eth BDL 10 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropan BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropan BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethan		6.12		${ t FT}$		14:05	03/03/94	JCT
### SAMPLE ID: MW 28B pH 6.83 0-14 5.U. EPA150.1 14:22 03/03/94 JCT Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Bromodichloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Bromoform BDL 5 ppb EPA 624 08:14 03/15/94 FDM Bromomethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Bromomethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Carbon Tetrachloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloroethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Chloroethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM 2-Chloroethylvinyl Eth BDL 10 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorobenzene BDL 5 ppb EP								
pH         6.83         0-14         S.U.         EPA150.1         14:22         03/03/94         JCT           Benzene         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Bromodichloromethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Bromomethane         BDL         10         ppb         EPA 624         08:14         03/15/94         FDM           Carbon Tetrachloride         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Chloroethane         BDL         10         ppb         EPA 624         08:14         03/15/94         FDM           Chloroethylvinyl Eth         BDL         10         ppb         EPA 624         08:14         03/15/94         FDM           Chloromethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Chloromethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           1,3-Dichlorobenzene         BDL         5         ppb         EPA 624         08:14         03/15/94 <td>LAB ID: 186K07</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	LAB ID: 186K07							
Benzene   BDL   5	SAMPLE ID: MW 28B							
Bromodichloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Bromoform   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM   Bromomethane   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM   Carbon Tetrachloride   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloroenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloroethane   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM   Chloroethane   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM   Chloroform   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   p	pН	6.83	0-14	s.u.	EPA150.1	14:22	03/03/94	
Bromoform   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Carbon Tetrachloride   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Carbon Tetrachloride   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloroethane   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM   Chloroethylvinyl   Eth   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM   Chloroform   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Chloromethane   B	Benzene		5	ppb	EPA 624	08:14		FDM
Bromomethane   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM Carbon Tetrachloride   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chloroethane   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM Chloroethylvinyl   Eth   BDL   10   ppb   EPA 624   08:14   03/15/94   FDM Chloroform   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM Chlorobenzene	Bromodichloromethane			ppb		08:14	03/15/94	
Carbon Tetrachloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chlorocethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM 2-Chlorocthylvinyl Eth BDL 10 ppb EPA 624 08:14 03/15/94 FDM 2-Chlorocthylvinyl Eth BDL 10 ppb EPA 624 08:14 03/15/94 FDM Chloroform BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Dibromochloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,4-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorocthene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trachlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichlorocthane BDL 5 ppb EPA 624 08:14 03/15/94 FD	Bromoform	$\mathtt{BDL}$	5	ppb	EPA 624	08:14	03/15/94	FDM
Chlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloroethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Chloroethylvinyl Eth BDL 10 ppb EPA 624 08:14 03/15/94 FDM Chloroform BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Dibromochloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14	Bromomethane	BDL	10	ppb	EPA 624	08:14	03/15/94	FDM
Chloroethane	Carbon Tetrachloride	BDL	5	ppb	EPA 624	08:14	03/15/94	FDM
2-Chloroethylvinyl Eth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloroform BDL 5 ppb EPA 624 08:14 03/15/94 FDM Dibromochloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,4-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tertachloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tertachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachlo	Chlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	08:14	03/15/94	FDM
2-Chloroethylvinyl Eth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Chloroform BDL 5 ppb EPA 624 08:14 03/15/94 FDM Dibromochloromethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,4-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tertachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tertachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethan	Chloroethane	BDL	10	ppb	EPA 624	08:14	03/15/94	FDM
Chloromethane BDL 20 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,4-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,4-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis-1,3-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloropropa BDL 5 ppb EPA 624 08:14 03/15/94 FDM Ethyl Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorothane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Toluene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloro	2-Chloroethylvinyl Eth	BDL	10		EPA 624	08:14	03/15/94	FDM
Chloromethane   BDL   20   ppb   EPA 624   08:14   03/15/94   FDM   Dibromochloromethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,2-Dichlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,3-Dichlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,4-Dichlorobenzene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1-Dichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,2-Dichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1-Dichloroethene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,2-Dichloroethene   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,2-Dichloropropane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,2-Dichloropropane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,2-Dichloropropane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,3-Dichloropropane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1,2-Dichloropropane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1,2-Tetrachlorotha   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1,2-Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1,2-Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1,2-Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1,2-Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   1,1,2-Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5   ppb   EPA 624   08:14   03/15/94   FDM   Trichloroethane   BDL   5	Chloroform	$\mathtt{BDL}$	5	dqq	EPA 624	08:14	03/15/94	FDM
Dibromochloromethane	Chloromethane	$\mathtt{BDL}$	20		EPA 624	08:14	03/15/94	FDM
1,2-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethene BDL 10 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,3-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2	Dibromochloromethane	BDL	5		EPA 624	08:14	03/15/94	FDM
1,3-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,4-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorothane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachlo	1,2-Dichlorobenzene	BDL	5		EPA 624	08:14		FDM
1,4-Dichlorobenzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethene BDL 10 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis-1,3-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloroptopane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Ethyl Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Ethyl Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Methylene Chloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Toluene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14		$\mathtt{BDL}$	5		EPA 624	08:14		FDM
1,1-Dichloroethane		BDL			EPA 624	08:14		FDM
1,2-Dichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1-Dichloroethene BDL 10 ppb EPA 624 08:14 03/15/94 FDM Trans-1,2-Dichloroethe BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis-1,3-Dichloropropen BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloroprope BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloroprop BDL 5 ppb EPA 624 08:14 03/15/94 FDM Ethyl Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Methylene Chloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Toluene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichlorofluoromethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA		BDL			EPA 624	08:14	03/15/94	FDM
1,1-Dichloroethene BDL 10 ppb EPA 624 08:14 03/15/94 FDM Trans-1,2-Dichloroethe BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,2-Dichloropropane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis-1,3-Dichloropropen BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloroprope BDL 5 ppb EPA 624 08:14 03/15/94 FDM Ethyl Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Methylene Chloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Toluene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroide BDL 10 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dic		BDL			EPA 624	08:14	03/15/94	FDM
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Cis-1,3-Dichloropropen BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trans-1,3-Dichloroprop BDL 5 ppb EPA 624 08:14 03/15/94 FDM Ethyl Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Methylene Chloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Toluene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichlorofluoromethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Vinyl Chloride BDL 10 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dic			5		EPA 624	08:14	03/15/94	FDM
Trans-1,3-Dichloroprop         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Ethyl Benzene         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Methylene Chloride         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           1,1,2,2-Tetrachlorotha         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Tetrachloroethene         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Toluene         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           1,1,1-Trichloroethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           1,1,2-Trichloroethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Trichloroethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Trichloroethene         BDL         10         ppb         EPA 624         08:14	Cis-1,3-Dichloropropen	BDL	5		EPA 624	08:14	03/15/94	FDM
Ethyl Benzene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Methylene Chloride BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 08:14 03/15/94 FDM Tetrachloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Toluene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichlorofluoromethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Vinyl Chloride BDL 10 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15/94 FDM EPA 624 08:14 03/15			5		EPA 624	08:14	03/15/94	FDM
Methylene Chloride         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           1,1,2,2-Tetrachlorotha         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Tetrachloroethene         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Toluene         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           1,1,1-Trichloroethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           1,1,2-Trichloroethane         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Trichloroethene         BDL         5         ppb         EPA 624         08:14         03/15/94         FDM           Trichlorofluoromethane         BDL         10         ppb         EPA 624         08:14         03/15/94         FDM           Vinyl Chloride         BDL         10         ppb         EPA 624         08:14         03/15/94         FDM           Total Xylene         BDL         5         ppb         EPA 624         08:14					EPA 624	08:14	03/15/94	FDM
1,1,2,2-Tetrachlorotha       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         Tetrachloroethene       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         Toluene       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         1,1,1-Trichloroethane       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         1,1,2-Trichloroethane       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         Trichloroethene       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         Trichlorofluoromethane       BDL       10       ppb       EPA 624       08:14       03/15/94       FDM         Vinyl Chloride       BDL       10       ppb       EPA 624       08:14       03/15/94       FDM         Total Xylene       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         1,1,2-Tetrachloroeth       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         Cis 1,2-dichloroethene       BDL       5 <t< td=""><td>Methylene Chloride</td><td>BDL</td><td></td><td></td><td>EPA 624</td><td>08:14</td><td>03/15/94</td><td>FDM</td></t<>	Methylene Chloride	BDL			EPA 624	08:14	03/15/94	FDM
Tetrachloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA 624 08:14 03/15/94 FDM Ppb EPA	1,1,2,2-Tetrachlorotha	BDL	5		EPA 624	08:14	03/15/94	FDM
Toluene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Trichloroethane BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichlorofluoromethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Vinyl Chloride BDL 10 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM					EPA 624	08:14	03/15/94	FDM
1,1,1-TrichloroethaneBDL5ppbEPA 624 08:14 03/15/94 FDM1,1,2-TrichloroethaneBDL5ppbEPA 624 08:14 03/15/94 FDMTrichloroetheneBDL5ppbEPA 624 08:14 03/15/94 FDMTrichlorofluoromethaneBDL10ppbEPA 624 08:14 03/15/94 FDMVinyl ChlorideBDL10ppbEPA 624 08:14 03/15/94 FDMTotal XyleneBDL5ppbEPA 624 08:14 03/15/94 FDM1,1,1,2-TetrachloroethBDL5ppbEPA 624 08:14 03/15/94 FDMCis 1,2-dichloroetheneBDL5ppbEPA 624 08:14 03/15/94 FDM	Toluene	BDL			EPA 624	08:14		FDM
1,1,2-Trichloroethane       BDL       5       ppb       EPA 624 08:14 03/15/94 FDM         Trichloroethene       BDL       5       ppb       EPA 624 08:14 03/15/94 FDM         Trichlorofluoromethane       BDL       10       ppb       EPA 624 08:14 03/15/94 FDM         Vinyl Chloride       BDL       10       ppb       EPA 624 08:14 03/15/94 FDM         Total Xylene       BDL       5       ppb       EPA 624 08:14 03/15/94 FDM         1,1,1,2-Tetrachloroeth       BDL       5       ppb       EPA 624 08:14 03/15/94 FDM         Cis 1,2-dichloroethene       BDL       5       ppb       EPA 624 08:14 03/15/94 FDM	1,1,1-Trichloroethane	BDL			EPA 624	08:14	03/15/94	FDM
Trichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM Trichlorofluoromethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Vinyl Chloride BDL 10 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM		BDL	5		EPA 624	08:14	03/15/94	FDM
Trichlorofluoromethane BDL 10 ppb EPA 624 08:14 03/15/94 FDM Vinyl Chloride BDL 10 ppb EPA 624 08:14 03/15/94 FDM Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM	Trichloroethene	BDL			EPA 624			FDM
Vinyl Chloride       BDL       10       ppb       EPA 624       08:14       03/15/94       FDM         Total Xylene       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         1,1,1,2-Tetrachloroeth       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM         Cis 1,2-dichloroethene       BDL       5       ppb       EPA 624       08:14       03/15/94       FDM	Trichlorofluoromethane	BDL			EPA 624	08:14		FDM
Total Xylene BDL 5 ppb EPA 624 08:14 03/15/94 FDM 1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM			10			08:14	03/15/94	FDM
1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 08:14 03/15/94 FDM Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM								FDM
Cis 1,2-dichloroethene BDL 5 ppb EPA 624 08:14 03/15/94 FDM		BDL					• •	FDM
•								FDM
1,2-Dichloroethane-d4 /6 % Rec EPA 624 08:14 03/15/94 FDM	1,2-Dichloroethane-d4	76		% Rec	EPA 624	08:14	03/15/94	FDM

LAB ID: 186K07 SAMPLE ID: MW 28B

		Det.			Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.	
Toluene-d8	101 .		% Rec	EPA 624	08:14	03/15/94	FDM	
4-Bromofluorobenzene	105		% Rec	EPA 624	08:14	03/15/94	FDM	
Acenaphthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Acenaphthylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (g,h,i) Perylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
Bis (2-Chloroethyl) Et	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM	
Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:15	03/07/94	FDM	
4-Bromophenyl Phenyl E		10	PPB	EPA 625	08:15	03/07/94	FDM	
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:15	03/07/94	FDM	
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Chrysene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	08:15	03/07/94	FDM	
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
3,3'-Dichlorobenzidine		10	PPB	EPA 625	08:15	03/07/94	FDM	
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Fluorene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Hexachlorocyclopentadi		10	PPB	EPA 625	08:15	03/07/94	FDM	
Hexachloroethane	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Indeno (1,2,3-cd) Pyre		10	PPB	EPA 625	08:15	03/07/94	FDM	
Isophorone	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Naphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
Nitrobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM	
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LAB ID: 186K07 SAMPLE ID: MW 28B

		Det.					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Nitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4,6-Dinitro-o-cresol	BDL	10 .	PPB	EPA 625	08:15	03/07/94	FDM
P-chloro-m-cresol	BDL ·	10	PPB	EPA 625	08:15	03/07/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Methylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene-d8	78		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorobiphenyl	92		% Rec	EPA 625	08:15	03/07/94	FDM
p-Terphenyl-d14	104		% Rec	EPA 625	08:15	03/07/94	FDM
Phenol-d6	72		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorophenol	78 -		% Rec	EPA 625	08:15	03/07/94	FDM
2,4,6-Tribromophenol	124		% Rec	EPA 625	08:15	03/07/94	FDM
Acetone	BDL	5	ppb	EPA 8240	08:14	03/15/94	FDM
Water Level	4.12		FΤ		14:22	03/03/94	JCT
LAB ID: 186K08 SAMPLE ID: MW 29B							
Hq	6.70	0-14	S.U.	EPA150.1	14:34	03/03/94	JCT
Benzene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Bromoform	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	18:37	03/15/94	FDM

LAB ID: 186K08 SAMPLE ID: MW 29B

SAMPLE ID: MW 295							
_		Det.	• •			lysis	_
Parameter	Result		Unit	Method	Time	Date	Anal.
Carbon Tetrachloride	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Chlorobenzene	BDL	5 ·	ppb	EPA 624	18:37	03/15/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	18:37	03/15/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	18:37	03/15/94	FDM
Chloroform	$\mathtt{BDL}$	5	ppb	EPA 624	18:37	03/15/94	FDM
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	18:37	03/15/94	FDM
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	18:37	03/15/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	18:37	03/15/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	18:37	03/15/94	FDM
Trans-1,2-Dichloroethe	$\mathtt{BDL}$	5	ppb	EPA 624	18:37	03/15/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA 624	18:37	03/15/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Toluene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
Trichlorofluoromethane		10	ppb	EPA 624	18:37	03/15/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	18:37	03/15/94	FDM
Total Xylene	BDL	5	ppb	EPA 624	18:37	03/15/94	FDM
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	18:37	03/15/94	FDM
Cis 1,2-dichloroethene		5	ppb	EPA 624	18:37	03/15/94	FDM
1,2-Dichloroethane-d4	79		% Rec	EPA 624	18:37	03/15/94	FDM
Toluene-d8	102		% Rec	EPA 624	18:37	03/15/94	FDM
4-Bromofluorobenzene	108		% Rec	EPA 624	18:37	03/15/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (b) Fluoranthene		10	PPB	EPA 625	08:15	03/07/94	FDM
Benzo (g,h,i) Perylene		10	PPB	EPA 625	08:15	03/07/94	FDM
pengo (A'n'r) reratene	תעני	T-0	PPD	EFA 643	00:TO	03/0//94	r Dri

LAB ID: 186K08 SAMPLE ID: MW 29B

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		Det.					
Parameter	Result	Limit	Unit	Method	Time	lysis Date	Anal.
Benzo (k) Fluoranthene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethoxy) M	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroethyl) Et	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Bis (2-Ethylhexyl) Pht	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Bromophenyl Phenyl E	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Benzyl Butyl Phthalate	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Chrysene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Diethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Dimethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Fluorene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachlorocyclopentadi	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
Isophorone	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Naphthalene .	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodiphenylamine		10	PPB	EPA 625	08:15	03/07/94	FDM
Phenanthrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2,4-Trichlorobenzene		10	PPB	EPA 625	08:15	03/07/94	FDM
Benzidine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
N-Nitrosodimethylamine		10	PPB	EPA 625	08:15	03/07/94	FDM
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM

diskute usuk pak salah sa karangan katangan kan bana bana ban

LAB ID: 186K08 SAMPLE ID: MW 29B

SAMPLE ID: MW 29B							
		Det.			Ana]	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	03/07/94	FDM
4-Nitrophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Trans-1,3-dichloroprop		10	PPB	EPA 625	08:15	03/07/94	FDM
4-Methylphenol	BDL	10	PPB	EPA 625	08:15	03/07/94	FDM
Nitrobenzene-d8	84		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorobiphenyl	104	•	% Rec	EPA 625	08:15	03/07/94	FDM
p-Terphenyl-d14	108		% Rec	EPA 625	08:15	03/07/94	FDM
Phenol-d6	69		% Rec	EPA 625	08:15	03/07/94	FDM
2-Fluorophenol	78		% Rec	EPA 625	08:15	03/07/94	FDM
2,4,6-Tribromophenol	121		% Rec	EPA 625	08:15	03/07/94	FDM
Acetone	BDL	5	ppb	EPA 8240	18:37	03/15/94	FDM
Water Level	4.99		FT		14:34	03/03/94	JCT
	1.00				_ 1101	00/00/01	001
LAB ID: 186K09							
SAMPLE ID: MW 30B				-			
pH	6.46	0-14	s.U.	EPA150.1	14.45	03/03/94	JCT
Benzene	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Bromoform	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	20:10	03/15/94	FDM
Carbon Tetrachloride	BDL	5	dqq	EPA 624	20:10	03/15/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	20:10	03/15/94	FDM
2-Chloroethylvinyl Eth		10		EPA 624	20:10		FDM
Chloroform	BDL	5	ppb	EPA 624 EPA 624	20:10	03/15/94 03/15/94	FDM
Chloromethane	BDL	20	ppb	EPA 624 EPA 624		• •	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,2-Dichlorobenzene	BDL		ppb			03/15/94	
1,3-Dichlorobenzene	BDL	5 5	ppb	EPA 624	20:10	03/15/94	FDM
T, 3-Dichitor Openzene	התם	5	ppb	EPA 624	20:10	03/15/94	FDM

LAB ID: 186K09 SAMPLE ID: MW 30B

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		Det.		Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	20:10	03/15/94	FDM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Toluene	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	20:10	03/15/94	FDM
Trichlorofluoromethane	$\mathtt{BDL}$	10	ppb	EPA 624	20:10	03/15/94	FDM
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	20:10	03/15/94	FDM
Total Xylene	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	20:10	03/15/94	FDM
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5 .	ppb	EPA 624	20:10	03/15/94	FDM
1,2-Dichloroethane-d4	81		% Rec	EPA 624	20:10	03/15/94	FDM
Toluene-d8	105		% Rec	EPA 624	20:10	03/15/94	FDM
4-Bromofluorobenzene	109		% Rec	EPA 624	20:10	03/15/94	FDM
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (b) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (g,h,i) Perylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Chloroethoxy) M	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Chloroethyl) Et	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:45	03/08/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	08:45	03/08/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:45	03/08/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM

LAB ID: 186K09 SAMPLE ID: MW 30B

		Det.	•	Analysis			
Parameter	Result	Limit	<b>'Unit</b>	Method	Time	Date	Anal.
Chrysene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Fluorene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Indeno (1,2,3-cd) Pyre	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Isophorone	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitrosodiphenylamine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Phenanthrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM

LAB ID: 186K09 SAMPLE ID: MW 30B

SAMPLE ID. IN SOD		·					
		Det.				Lysis	
Parameter	Result		Unit	Method	Time	Date	Anal.
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Nitrobenzene-d8	81		% Rec	EPA 625	08:45	03/08/94	FDM
2-Fluorobiphenyl	101		% Rec	EPA 625	08:45	03/08/94	FDM
p-Terphenyl-d14	101		% Rec	EPA 625	08:45	03/08/94	FDM
Phenol-d6	74		% Rec	EPA 625	08:45	03/08/94	FDM
2-Fluorophenol	77		% Rec	EPA 625	08:45	03/08/94	FDM
2,4,6-Tribromophenol	117		% Rec	EPA 625	08:45	03/08/94	FDM
Acetone	BDL	5	ppb	EPA 8240	20:10	03/15/94	FDM
Water Level	5.02		ĒΤ		14:45	03/03/94	JCT
						, ,	
LAB ID: 186K10							
SAMPLE ID: OW 1D		•					
рН	6.71	0-14	S.U.	EPA150.1	14:15	03/03/94	JCT
Benzene	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
Bromoform	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	21:39	03/15/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	21:39	03/15/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	21:39	03/15/94	FDM
Chloroform	BDL	5		EPA 624	21:39	03/15/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	21:39		FDM
Dibromochloromethane	BDL		ppb			03/15/94	FDM
		5	ppb	EPA 624	21:39	03/15/94	
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
1,1-Dichloroethane	BDL	5	ppp	EPA 624	21:39	03/15/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	21:39	03/15/94	FDM
Trans-1,2-Dichloroethe		5	ppb	EPA 624	21:39	03/15/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM
Cis-1,3-Dichloropropen		5	ppb	EPA 624	21:39	03/15/94	FDM
Trans-1,3-Dichloroprop		5	ppb	EPA 624	21:39	03/15/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	21:39	03/15/94	FDM

LAB ID: 186K10 SAMPLE ID: OW 1D

		Det.		Analysis				
Parameter	Result	Limit	Unit	Meth	od	Time	Date	Anal.
Methylene Chloride	$\mathtt{BDL}$	5 .	ppb	EPA	624	21:39	03/15/94	FDM
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
Toluene	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
Trichloroethene	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
Trichlorofluoromethane	BDL	10	ppb	EPA	624	21:39	03/15/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA	624	21:39	03/15/94	FDM
Total Xylene	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5 .	ppb	EPA	624	21:39	03/15/94	FDM
Cis 1,2-dichloroethene	BDL	5	ppb	EPA	624	21:39	03/15/94	FDM
1,2-Dichloroethane-d4	80		% Rec	EPA	624	21:39	03/15/94	FDM
Toluene-d8	101		% Rec	EPA	624	21:39	03/15/94	FDM
4-Bromofluorobenzene	107		% Rec	EPA	624	21:39	03/15/94	FDM
Acenaphthene	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
Anthracene	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
Benzo (b) Fluoranthene	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
Benzo (g,h,i) Perylene	BDL	10 .	PPB	EPA	625	08:45	03/08/94	FDM
Benzo (k) Fluoranthene		10	PPB	EPA	625	08:45	03/08/94	FDM
Bis (2-Chloroethoxy) M	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA	625	08:45	03/08/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA	625	08:45	03/08/94	FDM
Bis (2-Ethylhexyl) Pht	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
4-Bromophenyl Phenyl E	BDL	10	PPB .	EPA	625	08:45	03/08/94	FDM
Benzyl Butyl Phthalate	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA	625	08:45	03/08/94	FDM
Chrysene	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
Dibenzo (a,h) Anthrace	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
1,3-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
1,4-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA		08:45	03/08/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA		08:45	03/08/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA		08:45	03/08/94	FDM
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA	625	08:45	03/08/94	FDM

LAB ID: 186K10 SAMPLE ID: OW 1D

		Det.					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Fluorene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Isophorone	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitrosodiphenylamine		10	PPB	EPA 625	08:45	03/08/94	FDM
Phenanthrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzidine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Chloro-3-Methylpheno		10	PPB	EPA 625	08:45	03/08/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Methylphenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Nitrobenzene-d8	80		% Rec	EPA 625	08:45	03/08/94	FDM
2-Fluorobiphenyl	99		% Rec	EPA 625	08:45	03/08/94	FDM
p-Terphenyl-d14	102		% Rec	EPA 625	08:45	03/08/94	FDM
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LAB ID: 186K10 SAMPLE ID: OW 1D

		Det.					
Parameter	Result	Limit	Unit	Method	Time	lysis Date	Anal.
Phenol-d6	74		% Rec	EPA 625	08:45	03/08/94	FDM
2-Fluorophenol	82		% Rec	EPA 625	08:45	03/08/94	FDM
2,4,6-Tribromophenol	109		% Rec	EPA 625	08:45	03/08/94	FDM
Acetone	BDL	5	ppb	EPA 8240	21:39	03/15/94	FDM
Water Level	5.13		FT		14:15	03/03/94	JCT
LAB ID: 186K11							
SAMPLE ID: OW 1S							
рН	6.80	0-14	s.u.	EPA150.1	14:25	03/03/94	JCT
Benzene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Bromoform	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Bromomethane	BDL	10	ppb	EPA 624	23:10	03/15/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	23:10	03/15/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	23:10	03/15/94	FDM
Chloroform	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	23:10	03/15/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	23:10	03/15/94	FDM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Trans-1,3-Dichloroprop		5	ppb	EPA 624	23:10	03/15/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,1,2,2-Tetrachlorotha	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Toluene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Trichlorofluoromethane		10	ppb	EPA 624	23:10	03/15/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	23:10	03/15/94	FDM
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LAB ID: 186K11 SAMPLE ID: OW 1S

		Det.		Analysis			
Parameter	Result	Limit -	Unit	Method	Time	Date	Anal.
Total Xylene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
Cis 1,2-dichloroethene	BDL	5	ppb	EPA 624	23:10	03/15/94	FDM
1,2-Dichloroethane-d4	80		% Rec	EPA 624	23:10	03/15/94	FDM
Toluene-d8	100		% Rec	EPA 624	23:10	03/15/94	FDM
4-Bromofluorobenzene	107		% Rec	EPA 624	23:10	03/15/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (b) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (g,h,i) Perylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Chloroethoxy) M	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:45	03/08/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:45	03/08/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	08:45	03/08/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:45	03/08/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Chrysene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,3-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
3,3'-Dichlorobenzidine		10	PPB	EPA 625	08:45	03/08/94	FDM
Diethyl Phthalate	BDL	10 -	PPB	EPA 625	08:45	03/08/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Fluorene	BDL	10 .	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachlorocyclopentadi		10	PPB	EPA 625	08:45	03/08/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Hexacnioroethane	RDL	TO	PPB	EPA 625	08:45	03/08/94	FDM

LAB ID: 186K11 SAMPLE ID: OW 1S

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		Det.		Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Isophorone	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Naphthalene	BDL	10	PPB	EPA 625	08:45.	03/08/94	FDM
Nitrobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitrosodiphenylamine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Phenanthrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Pyrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4-Dinitrophenol	BDL	10 ·	PPB	EPA 625	08:45	03/08/94	FDM
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Phenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
4-Methylphenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM
Nitrobenzene-d8	82		% Rec	EPA 625	08:45	03/08/94	FDM
2-Fluorobiphenyl	104		% Rec	EPA 625	08:45	03/08/94	FDM
p-Terphenyl-d14	104		% Rec	EPA 625	08:45	03/08/94	FDM
Phenol-d6	82		% Rec	EPA 625	08:45	03/08/94	FDM
2-Fluorophenol	80		% Rec	EPA 625	08:45	03/08/94	FDM
2,4,6-Tribromophenol	104		% Rec	EPA 625	08:45	03/08/94	FDM
Acetone	BDL	5 .	ppb	EPA 8240	23:10	03/15/94	FDM
Water Level	4.90		FT		14:25	03/03/94	JCT

LAB ID: 186K12

SAMPLE ID: TRIP BLANK

LAB ID: 186K12

SAMPLE ID: TRIP BLANK

Parameter         Result Limit         Unit         Method         Time         Date         Anal.           Benzene         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Bromodichloromethane         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Bromoform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Bromomethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chlorobenzene         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chloroethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM			Det.		Analysis					
Bromodichloromethane         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Bromoform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Bromomethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Carbon Tetrachloride         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chlorobenzene         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chloroethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroethylvinyl         Eth         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM	Parameter	Result	Limit	Unit	Method			Anal.		
Bromoform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Bromomethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Carbon Tetrachloride         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chlorobenzene         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chloroethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM			5	ppb	EPA 624		03/16/94	FDM		
Bromomethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Carbon Tetrachloride         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chlorobenzene         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chloroethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           2-Chloroethylvinyl         Eth         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM	Bromodichloromethane		5	ppb	EPA 624	00:25	03/16/94	FDM		
Carbon Tetrachloride         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chlorobenzene         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chloroethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           2-Chloroethylvinyl         Eth         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM	Bromoform	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
Chlorobenzene         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM           Chloroethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           2-Chloroethylvinyl         Eth         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM		BDL	10	dqq		00:25	03/16/94	FDM		
Chloroethane         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           2-Chloroethylvinyl         Eth         BDL         10         ppb         EPA 624         00:25         03/16/94         FDM           Chloroform         BDL         5         ppb         EPA 624         00:25         03/16/94         FDM	Carbon Tetrachloride	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
2-Chloroethylvinyl Eth BDL 10 ppb EPA 624 00:25 03/16/94 FDM Chloroform BDL 5 ppb EPA 624 00:25 03/16/94 FDM		BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
Chloroform BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Chloroethane	BDL	10		EPA 624	00:25	03/16/94	FDM		
Chloroform BDL 5 ppb EPA 624 00:25 03/16/94 FDM		BDL	10	ppb	EPA 624	00:25	03/16/94	FDM		
Objective DDI 00 mmb DD3 004 00-05 00/00/04 DD35	Chloroform	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
Chioromethane BDL 20 ppp EPA 624 00:25 03/16/94 FDM	Chloromethane	BDL	20	ppb	EPA 624	00:25	03/16/94	FDM		
Dibromochloromethane BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Dibromochloromethane	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
1,2-Dichlorobenzene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,2-Dichlorobenzene	BDL		ppb	EPA 624	00:25	03/16/94	FDM		
1,3-Dichlorobenzene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
1,4-Dichlorobenzene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
1,1-Dichloroethane BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,1-Dichloroethane	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
1,2-Dichloroethane BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,2-Dichloroethane	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
1,1-Dichloroethene BDL 10 . ppb EPA 624 00:25 03/16/94 FDM	1,1-Dichloroethene	BDL	10 .	ppb	EPA 624	00:25	03/16/94	FDM		
Trans-1,2-Dichloroethe BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Trans-1,2-Dichloroethe	BDL	5 .		EPA 624	00:25	03/16/94	FDM		
1,2-Dichloropropane BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,2-Dichloropropane	BDL	5	. ppp	EPA 624	00:25	03/16/94	FDM		
Cis-1,3-Dichloropropen BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Cis-1,3-Dichloropropen	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
Trans-1,3-Dichloroprop BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
Ethyl Benzene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Ethyl Benzene	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
Methylene Chloride BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Methylene Chloride	BDL	5		EPA 624	00:25	03/16/94	FDM		
1,1,2,2-Tetrachlorotha BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,1,2,2-Tetrachlorotha	BDL		ppb	EPA 624	00:25	03/16/94	FDM		
Tetrachloroethene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Tetrachloroethene		5	ppb	EPA 624	00:25	03/16/94	FDM		
Toluene BDL 5 .ppb EPA 624 00:25 03/16/94 FDM	Toluene	$\mathtt{BDL}$	5	.ppb	EPA 624	00:25	03/16/94	FDM		
1,1,1-Trichloroethane BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
1,1,2-Trichloroethane BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	00:25	03/16/94	FDM		
Trichloroethene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	00:25	03/16/94	FDM		
Trichlorofluoromethane BDL 10 ppb EPA 624 00:25 03/16/94 FDM	Trichlorofluoromethane	BDL	10	ppb	EPA 624	00:25	03/16/94	FDM		
Vinyl Chloride BDL 10 ppb EPA 624 00:25 03/16/94 FDM	Vinyl Chloride	BDL	10	ppb	EPA 624	00:25	03/16/94	FDM		
Total Xylene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Total Xylene	BDL	5		EPA 624	00:25	03/16/94	FDM		
1,1,1,2-Tetrachloroeth BDL 5 ppb EPA 624 00:25 03/16/94 FDM	1,1,1,2-Tetrachloroeth	BDL	5 ·	ppb	EPA 624	00:25	03/16/94	FDM		
Cis 1,2-dichloroethene BDL 5 ppb EPA 624 00:25 03/16/94 FDM	Cis 1,2-dichloroethene	BDL	5	ppb	EPA 624	00:25	03/16/94	FDM		
1,2-Dichloroethane-d4 84 % Rec EPA 624 00:25 03/16/94 FDM	1,2-Dichloroethane-d4	84			EPA 624	00:25	03/16/94	FDM		
Toluene-d8 100 % Rec EPA 624 00:25 03/16/94 FDM	Toluene-d8	100		% Rec	EPA 624	00:25	03/16/94	FDM		
4-Bromofluorobenzene 102 % Rec EPA 624 00:25 03/16/94 FDM	4-Bromofluorobenzene	102		% Rec	EPA 624	00:25	03/16/94	FDM		
Acenaphthene BDL 10 PPB EPA 625 08:45 03/08/94 FDM	Acenaphthene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Acenaphthylene BDL 10 PPB EPA 625 08:45 03/08/94 FDM	Acenaphthylene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Anthracene BDL 10 PPB EPA 625 08:45 03/08/94 FDM	Anthracene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		

LAB ID: 186K12

SAMPLE ID: TRIP BLANK

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SAMPLE ID: TRIP BLANK									
		Det.		Analysis					
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.		
Benzo (a) Anthracene	$\mathtt{BDL}$	10 .	PPB	EPA 625	08:45	03/08/94	FDM		
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Benzo (b) Fluoranthene		10	PPB	EPA 625	08:45	03/08/94	FDM		
Benzo (g,h,i) Perylene		10	PPB	EPA 625	08:45	03/08/94	FDM		
Benzo (k) Fluoranthene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	08:45	03/08/94	FDM		
Bis (2-Chloroethyl) Et	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Bis (2-Chloroisopropyl	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Bis (2-Ethylhexyl) Pht	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
4-Bromophenyl Phenyl E	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Benzyl Butyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Chrysene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
1,2-Dichlorobenzene	BDL	10 .	PPB	EPA 625	08:45	03/08/94	FDM		
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Dimethyl Phthalate	BDL	10 .	PPB	EPA 625	08:45	03/08/94	FDM		
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Fluoranthene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Fluorene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Hexachlorocyclopentadi		10	PPB	EPA 625	08:45	03/08/94	FDM		
Hexachloroethane	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Indeno (1,2,3-cd) Pyre		10	PPB	EPA 625	08:45	03/08/94	FDM		
Isophorone	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Naphthalene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Nitrobenzene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
N-Nitroso-Di-N-Propyla		10	PPB	EPA 625	08:45	03/08/94	FDM		
N-Nitrosodiphenylamine		10	PPB	EPA 625	08:45	03/08/94	FDM		
Phenanthrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
Pyrene	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM		
1,2,4-Trichlorobenzene		10	PPB	EPA 625	08:45	03/08/94	FDM		
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### LAB ID: 186K12 SAMPLE ID: TRIP BLANK

		Det.	·	Analysis							
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.				
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM				
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10 ·	·PPB	EPA 625	08:45	03/08/94	FDM				
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM				
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
2-Chlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
2,4-Dichlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM				
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM				
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM				
2-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
4-Nitrophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
Pentachlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
Phenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10 .	PPB	EPA 625	08:45	03/08/94	FDM				
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	03/08/94	FDM				
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
4-Methylphenol	BDL	10	PPB	EPA 625	08:45	03/08/94	FDM				
Nitrobenzene-d8	77		% Rec	EPA 625	08:45	03/08/94	FDM				
2-Fluorobiphenyl	101		% Rec	EPA 625	08:45	03/08/94	FDM				
p-Terphenyl-d14	105	•	% Rec	EPA 625	08:45	03/08/94	FDM				
Phenol-d6	94		% Rec	EPA 625	08:45	03/08/94	FDM				
2-Fluorophenol	85		% Rec	EPA 625	08:45	03/08/94	FDM				
2,4,6-Tribromophenol	104		% Rec	EPA 625	08:45	03/08/94	FDM				
Acetone	BDL	5	ppb	EPA 8240	00:25	03/16/94	FDM				

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By relinquishing this sa This agreement is gove	mple(s) to La	aboratory Personnel, I terms and conditions	warrant that I am authorized to on the reverse side hereol. An	enter into alysis char	this agre ges shall	eemen I be as	t for the	e Clier ed in 1	he Laborato	ries le	e sche	dule ir	ellect	at the tin	πe of the analysis.	e terms and con	ditions on the	reverse hereof.
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Sample ID	14/9	Date & Time Sampled	S Lab ID	- [ ] [	/	* 8				11	' /*/		[5] E	<u>#</u>  #	Other	Analysis		Preservative
MW25	X	3/3/94	X 186K1												624			HCL
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	x	3399	1186K1		K													IC
mwa4	X	313194	1186K2			$\prod$									424			HCL
7110014	<u>                                 </u>	3/3/24	1/86/2												425			Ice
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PINEVILLE,		- NO 11 NA 0		X 704/588-2454																	
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Contact Person																					
Sampled By:		_																		□ Yes □ I	
By relinquishing this san This agreement is gover	nple(s) to L ned by the	aboratory Personnel, Iv	varrant	t that I am authorized to e everse side hereof. Anal	enter int ysis cha	o this ag arges sh	greem all be	ent fo as in	or the Iclude	Cliented in the	t name ne Labo	d abi	ove a ries fe	nd th	at I a hedul	utho le in	rize ti ellec	ne bel t at th	low analysis subject t ne time of the analysis	o the terms and condit	tions on the reverse hereof.
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Sample ID	PASTIC S. S.  Date & Time Sampled	COMPOSITE	Lab ID	Boo	8 8 1 E	Ammonia	Cyange Cyange	Pheno	Arsenic Selenium	Chromium	Copper	Nickel	Zing	Mercury	Barker	TCLP (Complete)	1PH (5030)	[]	les received on i	ce? Yes ☑ No ☐	
mw29	У	33194 1315	χ	18684															(p)	24	HCL
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ENVIRON	MENTAL LABORATORIES, INC.	

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11176 DOW PINEVILLE	NS ROAD NC 28134	ORATORIES, INC.	FAX	588-5076 704/588-2454										Ρŀ	ากทอ	Mai	mher: /				
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Address:																					
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Contact Person																	me:				
Sampled By:	ガッ	MCCORK	c/e	<del></del> .										Rı	ush	Cha	rges A	uthorized (	⊃ Yes □	∃ No	
By relinquishing this sa This agreement is gove	rned by the ti	erms and conditions	enthe rev	rerse side hereof. Ar	nalysis ch	narges s	hall be	as ir	rclude	in the	Labora	tories	lee so	hedul	e in e	ffect a	t the time	of the analysis.			
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Sample ID	-111	Sampled	<u> </u>	Lab ID		11	Ц	1	/_		H		11	11	<u>    2</u>	17	75	Other	Analysis		Preservative
mw2813	у	3) अवप 1422	K	186K7	7	<u> </u>  .	Ш											6.24			ALL
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ENVIRONMENTAL LABORATORIES, INC. 11176 DOWNS ROAD PINEVILLE, NC 28134	704/588-5076 FAX 704/588-2454			Phone Number: ()	
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Contact Person					
Sampled By: Tim Milark				Rush Charges Authorized	
By relinquishing this sample(s) to Laboratory-Personnel, This agreement is governed by the terms and conditions	I warrant that I am authorized to en on-the reverse side hereof. Analys	nter into this agreement for the sis charges shall be as includ			_
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Sample iD Sampled	A Lab ID	BOD COD 7.5.S. PH Ammonia OF & Gease Cyamode Phenod	Assenie Gedmum Chromium Copper Lead Nicei	Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample: 170 Sample	s received on ice? Yes No 🗆
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1 313/PY 0800	X 186K12				I(e
Autosampler Sampler Location	<u> </u>	<u></u>	Field pH	Diago sign and ret	urn the white and yellow copies
Date Installed Time Installe	d Flow	CF/GPD	Result		un the write and yellow copies
Date Picked Up Time Picked		<del></del>	Analyst	to the Laboratory.	
Composite Type: ☐ Flow ☐ Time ☐	Hand		Time/Date (QA/QC Separate)		

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GROUNDWATER QUALITY MONITO COMPLIANCE REPORT FORM	RING: For additional forms please write or call:	DIVISION OF ENVIRO	NMENTAL MANAGEMENT - GROUNDWAT - P.O. BOX 29535 RALEIGH: NC 27626-0535 (919) 733:3221	ER SECTION
Well Location Wood Hackwood W.C. 27889  Well Location Wood Hackwood Wood Well Identification Number	CountyBeauSrT	NPDES TYPE OF DISPO: (REQUIRED)	Piping (LPF Land Application of Sludge Other Rotary Distributor Triserbise L	e Low-Pressure P)
Field Analysis: pH 7.33 Specific Conductance Date Sample Collected /2/30/93 Date La Laboratory Name / Guá hom Fay Togrendal SAMPLES FOR METALS WERE COLLECTED UNFILT	b Sample Analyzed See affatched , Luc ERED AND FIELD ACIDIFIED	Steets Steets Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Steet Stee		
COD	Nitrite (NO ₂ ) as N Nitrate (NO ₃ ) as N Phosphorus: Total as P Al - Aluminum Ba - Barium Ca - Calcium Cd - Cadmium Chromium: Total Cu - Copper Fe - Iron Hg - Mercury K - Potassium Mg - Magnesium Mn - Manganese Na - Sodium  MAR 2 6	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Ni - Nickel	mg/l mg/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l colories ag/
I CERTIFY THAT THIS REPORT IS TRUE AND	ACCURATE. D. E.	W.	alues should reflect dissolved a	

<u> 1/1819년</u> Date

Signature of Permittee (or Authorized Agent*)
GW-59 REV. 6/93

C.C. Macon
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GW-59 REV. 6x93

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See back for instructions.

** Submit blue, green, and yellow copies only to address above.

GROUNDWATER QUALITY MON COMPLIANCE REPORT FORM	For Additional Jorms please write or call:		NMENTAL MANAGEMENT : GROUNDWATERS P.O. BOX 29535 RALEIGH, NC 27626-0535 (919) 733-3221	ECTION
	nt pen and press firmly.	PERMIT NUMBE	R: (REQUIRED)	
Facility Name Hackney & Sons		Non-Disc	R: (REQUIRED) chargeWQOO7970	
Address PO Box 880		NPDES		
Washington W.C. 27889	County_BeauSorT		SAL OPERATION BEING MONITORED	1
Well Location 400 Huckney 6 Well Identification Number Mw-26	<i>4/</i> 2.	(REQUIRED)	Lagoon Septic Tank/Drain	ı Field
Well Diameter 4 Sample (Screened) Interv	Well DepthFt.	<u> </u>	Spray Field Subsurface Low-l	Pressure
Depth to Water Level 6.69 ft. below measuring	al Ft. 10 Ft.	_	Piping (LPP)	
Measuring point is $Q^{\circ}$ ft above land suri	ig point (before sampling)	-	Land Application of Sludge	
Measuring point isft. above land sur Gallons of water pumped/bailed before sampling _	× .		Rotary Distributor Injection Well	j
Field Analysis: pH 5.99 Specific Conducta	unceuMhos Temp. OC	Odor Stale L Ar	ppearance Cleus	
Date Sample Collected 12/30/93 D	ate Lab Sample Analyzed See Otto told	Choose All	pearance <u>crear</u>	
Laboratory Name Hava Chem Fru: Tower	are Lau Sample Allalyzed Scc Silvitores	Codification No.	<b>プ</b> かご	
SAMPLES FOR METALS WERE COLLECTED U	MEIL TEDED AND EIEL D'ACIDIEIED	Certification No	202	
THE PERSON OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	MINICIENED AND FIELD ACIDIFIED	NC		
COD	Oml Nitrate (NO ₃ ) as N	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Pb - Lead	mg/l mg/l ug/l ug/l ug/l
Hardness: Totalr	ng/l Hg - Mercury	mg/l	Concentration units) SW-846 Method 8240 Gr Aceton	ير ug/l
Phenol r Sulfate r	ng/l K - Potassium	mg/l	EPA Method 624 for Whatile Organi EPA Method 625 for Semi Idatile Organi	ics mall
Sulfater	ng/l Mg - Magnesium	mg/l	EPA Mothod 625 For Semi solatile Oho	Mis Mal
Specific ConductanceuM	hos Mn - Manganese	mg/l		
Total Ammonia r	ng/l Na - Sodium	mg/l		<del></del>
	gg/l			
CERTIFY THAT THIS REPORT IS TRUE  Signature of Permittee (or Authorized Ager  GW-59 REV. 6/93	1/18/94 t*) Date	C * See ba	alues should reflect dissolved and olloidal concentrations. (see #3 on ack for Instructions. t blue, green, and yellow copies only to address	· 1
GW-59 HEV. 6/93 (1707)				

GROUNDWATER QUALITY MONITOR COMPLIANCE REPORT FORM	ING: For additional forms please write or call:		NMENTAL MANAGEMENT « GROUNDW P.O. BOX 29535 RALEIGH, NG 27626-0535 (919) 733-3221	ATER SECTION
Type or Use a ball-point pen Facility Name Hackney 3 Sons Address D Box 880 Well Location W.C. 27889 Well Identification Number MW-260 Well Diameter Z Sample (Screened) Interval Depth to Water Level 6.66 It. below measuring point Measuring point is	Vell Depth 40 Ft.  Ft. To Ft. (before sampling)  UMhos Temp. OC Sample Analyzed Sec attatched	PERMIT NUMBER Non-Disc NPDES TYPE OF DISPOS (REQUIRED)  Odor Stuht Ap Seets Certification No	Piping ( Land Application of Sludge  Nother  Rotary Distributor  Piping (  This chie	ace Low-Pressure LPP)
COD	Nitrite (NO ₂ ) as N Nitrate (NO ₃ ) as N Phosphorus: Total as P Al - Aluminum Ba - Barium Ca - Calcium Cd - Cadmium Chromium: Total Cu - Copper Fe - Iron Hg - Mercury K - Potassium Mg - Magnesium Mn - Manganese Na - Sodium	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Ni - Nickel Pb - Lead Zn - Zinc Pesticides/Herbicides (Specify Compounds)  Other (Specify Compounds and Concentration units) SW-846 Method 8240 for EPA Method 624 for what'le	mg/lug/lug/lug/lug/lug/l
Signature of Permittee (or Authorized Agent*) GW-59 REV. 6/93  Chock March 1-21-96	ACCURATE.  1/17/94  Date	* See ba	alues should reflect dissolve olloidal concentrations. (see ck for Instructions. blue, green, and yellow copies only to	#3 on back)

GROUNDWATER QUALITY MONITORING COMPLIANCE REPORT FORM	G: For additional forms please write or call:	NVISION OF ENVIRON	IMENTAL MANAGEMENT & GRO P.O. BOX 29535 RALEIGH, NC 27626-0535 (919) 733-3221	UNDWATER SECTION
Type or Use a ball-point pen and Facility Name Hackney 3 Sons  Address Day 880  Well Location WC, 27889 Count Well Location Number MW-29 Well Well Diameter Z Sample (Screened) Interval Depth to Water Level 6.80 ft. below measuring point (bef Measuring point is ft. above land surface Gallons of water pumped/bailed before sampling Field Analysis: pH 6.55 Specific Conductance Date Sample Collected 12/30/93 Date Lab San Laboratory Name 12/30/93 Date Lab San SAMPLES FOR METALS WERE COLLECTED UNFILTERED	DepthFtFt. ToFt. ore sampling)	NPDES _ TYPE OF DISPOS (REQUIRED) — —	Spray Field  Land Application of Sludge  Rotary Distributor	Septic Tank/Drain Field Subsurface Low-Pressure
Coliform: MF Fecal	itrite (NO ₂ ) as N itrate (NO ₃ ) as N hosphorus: Total as P I - Aluminum a - Barium d - Cadmium hromium: Total u - Copper e - Iron g - Mercury Potassium g - Magnesium n - Manganese a - Sodium	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Ni - NickelPb - LeadZn - ZincPesticides/Herbicides (Specify Compounds)  Other (Specify Compounds Concentration units) SW-846 Method 824 For United Method 625 For Semi	
Signature of Permittee (or Authorized Agent*)  GW-59 REV. 6/93 Chock Manual 1-21-24	OURATE.  1/18/94  Date	* See ba	alues should reflect disc olloidal concentrations. ok for instructions. blue, green, and yellow copies	(see #3 on back)

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GROUNDWATER QUALITY MONITORING:  COMPLIANCE REPORT FORM  For additional forms please write or calls	DIVISION OF ENVIRONMENTAL MANAGEMENT & GROUNDWATER SECTION P.O. BOX 29535  RALEIGH, NC 27626-0535 (919):733-3221
Type or Use a ball-point pen and press firmly.  Facility Name	YESNO
COD	mg/l Pesticides/Herbicides mg/l (Specify Compounds) mg/l ug/l mg/l ug/l mg/l Other (Specify Compounds and ug/l mg/l Concentration units) ug/l mg/l SW-846 Method 8240 for Acetory ug/l mg/l EPA Method 624 for What le Organis ag/l mg/l EPA Method 625 for Semindatile Organis ag/l
Signature of Permittee (or Authorized Agent*)  GW-59 REV. 6/93  Charle Mass  1-21-9 &	Note: Values should reflect dissolved and colloidal concentrations. (see #3 on back)  * See back for instructions. ** Submit blue, green, and yellow copies only to address above.

GROUNDWATER QUALITY MONITORING COMPLIANCE REPORT FORM	NG: For additional forms please write or call:	DIVISION OF ENVIRO	NMENTAL MANAGEMENT : GROUNDWATER SECTIO P.O. BOX 29535 RALEIGH, NC 27626-0535	V
Type or Use a ball-point pen an	untyBeno-Soft  Ill Depth/Y Ft Ft. To Ft.  efore sampling)  uMhos Temp OC ample Analyzed See a Harched	NPDES TYPE OF DISPO (REQUIRED)  Odor Stickt Ar Steets Certification No.	SAL OPERATION BEING MONITORED  Lagoon Septic Tank/Drain Field  Subsurface Low-Pressure Piping (LPP)  Land Application of Sludge  Rotary Distributor Talechin Left  Depearance Clear	3
Collorm: MF Fecal /100ml Coliform: MF Total /100ml (Note: Use MPN method for highly turbid samples) Dissolved Solids: Total mg/l pH (when analyzed) units TOC mg/l Chloride mg/l Arsenic mg/l Grease and Oils mg/l Hardness: Total mg/l Phenol mg/l Sulfate mg/l Specific Conductance uMhos	Nitrite (NO ₂ ) as N	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Ni - Nickel m Pb - Lead m Zn - Zinc m Pesticides/Herbicides (Specify Compounds)  U Other (Specify Compounds and u Concentration units) SW-846 Method 8240 for Accharg u EPA Method 625 for Semi Idah'le Organis EPA Method 625 for Semi Idah'le Organis	g/l g/l g/l g/l g/l g/l
Signature of Permittee (or Authorized Agent*) GW-59 REV. 6/93  Signature of Permittee (or Authorized Agent*)	1/18/GY Date	* See ba	Values should reflect dissolved and colloidal concentrations. (see #3 on back ack for instructions.  It blue, green, and yellow copies only to address abov	

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GROUNDWATER QUALITY MONIT COMPLIANCE REPORT FORM	For additional forms please write or call:		ONMENTAL MANAGEMENT & GROUNDWATER SECTION P.O. BOX 28535 RALEIGH: NC 27626-0535 (919) 733-3221
Type or Use a ball-point	•	PERMIT NUMBE	ER: (REQUIRED) scharge <u>WQCOO797O</u>
Facility Name Hackney & Sons		Non-Dis	scharge <u>WQOOO 74 7O</u>
Address PO Box 880		NPDES	S
Washington W.C. 27889	_ CountySeauSoTV	(REQUIRED)	DOAL OF ENATION BEING MONITORED
Well Location 400 Hisckaty Au.			Lagoon Septic Tank/Drain Field
Well Identification Number Mu-286	Well Depth/ZFt.		Spray Field Subsurface Low-Pressure
Well Diameter Sample (Screened) Interval _	Ft. ToFt.	-	Piping (LPP)
Well Diameter 4 Sample (Screened) Interval Depth to Water Level 4.68 ft. below measuring p	oint (before sampling)	-	Land Application of Studge, Other
Measuring point isft. above land surface Gallons of water pumped/bailed before sampling	9	1	Rotary Distributor Tailerhan ( )
Gallons of water pumped/bailed before sampling		L	
Field Analysis: pH 5.78 Specific Conductance Date Sample Collected 12/30/93 Date Laboratory Name 1604 Chem Fourtoneeds	uMhos Temp.	Odor Stickt A	ppearance <u>Cleur</u>
		steets "	
Laboratory Name Agua Chem Environmenta	1 , Luc .	$_$ Certification No. $_$	<u> </u>
SAMPLES FOR METALS WERE COLLECTED UNFI	LI ERED AND FIELD ACIDIFIED	YESN	· ·
COD	I Nitrate (NO ₃ ) as N	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Ni - Nickel mg Pb - Lead mg Zn - Zinc mg Pesticides/Herbicides (Specify Compounds)  ug,  Ug,  Other (Specify Compounds and ug,  Concentration units)  SU-846 Method 8240 for Acetora ug,  EPA Method 624 for What'le Organics and  EPA Method 625 for Semi Jolatile Organics
FKN as N mg/	iva - Souluiii	mg/i	
KN as Nmg/			
CERTIFY THAT/THIS REPORT IS TRUE AN	ID ACCURATE.	* See b	Values should reflect dissolved and colloidal concentrations. (see #3 on back) pack for Instructions. and yellow copies only to address above.
W-59 REV. 6/93 Photh Mars	Dato		, w, ,

GROUNDWATER QUALITY MONITO	For additional forms	DIVISION OF ENVIRO	NMENTAL MANAGEMENT - GROUNDWATER P.O. BOX 29535 RALEIGH, NC 27626-0535	SECTION
COMPLIANCE REPORT FORM	please write or call:		(919) 733-3221	
Type or Use a ball-point pe	en and press firmly.	PERMIT NUMBE	R: (REQUIRED) charge	
Addrage PO Box 880		NPDES	charge	·
Wishington W.C. 27889	County Ranges	TYPE OF DISPO	SAL OPERATION BEING MONITORED	
Well Location 400 Hackas AVI	- Oddity - ZZCSZ 127	(REQUIRED)	Lamana Caulta TauluD	
Well Identification Number MW-29 b	Well Depth /Z 5 Ft	-	Lagoon Septic Tank/Dr	rain Field
Well Diameter Sample (Screened) Interval	Ft. To Ft.	-	Spray Field Subsurface Lo	w-Pressure
Depth to Water Level 5.62 ft. below measuring poi	int (before sampling)	_	Piping (LPP) Land Application of Sludge,	
Depth to Water Level <u>6.6.2</u> ft. below measuring pol Measuring point is <u>0</u> "ft. above land surface Gallons of water pumped/bailed before sampling	₩ 3,		'X Other	. 1
Gallons of water pumped/bailed before sampling	<u>8</u>	_	- Rotary Distributor Injection Wel	
Field Analysis: pH 8.39 Specific Conductance Date Sample Collected 12/30/93 Date Laboratory Name 14945 Description Fruitoneers	uMhos Temp. OC	Odor Slicht Ar	pearance Cleur	
Date Sample Collected 12/30/93 Date L	ab <u>Sample Analyzed See alfatched</u>	steets		
Laboratory Name /faugl hem (-nu: Tonmonta)	Luc.	$_$ Certification No. $_$	305	
SAMPLES FOR METALS WERE COLLECTED UNFIL	TERED AND FIELD ACIDIFIED	YESNO	)	•
COD mg/l	Nitrite (NO ₂ ) as N	ma/l	Ni - Nickel	ma/l
Coliform: MF Fecal/100ml Coliform: MF Total/100ml	Nitrate (NO ₃ ) as N Phosphorus: Total as P	mg/l	Pb - Lead	ma/l
Coliform: MF Total/100ml	Phosphorus: Total as P	mg/l	Zn - Zinc	mg/l
(Note: Use MPN method for highly turbid samples)	Al - Aluminum	mg/l	Pesticides/Herbicides	Ŭ
Dissolved Solids: Total mg/l	Ba - Barium	mg/l	(Specify Compounds)	
pH (when analyzed)units	Ca - Calcium	mg/l		ug/l
TOC mg/l	Cd - Cadmium	mg/l		ug/l
Chloride mg/l	Chromium: Total	mg/l	·	ug/l
Arsenic mg/l	Cu - Copper Fe - Iron	mg/[	Other (Specify Compounds and Concentration units) SW-846 Method 8240 Gr Acet	ug/l
Grease and Oils mg/l Hardness: Total mg/l	Fe - Iron	mg/l	Concentration units)	ug/l
Phonol mg/l	Hg - Mercury	mg/l	SW-846 Method 8240 for Acet	ug/l عديد
Phenol mg/l Sulfate mg/l	K - Potassium	mg/l	EVA Method 624 for Whatle Ora	pais ug/
Specific ConductanceuMhos	Mg - Magnesium	mg/i	EPA Method 624 for what le Oro EPA Method 625 for Semi Idatile Oro	gangs ma/
Total Ammonia mg/l	Mn - Manganese Na - Sodium	mg/i	· · · · · · · · · · · · · · · · · · ·	ب
TKN as Nmg/l	Na - Socium	111g/i		
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I CERTIFY THAT THIS REPORT IS TRUE AND	O ACCURATE.	Note: V	alues should reflect dissolved an	d .
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$\rightarrow$ $+$ $\times$ $\vee$ $/$			onoldai concentiations. (See #3 0)	ii back)
	1/18194	* See ha	ck for instructions.	
Signature of Permittee (or Authorized Agent*)	Date		t blue, green, and yellow copies only to addre	ess above.
GW-59 REV. 6/93 Shock Maron	<del></del>	<u> </u>		
1-21-98				

GROUNDWATER QUALITY MONITOR	RING:		NMENTAL MANAGEMENT : C P.O. BOX 29535	ROUNDWATER SECTIO	N
COMPLIANCE REPORT FORM	For additional forms please, write or call:	N X XXXXX X Y 100 X XX Y 100 X XX XX XX XX Y 100 X XX XX XX XX XX XX XX XX XX XX	RALEIGH: NC 27626-0535 (919) 733-3221	i	
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GROUNDWATER QUALITY MONITO COMPLIANCE REPORT FORM	RING: For additional forms please with or call:		NTAL MANAGEMENT - GROUNDWATE P:O :BOX 29535 ALEIGH: NC 27626-0535 (919) 733-3221	ER SECTION
Type or Use a ball-point per	n and press firmly.	PERMIT NUMBER: (RI	EQUIRED)	
Facility Name Hackney & Sons		Non-Discharge	EQUIRED) e <u>WQOOO 79 70</u>	
Address PO Box 880		NPDES		l
Washington, W.C. 27889	County Benesell		PERATION BEING MONITORED	
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GROUNDWATER QUALITY MONITORING: For addition COMPLIANCE REPORT FORM please write	
Type or Use a ball-point pen and press firmly.  Facility Name Hackney 3 Sons Address Do Box 880  Well Location W.C. 27889 County Sexual Well Location Number Ow-Is Well Depth 25 Ft.  Well Identification Number Ow-Is Well Depth 25 Ft.  Well Diameter 2 Sample (Screened) Interval Ft. To Ft.  Depth to Water Level 5.57 ft. below measuring point (before sampling)  Measuring point is ft. above land surface  Gallons of water pumped/bailed before sampling  Field Analysis: pH 8.21 Specific Conductance uMhos Temp  Date Sample Collected 12/30/93 Date Lab Sample Analyzed Sec affections for Metals were Collected Unfilted Analysis for Metals were Collected Unfilted And Field Acidified	PERMIT NUMBER: (REQUIRED) Non-Discharge
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Signature of Permittee (or Authorized Agent*)  Output  Date  Output  Date  Date	Note: Values should reflect dissolved and colloidal concentrations. (see #3 on back)  See back for instructions.  Submit blue, green, and yellow copies only to address above.

Fig.

HACKNEY AND SONS
P.O. BOX 880
400 HACKNEY AV.
WASHINGTON NC. 278890
JANUARY 21, 19940

45 ,4

GROUNDWATER SECTION P.O. BOX 29530 RALEIGH, NC. 27626

DEAR SIR OR MADAM:

IN ACCORDANCE WITH OUR PERMIT NO. W@OOO7970 DATED AUGUST 24, 1993, I HAVE ENCLOSED 3 COPIES OF THE RESULTS OF THE SAMPLING AND ANALYSIS OF THE 11 MONITORING WELLS STATED IN THE PERMIT. ALSO ENCLOSED IS 3 COPIES OF INFLUENT AND EFFLUENT ANALYSIS AND DAILY LOG FOR NOVEMBER, DECEMBER AND THE FIRST WEEK OF JANUARY.

SINCERELY,

CHARLES R MASON ENGINEERING SUPERVISOR

Phalla & Maron

94 JAN 28 AM 9: 43

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RECEIVED WASHINGTON OFFICE

JAN 1 0 1994

D. E. M.

HACKNEY AND SONS P.O. BOX 880 400 HACKNEY AV. WASHINGTON N.C. 27889 JANUARY 6, 1994

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES P.O. 2188 WASHINGTON N.C. 27889

DEAR MR. PEARCE:

PER OUR PHONE CONVERSATION WE HAD PIPES TO FREEZE THE NIGHT OF DECEMBER 30, 1993. I ORDER PARTS TO REPAIR THE PIPES BUT PARTS WERE SHIPPED TO THE WRONG PLACE. TODAY WE HAVE THE PLANT RUNNING AGAIN. BECAUSE OF THE WEEK WE DID NOT PUMP, WE WILL GO 3 WEEKS BETWEEN TEST. THE REASON THE PIPES FROZE WAS BECAUSE NOVA HAD HOOKED THE HEAT TAPES UP WRONG.

THANKS FOR YOUR UNDERSTANDING

CHARLES MASON

ENGINEERING SUPERVISOR

State of North Carolina Department of Environment, Health and Natural Resources Division of Environmental Management

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary A. Preston Howard, Jr., P.E., Director



August 24, 1993

WASHINGTON OFFICE

'AUG 3 0 1993

D. E. M.

Mr. Jay A. Witte Director of Operations Hackney and Sons, Inc. 400 Hackney Avenue Washington, N. C. 27889

Subject: Permit No. WQ0007970 Hackney and Sons, Inc. Groundwater Remediation

**Beaufort County** 

Dear Mr. Witte:

In accordance with your application received on June 4, 1993, we are forwarding herewith Permit No. WQ0007970, dated August 24, 1993, to Hackney and Sons, Inc. for the construction and operation of the subject groundwater remediation and injection well disposal facilities.

This permit shall be effective from the date of issuance until July 31, 1998, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

A stamped approved copy of the applicable submittal document is being returned to you under separate cover. If you need additional information concerning this matter, please contact Mr. Randy Jones at 919/733-5083, extension 517.

Sincerely,

Preston Howard Jr., P.E.

cc: Beaufort County Health Department
Washington Regional Office, Water Quality Section
Washington Regional Office, Groundwater-Section
Jack Floyd, Groundwater Section
ENSCI Engineering Group
Facilities Assessment Unit
Training and Certification

#### NORTH CAROLINA

# **ENVIRONMENTAL MANAGEMENT COMMISSION**

# DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES

#### **RALEIGH**

#### INJECTION WELL PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

RECEIVED WASHINGTON OFFICE

Hackney and Sons, Inc.
Beaufort County

AUG 3 0 1993

D. E. M.

FOR THE

construction and operation of a 10,080 GPD groundwater remediation and injection well disposal facility, which consists of seven 1440 GPD recovery wells, a 500 gallon equalization tank, a biological treatment unit, facilities for nutrient addition, a 500 gallon equalization tank, a bag filter, two injection wells, and all other appurtenances to serve Hackney and Sons, Inc., with no discharge to the surface waters, pursuant to the application received on June 4, 1993, and in conformity with the project plan, specifications, and other supporting data subsequently filed and approved by the Department of Environment, Health and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until July 31, 1998, and shall be subject to the following specified conditions and limitations:

#### I. PERFORMANCE STANDARDS

- Upon completion of construction and prior to operation of this permitted facility, a 1. certification must be received from a professional engineer certifying that the permitted facility has been installed in accordance with this permit and the approved plans and specifications. Mail the Certification to the Permits and Engineering Unit, P.O. Box 29535, Raleigh, NC 27626-0535.
- The Washington Regional Office, telephone number 919/946-6481, shall be notified at 2. least forty-eight (48) hours in advance of operation of the installed facilities so that an inplace inspection can be made. Such notification to the regional supervisor shall be made during the normal office hours from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding State Holidays.
- This permit shall become voidable and may be rescinded unless the facilities are installed, 3. maintained, and operated in a manner which will protect the assigned water quality standards of the surface waters and groundwaters.

- 4. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by this Division, such as the construction of additional or replacement treatment or disposal facilities.
- 5. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwaters resulting from the operation of this facility.
- 6. Any sludge generated from these treatment facilities must be disposed of in accordance with General Statute 143-215.1 and in a manner approved by the North Carolina Division of Environmental Management.
- 7. Diversion or bypassing of the untreated groundwater from the treatment facilities is prohibited.

# II. OPERATION AND MAINTENANCE REQUIREMENTS

- 1. The facilities shall be properly maintained and operated at all times.
- 2. Upon classification of the facility by the Certification Commission, the Permittee shall employ a certified wastewater treatment plant operator to be in responsible charge (ORC) of the wastewater treatment facilities. The operator must hold a certificate of the type and grade at least equivalent to or greater than the classification assigned to the wastewater treatment facilities by the Certification Commission. The Permittee must also employ a certified back-up operator of the appropriate type and grade to comply with the conditions of Title 15A, Chapter 8A, .0202. The ORC of the facility must visit each Class I facility at least weekly and each Class II, III, and IV facility at least daily, excluding weekends and holidays, and must properly manage and document daily operation and maintenance of the facility and must comply with all other conditions of Title 15A, Chapter 8A, .0202. Once the facility is classified, the Permittee must submit a letter to the Certification Commission which designates the operator in responsible charge within thirty days after the wastewater treatment facilities are 50% complete.
- 3. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility.

# III. MONITORING AND REPORTING REQUIREMENTS

- 1. Any monitoring deemed necessary by the Division of Environmental Management to insure surface and groundwater protection will be established and an acceptable sampling reporting schedule shall be followed.
- 2. Noncompliance Notification:
  - The Permittee shall report by telephone to the Washington Regional Office, telephone number 919/946-6481, as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence or first knowledge of the occurrence of any of the following:
  - a. Any occurrence at the groundwater remediation facility which results in the treatment of significant amounts of wastes which are abnormal in quantity or characteristic, such as the dumping of the contents of a basin or tank; the known passage of a slug of hazardous substance through the facility; or any other unusual circumstances.

- b. Any process unit failure, due to known or unknown reasons, that render the facility incapable of adequate wastewater treatment such as mechanical or electrical failures of pumps, aerators, compressors, etc.
- c. Any failure of a pumping station, sewer line, or treatment facility resulting in a bypass directly to receiving waters without treatment of all or any portion of the influent to such station or facility.
- d. Any time that self-monitoring information indicates that the facility is not in compliance with its permit limitations.

Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

## IV. GROUNDWATER REQUIREMENTS

1. The Compliance Boundary for the disposal system is specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards. An exceedance of Groundwater Quality Standards beyond the Compliance Boundary is subject to penalty provisions applicable under General Statute 143-215.6(1)a. The sale of property, by the Permittee, which is within or contiguous to the disposal system site may alter location of the Compliance Boundary.

For facilities permitted on or after December 30, 1983, the Compliance Boundary is established at the lesser of 250 feet from the disposal site, or 50 feet within the property boundary.

If the title to any property which may affect the location of the Compliance Boundary is changed, the Permittee shall notify the DEM Director within 14 days. The Director shall then establish a modified Compliance Boundary which will be done as a modification to the Permit.

The REVIEW BOUNDARY for the disposal system is specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards. A REVIEW BOUNDARY is established around disposal systems midway between the Compliance Boundary and the perimeter of the waste disposal area. When the concentration of any substance equals or exceeds the maximum allowable concentration of that substance at the REVIEW BOUNDARY, as determined by monitoring, the permittee shall either (i) demonstrate, through predictive calculations or modeling, that natural site conditions, facility design and operational controls will prevent a violation of standards at the Compliance Boundary; or, (ii) submit a plan for the alteration of existing site conditions, facility design or operational controls that will prevent a violation of standards at the Compliance Boundary, and implement that plan upon its approval by the Director.

- 2. Any groundwater quality monitoring deemed necessary by the Division of Environmental Management shall be provided.
- 3. The treatment system shall consist of a biological degradation unit, as described in the permit application documents.
- 4. The two injection wells shall be constructed of 18 inch diameter stainless steel casing and grouted as indicated in the specifications. Each well shall have a device to allow measurement of injection pressure at the screened interval.

- 5. Injection pressures shall not be greater than the ambient pressure exerted at the screened interval due to the differential in the water table and the water level in the well. If operating pressures are to be increased above this level, the permittee must obtain approval from the Washington Regional Groundwater Supervisor prior to increasing injection pressures.
- 6. The following monitoring wells shall be sampled every March, June, September, and December: MW-25, MW-26, MW-26d, MW-29, MW-30, MW-11, MW-28B, MW-29B, MW-30B, OW-1d, OW-1s.
- 7. The monitoring wells shall be sampled for the following parameters:

EPA Methods 624 and 625 (to include acetone and xylenes) pH
Water Levels

The measurement of water level must be made prior to sampling for the remaining parameters. The depth of water in each well shall be measured from the surveyed point on the top of the casing.

The measuring points (top of well casing) of all monitoring wells shall be surveyed to provide relative elevations of the measuring point for each monitoring well.

- 8. The influent and effluent shall be sampled every two weeks for the first three months and monthly thereafter for the same parameters listed above.
- 9. The results of the sampling and analysis shall be sent to the Groundwater Section, P.O. Box 29535, Raleigh, NC 27626 every April, July, October, and January. Groundwater data should be submitted on form GW-59. Monthly influent and effluent data may also be submitted quarterly along with the groundwater data.
- 10. Three copies of the influent and effluent data required in condition IV.8 should also be sent to the following address by March 1 of each year:

Division of Environmental Management Water Quality Facilities Assessment Unit PO Box 29535 Raleigh, NC 27626-0535

- 11. Effluent concentrations of contaminants shall not exceed 5% of influent concentrations (i.e., 95% treatment efficiency). If the treatment system fails to produce an effluent in compliance with this condition, the Division may require the construction of additional treatment units.
- 12. All components of the groundwater recovery, treatment and disposal system shall be properly weather-proofed to prevent freezing and failure of the system.
- 13. The groundwater recovery, treatment and disposal system shall be inspected weekly. If it is determined that the system is malfunctioning, all repairs should be made as soon as possible and reported to the Regional Office.
- 14. Isoconcentration maps in both the vertical and horizontal directions shall be developed using the groundwater monitoring data collected in September for total volatile and semivolatile hydrocarbons. A water level contour map must also be developed on a quarterly basis. These maps shall be submitted along with all groundwater monitoring data.
- 15. The permittee shall submit a report outlining the injection volumes and pressures of the injection wells. This report may be submitted along with all other monitoring data.

- 16. The two injection wells shall be constructed such that the screened interval of each well is located from 3 feet to 8 feet below land surface, as described in the permit application.
- 17. Prior to operation of the groundwater remediation system, the permittee shall certify the mechanical integrity of the injection wells as defined by 15A NCAC 2C .0207. Additionally, an engineering certification shall be provided stating that the injection wells have been constructed in accordance with 15A NCAC 2C .0200 and the conditions of this permit. This certification shall be forwarded to the Groundwater Section, P.O. Box 29535, Raleigh NC, 27626, prior to operation of the system.
- 18. All wells that are constructed for purposes of groundwater monitoring shall be constructed in accordance with 15A NCAC 2C .0108 (Standards of Construction for Wells Other than Water Supply) and any other state and local laws and regulations pertaining to well construction.
- 19. The Washington Regional Office, telephone number 919-946-6481, shall be notified at least forty-eight (48) hours prior to the construction of any monitoring well so that an inspection can be made of the monitoring well location. Such notification to the regional groundwater supervisor shall be made during the normal office hours from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding state holidays.
- 20. Within sixty (60) days of completion of all monitoring wells, the permittee shall submit two original copies of a scaled topographic map (scale no greater than 1:100) signed and sealed by a professional engineer or a state licensed land surveyor that indicates all of the following information:
  - a. the location and identity of each monitoring well,
  - b. the location of the waste disposal system,
  - c. the location of all property boundaries,
  - d. the latitude and longitude of each monitoring well,
  - e. the relative elevation of the top of the well casing (which shall be known as the "measuring point"), and
  - f. the depth of water below the measuring point at the time the measuring point is established.
- 21. Upon completion of all well construction activities, a certification must be received from a professional engineer certifying that the monitoring wells are located and constructed in accordance with the Well Construction Standards (15A NCAC 2C) and this permit. This certification should be submitted with copies of the Well Completion Form (GW-1) for each well. Mail this certification and the associated GW-1 forms to the Permits and Compliance Unit, Groundwater Section, P.O. Box 29535, Raleigh, NC, 27626-0535.
- 22. For the initial sampling of the well, as specified elsewhere in the permit, the permittee shall submit a copy of the GW-1 form with the Compliance Monitoring Form (GW-59) for that well. Compliance Monitoring Forms that do not include copies of the GW-1 form will be returned to the permittee without being processed. Failure to submit these forms, as required by this permit, may result in the initiation of enforcement activities pursuant to NC General Statutes 143-215.6.

#### V. INSPECTIONS

1. Adequate inspection, maintenance and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.

- 2. The Permittee or his designee shall inspect the groundwater recovery and treatment facilities to prevent malfunctions and deterioration, operator errors and discharges which may cause or lead to the release of wastes to the environment, a threat to human health, or a nuisance. The Permittee shall keep an inspection log or summary including at least the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken by the Permittee. This log of inspections shall be maintained by the Permittee for a period of three years from the date of the inspection and shall be made available upon request to the Division of Environmental Management or other permitting authority.
- 3. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the terms and conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.

# VI. GENERAL CONDITIONS

- 1. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans, specifications and other supporting data.
- 2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.
- 3. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Environmental Management accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.
- 4. The Permittee shall obtain a well construction permit from the Washington Regional Office prior to well construction.
- 5. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Environmental Management in accordance with North Carolina General Statute 143-215.6A to 143-215.6C.
- 6. The annual administering and compliance fee must be paid by the Permittee within thirty (30) days after being billed by the Division. Failure to pay the fee accordingly may cause the Division to initiate action to revoke this permit as specified by 15A NCAC 2H .0205 (c)(4).
- 7. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.
- 8. The Permittee, at least six (6) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.

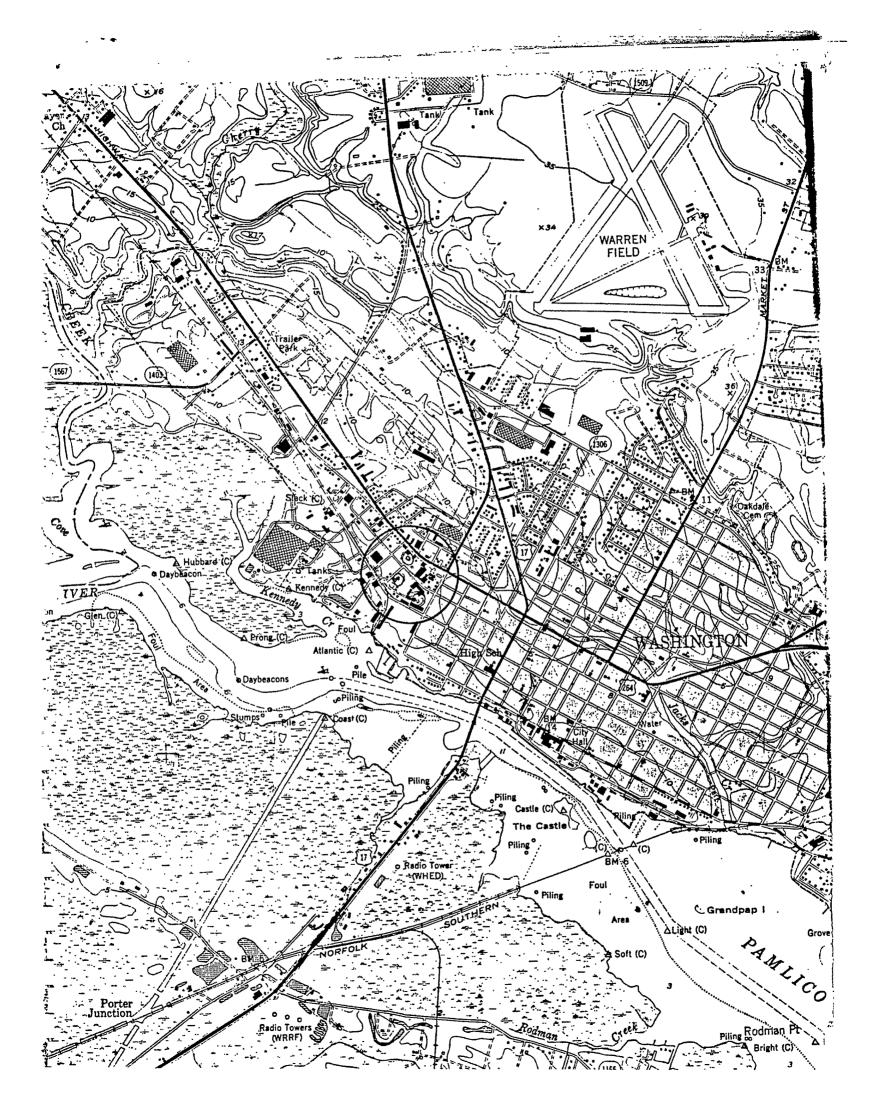
Permit issued this the 24th day of August, 1993.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

A. Preston Howard, Jr., P.E., Director
Division of Environmental Management
By Authority of the Environmental Management Commission

Permit No. WQ0007970

Permit No. WQ0007970 August 20, 1993		
Engineer's Certification		•
I,, as a duly register Carolina, having been authorized to observe (periodical	ered Professional Engineer in	the State of North struction of the
project,		for the
Project Name	Location	
Permittee hereby state that, to the best of my abilities, of the construction such that the construction was obseintent of the approved plans and specifications.	due care and diligence was us erved to be built within substa	ed in the observation ntial compliance and
Signature	Registration No	
Date	.,	



# DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION

July 1, 1993

#### MEMORANDUM

TO: Jack Floyd - Permits and Compliance Unit

THROUGH: Willie Hardison - WaRO Groundwater Supervisor

FROM: Guy Pearce Hydrogeologist I

SUBJECT: Non-Discharge Permit Application

Hackney and Sons, Inc. - Beaufort County Groundwater Remediation with Injection Wells

WQ0007970 GW93111

The Washington Regional Office Groundwater Section has reviewed the subject application to allow the operation of a groundwater remediation system utilizing recovery wells, a biological treatment plant, and injection wells. As indicated in the application, there are actually two (2) contaminant plumes on the property. The system is designed to recover the contaminated groundwater from both areas and convey it to a central location for biological treatment. From this point, the treated water is then returned back to the subsurface by means of injection wells. Based on the submitted hydrogeological information, it appears the recovery well system will effectively capture/contain the contaminant plume. The information also satisfactorily demonstrates that the operation of the injection wells will not cause or contribute to migration of contaminants into previously uncontaminated areas.

Based on our review of the application, we do not object to permit issuance, however; the following comments are submitted for your consideration:

1. The groundwater monitoring schedule proposed in Section J of the application is acceptable and we recommend it be included in the permit. For your convenience I have attached a copy of this section. In addition, we recommend the influent/effluent from the treatment system be sampled on a monthly basis to verify that adequate treatment is taking place.

Non-Discharge Permit Application Hackney and Sons, Inc. - Beaufort County Page Two

- 2. The groundwater treatment system should achieve at least a 95% treatment efficiency. If the treatment efficiency consistently falls below 95%, additional treatment facilities may be required.
- 3. A condition of the permit should specify that a well construction permit from the Washington Regional Office will be required prior to the construction of any recovery wells.
- 4. The groundwater recovery, treatment and disposal system should be inspected weekly. If it is determined that the system is malfunctioning, all repairs should be made as soon as possible and reported to the Washington Regional Office.

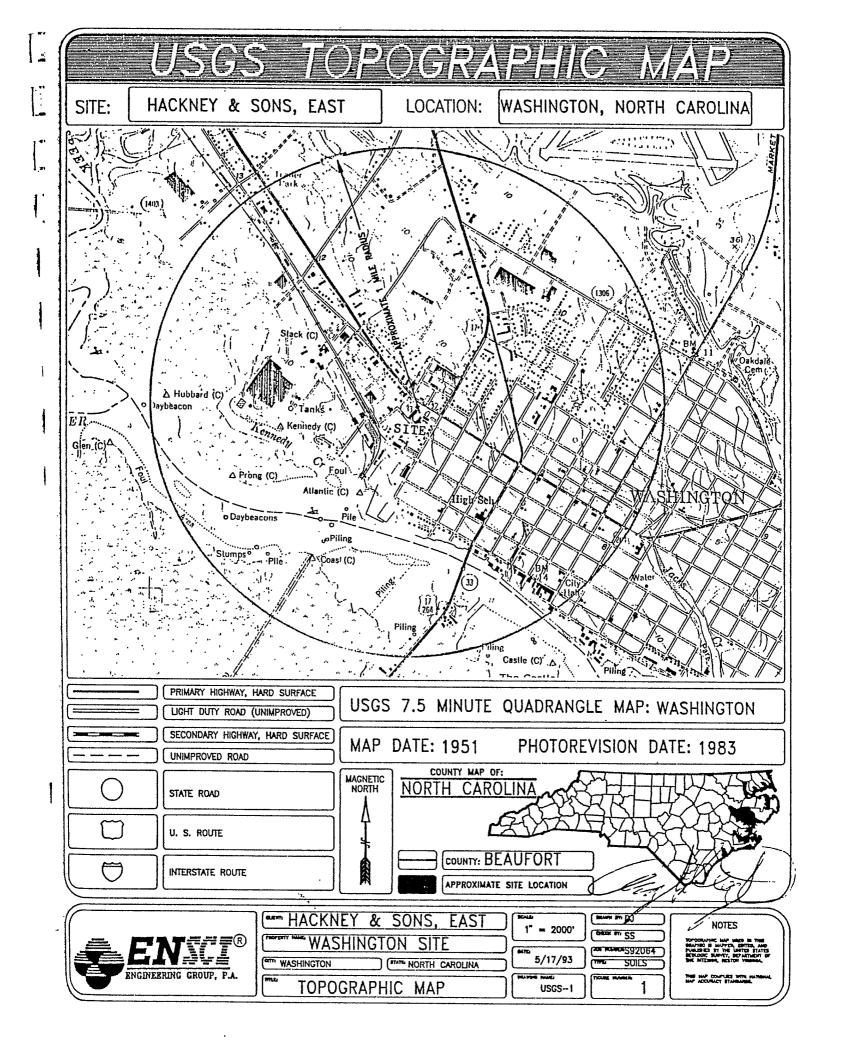
If you have any questions, or wish to discuss this matter further, please contact me at any time.

# GROUNDWATER SECTION DIVISION OF ENVIRONMENTAL MANAGEMENT

	- 1		_
GW	#	93111	

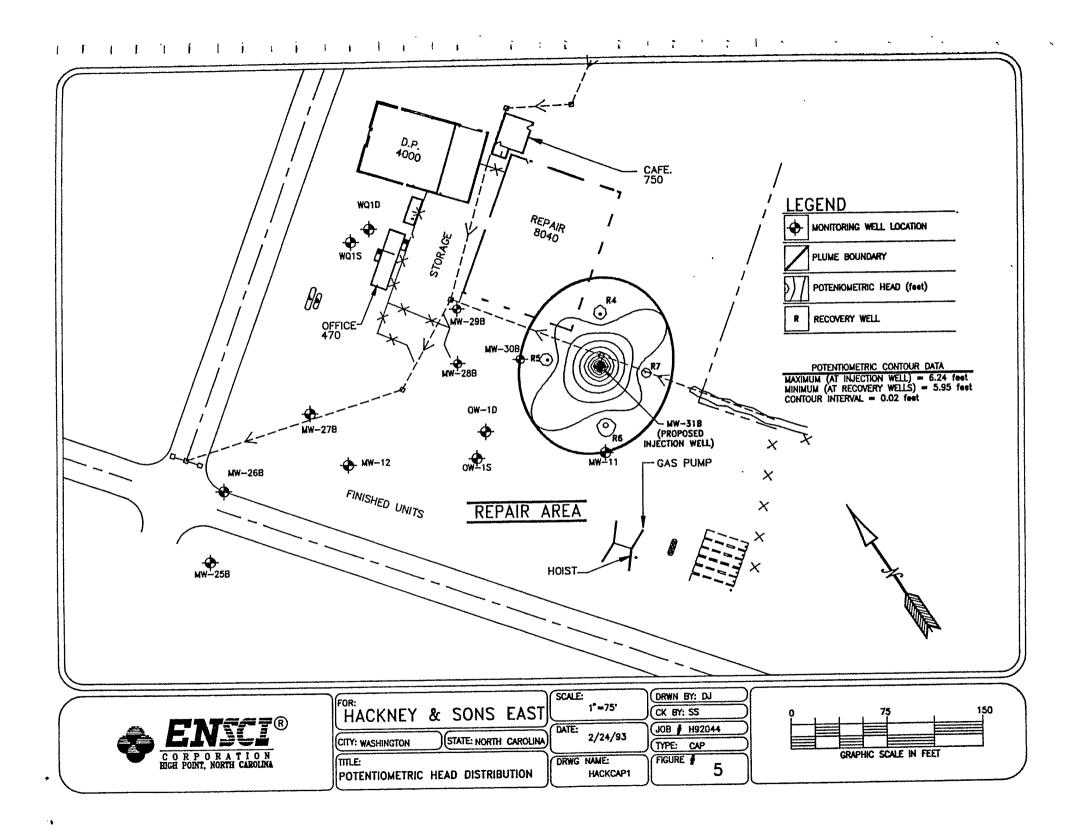
RECORD OF WASTE DISPOSAL PERMIT APPLICATION REVIEW
JAC
REVIEW BY Guy Pearce DATE July 1, 1993 FIELD INVESTIGATION? (Y/N)
FACILITY NAME Hackney and Sons, Inc. COUNTY Beautort
LOCATION off US Hwy 264, Bordered by Hackney Ave, W.3rd St, and Kinston St, in Washington
TYPE OF DISPOSAL SYSTEM (LAGOON, ETC.) Injection Wells DESIGN CAP. (GPD) 10,080
DESCRIPTION OF FACILITY Seven (7) Recovery Wells @ 1440 gpd each, Equalization tank, Biological
Treatment Plant, Equalization tank, and two (2) injection wells
SIZE OF IMPOUNDMENT (FT. SQ) NA & / OR SIZE OF APPLICATION AREA NA
WASTE SOURCE : MUN. SLUDGE MUN. W. WATER : PRIMARY SECONDARY TERTIARY
IND. SLUDGE IND. W. WATER OTHERS * Remediated Groundwater
DISTANCE FROM WASTE SOURCE TO NEAREST: STREAM FT., WELL > 500 FT.
FOR WELL: TYPE OF USE unknown DEPTH whown PUMP RATE (EST.) unknown
WHAT DESIGN CONDITIONS WILL REDUCE / INCREASE CHANCE OF GW CONTAMINATION : 10/ection wells
will be located within capture zone of the recovery wells.
WHAT NATURAL SITE CONDITIONS WILL REDUCE / INCREASE CHANCE OF GW CONTAMINATION: Groundwater
has already been contaminated
DEPTH TO: BEDROCK > 1000 FT., SEASONAL HIGH W. T. > 4 FT., ANNUAL W. T. FLUX: ± 2 FT.
SURFICIAL AQUIFER BEDROCK / ARTESIAN AQUIFER
GEN. LITHOLOGY sands, loams, clay loams, clay Yorktown (Tertiary Sand)
HYD. COND. 2300 FT./DAY MEASURED 25 FT./DAY MEASURED ESTIMATED
THICKNESS 12 FT.
NO. OF MONITOR WELLS: PROPOSED: UP 0 DOWN 0 : EXISTING: UP * DOWN *
FROM WORKSHEET: SITE NUMERICAL DESCRIPTION =
T 1 2 3 4 5 6 6A 6B
SITE GRADE (HYDROGEOL.) = SITUATION GRADE =
PROPOSED SAMPLING SCHEDULE & PARAMETER(S): See Attached Comments
REMARKS/RECOMMENDATIONS: See Attached Comments
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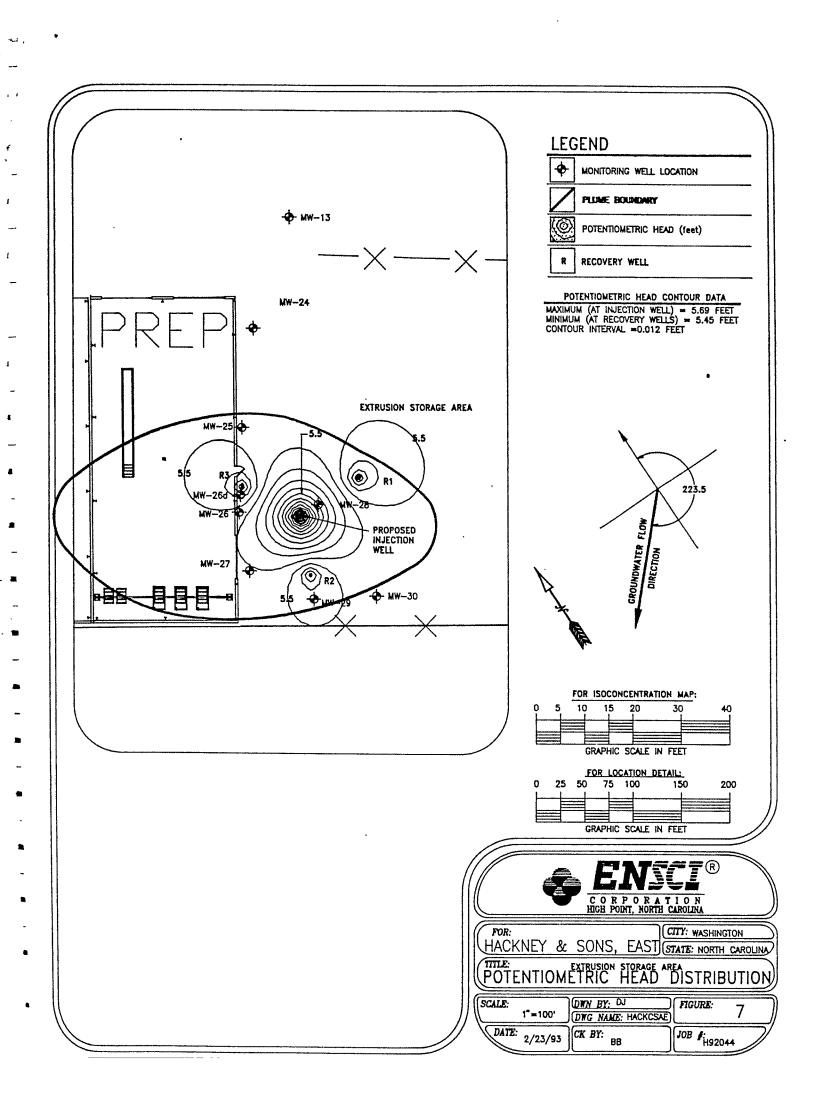
**GW-48** Revised 8/87





LEGEND SCLEEN TEST BOVERS AVE.  $\Phi$ MONITORING WELL RECOVERY WELL -PLUME BOUNDARY INJECTION WELL HSI OFFICE PIPING FROM RECOVERY WELLS TO POLYBAC SYSTEM HIM-268 INISHED UNITS PH PIPING TO INJECTION WELLS FROM POLYBAC SYSTEM BODY STORAGE FABRICATION ROOF \$/16/93 POLYBAC CTX BIOX PARKING FAB STORAGE FABRUS STORAGE CHURCH | THACKNEY & SONS, EAST | THE WASHINGTON FACILITY | THE WASHINGTON | THE WASHINGTON | THE WASHINGTON | THE WASHINGTON SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE WASHINGTON SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYSTEM | THE COVERY SYST VAITING PAINT VAITING PAINT PARKING Ø₩-22 FOURTH ST BODY TORAGE VAZ ¶DH2 TRAILER TEST CHASSIS STURAGE EXTRUSTONX STORAGE TRANSFER MW-27A SALVAGE SINGLETON SONS TO RIVER THIRD ST.





# J. Proposed Groundwater Monitoring

Following activation of the groundwater recovery and treatment system, a monitoring program will be initiated in order to assess the effectiveness of the Remedial Action System.

The monitoring program will include:

- (1) Field measurements of the groundwater levels in the monitoring wells to verify the actual dimensions of the groundwater capture zones.
- (2) Measurements of flow rates from the recovery well to the treatment system to evaluate pump placement and efficiency.
- (3) Sampling and Laboratory analysis will be conducted on recovered groundwater from the wells and effluent from the treatment system to document the recovery and remediation of the groundwater contaminant plume. Laboratory analysis will include testing for volatile organic compounds under EPA method 8240, semi-volatile organic compounds under EPA method 8270, and nitrate and phosphate under an EPA approved method. All parameters that show positive identification will be reported. Groundwater will be sampled and analyzed from the following wells in the Extrusion Storage Area:

• Recovery wells: R1, R2, and R3

•Injection well: IW-1

•Monitoring wells: MW-25, MW-26, MW-26d, MW-29, MW-30

Groundwater will be sampled and analyzed from the following wells in the Repair Area:

• Recovery wells: R4, R5, R6, and R7

• Injection well: IW-2

• Monitoring wells: MW-11,MW-28B,MW-29B,MW-30B,OW-1S,OW-1D

(4) Sampling and analysis of the water treatment influent and effluent will be conducted to document the effectiveness of the system at removing groundwater contaminants.

Groundwater level measurements and sampling will be conducted during system start up, weekly during the first month of system operation, monthly through the first quarter, and quarterly thereafter. The effectiveness of the remediation will be re-evaluated after each sampling and testing event to monitor the effectiveness of the groundwater recovery system and groundwater treatment system. Adjustments to the recovery pump flow rates may be required to optimize the contaminate capture. During the re-evaluation of the treatment system, other adjustments may become necessary to optimize contaminant removal efficiencies.

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	DIVISION	OF ENVIRONMENTAL MANAC GROUNDWATER SECTION	EMENT  RECEIVED  WASHINGTON OFFICE
MEMORANDU	<u>M</u>	·	JUN 1 4 1993
TO:	Willie Hardison	_	D. E. M.
DATE:	10 June 1993	_	
FROM:	Jack Floyd		
SUBJECT:	Application for	RENEWAL/AMENIMENT	of Permit No.
		NEW PERMIT	
Facility	Name: <u>Hackney</u>	x Sons	
County:	Beauf	ort	
Type of P	roject: <u>groundw</u>	afer remediation u	with injection wells
		JACK Floyd	
Applicabl	e Permit Numbers:	WQ <u>000 7970</u>	GW <u>93///</u>
		DEH	AC
		EPA	
<u></u>	The Groundwater Sect permit application.	ion has received a cop A copy of the applica	y of the above referenced tion package is attached.
<u>/</u>	berune abbricacion,	wnich has been sent to If a copy has not h	y of the above referenced the regional office water been sent to the regional
or b	efore <u>June</u> 21	tion materials for contact to the Acopy of the forwarded to you	central office contact on
If yo	ou do not require any se provide your final	additional information comments by <u>July</u>	n to complete your review,
		, please let me know as	

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State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Management

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary A. Preston Howard, Jr., P.E., Director



SEP 0 1 1998

D. E. M.

August 27, 1993

Hackney and Sons, Inc. 400 Hackney Ave. Washington, NC 27889

Attn: Mr. Witte:

SUBJECT: Permit No. WQ0007970

Groundwater Remediation System

Beaufort County:

Dear Mr. Witte:

In accordance with the policy of the Division of Environmental Management to ensure the good quality of North Carolina's groundwater, the referenced Permit requires several activities related to groundwater monitoring. The following guidelines and forms are presented to assist you in complying with those requirements. If you have any questions concerning these matters, you should contact Willie Hardison at the address shown below to discuss the requirements relevant to your specific facility:

WASHINGTON REGIONAL OFFICE 1424 Carolina Ave. Washington, NC 27889 (919)946-6481

* A supply of forms (GW-59) on which the analytical results must be reported are attached. Instructions are provided on the reverse of the white copy of each 4-part form. The analytical results should be sent to the address shown at the top of the form and are due in our office no later than the last working day of the month following sample collection.

Additional forms will be provided upon receipt of the attached form GW-59 RO.

- * A supply of forms (GW-1) on which monitor well construction data is reported by the well drilling contractor/or agent are attached. A GW-1 form is to be completed for each well constructed. See condition IV-21-22 of the permit (Groundwater Requirements) for further details.
- * FOR ANY ADDITIONAL INFORMATION RELATED TO REQUIREMENTS FOR GROUNDWATER QUALITY PROTECTION, PLEASE REFER TO YOUR PERMIT. A copy of the Groundwater Requirements (Section IV-1-22 of Permit No. WQ0007970) is attached for your reference.

If you have any questions, please do not hesitate to contact me at (919)733-3221.

Sincerely,

Brian Wootton

Brian Wootlow

Hydrogeology Technician Permits and Compliance Groundwater Section

Attachments

cc: Willie Hardison Central Files

Compliance Monitoring files

- b. Any process unit failure, due to known or unknown reasons, that render the facility incapable of adequate wastewater treatment such as mechanical or electrical failures of pumps, aerators, compressors, etc.
- c. Any failure of a pumping station, sewer line, or treatment facility resulting in a bypass directly to receiving waters without treatment of all or any portion of the influent to such station or facility.
- d. Any time that self-monitoring information indicates that the facility is not in compliance with its permit limitations.

Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

## IV. GROUNDWATER REQUIREMENTS

1. The Compliance Boundary for the disposal system is specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards. An exceedance of Groundwater Quality Standards beyond the Compliance Boundary is subject to penalty provisions applicable under General Statute 143-215.6(1)a. The sale of property, by the Permittee, which is within or contiguous to the disposal system site may alter location of the Compliance Boundary.

For facilities permitted on or after December 30, 1983, the Compliance Boundary is established at the lesser of 250 feet from the disposal site, or 50 feet within the property boundary.

If the title to any property which may affect the location of the Compliance Boundary is changed, the Permittee shall notify the DEM Director within 14 days. The Director shall then establish a modified Compliance Boundary which will be done as a modification to the Permit.

The REVIEW BOUNDARY for the disposal system is specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards. A REVIEW BOUNDARY is established around disposal systems midway between the Compliance Boundary and the perimeter of the waste disposal area. When the concentration of any substance equals or exceeds the maximum allowable concentration of that substance at the REVIEW BOUNDARY, as determined by monitoring, the permittee shall either (i) demonstrate, through predictive calculations or modeling, that natural site conditions, facility design and operational controls will prevent a violation of standards at the Compliance Boundary; or, (ii) submit a plan for the alteration of existing site conditions, facility design or operational controls that will prevent a violation of standards at the Compliance Boundary, and implement that plan upon its approval by the Director.

- 2. Any groundwater quality monitoring deemed necessary by the Division of Environmental Management shall be provided.
- 3. The treatment system shall consist of a biological degradation unit, as described in the permit application documents.
- 4. The two injection wells shall be constructed of 18 inch diameter stainless steel casing and grouted as indicated in the specifications. Each well shall have a device to allow measurement of injection pressure at the screened interval.

- 5. Injection pressures slower than the ambient pressor exerted at the screened interval due to the differential in the water table and the water level in the well. If operating pressures are to be increased above this level, the permittee must obtain approval from the Washington Regional Groundwater Supervisor prior to increasing injection pressures.
- 6. The following monitoring wells shall be sampled every March, June, September, and December: MW-25, MW-26, MW-26d, MW-29, MW-30, MW-11, MW-28B, MW-29B, MW-30B, OW-1d, OW-1s.
- 7. The monitoring wells shall be sampled for the following parameters:

EPA Methods 624 and 625 (to include acetone and xylenes) pH
Water Levels

The measurement of water level must be made prior to sampling for the remaining parameters. The depth of water in each well shall be measured from the surveyed point on the top of the casing.

The measuring points (top of well casing) of all monitoring wells shall be surveyed to provide relative elevations of the measuring point for each monitoring well.

- 8. The influent and effluent shall be sampled every two weeks for the first three months and monthly thereafter for the same parameters listed above.
- 9. The results of the sampling and analysis shall be sent to the Groundwater Section, P.O. Box 29535, Raleigh, NC 27626 every April, July, October, and January. Groundwater data should be submitted on form GW-59. Monthly influent and effluent data may also be submitted quarterly along with the groundwater data.
- 10. Three copies of the influent and effluent data required in condition IV.8 should also be sent to the following address by March 1 of each year:

Division of Environmental Management Water Quality Facilities Assessment Unit PO Box 29535 Raleigh, NC 27626-0535

- 11. Effluent concentrations of contaminants shall not exceed 5% of influent concentrations (i.e., 95% treatment efficiency). If the treatment system fails to produce an effluent in compliance with this condition, the Division may require the construction of additional treatment units.
- 12. All components of the groundwater recovery, treatment and disposal system shall be properly weather-proofed to prevent freezing and failure of the system.
- 13. The groundwater recovery, treatment and disposal system shall be inspected weekly. If it is determined that the system is malfunctioning, all repairs should be made as soon as possible and reported to the Regional Office.
- 14. Isoconcentration maps in both the vertical and horizontal directions shall be developed using the groundwater monitoring data collected in September for total volatile and semivolatile hydrocarbons. A water level contour map must also be developed on a quarterly basis. These maps shall be submitted along with all groundwater monitoring data.
- 15. The permittee shall submit a report outlining the injection volumes and pressures of the injection wells. This report may be submitted along with all other monitoring data.

- 16. The two injection wells shall be constructed such that the screened interval of each well is located from 3 feet to 8 feet below land surface, as described in the permit application.
- 17. Prior to operation of the groundwater remediation system, the permittee shall certify the mechanical integrity of the injection wells as defined by 15A NCAC 2C .0207. Additionally, an engineering certification shall be provided stating that the injection wells have been constructed in accordance with 15A NCAC 2C .0200 and the conditions of this permit. This certification shall be forwarded to the Groundwater Section, P.O. Box 29535, Raleigh NC, 27626, prior to operation of the system.
- 18. All wells that are constructed for purposes of groundwater monitoring shall be constructed in accordance with 15A NCAC 2C .0108 (Standards of Construction for Wells Other than Water Supply) and any other state and local laws and regulations pertaining to well construction.
- 19. The Washington Regional Office, telephone number 919-946-6481, shall be notified at least forty-eight (48) hours prior to the construction of any monitoring well so that an inspection can be made of the monitoring well location. Such notification to the regional groundwater supervisor shall be made during the normal office hours from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding state holidays.
- 20. Within sixty (60) days of completion of all monitoring wells, the permittee shall submit two original copies of a scaled topographic map (scale no greater than 1:100) signed and sealed by a professional engineer or a state licensed land surveyor that indicates all of the following information:
  - a. the location and identity of each monitoring well,
  - b. the location of the waste disposal system,
  - c. the location of all property boundaries,
  - d. the latitude and longitude of each monitoring well,
  - e. the relative elevation of the top of the well casing (which shall be known as the "measuring point"), and
  - f. the depth of water below the measuring point at the time the measuring point is established.
- 21. Upon completion of all well construction activities, a certification must be received from a professional engineer certifying that the monitoring wells are located and constructed in accordance with the Well Construction Standards (15A NCAC 2C) and this permit. This certification should be submitted with copies of the Well Completion Form (GW-1) for each well. Mail this certification and the associated GW-1 forms to the Permits and Compliance Unit, Groundwater Section, P.O. Box 29535, Raleigh, NC, 27626-0535.
- 22. For the initial sampling of the well, as specified elsewhere in the permit, the permittee shall submit a copy of the GW-1 form with the Compliance Monitoring Form (GW-59) for that well. Compliance Monitoring Forms that do not include copies of the GW-1 form will be returned to the permittee without being processed. Failure to submit these forms, as required by this permit, may result in the initiation of enforcement activities pursuant to NC General Statutes 143-215.6.

#### V. <u>INSPECTIONS</u>

1. Adequate inspection, maintenance and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.

#### DIVISION OF ENVIRONMENTAL MANAGEMENT

#### GROUNDWATER SECTION

July 14, 1993

WASHINGTON OFFICE

AUG 1 3 1993

DEM

#### **MEMORANDUM**

TO:

Carolyn McCaskill

THROUGH:

Bob Cheek (ml

FROM:

Jack Floyd

SUBJECT:

Hackney and Sons, Inc.

Groundwater Remediation System

Beaufort County WQ0007970/GW93111

(Randy Jones: DEM SERG Review Engineer)

The Groundwater Section has reviewed the subject permit application for a groundwater remediation system. The system will consist of 7 recovery wells (1 GPM each), an equalization tank, a biological treatment unit, nutrient addition, a holding tank, and 2 injection wells, all of which is designed to treat 10,080 GPD.

The site assessment on the Hackney property has noted three distinct areas of contamination. These areas are denoted as the repair area, extrusion area, and trailer areas. Distinct plumes of contamination have been located in these areas in both the vertical and horizontal directions throughout the surficial aguifer. Contaminants are indicated to be concentrated in the surficial aguifer due to the presence of a thick clay layer that has acted as an aquitard to the movement of contaminants. Contamination of the aquifer consist primarily of methylene chloride, acetone, toluene, xylene, trans 1,2 dichloroethene, tetrachloroethene, trichloroethene, and bis-2 ethyl hexyl phthalate. The repair area and extrusion area contaminant plumes have been determined to be the result of past activities at the Hackney facility. The trailer area contaminant plume is suspected to have been caused by activities from an adjacent junkyard because the contaminants indicated in the area have not been used by Hackney. We believe this is the reason the trailer area plume has not been addressed by the proposed remediation system.

The site is located in an urban area of Washington and is surrounded by several industrial businesses. Two notable businesses are the Rawls Junkyard and Wells Junkyard. Wells Junkyard that is suspected to have caused the contamination in the trailer area. Topography of the site is essentially flat with an overall groundwater gradient toward the Pamlico River which is less than a half mile away. No water supply wells were noted to be within 500 feet of the site, except two industrial non-potable wells. Numerous borings were advanced at each contamination area. These borings indicated that the soils on the site consisted primarily of sandy clays with increasing clay content as depth increased. The water table was indicated to be 60 to 80 inches below land surface with evidence of seasonal high water tables 40 to 60 inches below land surface. These borings also indicated a consistent clay layer at approximately 10 to 12 feet below land surface that has apparently acted as an aquitard to downward movement of contaminants. A 24 hour pump test was conducted on one of the proposed recovery wells using seven observation wells located around the site. Using the information obtained from this test, the hydrogeological parameters, such as hydraulic conductivity, transmissivity, storativity, and porosity were determined.

These hydrogeological parameters were then used by the applicant to model the system for closed loop operation and effectiveness. Using 2 injection wells, each surrounded by recovery wells, the applicant's model (FLOWPATH) suggest that the system would act in a closed loop manner. We modeled the system using RESSQ and MWCAP and found similar results suggesting closed loop operation; however our results were not as conclusive as the applicant's. Our model indicated a few particle pathways traveling beyond the influence of the recovery wells in both plume areas. Monitoring of the system operation should provide conclusive evidence of closed loop operation.

The applicant proposes to use two injection wells to reinfiltrate treated groundwater. One well will be located at the repair area and the other will be located at the extrusion area. Both wells will inject water in the center of each plume. The injection wells will be constructed of stainless steel casing extending down three feet with a stainless steel screen extending to 8 feet below land surface. The repair area injection will will receive 4 GPM of the flow and the extrusion area will receive 3 GPM. According to the hydrogeological characteristics determined for the site both wells should accommodate the design flows. Injection pressures are proposed to be atmospheric pressure with only slight increases above atmospheric pressure due to head differentials from higher water levels in the wells and the water table.

The applicant also proposes the use nutrient addition to enhance the biological activity in the treatment unit. According to pilot study data a carbon/nitrogen/phosphorus ratio of 100:10:1 must be maintained in the unit for optional operation. As a nitrogen supplement the applicant will use urea and maintain a residual concentration of NH₃-N of 10 to 20 ^{Mg}/L. Phosphate will be added to maintain a phosphorus residual of 5 to 15 mg/L. Anticipated effluent concentrations will be in similar to these for NH₃-N and phosphorus. Consumption rates for nitrogen are expected to keep nitrate levels below 10 mg/L with most of the nitrogen being consumed by the microorganisms instead of being transformed into nitrates. The applicant is expecting some insitu treatment of contaminants due to elevated nutrient levels in the injectate. As the system should operate in a closed loop manner, we are not concerned with the nutrient levels of the injectate.

Given these facts, the Groundwater Section does not object to permit issuance provided the following conditions are included in the permit:

- 1. The treatment system shall consist of a biological degradation unit as described in the permit application documents.
- 2. The two injection wells shall be constructed of 18 inch diameter stainless steel casing and grouted as indicated in the specifications. Each well shall have a device to allow measurement of injection pressure at the screened interval.
- 3. Injection pressure shall not be greater than the ambient pressure exerted at the screened interval due to the differential in the water table and the water level in the well. If operating pressures are to be increased above this level, the permittee must receive approval from the Washington Regional Office Groundwater Supervisor prior to increasing injection pressures.
- 4. The following monitoring wells shall be sampled every March, June, September, and December.

MW-25	MW-11
MW-26	MW-28B
MW-26d	MW-29E
MW-29	MW-30E
MW-30	OW-1d
	∩W-1 s

- 5. The monitoring wells shall be sampled for the following parameters:
  - EPA Methods 624 and 625 (to include acetone and Xylenes)
  - pH
  - Water Levels

Measurements of water levels shall be made prior to sampling for the remaining parameters. The depth of water in each well shall be measured from the surveyed point on the top of the casing.

The measuring points (top of well causing) of all wells shall be surveyed to provide relative elevations of the measuring point for each well.

- 6. The influent and effluent shall be sampled every two weeks for the first three months and monthly thereafter for the same parameters listed above.
- 7. The results of the sampling and analysis shall be sent to the Groundwater Section P.O. Box 29535, Raleigh, NC 27526 every April, July, October, and January. Groundwater data should be submitted on form GW-59. Monthly influent and effluent data may also be submitted quarterly along with the groundwater data.
- 8. Effluent concentrations of contaminants shall not exceed 5% of the influent concentrations (i.e, 95% treatment efficiency). If the treatment system fails to produce an effluent in compliance with this condition, the Division may require the construction of additional treatment units.
- 9. Any additional groundwater quality monitoring, as deemed necessary by the Division, shall be provided.
- 10. All components of the groundwater recovery, treatment and disposal system shall be properly weather-proofed to prevent freezing and failure of the system.
- 11. The groundwater recovery, treatment and disposal system shall be inspected weekly. If it is determined that the system is malfunctioning, all repairs should be made as soon as possible and reported to the Regional Office.

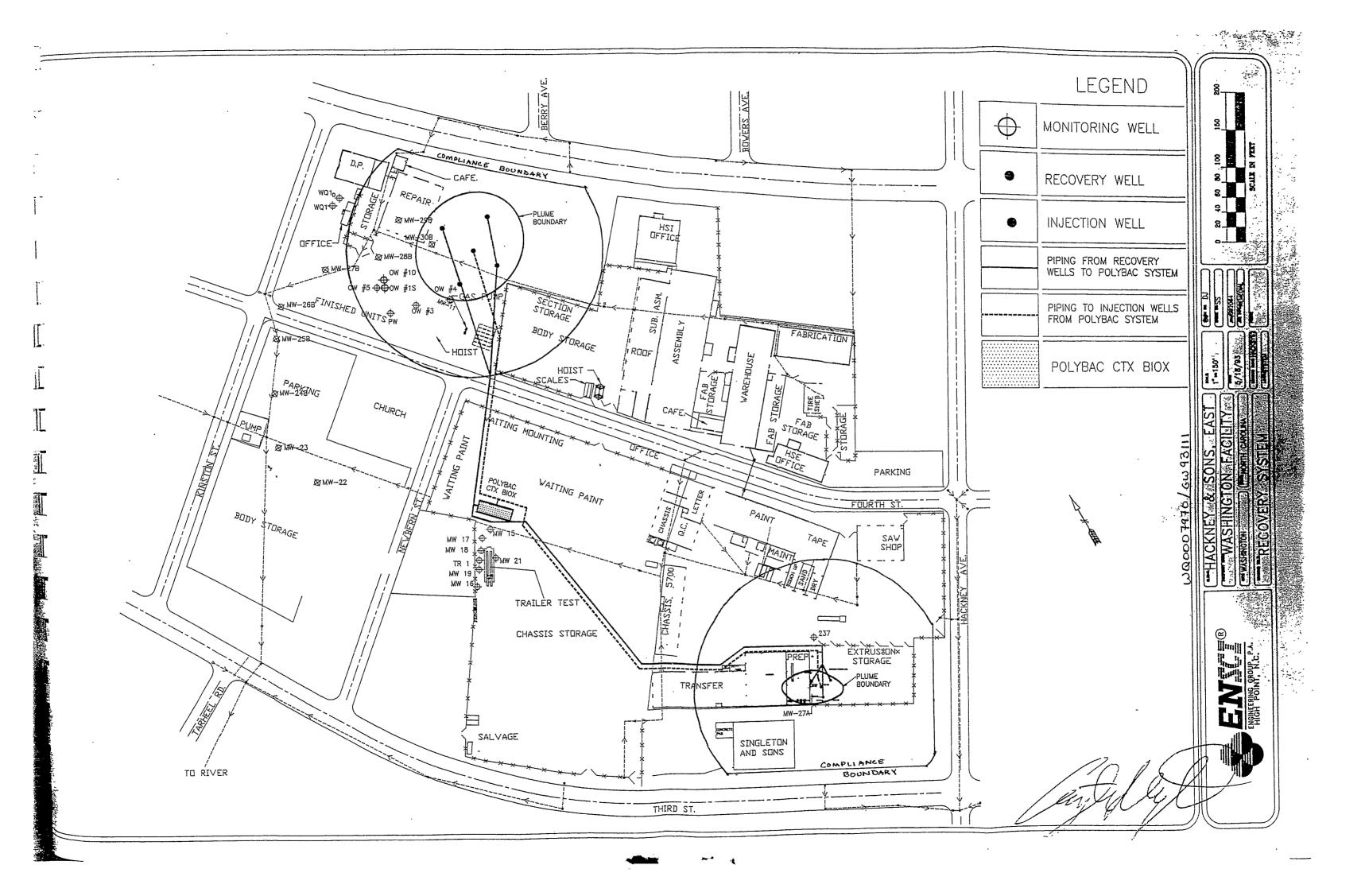
- 12. Isoconcentration maps in both the vertical and horizontal directions shall be developed using the groundwater monitoring data collected in September for total volatile and semivolatile hydrocarbons. A water level contour map must also be developed on a quarterly basis. These maps shall be submitted along with all groundwater monitoring data.
- 13. The permittee shall submit a report outlining the injection volumes and pressures of the injection wells. This report may be submitted along with all other monitoring data.
- 14. The two injection wells shall be constructed such that the screened interval of each well is located from 3 feet to 8 feet below land surface, as described in the permit application.
- 15. Prior to operation of the groundwater remediation system, the permittee shall certify the mechanical integrity of the injection wells as defined by 15A NCAC 2C .0207. Additionally an engineering certification shall be provided stating that the injection wells have been constructed in accordance with 15A NCAC 2C .0200 and the conditions of this permit. This certification shall be forwarded to the Groundwater Section P.O. Box 29535, Raleigh NC, 27626 prior to operation of the system.
- 16. All wells that are constructed for purposes of groundwater monitoring shall be constructed in accordance with 15A NCAC 2C .0108 (Standards of Construction for Wells Other than Water Supply) and any other state and local laws and regulations pertaining to well construction.
- 17. The Washington Regional Office, telephone number 919-946-6481 shall be notified at least forty-eight (48) hours prior to the construction of any monitoring well so that an inspection can be made of the monitoring well location. Such notification to the regional groundwater supervisor shall be made during the normal office hours from 8:00 a.m. until 5:00 p.m. on Monday through Friday, excluding state holidays.
- 18. Within sixty (60) days of completion of all monitoring wells, the permittee shall submit two original copies of a scaled topographic map (scale no greater than 1:100) signed and sealed by a professional engineer or a state licensed land surveyor that indicates all of the following information:

- a. the location and identity of each monitoring well,
- b. the location of the waste disposal system,
- c. the location of <u>all</u> property boundaries,
- d. the latitude and longitude of each monitoring well,
- e. the relative elevation of the top of the well casing (which shall be known as the "measuring point"),
- f. and the depth of water below the measuring point at the time the measuring point is established.
- 19. Upon completion of all well construction activities, a certification must be received from a professional engineer certifying that the monitoring wells are located and constructed in accordance with the Well Construction Standards (15A NCAC 2C) and this permit. This certification should be submitted with copies of the Well Completion Form (GW-1) for each well. Mail this certification and the associated GW-1 forms to the Permits and Compliance Unit, Groundwater Section, P.O. Box 29535, Raleigh, NC, 27626-0535.
- 20. For the initial sampling of the well as specified elsewhere in the permit, the permittee shall submit a copy of the GW-1 form with the Compliance Monitoring Form (GW-59) for that well. Compliance Monitoring Forms that do not include copies of the GW-1 form will be returned to the permittee without being processed. Failure to submit these forms as required by this permit may result in the initiation of enforcement activities pursuant to NC General Statutes 143-215.6.

If there are any questions, please let me know.

BC:JF:ja/93111.

cc: Willie Hardison Central Files Permit



State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Environmental Management

James B. Hunt, Jr., Governor Jonathan B. Howes, Secretary A. Preston Howard, Jr., P.E., Director



August 12, 1993

RECEIVED WASHINGTON OFFICE

AUG 1 3 1993

D. E. M.

### **Memorandum**

To: Jack Floyd, Groundwater Section Central Office

Washington Regional Office Water Quality Supervisor

Washington Regional Office Groundwater Supervisor

From: Randy Jones

Water Quality Permits and Engineering

Subject: Application No. WQ0007970

Additional Information Received

Hackney and Sons, Inc. Groundwater Remediation

Beaufort County

Attached is a copy of additional information received for the subject project.



August 5, 1993

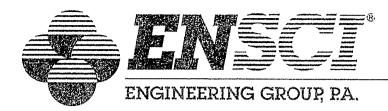
Randy Jones NCDEHNR Water Quality Permits and Engineering Raleigh, North Carolina

Dear Mr. Jones:

This letter is in response to your July 21, 1993 letter to Jay Witte of Hackney & Sons, Inc. in Washington, North Carolina requesting additional information and clarification of the Nondischarge Permit Application.

- 1. The Nondischarge Permit Application is for two groundwater contaminant plumes located on the Hackney facility. A third plume is located at the southwest corner of the Hackney facility in the Trailer Test Area. Assessment of the third plume indicates that it is located under the Hackney facility and the Wells Junkyard property to the southwest. The majority of the detected contaminants appear to be sourced from Wells Junkyard. Hackney & Sons, Inc. is currently awaiting action from the Washington Regional Office so that the plume can be fully delineated. At this time, the third plume is not being permitted; once the plume is fully defined, revision of the nondischarge permit will be sought.
- 2. The pull out plans (part 'e') of the Nondischarge Permit Application indicate *three sources of recovered groundwater entering the treatment system. Only two of the sources will be used to treat groundwater from 1) the Extrusion/Storage Area and 2) the Repair Area. The third source will not be utilized in treatment of groundwater at this time. It has been designed in anticipation of remedial action of the third plume in the future.
- 3.The two equilization tanks will consist of the two 550 gallon clarifiers indicated on the system plans in part 'e' of the application.
- 4. Additional technical information is attached for the bag filter. The filter will consist of model P2X/X2E constructed from nylon with a 150 micron rating.

.....



5. An additional copy of the Nondischarge Permit Application document is enclosed.

Please contact Bruce Braswell or Steve Stadelman of ENSCI Environmental at (919) 883-7505 if you have any questions or require additional information.

Sincerely,

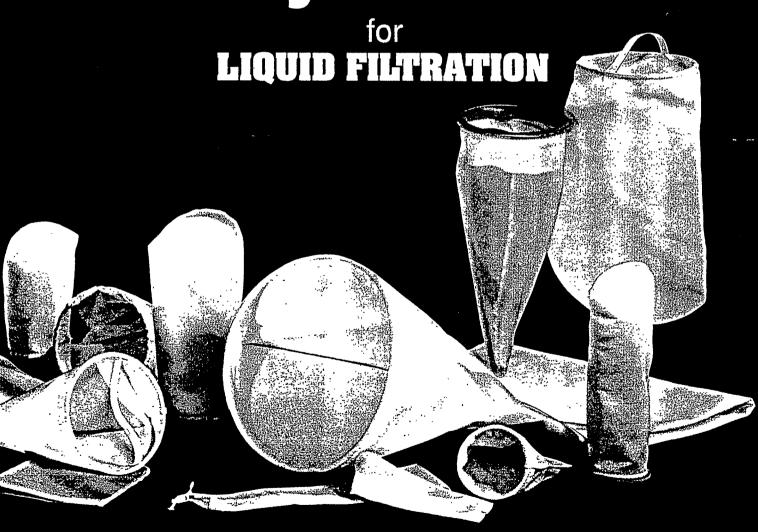
Bruce Braswell, P.G. Senior Hydrogeologist

Bun Braswell

cc: Jay Witte



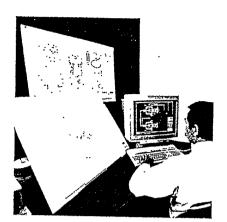
# Filter Bag Systems



## Filter bag Specifications and Compatibility

## . . . we can satisfy your filtration requirements

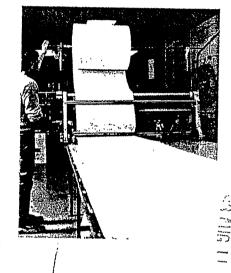
	Bag Sizes and Cap				
Filter Bag Size	To Fit GAF Vessel Model(s)	Diameter	Length	Surface Area (sq. ft.)	Surface Area (sq. m)
P1X/X1E	RBXA, RBXA-HD	4"	8"	.75 (per bag)	.07 (per bag)
P2X/X2E	RBXAL. RBXAL-HD, RBX-POL	4"	14"	1.4 (per bag)	.13 (per bag)
P1S/P1E	RB1A, RB1A-SE	7"	16.5"	2.8 (per bag)	.26 (per bag)
P2S/P2E	RB1AL, RB1AL-SE. RB1-POL,	7"	32"	5.3 (per bag)	.49 (per bag)
P2S/P2E	RB2C2L to RB30C2L	7"	32"	5.3 (per bag)	49 (per bag)



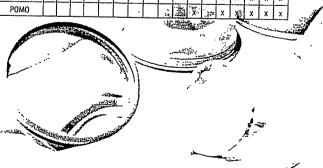
### Chemicals and Thermal Resistance of Filter Bags

THERMO-CHEMICAL RES
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Felts	Polypropylene	PO	200	x	×		X	x	1	X
	Polyester	PE	300	х	х	x	×	1	x	
	Rayon Viscose	V	250		x	x	x		χ.	
	Nylon	N	325	x	x	х	x	x		
	Aramid (High Temp.)	нт	400	х	х	х	×	<u> </u>	×	
Multifilament Mesn	Polyester	PEMU	300	х	×	×	x		x	<del>                                     </del>
Monofilament Mesn	Nylon	NMO	325	х	×	×	x	х		
	Polypropylene	РОМО	200	х	x		×	x	x	x



Micron Ratir	ngs of Filte	r Bags																	
									MIC	RON	s								
Description	Fiber	Abbreviation	1	3	5	10	15	25	50	75	100	125	150	200	250	300	400	600	80
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	Aramid (High Temp.)	нт			х	x		×	x	x.	x	_	-						$\vdash$
Multifilament Mesh	Polyester	PEMU								-	x	-	×	x	x	x	×	х	x
Monofilament Mesh	Nylon	OMN	х	-	x	х		x	х	х	x	x	. X	x	x	x	x	x	X
	Polypropylene	РОМО		_						_	:		Ž.	. 372	х	XŠ		X	×



State of North Carolina Department of Environment. Health and Natural Resources Division of Environmental Management

James B. Hunt, Jr., Gövernor Jonathan B. Howes, Secretary A. Preston Howard, Jr., P.E., Director



July 21, 1993

JUL 2 3 1993

D. E. M.

Mr. Jay A. Witte Hackney & Sons 400 Hackney Avenue Washington, N. C. 27889

Subject: Application No. WO0007970 Additional Information Request

Hackney & Sons, Inc. Groundwater Remediation

Beaufort County

Dear Mr. Witte

The Water Quality Permits and Engineering Unit has completed a preliminary engineering review of the subject application.

The following items must be addressed before we can complete our review:

- 1) The submitted information indicates that possibly three areas may need to be remediated, but that only two areas were covered by this submittal. What is the status of the third area? Provide a copy of the pertinent correspondence.
- 2) The pull out plans that are a part of "e" of the Nondischarge Permit Application document seem to indicate three contaminant areas with four recovery wells at each. Please explain.
- 3) The submittal information indicates that two equalization tanks are a part of this system. Are these the tanks that are described as 550 gallon clarifiers on the pull out plans referenced in 2 above?
- 4) Please provide more details on the bag filter.
- 5) Please provide me with one additional copy of the Nondischarge Permit Application document.

Refer to the subject permit application number when providing the requested information. Please submit four copies of all applicable information to my attention at the address below. Also, please note that failure to provide this additional information on or before August 27, 1993, will subject your application package to being returned as incomplete, in accordance with 15A NCAC 2H .0208.

If you have any questions on this matter, please call me at 919/733-5083, extension 517.

Sincerely,

Randy Jones

Environmental Engineer

Water Quality Permits and Engineering

cc: Washington Regional Office, Water Quality Washington Regional Office, Groundwater Groundwater Section, Jack Floyd

ENSCI, Bruce Braswell

EN		
ENGINEE	RING GR	OUP, P.A.

nittal memo 7671 # of pages >
From B. Braswell
CO. ENSCI
Phone #
Fax #

April 6, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Guy Pierce NCDEHNR-Groundwater Section Washington Regional Office Washington, North Carolina

RE: Proposed Schedule for Implementation of Remedial Action Plan for the Hackney & Sons, Inc. Site, Washington, North Carolina

Dear Mr. Pierce:

Per your letter dated March 26, 1993, a schedule has been prepared for the implementation of the Remedial Action Plan for the Hackney & Sons, Inc. facility located at 400 Hackney Ave. in Washington, North Carolina. The proposed schedule is as follows:

- Begin construction 2 weeks after approval of a nondischarge permit
- End construction 4 weeks after permit approval
- Buildup biomass in the bioreactor from 4-6 weeks after permit approval
- Begin remediation of contaminated groundwater 6 weeks after permit approval.

If you require further information or have any questions, please contact me, or Steve Stadelman, at ENSCI Corporation.

Sincerely,

k

Bruce K. Braswell, P.G. Senior Hydrogeologist ENSCI Corporation, Inc.

cc: Jay Witte

F (919) 882-7958

### GROUNDWATER FIELD/LAB FORM

## North Carolina

Department of Environment, Health, and Natural Resources
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

County Beaufort		Lab Number 8 261442
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WSRO, Kinston FO, Other	2011 Souble	Date Reported: 1113(5)
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Collector(s): Peace Date 10/26/92 Time 15  FIELD ANALYSES Owner	Purpose: Baseline, Com	plain, Compliance, LUST, Other
FIELU ANALYSES Owner _	Wells Salvage Yar	T (circle one)
pH ₄₀₀ Spec. Cond. 94 at 25° C Location	or site 301 New Be	In Street, Washington NC 27889
Temp. ₁₀ Description	on of sampling point Composition	= Soil Sample from 3 spots
Appearance Taste Sampling	Method auger (Pump, b	ailer, etc.) Sample Interval
Field Analysis By: Heritarks		(pumping lime, air temp. etc.)
LABORATORY ANALYSES		Annual language of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the propert
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COD High 340 mg/l Flouride 951	mg/l Al - Aluminu	
COD Low 335 mg/l Hardness: Total 900		
Coliform: MF Fecal 31616 /100ml Hardness (non-carb	) 902 mg/l Ca - Calcium	
Coliform: MF Total 31504 /100ml Phenois 32730	ug/l Cd - Cadmiu	m 1027 ug/l Acid Herbicides
TOC 680 mg/l Specific Cond. 95	uMhos/cm ² Chromium: 1	otal 1034 ug/l X TPH .
Turbidity 76 NTU Sulfate 945	mg/l Cu - Copper	1042 ug/l Base/Neutral Extractable Organics
Sulfide 745	mg/l Fe - Iron 104	5 ug/l Acid Extractable Organics
	Hg - Mercury	
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Alkalinity to pH 4.5 410 mg/l	Mg - Magnes	
Alkalinity to pH 8.3 415 mg/l	Mn - Mangar	
Carbonate 445 mg/l	Na - Sodium	
Bicarbonate 440 mg/l NH3 as N 610	mg/l Ni - Nickel 10	
Arsenic: Total 1002 ug/l TKN as N 625	mg/l Pb - Lead 10	
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Chloride 940 mg/l P: Total as P 665	mg/l Zn - Zinc 109	225 025 Ua/ 1 ( )
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Lab Comments:		Ι, Α
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### BHNR/DBN LABORATORY VOLATILE ANALYTICAL REPORT

LAB NO. 2G 1442

REPORTED BY CHECKED BY REVIEWED BY

SUPERVISOR DATE DATE CHECKED BY S

SAMPLE TYPE: SEDIMENT

### ANALYSIS RESULTS

	VOA TARGET COMPOUND	TQL ug/Kg	DRTRCTED ug/Kg	CAS#	VOA TARGET COMPOUND	TQL ug/Kg	DETECTED ug/Ka
75-35-4	1,1-Dichloroethene	4.5	Ŭ	96-18-4	1,2,3-Trichloropropane	1 C	11
75-09-2	Methylene Chloride	1.5	Ţ.	108-86-1	Bromobenzene	1.5	U
156-60-5	trans-1,2-Dichloroethene	4.5	U	95-49-8	2-Chlorotoluene	6 1.5	U
75-34-3	1,1-Dichloroethane	1.5	31 K	106-43-4	4-Chlorotoluene		Ü
590-20-7	2,2-Dichloropropane	1.5	JI N	541-73-1	1,3-Dichlorobenzene	1.5	U 
156-59-4	cis-1,2-Dichloroethene	1.5	. <b>U</b>	106-46-7	1,4-Dichlorobenzene	1.5	Ŭ 
67-66-3	Chloroform	1.5	U	95-50-1	1,2-Dichlorobenzene	1.5	U
74-97-5	Bromochloromethane	4.5	U U	96-12-8		1.5	U
71-55-6	1,1,1-Trichloroethane	1.5	78 B		1,2-Dibromo-3-Chloropropane		U
563-58-6	1,1-Dichloropropene	1.5		120-82-1	1,2,4-Trichlorobenzene	1.5	Ŭ
56-23-5	Carbon Tetrachloride		IJ	87-68-3	Hexachlorobutadiene	1.5	Ŭ
		4.5	IJ	87-61-6	1,2,3-Trichlorobenzene	4.5	Ŭ
107-06-2	1,2-Dichloroethane Trichloroethene	1.5	U :	1634-04-4	Methyl-tert-butyl ether	30	Ū
79-01-6		1.5	Ŭ 	71-43-2	Benzene	6	Ŭ
78-87-5	1,2-Dichloropropane	1.5	Ū	108-88-3	Toluene	6	Ŭ
75-27-4	Browodichloromethane	1.5	Ŭ	100-41-4	Ethyl benzene	6	U
74-95-3	Dibromomethane	6	U	108-38-3	m,p-Xylenes	6	IJ
061-01-5	cis-1,3-Dichloropropene	1.5	IJ	95-47-6	o-Xylene	6	U
061-02-6	trans-1,3-Dichloropropene	1.5	Ū	100-42-5	Styrene	6	: U
79-00-5	1,1,2-Trichloroethane	1.5	IJ	98-82-8	Isopropylbenzene ·	6	i day u
127-18-4	Tetrachloroethene	1.5	- U	103-65-1	n-Propylbenzene	6	· Mar son U
142-28-9	1,3-Dichloropropane	1.5	Ũ	108-67-8	1,3,5-Trimethylbenzene	· 6 ·	<b>U</b>
124-48-1	Dibromochloromethane	4.5	A	98-06-6	tert-Butylbenzene	6	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
106-93-4	1,2-Dibromoethane	6	, U	95-63-6	1,2,4-Trimethylbenzene	6	tan and
108-90-7	Chlorobenzene	1.5	V	135-98-8	sec-Butylbenzene	6	The Committee of the
630-20-6	1,1,1,2-Tetrachloroethane	1.5	· _ U	99-87-6	p-isopropyltoluene	6	U
75-25-2	Bronoform	6 -	Ŭ	104-51-8	n-Butylbenzene	6	which is \$\textstyle{\textstyle{\psi}}\$
79-34-5	1,1,2,2-Tetrachloroethane	4.5	Ū	91-20-3	Naphthalene	6 -	in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of
	GASOLINE RANGE E	STINATED TO	TAL PETROLEUM HY	DROCARBON	TQL 10 PPN DETECTED	< 5 PP	W .
TQL-	Target Quantation Limit- Su	•			eables detected		* Detected
	change due to instrument se			(up to 10)	highest peaks)	,	ug/Kg 🔒 🔉
: <u>T</u> -	Tentatively Identified, not	confirmed		•		•.	
<u> </u>	Bstimated Value				E ORGANIC COMPOUNDS DETECTED		A TORREST
IJ-	Samples analyzed for this c			BY GC/PID			<u> </u>
	not detected				The same of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st		hada baylayan da quiqib),
И-	Sample not analyzed for thi						rajetajaja wei Ma
D-	Detected below quantitation GC/NS Analysis performed	limit				~ _	- respective - which
M	GC/NS Analysis performed		A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	<u> </u>	et el militario de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la c	<u> </u>	7、410年1月1日日本
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CONNENTS:		· ·					

### SEMIVOLATILE ORGANICS REPORT - DEM LAB

LAB NUMBER:2G1442

SUPERVISOR REK DATE: 11/16/92

LAB #:2G1442

REPORTED BY WO CHECKED BY REVIEWED BY

ENTERED BY CHECKED BY

SAMPLE TYPE:	SEDIMENT	DILUTION	FACTOR:	
CAS NUMBER	TQL ANA	ALYTE NAME		UG/KG
108-95-2 111-44-4 95-57-8 541-73-1 106-46-7 100-51-6 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 67-72-1 98-95-3 78-59-1 88-75-5 105-67-9 65-85-0 111-91-1 120-83-2 120-82-1 91-20-3 106-47-8 87-68-3 59-50-7 91-57-6	TQL AN. X 20 660 PHENOL 660 BIS(2-660 2-CHLO 660 1,3-DI 660 1,4-DI 1300 BENZYL 660 2-METH 660 BIS(2-660 4-METR 660 HEXACH 660 ISOPHO 660 2-NITR 660 2,4-DI 660 ACENAF 660 2,4-G-660 2,4-G-660 2,4-G-660 2,4-G-660 2,4-G-660 2,4-G-660 2,4-G-660 2,4-DI 660 ACENAF 660 2,4-DI 660 ACENAF 660 2,4-DI 660 ACENAF 660 2,4-DI 660 DIBENZ 660 2,4-DI 660 DIETH 660 DIETH 660 DIETH 660 DIETH	CHLOROETHYL) E ROPHENOL CHLOROBENZENE CHLOROBENZENE CHLOROBENZENE ALCOHOL CHLOROBENZENE YL PHENOL CHLOROISOPROPY YL PHENOL OSO-DI-N-PROPY LOROETHANE ENZENE RONE O PHENOL METHYL PHENOL C ACID CHLOROETHOXY) CHLORO PHENOL TRICHLOROBENZE ILOROBUTADIENE ILOROBUTADIENE ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLORO PHEN ILOROCYCLOPENTA TRICHLOROCYCLOPENTA TRIC	THER UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	CONC. UG/KG
86-73-7 100-01-6 534-52-1	3300 4-NITF 3300 4,6-DI		ر المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم المستقدم ا	J. Carlot
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### SEMIVOLATILE ORGANICS REPORT - DEM LAB

	101-55-3       660         118-74-1       660         87-86-5       3300         85-01-8       660         120-12-7       660         84-74-2       660         206-44-0       660         129-00-0       660         85-68-7       660         91-94-1       1300         56-55-3       660         218-01-9       660         117-81-7       660         117-84-0       660         205-99-2       660         50-32-8       660         193-39-5       660         53-70-3       660         191-24-2       660	N-NITROSODIPHENYLAMINE 4-BROMOPHENYL PHENYL ETHER HEXACHLOROBENZENE PENTACHLORO PHENOL PHENANTHRENE ANTHRACENE DI-N-BUTYL PHTHALATE FLUORANTHENE PYRENE BUTYLBENZYL PHTHALATE 3,3'-DICHLOROBENZIDINE BENZO(A)ANTHRACENE CHRYSENE BIS(2-ETHYLHEXYL) PHTHALATE DI-N-OCTYL PHTHALATE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE BENZO(A)PYRENE INDENO(1,2,3-CD)PYRENE DIBENZO(A,H)ANTHRACENE BENZO(G,H,I)PERYLENE  ORGANICS FOR SAMPLE NUMBER:  ( C8.H4 O3 )	U U U U U U U U U U U U U U U U U U U
	RESOLVED OR IDENTI	Y GC/MS INDICATES A MASS OF CALS WHICH COULD NOT BE FIED. CONCENTRATIONS WERE TIO TO A KNOWN INTERNAL IN THE RANGE OF:	3500000
5			
13	E= ESTIMATED CONCE U= COMPOUND ANALYZ N= COMPOUND NOT AN D= DETECTED BELOW H= HOLDING TIME EX	NTIFIED ESTIMATED CONCENTRAT: NTRATION ED FOR NOT DETECTED	

### GROUNDWATER FIELD/LAB FORM

## North Carolina Department of Environment, Health, and Natural Resources DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION

County Beautort  Quad No. N 20 f Serial No. N/A	CHAIN OF OUR	-	Lab Number	8 2G 1309
Quad No. NZO F Serial No. N/A	SAMPLE PRIORIES	TODY		ed 10-8-12 Time 9:15
LatLong				
Long.	ROUTINE EMERGE	ENCY / /		From: Bus-Courier
Report To: ARO, FRO, MRO, RRO, WaRO, Wil	RO \	Sample	Other	y: JA ck. DS
WSRO, Kinston FO, Other	Coil		Date Benert	ed: Java 20, 93
Shipped by Rus Courier Other	_		•	<i>)</i>
Collector(s): Prayce Date 10/7/	92 Time //: 30 Burn	aca: Pacalina Camplaint Co		OT Other
Collector(s): PCATCE Date 10/7/ FIELD ANALYSES  PH400 Spec. Cond. 04	Owner Jalaha C	ose. baseline, Complaint, Co	mpliance, LU	51, Other
PH 400Spec. Cond. 94	et:250 C Location or site 2 0'7	No. 2 Born Str.	st West	hington, NC 27889
Temp. ₁₀ °C Odor			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	on 3 ares of stained soil
	Sampling Method Out	CON CONTRACTOR	when its	Sample Interval A = 12" 316
Appearance Taste Field Analysis By:  LABORATORY ANALYSES	Remarks	(Pump, bailer, etc.)		Sample Interval O -/2" BLS
LABORATORY ANALYSES	7.07100		e, air temp. etc.)	
BOD ₅ 310 mg/l	Diss. Solids 70300 mg/l	Ag - Silver 1077	1	LOrganophicia D. Cill
COD High 340 mg/l	Flouride 951 mg/l	Ag - Silver 1077  Al - Aluminum 1105	ug/l	Organochlorine Pesticides Organophosphorus Pesticides
COD Low 335 mg/l	Hardness: Total 900 mg/l	Ba - Barium 1007	ug/l ug/l	Nitrogen Pesticides
Coliform: MF Fecal 31616 /100ml	Hardness (non-carb) 902 mg/l	Ca - Calcium 916	mg/l	Minogen resticides
Coliform: MF Total 31504 /100ml	Phenols 32730 ug/l	Cd - Cadmium 1027	ua/l	Acid Herbicides
TOC 680 mg/l	Specific Cond. 95 uMhos/cm ²	Chromium: Total 1034		TPH (EPA 9071)
Turbidity 76 NTU	Sulfate 945 mg/l	Cu - Copper 1042	ug/l	Base/Neutral Extractable Organics
	Sulfide 745 mg/l	Fe - Iron 1045	ug/l	Acid Extractable Organics
	Oil & Greece 1300 mg/	Hg - Mercury 71900	ug/l	TCLP (Metals) *
pH 403 units	9.	K - Potassium 937	mg/l	Purgeable Organics (VOA bottle)
Alkalinity to pH 4.5 410 mg/l		Mg - Magnesium 927	mg/l	i organico (vorroctile)
Alkalinity to pH 8.3 415 mg/l		Mn - Manganese 1055		1,2 - Dibromœthane (EDB)
Carbonate 445 mg/l		Na - Sodium 929	mg/i	
Bicarbonate 440 mg/l	NH3 as N 610 mg/l	Ni - Nickel 1067	ug/l	PECELLE
Arsenic: Total 1002 ug/l	TKN as N 625 mg/l	Pb - Lead 1051	ug/l	RECEIVED
Carbon dioxide 405 mg/l	NO ₂ + NO ₃ as N 630 mg/l	Se - Selenium 1147	ug/l	<b>JAN</b> 5 1998
Chloride 940 mg/l	P: Total as P 665 mg/l	Zn - Zinc 1092	ua/l	
Chromium: Hex 1032 ug/l				CONTROL BRANCI
Color: True 80 Pt-Co				RANCI
Cyanide 720 mg/l	•			WOUNTER SECTION
ab Comments: * Sample Disco	and so If of	MAI inter	(a.	GRUUNDWATER SECTION RANCI
- A Somple Susce	mary few to	ne 451 /0/26/	1	
			- 126 P	
W E4 DEV 2/00			100	
GW-54 REV. 3/92 For Dissolved Analysis - sub	omit filtered sample and write "DIS" in block Central Office Yellow Copy - Fina	l Office Pink Conv - Cer	<del></del>	Goldenrod Copy - Lab



sent 7/23/90

## State of North Carolina Department of Environment, Health and Natural Resources

Northeastern Region 1424 Carolina Avenue, Washington, North Carolina 27889

James G. Martin, Governor William W. Cobey, Jr., Secretary

Lorraine G. Shinn Regional Manager

### DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION

July 24, 1990

Mr. Keith Hackney Hackney Industries 400 Hackney Ave. Washington, NC 27889-0880

Dear Mr. Hackney:

Our office received on June 22, 1990, a memo and attachment that states the results of an analysis of one water sample taken by your consultants from your site near the corner of W. 4th and New Bern Streets, Washington. Based on the results of the water sample analysis, levels of hydrocarbon components are below acceptable limits set forth in Title 15A North Carolina Administrative Code Subchapter 2L. This letter is not intended to certify that your site is environmentally clean, but only to advise you of our position. At this time, our office does not require further action at this site based upon information submitted to us by you. Our decision is based upon a preliminary investigation and may change, pending additional information in the future.

Please feel free to call me if you have further questions.

Morar for

Sincerely,

Robert Tankard

Environmental Engineer

Sent to Pullingh POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM 1/23/20

	1. Incldent #	TYPE OF ACTION			onmental Managemer DWATER SECTION		
	Emergency Response     Compliance Investigation	3. Complaint Investig 4. Routine Inventory	gation	6 Other:	ik		
Ľ	A POTENTIAL HAZARDS: 1 Toxic Cher	nicals 2. Radioactivity	3. Alr Emmissions	4. Explosives	5. Fire		
		INCIDENT DESCRIPTION	NC	-			
Γ	Incident Location/Name HACKNE	EY IN ICHTRIFE.					
Address CORNER OF NEW BERN & IN 1/17H							
	WASHINGTON	County BEALL FOR	Reg	gion WARC	)		
		HOE OPERATE	IR CRACI	ED WA	ESURIZED		
В	SUCTION LINE, PRI	OR TO TANK	- TIGHTA	JES- TE	5T		
					•		
	Date Incident If L.U.S.T., How Occurred or Leak Was Detected		5. Interstitiol N	10nitoring 8. C	other		
	Occurred or Leak Was Detected	2. Vapor Montforing	6. Tank Remo				
	5/17/90	3. GW Monitoring	(2) Tightness Te	est			
		<ol> <li>Contractor who tig detection system.</li> </ol>	htness tested, remo	oved tank, or instal	led leak		
	<del></del>	PERSON REPORTING INCI	DENT				
	Company/Agency / A C/A / C	NEY	Date	211/190	T75:55		
С	REPORTED BY: (1) Tank owner/opera	tor 2. Government agency	3. Private (3rd)		phone		
	4. Facility owner (No		o. r iivale (sia)	parry			
		RECOMMENDED ACTIO	ON				
	(MULTIPLE CHOICES POSSIBLE)  1.) Investigation complete	altiate/complete cleanup	5. Drilling suppor	t 7. Con	firm leak		
		ong-term remedial action	6. Issue NOV		itoring plan		
İ	Comments / 10 (U \//	OF POTENTIA	11.4 MAI	TAUNINA	(F1) Sall		
D	NAS PLACED IN HOPE	EP+TRUCK	00 , 000	[[], [], [], []			
	CLEANUP LEAD	esponsible Party		Site Pric			
T	D.E.M. Regional Contact	Signoture Signoture	4404	Pate	, ,,,,		
	LEANN MORAN	Heams	WWWM	Juli	123,1990		
₩-6	ol Revised 5/89	U		1 11 30	<del> </del>		

### POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

···			UIANIS INVOLVE			
į.		TANK CAPA	CITY	_		ECOVERED >
		IMPACT	ON SURFACE WA	TERS		
WATERS AFFECTED	1. Yes	(2.No	3. Potentially		istance to Stream(ft)	
Fish Kill 1. Yes		A 11 1		S	tream Class	
		IMPACT ON I	ORINKING WATER	SUPPLIES	_	
WELLS AFFECTED	ì. Yes	@No	3. Potentially	No. of Well Affected	No. of Wells Potentially Affected	đ
Population:Served By Affected Wells						Bedrock
	GASOUNE  WATERS AFFECTED  Fish Kill 1. Yes  WELLS AFFECTED  Population Served	Fish Kill 1. Yes  WELLS AFFECTED 1. Yes  Population Served	IMPACT  WATERS AFFECTED  1. Yes  2. No  Name of Street  PAMU  WELLS AFFECTED  1. Yes  2. No  Population Served  Estimated Population	TANK CAPACITY  1 S OOG Sul  WATERS AFFECTED  1. Yes  2. No  Name of Stream  PAMUCO RIVER  IMPACT ON DRINKING WATER  WELLS AFFECTED  1. Yes  2. No  2. No  3. Potentially  Fish Kill  1. Yes  2. No  2. No  3. Potentially  Estimated Population Served By	IMPACT ON SURFACE WATERS  WATERS AFFECTED 1. Yes 2. No 3. Potentially  Fish Kill 1. Yes 2. No PAMUCO RIVER  IMPACT ON DRINKING WATER SUPPLIES  WELLS AFFECTED 1. Yes 2. No 3. Potentially  Estimated Population Served By Aquifer(s) B	IMPACT ON SURFACE WATERS  WATERS AFFECTED  1. Yes  2. No 3. Potentially  Fish Kill  1. Yes  2. No  Mame of Stream PAMUCO RIVER  IMPACT ON DRINKING WATER SUPPLIES  WELLS AFFECTED  1. Yes  2. No  No. of Wells Potentially Affected  Population Served  Estimated Population Served By  Aquifer(s) Being Used

	·	PC	OTENTIAL SOURCE OF POLL	UTION	
	PRIMARY SOURCE OF POTENTIAL POLLUTION (Se	lect one)	PRIMARY POLLUTANT TYPE (Select one)	LOCATION	SETTING
	1. Intentional dump	13. Well	Pesticide/herbicide	1.Facility	1. Residential
	2. Pit, pond, lagoon	14. Dredge spoll	2. Radioactive waste	2. Rallroad	2. Industrial
	3) Leak-underground	15. Nonpoint source	(3) Gasoline/dieset	3. Waterway	③ Urban
	4. Spray Irrigation		4. Heating oil	4. Pipeline	4. Rurai
	5. Land application		5. Other petroleum prod.	5. Dumpsite	
	6. Animal feedlot	,	6. Sewage/septage	6. Highway	
Н	7. Source unknown		7. Fertilizers	7. Residence	
	8. Septic tank		8. Sludge	8. Other	
	9. Sewer line		9. Solid waste leachate	Confirmed Violation	of:
	10. Stockpile		10. Metals	1. 15 NCAC 2L	/
	11. Landfill		11. Other Inorganics	Ye	os No
	12. Spiil-surface		12. Other organics	2. Article 21A Part I	s No
	If other sources, list correspond	onding No's.		3. Article 21A Fart II	s No
	If multiple pollutant types, fi	st corresponding No's.		4. Federal/State U.S.T.	
	If PIRF previously submitted	for Nonprimary Sources	, list Incident No's.	<b>1</b> .	
		·		<u> </u>	

### POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

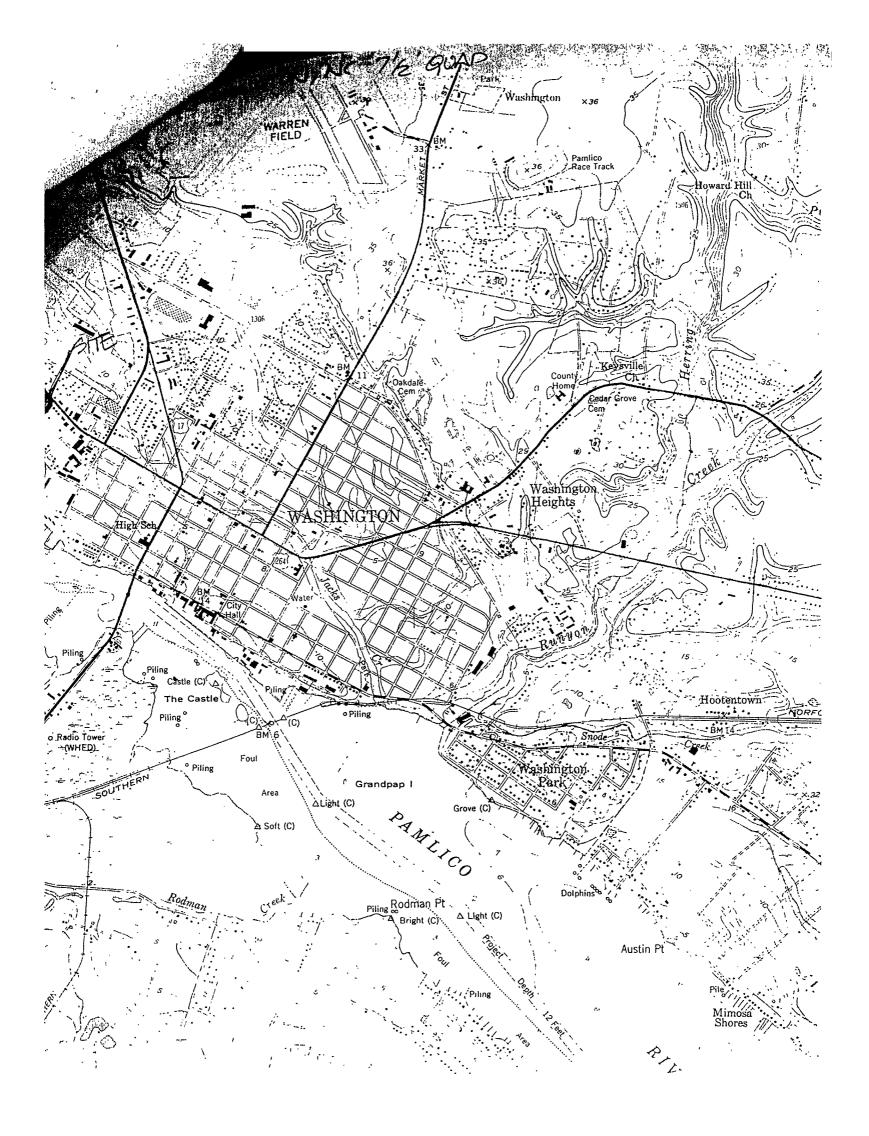
### POTENTIAL SOURCE OWNER-OPERATOR

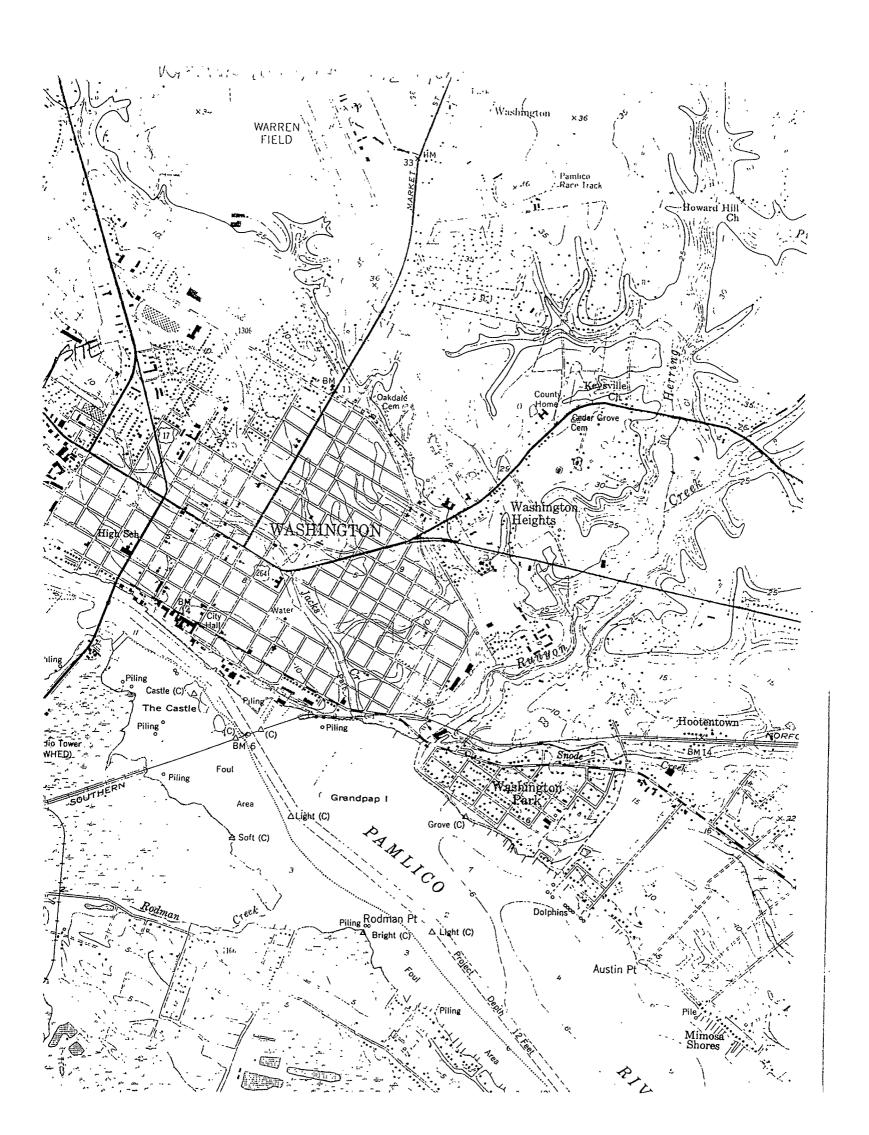
	Potential Squrce. Own	er-Operator HACKNEY				Telephone 919-652/
	Company	INDUSTRIE	5		AGGREKIVELY AL	E
	CITY HINGTON	County	F02T	State	NC	Zip Code 27681-080
1	U.S.T. REGISTÉRED (1.XES	SOURCE/U.S.T. IN USE	PERMIT TYPE	i	OWNERSHIP	OPERATION TYPE
	2. NO	1. N/A (2.)YES	0. N/A		0. N/A	0. N/A
	FACILITY ID# 0-024180	3. NO	1. Non-disch	narge	1. Municipal	1. Public Service
	FEDERAL U.S.T.	SOURCE PERMITTED 1. Yes	2. Oil termin	al	2. Milltary	2. Agricultrural
	DESIGNATION	2.No	3. Landfill		3. Unknown	3. Residential
	(i. Regulated 2. Non-Regulated	PERMIT NUMBER	4. Mining		<b>A</b> Private	4. Educational/Religious
	STATE U.S.T.	SOURCE ON ERRIS LIST	5. NPDES		5. Federal	(5) Industrial
	DESIGNATION	1. Yes 2. No	6. RCRA		6. County	6. Commercial
	1 Commercial 2. Non-Commercial	ERRIS NUMBER			7. State	7. Mining
	U.S.T. LEAK PREVENTION Was tank retrofitted wi		-			REASON FOR INCIDENT  1. Transportation
	1. Yes 2. No	in overill protection?			·	(2. Mechanical failure
	When and by whom?_ Was tank retrolitted wit			···		3. Facility
	1. Yes 2. No				4. Inventory only	
	When and by whom?_ Was tank retrofitted wit	'h cathodic protection'	?			5. Hyman error
	1.Yes 2.No		•			6. Vandalism
	When and by whom?_			<del></del>		7. Unknown

### ACTIONS TAKEN

SUKAPD TIVE GV	ADVISET V + SOIL	D-THEM	TO:	
TOFF OV	V + SOIL	< 11107	14	
MED 116		DAMPLI	-S FROM AF	ROUND ATT WALKS
1/2// 12/	PIT TO	PREVEL	IT BAIN SE	EPAGE
HIMPE	STOPE	1/201	FPITFILLS	SUP'
CONTAC	TAIR	HODGE	ABOUT SOI	L CAH TOLD
HIM TO	SPREAD	SOIL TH	YNCY ON GBH	454 AREA]
SNKARDST	anou F	ZETURNA!	\$ 5/21/90-	TOOK HOO
GAMRÉS.	- BELOW	LIMITS		
P SAMPLE	D H20-	RESULTS	APE BELOW	L'IMITE.
cle Appropriate Respo Samples Taken By:	D.E.M.	2. D.H.S.	& Desponsible Party	4. None
nples Taken Include	f.)Groundwater	<u></u> છે ક્રા	3. Surface Water	
	HIM TO HIM TO HIM TO ANKARD ST  SAMPLES P SAMPLE Cle Appropriate Respector Samples Taken By: Inples Taken Include	nples Taken Include	P GAMPUED HOO - RESULTS cle Appropriate Responses o Samples Taken By: OD.E.M. 2. D.H.S.	AMPLES - BELOW LIMITS  P SAMPLED H20 - RESULTS AFE FELOW  Cle Appropriate Responses o Samples Taken By: D.E.M. 2. D.H.S. Cresponsible Party  Inples Taken Include

7 1/2 Min. Quad Name  . WASHING TON, NC  Five Min. Quad Number  Draw Sketch of Are	Lat.: Deg: Min: Sec: 35°33'70" (N) Long.: Deg: Min: Sec: 77°04'20" (W)
MENTEUN  BY  BY  BY  BY  BY  BY  BY  BY  BY  B	179) Usel. er unlanded
Sketch Should Identify The Following:  1. Pollutant Source(s)  3. Direction of Overland Flow  4. Significant Recharge and Disch  6. North Arrow  7. Scale	Impacted and Threatened Water Supplies  harge Features     S. Relative Physical Structures (roads, buildings, etc.)





(4)

Incident Name HACKNEY INDIKERRIES.
modern Name HACTORY INDUSTRALES
Region/County WARD PLANTONT
Groundwater Incident File # 128
Ranking Performed by MORIN + Date 7/12/9:
TANKARD
NORTH CAROLINA

## GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT SITE PRICRITY RANKING SYSTEM

I.	IMMINE	INT HAZARD ASSESSMENT	Awarded
	a a	Explosion - free product in confined treas or vapor phase product detected to above 20% of the lower explosive imit; award 50 points total	. 0
	ii.	ire - free product subject to ignition n exposed areas such as surface water mpoundments, streams, excavations, etc.; ward 50 points total	_0_
I.	EXPOSU	RE ASSESSMENT	
	A. Co	ontaminated Drinking Water Supplies	. •
	1.	Private, domestic water supply well containing substances in concentrations exceeding Class GA underground water quality standards; award 10 points per well	0
	2.	Public or institutional water supply well containing substances in concentrations exceeding Class GA underground water quality standards; award 30 points per well	0
	3.	Exceedences of Class WS-1 surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	
	4.	If a water supply well identified in items II.A.1 and II.A.2 cannot be replaced by an existing public water supply source requiring hook-up only; award additional 10 points per irreplaceable well	0

GW Contamination Incident Management Site Priority Ranking System page 2

pa	ige z			
	В.	Tì	reat To Uncontaminated Drinking Water Supplies	
		1.	Private, domestic water supply well located within 1500 feet downgradient of contaminant source; award 10 points per well	
		2.	Public or institutional water supply well located within 1/2 mile downgradient of contaminant source; award 15 points per well	0
		3.	Raw surface water intake for public water supply located within 1/2 mile downgradient of contaminant source; award 5 points per water supply system	· <u>O</u>
		4.	If any well identified in items II.B.1 and II.B.2 is located within 250 feet of contaminant source; award additional 20 points total	0
	C.	Vap	or Phase Exposure	
	•	1.	Product vapors detected in inhabitable building(s); award 30 points total	6
		2.	Product vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.); award 5 points total	O
III.	pers:	goriz isten haza	NT HAZARD ASSESSMENT (chemical groups are sed based on toxicity, mobility and see in the environment). Evaluate the rooms substances detected and select only one llowing:	
	Α.	Awan are	d 30 points total if contaminants detected identified with any of the following groups:	<u>30</u>
			Arcmatic (Benzene) Acids Arcmatic Hydrocarbons (Benzene Derivatives) Sulfonated Hydrocarbons Halogenated Hydrocarbons Alkaloids	
			Anilines Phenols	
			Aldehydes	
		9.	Ketones	
			Organic Sulfur Compounds (Sulfides, Mercaptans)	
	13	l.	Organometallic Compounds	

GW Contamination Incident Management Site Priority Ranking System Page 3

- 12. Cyanides
- 13. Esters
- 14. Metal Salts, Including Heavy Metals
- B. Award 20 points total if contaminants detected are identified with any of the following groups:
  - 1. Aliphatic (Fatty) Acids
  - 2. Alcohols
  - 3. Aliphatic Hydrocarbons (Petroleum Derivative)
  - 4. Pyridines
  - 5. Thiocyanides
  - 6. Mineral and Metal Acids
  - 7. Mineral and Metal Bases
  - 8. Oxides
  - 9. Sulfides
- C. Award 10 points total if contaminants detected are identified with any of the following groups:
  - 1. Aliphatic Amines and Their Salts
  - 2. Sugars and Cellulose
  - 3. Carbon and Graphite

### IV. SOURCE ASSESSMENT

- A. Free product thickness of  $\geq 1/4$  inch detected on water table in observation or monitoring well; award 20 points total
- B. Contaminated Soil (select only one answer)
  - Soil saturated with product (saturation determined by release of free liquid upon compaction of a soil sample by hand pressure); award 10 points total
  - 2. Soil exhibiting organic vapor content above 100 ppm as measured by organic vapor or volatile organic detection equipment; award 5 points total
- C. Uncontrolled or Unabated Primary Source (including dumpsites, stockpiles, lagoons, land applications, septic tanks, landfills, underground and above ground storage tanks, etc.)

GW Contamination Incident Management Site Priority Ranking System Page 4

> Suspected or confirmed source remains in active use and continues to receive raw product, wastewater or solid waste; award 20 points per source

 $\bigcirc$ 

2. Active use of suspected or confirmed source has been discontinued or source was caused by a one-time release of product or waste, however, source continues to release product or contaminants into the environment; award 10 points per source

 $\bigcirc$ 

### V. ENVIRONMENTAL VULNERABILITY ASSESSMENT

A. Vertical Contaminant Migration - Literature or well logs indicate that no confining layer is present above bedrock or above twenty feet below land surface; award 10 points total

10

B. Horizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer discontinuities exist between the source and the nearest downgradient drinking water supply; award 10 points total

10

C. Hydraulic Gradient Is Determined By (select only one answer):

measurements; award 10 points total

2. Observation of significant recharge/discharge features in the vicinity of contaminant source and local topographic features; award 5 points

Calculations based on groundwater level

0

3. Observation of local topographic features only; award 0 points

 $\bigcirc$ 

- D. Existing Groundwater Quality
  - Analytical test(s) performed on groundwater sample(s) obtained from site confirm presence of substances in concentrations exceeding Class GA underground water quality standards; award
     points total

0

2. Source(s) identified in Section IV constitute the only known source(s) of contamination resulting in exposure or potential exposure identified in Section II; award 10 points total

55)



### Industrial & Environmental Analysts, Inc.-

P.O. Box 12846 Research Triangle Park, North Carolina 27709 (919) 677-0090

FAX (919) 677-0427

RECEIVED WASHINGTON OFFICE

June 13, 1990

JUN 22 1990

D. E. M.

Keith Hackney Hackney & Sons 400 Hackney Ave. Washington, NC 27889

Reference IEA Report No.: 950001

Dear Mr. Hackney

Transmitted herewith are the results of analyses on one sample submitted to our laboratory.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Linda F. Mitchell

Director, Technical Support Services

State Certification:

Alabama - #40210 Georgia - #816

New Jersey - #67719 Tennessee - #00296

South Carolina - #99021 North Carolina - #37720

Kansas - #E-158

Virginia - #00179

#84



## PURGEABLE AROMATICS EPA METHOD 602 COMPOUNDS

IEA Sample Number:

950-001-1

Sample Identification:

Test Well

Date Analyzed:

05/29/90

By: Averill

	•	Quantitation Limit	Results Concentration
Number	Compound	(ug/L)	(ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

### Comments:

BQL '= Below Quantitation Limit

FORM 602 Rev. 050589

rain t		$\overline{}$		
COUNTY BODIET	N.C. DEPAL/MENT OF NA	TURAL RESOURCES	LAB NUMBEI	R 8 (7474
QUAD NO. NZU SERIAL NO.				IVED 5 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2
LAT LONG	DEM	( ) )	7	From: Bus-Courier
Report to: ARO, FRO, MRO, RRO, WARO, W	GROUNDWATER FIEL	D/LAB FORM	Other	
$\sim$	SAMPLE PRI	ORITY \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DATA ENTR	Y BY: 1)H CK:
WSRO, Kinston FO Other	ROUTINE D	ENERGERON		DRTED: 7-13-90
Shipped by: Bus, Courier Other	- CHAIN OF	CHSTUDY		
WSRO, Kinston FO Other  Shipped by: Bus, Courier Other  COLLECTOR(S): R. TANKAN L DATE S	-21-90 TIME 10150 PURE	POSE: BASELINE, COMPLAINT,	COMPLIANO	CE, LUST OTHER
FIELD ANALYSES	Owner HACKney A.	n Lsons		
pH ₄₀₀ Spec. Cond. ₉₄ at 25 ^o c		on HACKney property	be then	U.S.Hu-, Z4 V De Man Senstree 1
Temp. ₁₀ oc Odor WA	Description of sampling point	Standing Water in W	15 t 64C1	A VALO DE
Appearance CleArTaste	Sampling Method Grab	•	Sample Int	1090
Field Analysis By: B. Towl	(pump, ba	ailer, etc.)	= cample int	et/On
Field Analysis By: 12 - 7 - 100 - 07	Hemarks		(pumping ti	me, air temp, etc.)
LABORATORY ANALYSES				me, lair temp, etc.)
BOD ₅ 310 mg/l	Diss. Solid\$ 70300 mg/l	Ag - Silver 1077	ug/I	Organo Rovine Re Aleides
COD High 340 mg/l	Fluoride 951 mg/l	Al - Aluminum 1105	ug/i	Organophosphorus Pesticides
COD Low 335 mg/l	Hardness:Total 900 mg/l	Ba - Barium 1007	ug/l	
Collform:MF Fecal 31616 /100ml	Hardness (non-carb) 902 mg/l	Ca - Calcium 916	mg/I	Acid Herdicides
Coliform:MF Total 31504 /100ml	Phenois 32730 ug/i	Cd - Cadmium 1027	ug/l	
TOC 680 mg/l	Specific Cond. 95 uMhos/cm ²	Chromium:Total 1034	ug/l	Base / Neutral Extractable Organics
Turbidity 76 NTU	Sulfate 945 , mg/l	Cu - Copper 1042	ug/l	Acid Extractable Organics
	Sulfide 745 mg/l	Fe - Iron 1045	ug/l	
		Hg - Mercury 71900	ug/I	Purgeable Organics (VOA bottle)
pH 403 units		K - Potassium 937	mg/l	
Alkalinity to pH 4,5 410 mg/l		Mg - Magnesium 927	mg/l	1,2 - Dibromoethane (EDB)
Alkalinity to pH 8.3 415 mg/l		Mn - Manganese 1055	ug/I	
Carbonate 445 mg/l		Na - Sodium 929	mg/i	
BicarLonate 440 mg/l	NH ₃ as N 610 mg/l	Ni - Nickel 1067	ug/l	
Arsenic:Total 1002 ug/l	TKN as N 625 mg/l	Pb - Lead 1051	ug/1	
Carbon dioxide 405 mg/l	NO ₂ + NO ₃ as N 630 mg/l	Se - Selenium 1147	ug/l	SEE ATTACHED ORGANICS
Chloride 940 mg/l	P:Total as P 665 mg/l	Zn - Zinc 1092	ug/l-	ANALYSIS REPORT
Chromium:Hex 1032 ug/l				WASHINGTON OFFICE
Color:True 80 Pt-Co				
Cyanide 720 mg/l				.JIII 1 9 <u>19</u> 90
Lab Comments:	***************************************			
				h E. M.

### VOLATILE ANALYTICAL REPORT

LAB NO.	0G474		
REPORTED BY .	^r H	·	ENTERED BY DA
CHECKED BY	akc_		CHECKED BY
REYIEWED BY	all	, ,	
SUPERVISOR	REK	DATE 7/11/90	
SAMPLE TYPE:	WATER		
		ANALYSIS RESULTS	
STORET NO.	COMPOUND	,	CONCENTRATION
	NO YOLATILE OI	RGANIC COMPOUNDS DETECTED BY (	GC/ELCD.

81576 ETHYL ETHER 3.6 UG/L T,E

METHYL TERTBUTYL ETHER 1300 UG/L E

34030 BENZENE 15 UG/L T,E

81551 O-XYLENE 10 UG/L T,E

FIYE UNIDENTIFIED PEAKSDETECTED BY GC/PID.

METHYL TERTBUTYL ETHER CONFIRMED BY GC/MS.

T- TENTATIVE IDENTIFICATION E-ESTIMATED QUANTITATION

4	:		$\Delta \alpha / \alpha \sim$
DÜNTY BEAUFORT	N.C. DEPARIMENT OF NA	ATURAL RESOURCES LAB NI	JMBER 8 05415
JAD NO. NO SERIAL NO.	& COMMUNITY DE		RECEIVED 5/22/90 Time 9.0
T LONG		/ _ \=	
LONG.	DEM	IOTODY ( A ) Rec'd	by: From: Bus-courier
port to: ARO, FRO, MRO, RRO, War	OWIRO, CHAIN OF CH	Other Other	
SRO, Kinston FO Other	SAMPLE PRI	ORITY COLUMN	ENTRY BY: A CK:
	IXI POLITINE 1 I	EMERGENCY 1 144 / DATE	REPORTED: 7-10-90
ipped by: Bus Courier, Other			
DLLECTOR(S): TANKARD TOWEL DAT	E 3-21-95 TIME 952 PURI	POSE: BASELINE, COMPLAINT, COMP	LIANCE, LUST. OTHER
		(circle one)	The Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Same of the Sa
ELD ANALYSES	OwnerHACKNEY		
400Spec. Cond. 94 at	25°C Location or site CORNER	OF 4TH STREET AND NEW	BERN ST
mp. ₁₀ oC Odor		<i>O</i>	
	Description of sampling point	0.40	13.24 7 6 1 1300
pearance Taste	Sampling Method (pump. ba	ailer, etc.) Sampl	e Interval 1818. BLs
eld Analysis By: TANKARD TOW	Remarks		TER S
<b>BAR</b>		(pump	ing time, air temp, etc.
BORATORY ANALYSES			ing time, air temp, etc.) NOW ATER S
BOD ₅ 310 mg/l	Diss. Solids 70300 mg/l	Ag - Silver 1077 ug/l	Organochlorine Pesticides
COD High 340 mg/l	Fluoride 951 mg/l	Al - Aluminum 1105 ug/i	Organophosphorus Pesticides
COD Low 335 mg/l	Hardness:Total 900 mg/l	Ba - Barium 1007 ug/l	
Coliform:MF Fecal 31616 /100ml	Hardness (non-carb) 902 mg/l	Ca - Calcium 916 mg/l	Acid Herdicides
Coliform:MF Total 31504 /100ml	Phenois 32730 ug/i	Cd - Cadmium 1027 ug/l	
TOC 680 mg/l	Specific Cond. 95 uMhos/cm ²	Chromium:Total 1034 ug/l	Base / Neutral Extractable Organics
Turbidity 76 NTU	Sulfate 945 mg/l	Cu - Copper 1042 ug/l	Acid Extractable Organics
	Sulfide 745 mg/l	Fe - Iron 1045 ug/l	
		Hg - Mercury 71900 ug/l	Purgeable Organics (VOA bottle)
pH 403 units		K - Potassium 937 mg/l	
Alkalinity to pH 4,5 410 mg/l		Mg - Magnesium 927 mg/l	1,2 - Dibromoethane (EDB)
Alkalinity to pH 8.3 415 mg/l		Mn - Manganese 1055 ug/l	
Carbonate 445 mg/l		Na - Sodium 929 mg/l	X TPH (TOTAL PETROLER
BicarLonate 440 mg/l	NH ₃ as N 610 mg/l	Ni - Nickel 1067 ug/l	HYDROCAROW)
Arsenic:Total 1002 ug/i	TKN as N 625 mg/l	Pb - Lead 1051 ug/l	
Carbon dioxide 405 mg/l Chioride 940 mg/l	NO2 + NO3 as N 630 mg/l	Se - Selenium 1147 ug/l	
	P:Total as P 665 mg/l	Zn - Zinc 1092 ug/l-	SEE ATTACHED ORGANICS
	<del></del>	WASHINGTON	ANALYSIS REPORT
Color:True 80 Pt-Co	<del></del>	WASHINGTON OFFICE	ANALISIS ILL SIL
Cyanide 720 mg/l			
Comments:	plit in lab. DS	JUL 13 1990	,

### SEMIVOLATILE ORGANIC REPORT

LAB NO.	0G475		
REPORTED BY	WD CM		CHECKED BY DS
REYIEWED BY SUPERYISOR	Pro REK	DATE 6/13/90	
SAMPLE TYPE:	SEDIMENT	analysis results	
STORET NO.	COMPOUND		CONCENTRATION

NO BASE/NEUTRAL OR ACID EXTRACTABLE ORGANICS DETECTED BY GC/MS.  $^{\circ}$ 

### YOLATILE ANALYTICAL REPORT

LAB NO.	0G475		
REPORTED BY	FWB ENTERED BY DA	_	
CHECKED BY	CHECKED BY		
REYIEWED BY	alc		
SUPERYISOR	REK DATE 7/10/90		
SAMPLE TYPE:	SEDIMENT		
	ANALYSIS RESULTS		
STORET NO.	COMPOUND CONCENTRATION	N	
	NO YOLATILE ORGANIC COMPOUNDS DETECTED BY GC/ELCD.	•	
34237 34483	METHYL TERTBUTYL ETHER       -       66 UC         BENZENE       4.3 UC         TOLUENE       26 UC	G/KG	T
34374	ETHYL BENZENE 8.3 IV		T
45510 45510	M,P-XYLENES 29 UC	3/KG 1	T
45510	0-XYLENE 67 UC 20 UNIDENTIFIED PEAKS DETECTED BY GC/PID	3/KG	
	T - TENTATIVE IDENTIFICATION		

Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other  Shipped by: Bus, Courier Other  COLLECTOR(S): R. TANKAN DATE 5-21-80 T	REMANDED HELDAN ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM RO	LARTODY MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY	Rec'd by: 1.  Other  DATA ENTRY DATE REPORM COMPLIANCE one)	From: Bus Courier  BY: DA CK: DS  RTED: (0-70-90)  E. UST OTHER  WY 264 And New Berns +1
QUAD NO. NO. SERIAL NO.  LAT. LONG.  Report to: ARO, FRO, MRO, RRO, WARO, WIRO, WSRO, Kinston FO Other  Shipped by: Bus, Courier Other  COLLECTOR(S): No. TANKAN DATE 5-21-80 T  FIELD ANALYSES  Owner  PH 400 Spec. Cond. 94 at 25°C Location  Temp. 10 °C Odor NA Descript  Appearance Cland Taste Sampling  Field Analysis By: No. To WM Remarks  LABORATORY ANALYSES  BOD 5 310	REMANDED HELDAN ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM ROUTINE DEM RO	LARTODY MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY  MERGENCY	Rec'd by: 1.  Other  DATA ENTRY DATE REPORM COMPLIANCE one)	From: Bus Courier  BY: DA CK: DS  RTED: (0-70-90)  E. (US: ) OTHER  WY 264 And New Berns +
Report to: ARO, FRO, MRO, RRO, WaRO, WiRO, WSRO, Kinston FO Other  Shipped by: Bus, Courier Other  COLLECTOR(S): **I TANKAN DATE 5-21-90 T  FIELD ANALYSES  Owner  PH 400 Spec. Cond. 94 at 25°C Location  Temp. 10 °C Odor NA Descript  Appearance C(0 n J Taste Sampling  Field Analysis By: **B. TOWW Remarks  LABORATORY ANALYSES  BOD 5 310	REMANDED FILE AND SAMPLE PRIVATE OR SAMPLE PRIVATE OR SAMPLE PURPOS  HACKNEY AND STONE ON STONE OF SAMPLING PUMP, baile  Reserved Forces	MERGENCY MW  SE: BASELINE, COMPLAINT (circle)  SON S  HACKNEY Property  THE BH #1 3 ( B)	Rec'd by: 1.  Other  DATA ENTRY DATE REPORM COMPLIANCE one)	From: Bus Courier  BY: DA CK: DS  RTED: (0-70-90)  E. (US: ) OTHER  WY 264 And New Berns +
Report to: ARO, FRO, MRO, RRO, WARO, WIRO, WSRO, Kinston FO Other  Shipped by: Bus, Courier Other  COLLECTOR(S): F. TANKAN DATE 5-21-80 T  FIELD ANALYSES  Owner  PH400 Spec. Cond. 94 at 25°C Location  Temp. 10 °C Odor NA	ROUTINE DEN  ROUTINE DEN  IME 1840 PURPOS  HACKNEY AND  TOT SITE US 7 ON HI  TOT STORY BANKE  Method Spump, baile  Reserved 46 rece	SE: BASELINE, COMPLAINT (circle)  Son S  HACKNEY Property  The BH #1 318	Other DATA ENTRY DATE REPORT COMPLIANCE De tue_ F	BY: DA CK: DS RTED: 6-20-90  E. UST OTHER  Wy 264 And New Berns +
WSRO, Kinston FO Other  Shipped by: Bus, Courier Other  COLLECTOR(S): R. TANKAY DATE 5-71-80 T  FIELD ANALYSES  Owner _  PH400Spec. Cond. 94 at 25°C Location  Temp. 10 °C Odor NA Descript  Appearance C(0 nd Taste Sampling  Field Analysis By: Remarks  LABORATORY ANALYSES  BOD ₅ 310	IME 1840 PURPOS  HACKNEY AND  or site UST ON H  ion of sampling point Ten  Method Spump, baile  Reserved 46 rece	SE: BASELINE, COMPLAINT (circle)  Son S  HACKNEY Property  The BH #1 318	DATA ENTRY DATE REPORT COMPLIANCE One)	ELUST OTHER
WSRO, Kinston FO Other  Shipped by: Bus, Courier Other  COLLECTOR(S): R. TANKAV DATE 5-21-80 T  FIELD ANALYSES  Owner _  PH400Spec. Cond. 94 at 25°C Location  Temp. 10 °C Odor NA Descript  Appearance C(6 nd Taste Sampling  Field Analysis By: B. Towww Remarks  LABORATORY ANALYSES  BOD ₅ 310	IME 1840 PURPOS  HACKNEY AND  or site UST ON H  ion of sampling point Ten  Method Spump, baile  Reserved 46 rece	SE: BASELINE, COMPLAINT (circle)  Son S  HACKNEY Property  The BH #1 318	DATE REPORT  COMPLIANCE  Cone)	ELUST OTHER
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PH400 —— Spec. Cond. 94 —— at 25°C Location  Temp. 10 —— °C Odor NA Descript  Appearance Clondered Taste Sampling  Field Analysis By: Towell Remarks  LABORATORY ANALYSES  BOD ₅ 310 mg/l Diss. Solids 70:  COD High 340 mg/l Fluoride 951  COD Low 335 mg/l Hardness:Total 9:  Colliorm:MF Fecal 31616 /100ml Phenols 32730	or site UST On Historian of sampling point Tender BA	HACKNEY Property	betue_ h BLS Sample Inte re 5 Margal (pumping tim	rval DECELVENT
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COD Low 335         mg/l         Hardness:Total 9           Colliform:MF Fecal 31616         /100ml         Hardness (non-c           Colliform:MF Total 31504         /100ml         Phenois 32730	300 mg/l	Ag - Silver 1077	ug/l	Organochlorine Pesticides
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Coliform:MF Total 31504 /100ml Phenols 32730	00 mg/l	Ba - Barium 1007	ug/I	DALEICH MC
	arb) 902 mg/l	Ca - Calcium 916	mg/l	ACID Herdicides
TOC 680 mg/l Specific Cond. S	ug/I	Cd - Cadmium 1027	ug/l	
g.	5 uMhos/cm ²	Chromium:Total 1034	ug/l	Base / Neutral Extractable Organics
Turbidity 76 NTU Sulfate 945	mg/l	Cu - Copper 1042	ug/l	Acid Extractable Organics
Sulfide 745	mg/l	Fe - Iron 1045	ug/I	
		Hg - Mercury 71900	U9/I	Purgeable Organics (VOA bottle)
pH 403 units		K - Potassium 937	mg/l	
Alkalinity to pH 4,5 410 mg/l		Mg - Magnesium 927	mg/l	1,2 - Dibromoethane (EDB)
Alkalinity to pH 8.3 415 mg/l		Mn - Manganese 1055	1/gu	
Carbonate 445 mg/l		Na - Sodium 929	mg/I	
Bicartonate 440 mg/l NH ₃ as N 610	mg/l	NI - Nickel 1067	ug/I	
Arsenic:Total 1002 ug/l TKN as N 625	mg/l	Pb - Lead 1051	ug/I	EE ATTACHED ORGANICS
Carbon dloxide 405 mg/l NO2 + NO3 as N	<del></del>	Se - Selenium 1147		ANALYSIS REPORT
Chloride 940 mg/l P:Total as P 665	mg/l	Zn - Zinc 1092	ug/1.	MAN AND AND AND AND AND AND AND AND AND A
Chromium:Hex 1032 ug/l			———————————————————————————————————————	-16/10 OS
Color:True 80 Pt-Co				W 2 170
Cyanide 720 mg/l		<del> </del>		
ab Comments:				En
				•

#### YOLATILE ANALYTICAL REPORT

LAB NO. 0G476

REPORTED BY

ENTERED BY

**CHECKED BY** 

REVIEWED BY

:

SUPERVISOR

SAMPLE TYPE: WATER

**ANALYSIS RESULTS** 

STORET NO.

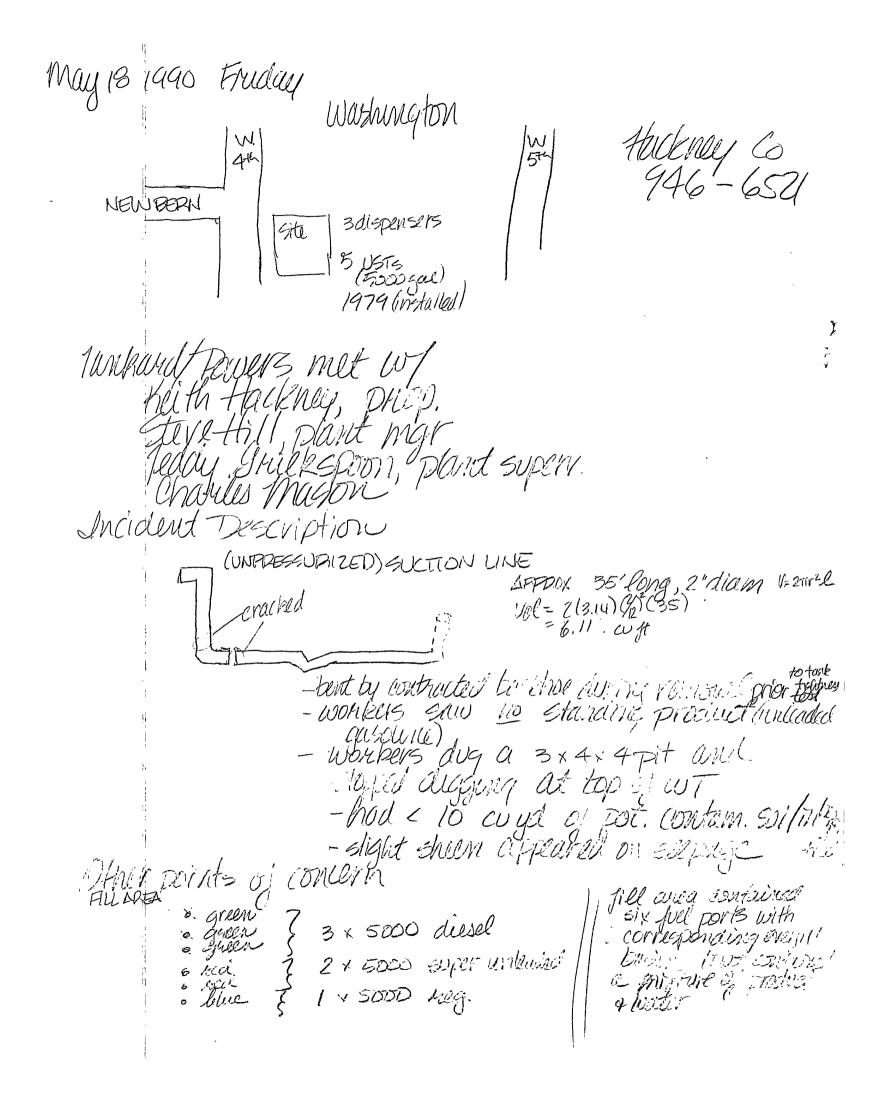
COMPOUND

CONCENTRATION

NO YOLATILE ORGANIC COMPOUNDS DETECTED BY GC/ELCD.

METHYL TERTBUTYL ETHER 12 UNIDENTIFIED PEAKS DETECTED BY GC/PID

360 UG/L



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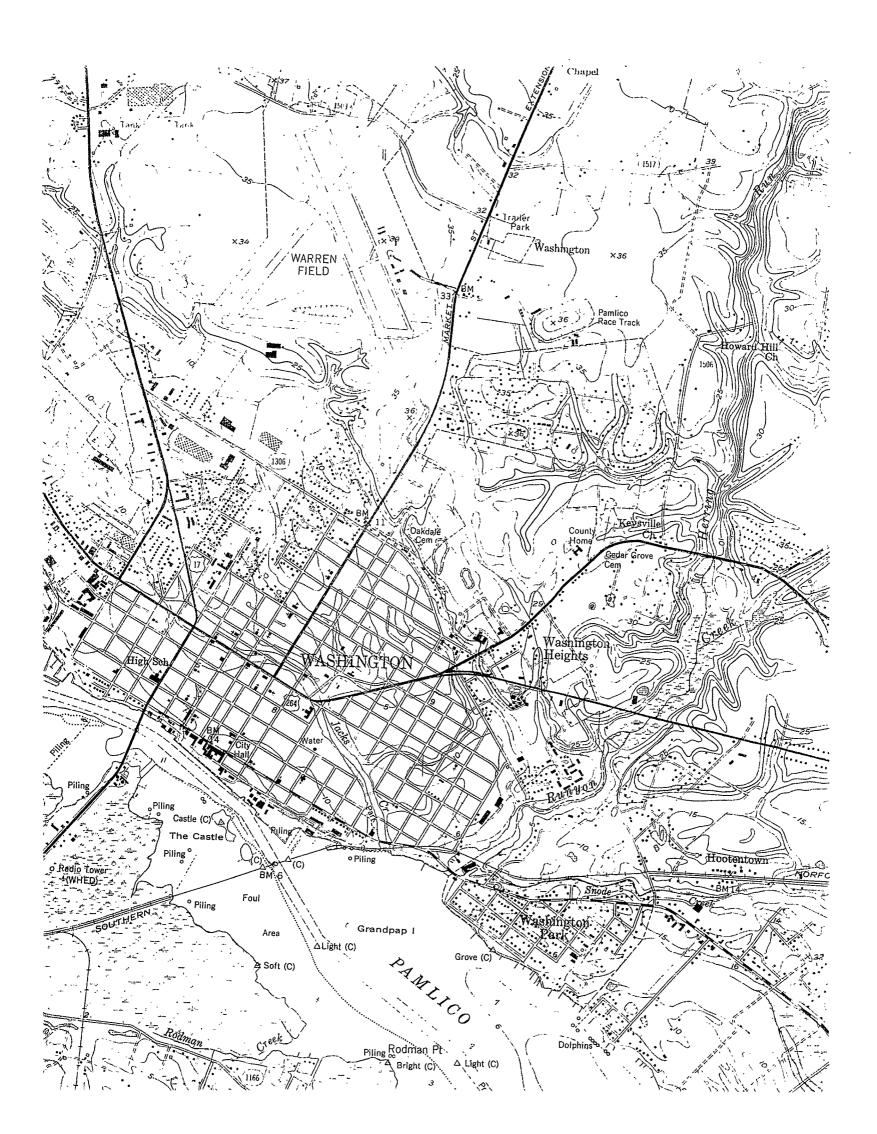
Keith D. Hackney Vice President & General Counsel

400 Hackney Avenue/P.O. Box 880 Washington, North Carolina 27889-0880 Telephone 919-946-6521

# MEMORANDUM FROM: KULH HOVRNEY NAME HACKNEY INDUSTRIES, INC. Leadership In Engineering Technology P. O. Box 880 - Washington, N. C. 27889-0880 Telephone 919-946-6521 FOR: RECEIVED DATE: (1) 21 90

JUN 2 2 1990

Robert - B.E.M. Please find enclosed a copy of Please find enclosed a copy of the test results from our anderground the test results from our anderground storage tank spill at Hackney and storage tank spill at Hackney and shore frelp and shore. Shanks for all your frelp and shore, else is meeded or questions come up else is meeded or questions come up.



# WARD

### Division of Environmental Management GROUNDWATER SECTION

# CHAIN OF CUSTODY RECORD

MAY 25 1990

D. E. M.

For investigation of.	UST OTTO	Incide	nt No	
Samples collected a	nd GW-54 forms completed by;			
Lab Only Quad Lab No. No.	Location	Date	Time	No. of Containers
X-474 N20	HACKNEY & SONS *1	5/21/90	950	1
DG 475 N20	HACKNEY & SONS #2	5/21/9a	952	1 *
16476 M20	HACKNEY & SONS #3	5/21/90	1040	
Y.417 K23	HARRISON AIL CO. #4	5/21/90	1300	1*
19 478 K23	HARRISON OIL CO. #5	5/21/90	1305	1*
26,479 K23	HARRISON OIL (U. #6	56,190	1430	
<u> </u>				
	·			
	,			••
Relinquished by (Sig	nature): Received by (Sig	inature):	.) ~	Date/Time
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Rel.	Rec. by	· · · · · · · · · · · · · · · · · · ·		, ,
Rel.	Rec. by		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
Method of Shipment	: STATE COURIER		$\cap$	
Security Type and (	Seal by: TANKARD  Condition: Lock by: TANKARD	Broken b Open by:	y/ 27/2	Ta Tareno
Lab No.	LAB USE ONLY	11		

			<u> </u>	B USE ONLY		
Lab From	No. Through	No. Containers	Analysis	Relinquished by	Received by	Date / Time
13474			VOH	LOUGH Tundow	and Charles	15-2290 9:21Am
00.415				Dun Saunder		
09476		1		Conna Sandin		1
132,4117	06-478	4	VU1/30,1	Doug muden	One L. Charlle	5-22-90 9:21A
0=41A		i	VOA			15-22-96 9:21 Am
			,*			/
* Sin	nilli -	NI EIK	Jal.			/
18475		' /	Jun Vol	Anne Sander	Chotlo H. to	5-2290/ 9:50
06411	CE-478	2	SUMITION	Origo Sounday	1 2	5-22-9019:50

# Division of Environmental Management GROUNDWATER SECTION

# CHAIN OF CUSTODY RECORD

tigation o	it	5/162		Incide	nt No	· · · · · · · · · · · · · · · · · · ·
collected	and GW-54	forms cor	mpleted by:			
Quad No.		Loca	tion	Date	Time	No. of Containers
Nao	HACK	NEY &S	[ONS #]	5/21/90	950	5 1
NZO	HACKI	VEY 2 S	ONS #2	5/21/90	952	1
120			_	5/21/90	1040	5 1
K23		,	_	5/2/190	1300	2 1
K23				5/21/90	1305	; ]
K23	HARR	120W OK	_ (O, #6	5/21/92	1437	) /
		F	Received by(Signa	iture):		Date/Time /
	,	F	Rec. by			/
Rel. Rec. by						/
Rel. Rec. by				/		
f Shipme	nt: STA	75 Co	IURIER			
Type and	Condition:	Seal hy	THNICARD	Broken b Open by	y:	
		L/	AB USE ONLY			
o. Through		Analysis	Relinquished by	Receiv	ed by	Date / Time
	Collected Quad No.  W20 W20 K23 K23 K23 Fed by(S)  Tarko	Collected and GW-54  Quad No.  W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20 HACK W20	Quad No.  Loca  W20  HACKNEY + S  W20  HACKNEY + S  K23  HARRISON OIC  K23  HARRISON OIC  K23  HARRISON OIC  K23  HARRISON OIC  F  Seal by:  Type and Condition: Lock by:  Loca  No.  No.	Quad No. Location  W2O HACKNEY + SONS +1  W2O HACKNEY + SONS +2  W2O HACKNEY + SONS +2  W2O HACKNEY + SONS +3  K23 HARRISON OIL CO. #4  K23 HARRISON OIL CO. #5  K23 HARRISON OIL CO. #6  Rec. by  Rec. by  Rec. by  Rec. by  Seal by: Tonkard  Seal by: Tonkard  LAB USE ONLY  O. No.	Quad No. Location Date    No.   Location   Date	Collected and GW-54 forms completed by:    Quad No.   Location   Date   Time

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UAD NO. NZO SERIAL NO.	& COMMUNITY DEVE	LOPMENT DATE F	RECEIVED Time
AT LONG	DEM	. (3) Rec'd	by: From: Bus-Courier
	GROUNDWATER FIELD	LAB FORM Other	
eport to: ARO, FRO, MRO, RRO, WaRO	WiBO		ENTRY BY: CK:
SRO, Kinston FO Other	SAMPLE PRIOF	THE DATA	
hipped by: Bus, Courier) Other	ROUTINE E	MERGENCY DATE	REPORTED:
The Walt	5-71-80 1040	os successos courturas cour	LIANOE (USE) OTUES
OLLECTOR(S):/CT/BENCHU-E DATE	5-71-90 TIME 1840 PURPO	SE: BASELINE, COMPLAINT, COMP (circle one)	LIANCE, LUS: JOTHER
IELD ANALYSES	Owner HACKNEY ARE	1 Sons	
	Will The Man	HARKAGE OCCUPETO bette	= Hwy 264 mm & New Berns
Spec. Cond. 94 at	25°C Location or site 200 001	THERENEY PHOPORTY SE CO.	1 1/10 9 LO / AME HOW DOWN
emp. ₁₀ °C Odor _ <i>NA</i>	Description of sampling point 1/6	NA DIT A ( 3. DL3	
ppearance Clandy Taste	Sampling Method Frump, bail Remarks Aurue 4 7472	11 lerSamp	le Interval
ield Analysis By: B. Towell	Remarks Remarks Remarks	er, eic.s re dolumes before 51	Imped in 9
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ABORATORY ANALYSES		· · · · · · · · · · · · · · · · · · ·	
BOD ₅ 310 mg/l	Diss. Solids 70300 mg/i	Ag - Silver 1077 ug/l	Organochiorine Pesticides
COD High 340 mg/l	Fluoride 951 mg/l	Al - Aluminum 1105 ug/l	Organophosphorus Pesticides
COD Low 335 mg/l	Hardness:Total 900 mg/l	Ba - Barium 1007 ug/l	
Coliform:MF Fecal 31616 /100ml	Hardness (non-carb) 902 mg/l	Ca - Calcium 916 mg/l	Acid Herdicides .
Coliform:MF Total 31504 /100ml	Phenois 32730 ug/l	Cd - Cadmium 1027 ug/l	
TOC 680 mg/l	Specific Cond. 95 uMhos/cm ²	Chromium:Total 1034 ug/l	Base / Neutral Extractable Organics
Turbidity 76 NTU	Sulfate 945 mg/l	Cu - Copper 1042 ug/l	Acid Extractable Organics
	Sulfide 745 mg/l	Fe - Iron 1045 ug/I	
		Hg - Mercury 71900 ug/l	Purgeable Organics (VOA bottle)
pH 403 units		K - Potassium 937 mg/l	
Alkalinity to pH 4.5 410 mg/l		Mg - Magnesium 927 mg/l	1,2 - Dibromoethane (EDB)
Alkalinity to pH 8.3 415 mg/l		Mn - Manganese 1055 ug/l	
Carbonate 445 mg/l		Na - Sodium 929 mg/l	
BicarLonate 440 mg/l	NH ₃ as N 610 mg/l	Ni - Nickel 1067 ug/l	
Arsenic:Total 1002 ug/l	TKN as N 625 mg/l	Pb - Lead 1051 ug/l	
Carbon dioxide 405 mg/l	NO2 + NO3 as N 630 mg/l	Se - Selenium 1147 ug/l	
Chloride 940 mg/l	P:Total as P 665 mg/l	Zn - Zinc 1092 ug/l-	
Chromium:Hex 1032 ug/l			
Color:True 80 Pt-Co			
Cyanide 720 mg/l	1 1	1	

LAT. LONG. DEM  Report to: ARO, FRO, MRO, RRO, WRRO, WIRO, WSRO, Kinston FO Other  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  SAMPLE PRIORITY  OATA ENTRY BY: CK: DATA ENTRY BY: CK: CM: CM: CM: CM: CM: CM: CM: CM: CM: CM	QUAD NO. NZO SERIAL NO.	& COMMUNITY DEVE	OPMENT	DATE DECE	IVED Time
Report to: ARO, FRO, MRO, RRO, WERD, WIRO, WARD, Kinston FO Other SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE PRIORITY SO OTHER SAMPLE OTHER SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION O			/ /		
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WSRO, Kinston FO Other SAMPLE PRICRITY SON DATE REPORTED: Shipped by: Bus Couries other COLLECTOR(S): Character Taylor OATE \$2.90 Time \$9.2 PURPOSE: BASELINE, COMPLIANCE, LUST, OTHER (Gircle one) FIELD ANALYSES Owner HASKARY & SON SINC FIELD ANALYSES Owner HASKARY & SON SINC FIELD ANALYSES Owner HASKARY & SON SINC Field Analysis By: Taylor And NEW Bean St. Fembrio Co Odor Description of sampling point Connected to Sampling method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Method Sampling Met	Report to: ARO, FRO, MRO, RRO, WaRO, W	GROUNDWATER FIELD.	/LAB FORM	Other	
Shippad by: Bus Courise Other  COLLECTOR(S): Tourse Date F21-9 TIME 952 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUST, OTHER  FIELD ANALYSES  Owner HACKAEY & SON'S INC  PHACKAEY & SON'S INC  Description of sampling point Compating Advance Assumbly Properties of Analysis By: Tourse Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Assumbly Properties Ass		SAMPLE PRIOR	RITY SON	DATA ENTR	Y BY: CK:
COLLECTOR(S): (Autority Target Date 27.90 Time 952 PURPOSE: BASELINE, COMPLAINT, COMPLIANCE, LUSY, OTHER (Circle one)  FIELD ANALYSES  Owner HAKKAEY & SONS TINC  PHACKAEY & SONS TINC  Description of sampling point Companies Asserting point Companies (April 1997)  Appearance Taste Sampling Method (APRIL 1997)  Appearance Taste Sampling Method (APRIL 1997)  Appearance Taste Sampling Method (APRIL 1997)  Boog 310 Month (April 1997)  COL Liver 318 Month (APRIL 1998)  COL Liver 318 Month (APRIL 1998)  COL Liver 318 Month (APRIL 1998)  Collismost Feel 3116 (1998)  Totic 860 Month (APRIL 1998)  Collismost Feel 3116 (1998)  Totic 860 Month (APRIL 1998)  Collismost Feel 3116 (1998)  Totic 860 Month (APRIL 1998)  Collismost Feel 3116 (1998)  Collismost Feel 3116 (1998)  Totic 860 Month (APRIL 1998)  Collismost Feel 3116 (1998)  Collismost Feel 3116 (1998)  Totic 860 Month (APRIL 1998)  Collismost Feel 3116 (1998)		X ROUTINE   r	EMERGENCY		
Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   S					
PHACKNEY & SONS INC	COLLECTOR(S): TANKARD TOURL DATE	-21-90 TIME 952 PURPO	SE: BASELINE, COMPLAINT,	COMPLIAN	CE, LUST, OTHER
Description of sampling point   Compose   RAND   PTT	FIELD ANALYSES	Owner HACKNEY &			
Appearance	- · · · · · · · · · · · · · · · · · · ·		OF 4TH STREET AND	NEW B	ERN ST.
Appearance	Temp. ₁₀ Odor Odor	Description of sampling point	COMPOSITE SAMPLE	AROUN	O PITT
County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   County   C			MB	Sample Int	arval 3'BLS
ABORATORY ANALYSES	_ /	(pump, bail	ler, etc.)	- oampie int	ervar
BODs 310	Trefo Analysis by.	. Hemarks		(pumping ti	me air temp etc.)
COD High 340   mg/l	LABORATORY ANALYSES				
Fluoride 951   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Hardness/Total 900   mg/l   Specific Cond. 95   uMhos/cm²   Umlta 945   mg/l   Umlta 945   mg/l   Umlta 945   mg/l   Hg - Mercury 71900   ug/l   H	BOD ₅ 310 mg/l	Diss. Solids 70300 matt	An a Silver 1077		
COD Lew 335 mg/l   HardnessTotal 900 mg/l   Coliform:MF Fotal 31616 / 100ml   Phenols 32730 ug/l   Phenols 32730 ug/l   Coliform:MF Total 31504 / 100ml   Phenols 32730 ug/l   Cod-Cadmium 1027 ug/l   Cd-Cadmium 1027 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 ug/l   Fa-Iron 1045 u	COD High 340 mg/l				
Colliorn:MF Fecal 31616			<del>-  </del>	<del></del>	Organophosphorus Pesticides
Collform:MF Total 31564	Coliform:MF Fecal 31616 /100ml		<del>-  </del>		<del> </del>
TOC 680 mg/l	Coliform:MF Total 31504 /100ml	21			Acid Herdicides
Turbidity 76   NTU	TOC 680 mg/l		<del></del>	<del></del>	
Sullide 745   mg/l     Fe - Iron 1045   ug/l     Purgeable Organics (VOA bottle)   Purgeable Organics (VOA bottle)     Purgeable Organics (VOA bottle)     Purgeable Organics (VOA bottle)     Purgeable Organics (VOA bottle)     Purgeable Organics (VOA bottle)	Turbidity 76 NTU			············  ···-	
Hg - Mercury 71900   Ug/l   Purgsable Organics (VOA bottle)					Acto Extractable Organics
PH 403					Surrey has a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec
Alkalinity to pH 4.5 410 mg/l	pH 403 units		···		Purgeable Organics (VOA bottle)
Alkalinity to pH 8.3 415 mg/l  Carbonate 445 mg/l  BicarLonate 440 mg/l  Arsenic:Total 1002 ug/l  Carbon dioxide 405 mg/l  Chioride 940 mg/l  Chromium:Hex 1032 ug/l  Color:True 80 Pt-Co  Cyanide 720 mg/l  Lab Comments:   Mn - Manganese 1055 ug/l  Na - Sodium 929 mg/l  Ni - Nickel 1067 ug/l  Pb - Lead 1051 ug/l  Se - Selenium 1147 ug/l  Zn - Zinc 1092 ug/l  Zn - Zinc 1092 ug/l  Color:True 80 Pt-Co  Cyanide 720 mg/l  CGW-54 Revised 7/85  For Dissolved Analysis - submit filtered sample and write 'DIS' in block	Alkalinity to pH 4.5 410 mg/l				
Carbonate 445   mg/l			<del>-  </del>	<del></del>	1,2 - Dibromoethane (EDB)
Bicart_onate 440   mg/l			<del></del>		+
Arsenic:Total 1002   ug/l   TKN as N 625   mg/l   N02 + N03 as N 630   mg/l   Pb - Lead 1051   ug/l   Se - Selenium 1147   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Ug/l   Zn - Zinc 1092   ug/l   Zn - Zinc 1092   ug/l   Ug/l   Zn - Zinc 1092   ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l   Ug/l		NH3 as N 610 mg/l		——————————————————————————————————————	
Carbon dioxide 405 mg/l   N02 + N03 as N 630 mg/l   Se - Selenium 1147 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zinc 1092 ug/l   Zn - Zin	Arsenic:Total 1002 ug/l		<del></del>	<del></del>	HYDRGCARKN)
Chloride 940 mg/l Chromium:Hex 1032 ug/l Color:True 80 Pt-Co Cyanide 720 mg/l Lab Comments:  GW-54 Revised 7/85  P:Total as P 665 mg/l Zn - Zinc 1092 ug/l		No		<del></del>	
Chromium:Hex 1032 ug/l Color:True 80 Pt-Co Cyanide 720 mg/l Lab Comments:  GW-54 Revised 7/85  For Dissolved Analysis - submit filtered sample and write 'DIS' in block	Chloride 940 mg/l			<del></del>	
Cyanide 720 mg/l  Lab Comments:  GW-54 Revised 7/85  For Dissolved Analysis - submit filtered sample and write 'DIS' in block	Chromium:Hex 1032 ug/l		2.10 1072		
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GW-54 Revised 7/85 For Dissolved Analysis - submit filtered sample and write "DIS" in block	Cyanide 720 mg/l			<del> </del>	
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teport to: ARO, FRO, MRO, RRO, WaR	GROUNDWATER FIELD/L	AB FORM Other	
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/SRO, Kinston FO Other	POUTINE T EM	ERGENCY DATE	REPORTED:
hipped by: Bus, Courier Other	•		
OLLECTOR(S): R. TANKAN & DAT	= <u>5-21-90</u> TIME <u>0950</u> PURPOSE	E: BASELINE, COMPLAINT, COMPL	LIANCE, LUST, OTHER
<b>,</b>		(Gircie Oile)	
IELD ANALYSES	Owner HACKney And	150nJ	
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emp. ₁₀ °C Odor <i>WA</i>		ending Water in 1157 1	YCAUA tan
C/am	Coca b	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
opearance <u>CleAr</u> Taste	fnumn hailer	Sampl	e Interval
eld Analysis By: B. Toward	Remarks		
		(pump	ing time, air temp, etc.)
ABORATORY ANALYSES			
BOD ₅ 310 mg/l	Diss. Solids 70300 mg/l	Ag - Silver 1077 ug/l	Organochlorine Pesticides
COD High 340 mg/l	Fluoride 951 mg/l	Al - Aluminum 1105 ug/l	Organophosphorus Pesticides
COD Low 335 mg/i	Hardness:Total 900 mg/l	Ba - Barium 1007 ug/l	
Coliform:MF Fecal 31616 /100ml	Hardness (non-carb) 902 mg/l	Ca - Calcium 916 mg/l	Acid Herdicides
Colliform:MF Total 31504 /100ml	Phenois 32730 ug/l	Cd - Cadmium 1027 ug/l	
TOC 680 mg/l	Specific Cond. 95 uMhos/cm ²	Chromium:Total 1034 ug/l	Base / Neutral Extractable Organics
Turbidity 76 NTU	Sulfate 945 mg/i	Cu - Copper 1042 ug/l	Acid Extractable Organics
	Sulfide 745 mg/l	Fe - Iron 1045 ug/l	
		Hg - Mercury 71900 ug/l	Purgeable Organics (VOA bottle)
pH 403 units		K - Potassium 937 mg/l	
Alkalinity to pH 4.5 410 mg/l		Mg - Magnesium 927 mg/l	1,2 - Dibromoethane (EDB)
Alkalinity to pH 8.3 415 mg/l		Mn - Manganese 1055 ug/l	
Carbonate 445 mg/l	NH- an N 510	Na - Sodium 929 mg/l	
Bicartonate 440 mg/l  Arsenic:Total 1002 ug/l	NH3 as N 610 mg/l TKN as N 625 mg/l	Ni - Nickel 1067   ug/l     Pb - Lead 1051   ug/l	
Arsenic:Total 1002 ug/l Carbon dioxide 405 mg/l	NO2+NO3 as N 630 mg/l	Se - Selenium 1147   ug/l	
Chloride 940 mg/l	P:Total as P 665 mg/l	Zn - Zinc 1092 ug/l-	
Chromium:Hex 1032 ug/l			
Color:True 80 Pt-Co			
Cyanide 720 mg/l			
1	LL	<u> </u>	<del></del>
ab Comments:			



KIDRON, INC.

13442 EMERSON ROAD * BOX 17 * KIDRON, OH 44636-0017

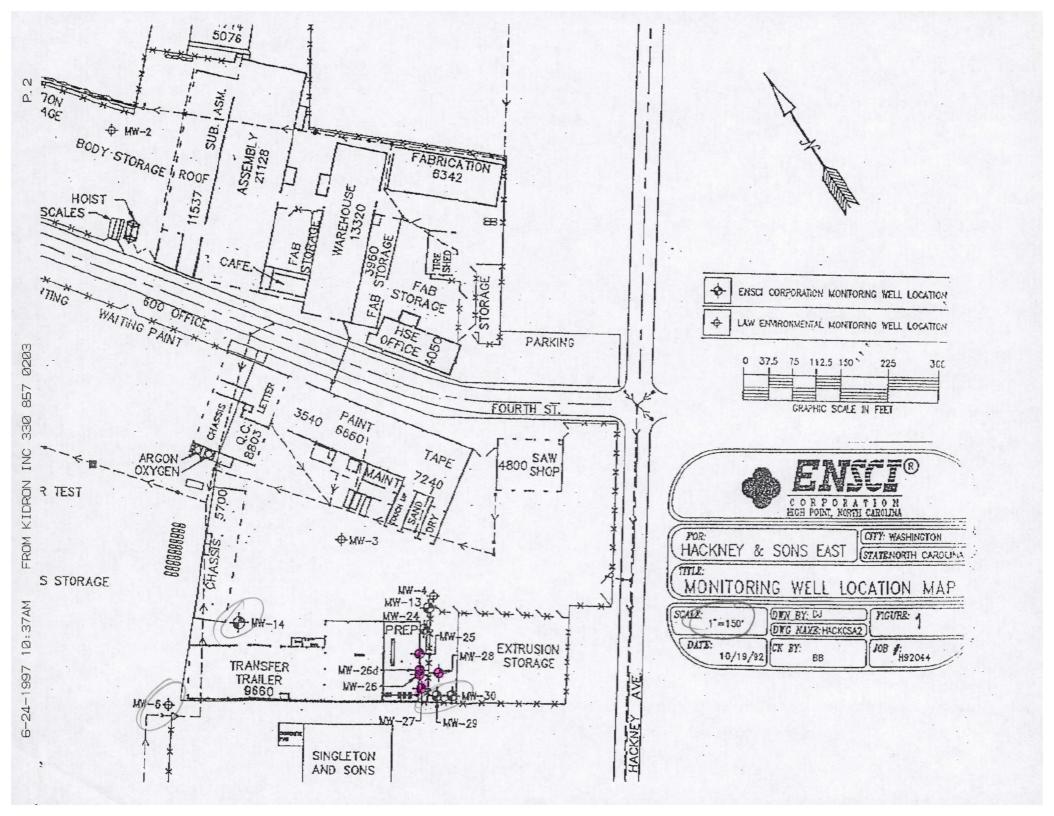
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To: Jeff	Welti	·
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FAX Phone:	(919) 975-3716	
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REMARKS: Urgent For your review Reply ASAP Please comment
-Jeff
Enclosed is the bottom right corner of the site Map with well locations.
Map with well locations.
The monitoring wells that surround MW-26d are
the one you thought we should sample. After
the following wells, if the wells are still good.
the following wells, if the wells are still good.
6 MW-25. @ MW-26 3 MW-26d 9 MW-27
(5) MW-28
Please review this and let me know if this plan is
acceptable. Thank you! San July





January 26, 1993

Mr. Guy Pearce, Hydrogeological Technician NC Department of Environment, Health, and Natural Resources Division of Environmental Management Groundwater Section 1424 Carolina Avenue Washington, North Carolina 27889

RE: Remediation of the Hackney and Sons (East), Incorporated Facility.

Dear Mr. Pearce:

The purpose of this letter is to present the attached data set that provides details of POLYBAC Corporation's (POLYBAC) biological treatment system/technology that ENSCI is proposing as a remedial system for the subject facility. In addition to this data, the results of a treatability study performed by POLYBAC on impacted groundwater sourced from the site have been included. As we have discussed in the past, ENSCI is proposing to use a microbial based technology to remediate the three plumes at the subject facility in the corrective action phase of this project. We propose to use a CTX-BIOX 75 unit to remediate the three plumes pumping at an approximate rate of fifteen gallons per minute.

In the attached data, you will find data on POLYBAC biotechnology, the bioreactor, and the treatability study performed on groundwater recovered from MW# 15 in the Trailer Test Area. Per our past discussions, groundwater from MW# 15 was chosen as representative of the three plumes because it is one of the most impacted locations on the property. The data included in the treatability study indicates that 100% removal of detected volatile and semi-volatile compounds was achieved in the treatability study. However, the treatability data indicates the presence of oil and grease in the effluent at 2.3 ppm by EPA Method 418.1.

When the groundwater samples were being acquired for the treatability study, there was detection of free petroleum product in monitoring wells #15 and #17. This detection was the first time phase separated products have been encountered at the site in any monitoring well. It is currently assumed that the groundwater pumped from the Trailer Test Area will go through an oil/water separator prior to going to the equalization tank in front of the bioreactor. In the equalization tank, groundwater from all three plumes will be mixed prior to introduction into the bioreactor. Ostensibly, the mixing of the groundwater from the three areas should reduce the influent oil and grease levels from 11.8 ppm to ~4-5 ppm. Dilution of the oil and grease levels in the influent stream should result in complete degradation of all hydrocarbon compounds in the bioreactor.

\$20 \$20

1108 Old Thomasville Rd. • High Point, NC 27260 • 919-883-7505 • Fax 919-882-7958

NCDEHNR/Pierce January 26, 1993 Page 2

I would like to schedule a meeting with you for the first week in February, if possible, to review the proposed technology. In my discussions with Jim Mulligan last week, he indicated that he would meet with you after our meeting to get pertinent information regarding the proposed application. If I can answer any questions, please do not hesitate to call.

Sincerely Yours:

**ENSCI** Corporation

Bruce K. Braswell, P.G.

Bur K. Broswell

Senior Hydrogeologist

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April 6, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Guy Pierce NCDEHNR-Groundwater Section Washington Regional Office Washington, North Carolina

RE: Proposed Schedule for Implementation of Remodial Action Plan for the Hackney & Sons, Inc. Site, Washington, Morth Carolina

Dear Mr. Pierce:

Per your letter dated March 26, 1993, a schedule has been prepared for the implementation of the Remedial Action Plan for the Hackney & Sons, Inc. facility located at 400 Hackney &ve in Washington, North Carolina. The proposed schedule is as follows:

- o Begin construction 2 weeks after approvat of a nondischarge permit
- o End construction 4 weeks after permit approvat
- o Buildup biomass in the bioreactor from 1-6 weeks after permit approval
- e Begin remediation of contaminated groundwater a weeks after permit approval.

If you require further information or have any quastions, please contact me, or Steve Stadelman, at ENSCI Corporation.

Sincerely,

Bruce K. Braswell, P.G. Senior Hydrogeologist

ENSCI Corporation, Inc.

cc: Jay Witte





RT/ (lb BO)

#### MEMORANDUM

TO:

Jim Mulligan, John Mazzarino

FROM:

Bob Cottam, Bruce Braswell

DATE:

March 26, 1991

SUBJECT: Hackney and Sons (East), Washington, NC

Dear Jim:

I am writing to confirm a 10:00 a.m. meeting on Friday, April 5. Please reference a cover letter which was forwarded to you and the staff with regard to Hackney and Sons (East) and the (Phase I) Groundwater Assessment dated March 21, 1991.

There are a number of issues we need to focus on:

- Development of a critical path to an SOC on Hackney.
- Non-Discharge Permit for Treated Groundwater Pilot Scale Treatment operations.
- Potential NPDES to Kennedy Creek outfall.
- Potential "use" of treated groundwater by National Spinning.
- Politics of POTW City of Washington.
- Wells Junkyard, strategy with regard to overall Hackney Remedial Action.
- Air Quality source emissions air stripper Pilot Scale Treatment operations.
- Input Testing Program by NCDEM Phase II work in any suggestions, changes modifications DEM may have.
- Disposition (disposal) Groundwater from Drawdown tests any hope of discharge to POTW, or other less expensive options.

We will furnish the DEM with a copy of the proposed Phase II, work with designs, etc. I don't know when we will have completed copies, but I hope to get a hard copy in your hand by Thursday, April 4.

1108 Old Thomasville Rd. • High Point, NC 27260 • 919-883-7505 • Fax 919-882-7958

#### **MEMORANDUM**

Jim Mulligan, John Mazzarino March 26, 1991 Page 2

Thanks for all your assistance in the timely disposition of this matter. Please do not hesitate to contact myself, Bruce Braswell or Judy Cox if you have questions or we may be of assistance.

Very truly yours,

**ENSCI CORPORATION** 

Robert T. Cottam, III

President

RTC/few



1620 **PEM** 

94 JUL 11 AM 9:55

400 HACKNEY AVENUE · P.O. BOX 880 · WASHINGTON, NORTH CAROLINA 27889-0880 · TELEPHONE 919-946-6521

July 6, 1994

RECEIVED WASHINGTON OFFICE

JUL 1 4 1994

D. E. M.

Groundwater Section PO Box 29535 Raleigh, NC 27626

0

Dear Sir or Madam:

In accordance with our permit No. WQ0007970 dated August 24, 1963, I have enclosed one copy of the results of the sampling and analysis of the 11 monitoring wells stated in the permit and the two additional wells 31B, 26. Also enclosed is one copy of influent and effluent analysis and daily log for April, May, and June.

Sincerely,

Charles R. Mason Industrial Engineer

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10-May	7	4	35 35		2	2							10-M
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17-May	6	1.5	30		2	1.5			83520	5640	155990	13637	18-M
18-May	6.8	1	25		1.5	1	12		83720	5840	156240	13887	19-M
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RECEIVED/EHNR DEM. GROUND WATER SEC.

94 JUL 11 AM 9:55

ENVIRONMENTAL LABORATORIES, INC.

11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

Date of Report: 05/25/94 Date Received: 05/10/94

Approved By:

Kenneth R. Richardson Laboratory Supervisor

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 917K01

		Det.				lysis	1
Parameter	Result	Limit	Unit	Method	Time	Date	Anal
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Bromodichloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
Bromoform	BDL	5	ppb	EPA 624	11:32	05/20/94	WHT
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	11:32	05/20/94	THW
Carbon Tetrachloride	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
Chlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	11:32	05/20/94	THW
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA 624	11:32	05/20/94	THW
Chloroform	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	11:32	05/20/94	WHT
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
1,4-Dichlorobenzene	BDL ·	5	ppb	EPA 624	11:32	05/20/94	WHT
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
1,2-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	11:32	05/20/94	THW
Trans-1,2-Dichloroethe	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
Trans-1,3-Dichloroprop	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	THW
Ethyl Benzene	BDL	5	ppb	EPA 624	11:32	05/20/94	WHT

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		Det.			Ana.	lysis	
Parameter		Limit	Unit	Method	Time	Date	Anal.
Methylene Chloride	1099	5	ppb	EPA 624	11:32	05/20/94	THW
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	11:32	05/20/94	WHT
Tetrachloroethene	71	5	ppb	EPA 624	11:32	05/20/94	WHT
Toluene	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	$\mathtt{WHT}$
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
Trichlorofluoromethane	$\mathtt{BDL}$	10	ppb	EPA 624	11:32	05/20/94	$\mathtt{WHT}$
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	11:32	05/20/94	WHT
Total Xylene	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
1,1,1,2-Tetrachloroeth		5 .	ppb	EPA 624	11:32	05/20/94	THW
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	11:32	05/20/94	WHT
Dibromofluoromethane			% Rec	EPA 624	11:32	05/20/94	$\mathtt{WHT}$
Toluene-d8			% Rec	EPA 624	11:32	05/20/94	WHT
4-Bromofluorobenzene			% Rec	EPA 624	11:32	05/20/94	WHT
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	THW
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{THW}$
Benzo (g,h,i) Perylene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
Benzo (k) Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	05:16	05/20/94	WHT
Bis (2-Chloroethyl) Et	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
Bis (2-Chloroisopropyl		10	PPB	EPA 625	05:16	05/20/94	THW
Bis (2-Ethylhexyl) Pht	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
4-Bromophenyl Phenyl E		10	PPB	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
Benzyl Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	THW
4-Chlorophenyl Phenyl	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
Chrysene	BDL .	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
Dibenzo (a,h) Anthrace	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{THW}$
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
1,4-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	WHT
3,3'-Dichlorobenzidine	$\mathtt{BDL}$	10	PPB	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
Diethyl Phthalate	BDL	10	PPB	EPA 625	05:16	05/20/94	THW
Dimethyl Phthalate	BDL	10	PPB	EPA 625	05:16	05/20/94	THW
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	05:16	05/20/94	WHT

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Parameter         Result Limit         Unit Description         Method Description         Time Date Description         Anal.           2,4-Dinitrotoluene         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         05/20/94 WHT         WHT           2,6-Dinitrotoluene         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         05/20/94 WHT         WHT           Di-N-Octylphthalate         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         05/20/94 WHT         WHT           Fluoranthene         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         05/20/94 WHT         WHT           Hexachlorobenzene         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         05/20/94 WHT         WHT           Hexachlorocyclopentadi         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         05/20/94 WHT         WHT           Hexachlorocethane         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         05/20/94 WHT         SOS 20/94 WHT           Isophorone         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         SOS 20/94 WHT         NHT           Naphthalene         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         SOS 20/94 WHT         SOS 20/94 WHT           N-Nitroso-Di-N-Propyla         BDL 10         PPB EPA 625 05:16 05/20/94 WHT         SOS 20/94 WHT	•		Det.			Ana	lysis	
2,6-Dinitrotoluene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Di-N-Octylphthalate BDL 10 PPB EPA 625 05:16 05/20/94 WHT Fluoranthene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Fluorene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobutadiene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachloroethane BDL 10 PPB EPA 625 05:16 05/20/94 WHT Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 05:16 05/20/94 WHT Isophorone BDL 10 PPB EPA 625 05:16 05/20/94 WHT Naphthalene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Naphthalene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Nitrobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT				Unit	Method			Anal.
Di-N-Octylphthalate BDL 10 PPB EPA 625 05:16 05/20/94 WHT Fluoranthene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Fluorene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobutadiene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachloroethane BDL 10 PPB EPA 625 05:16 05/20/94 WHT Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 05:16 05/20/94 WHT Isophorone BDL 10 PPB EPA 625 05:16 05/20/94 WHT Isophorone BDL 10 PPB EPA 625 05:16 05/20/94 WHT Naphthalene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Nitrobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT	2,4-Dinitrotoluene		10	PPB	EPA 62	25 05:16	05/20/94	$\mathtt{THW}$
Fluoranthene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Fluorene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobutadiene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachloroethane BDL 10 PPB EPA 625 05:16 05/20/94 WHT Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 05:16 05/20/94 WHT Isophorone BDL 10 PPB EPA 625 05:16 05/20/94 WHT Naphthalene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Nitrobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT							05/20/94	
Fluorene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorobutadiene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachlorocyclopentadi BDL 10 PPB EPA 625 05:16 05/20/94 WHT Hexachloroethane BDL 10 PPB EPA 625 05:16 05/20/94 WHT Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 05:16 05/20/94 WHT Isophorone BDL 10 PPB EPA 625 05:16 05/20/94 WHT Naphthalene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Nitrobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT								
Hexachlorobenzene         EDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Hexachlorobutadiene         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Hexachlorocyclopentadi         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Hexachlorocethane         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Indeno (1,2,3-cd)         Pyre         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Isophorone         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Naphthalene         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT	Fluoranthene		10	PPB	EPA 62	25 05:16		WHT
Hexachlorobutadiene         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Hexachlorocyclopentadi         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Hexachlorocthane         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Indeno (1,2,3-cd)         Pyre         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Isophorone         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Naphthalene         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT			10	PPB	EPA 62	25 05:16	05/20/94	TḤW
Hexachlorocyclopentadi         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Hexachloroethane         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Indeno (1,2,3-cd)         Pyre         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Isophorone         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           Naphthalene         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA         625         05:16         05/20/94         WHT								
Hexachloroethane         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Indeno (1,2,3-cd)         Pyre         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Isophorone         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Naphthalene         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Nitrobenzene         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT								$\mathtt{THW}$
Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 05:16 05/20/94 WHT Isophorone BDL 10 PPB EPA 625 05:16 05/20/94 WHT Naphthalene BDL 10 PPB EPA 625 05:16 05/20/94 WHT Nitrobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT								
Isophorone         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Naphthalene         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           Nitrobenzene         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT           N-Nitroso-Di-N-Propyla         BDL         10         PPB         EPA 625         05:16         05/20/94         WHT	Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16	05/20/94	$\mathtt{WHT}$
Naphthalene       BDL       10       PPB       EPA 625       05:16       05/20/94       WHT         Nitrobenzene       BDL       10       PPB       EPA 625       05:16       05/20/94       WHT         N-Nitroso-Di-N-Propyla       BDL       10       PPB       EPA 625       05:16       05/20/94       WHT	Indeno (1,2,3-cd) Pyre						, ,	
Nitrobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT	Isophorone	$\mathtt{BDL}$		PPB			05/20/94	WHT
N-Nitroso-Di-N-Propyla BDL 10 PPB EPA 625 05:16 05/20/94 WHT	Naphthalene							
	Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16	05/20/94	WHT .
N-Nitrogodiphenylamine RDL 10 PPR EPA 625 05.16 05/20/94 WHT	N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10					
	N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 62		05/20/94	$\mathtt{WHT}$
Phenanthrene BDL 10 PPB EPA 625 05:16 05/20/94 WHT								
Pyrene BDL 10 PPB EPA 625 05:16 05/20/94 WHT			10	PPB				
1,2,4-Trichlorobenzene BDL 10 PPB EPA 625 05:16 05/20/94 WHT	1,2,4-Trichlorobenzene		10	PPB				
Benzidine BDL 10 PPB EPA 625 05:16 05/20/94 WHT	Benzidine		10	PPB				WHT
1,2-Diphenylhydrazine BDL 10 PPB EPA 625 05:16 05/20/94 WHT	1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB				
N-Nitrosodimethylamine BDL 10 PPB EPA 625 05:16 05/20/94 WHT	N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16		$\mathtt{THW}$
4-Chloro-3-Methylpheno BDL 10 PPB EPA 625 05:16 05/20/94 WHT	4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16		
2-Chlorophenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT	2-Chlorophenol	$\mathtt{BDL}$	10				05/20/94	
2,4-Dichlorophenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT	2,4-Dichlorophenol	BDL	10	PPB				THW
2,4-Dimethylphenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT								
2,4-Dinitrophenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT			10	PPB				
2-Methyl-4,6-Dinitroph BDL 10 PPB EPA 625 05:16 05/20/94 WHT		$\mathtt{BDL}$	10					
2-Nitrophenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT	2-Nitrophenol		10	PPB ·				WHT
4-Nitrophenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT		$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16		
Pentachlorophenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT			10					
Phenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT		$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16	05/20/94	$_{ m THW}$
2,4,6-Trichlorophenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT			10	PPB				
1,2-Diphenylhydrazine BDL 10 PPB EPA 625 05:16 05/20/94 WHT	1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB			05/20/94	WHT
4,6-Dinitro-o-cresol BDL 10 PPB EPA 625 05:16 05/20/94 WHT	4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16	05/20/94	
P-chloro-m-cresol BDL 10 PPB EPA 625 05:16 05/20/94 WHT	P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16	05/20/94	WHT
Trans-1,3-dichloroprop BDL 10 PPB EPA 625 05:16 05/20/94 WHT	Trans-1,3-dichloroprop	$\mathtt{BDL}$	10					
4-Methylphenol BDL 10 PPB EPA 625 05:16 05/20/94 WHT	4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA 62	25 05:16	05/20/94	$\mathbf{W}\mathbf{H}\mathbf{T}$
Nitrobenzene-d8	Nitrobenzene-d8				EPA 62	25 05:16		
2-Fluorobiphenyl % Rec EPA 625 05:16 05/20/94 WHT					EPA 62	25 05:16		WHT
p-Terphenyl-d14 % Rec EPA 625 05:16 05/20/94 WHT	p-Terphenyl-d14			% Rec	EPA 62	25 05:16	05/20/94	$\mathtt{WHT}$

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LAB ID: 917K01

•		Det.			Ana	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Phenol-d6			% Rec	EPA 625	05:16	05/20/94	$\mathtt{THW}$
2-Fluorophenol			% Rec	EPA 625	05:16	05/20/94	$\mathtt{WHT}$
2,4,6-Tribromophenol			% Rec	EPA 625	05:16	05/20/94	WHT
Acetone	$\mathtt{BDL}$	5	ppb	EPA 8240	11:32	05/20/94	WHT
LAB ID: 917K02							
	ATER TRI	EATMENT)					
рН	6.52	0-14	s.U.	EPA150.1	12:00	05/10/94	RCD
Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
Bromodichloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	WHT
Bromoform	$\mathtt{BDL}$	5	dqq	EPA 624	12:20	05/20/94	$\mathtt{THW}$
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	12:20	05/20/94	WHT
Carbon Tetrachloride	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	WHT
Chlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	WHT
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA 624	12:20	05/20/94	WHT
Chloroform	BDL	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	12:20	05/20/94	$\mathtt{THW}$
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{THW}$
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{THW}$
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
1,2-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
Trans-1,2-Dichloroethe	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	WHT
Trans-1,3-Dichloroprop	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
Ethyl Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{THW}$
Methylene Chloride	54	5	ppb	EPA 624	12:20	05/20/94	WHT
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
Tetrachloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	WHT
Toluene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{THW}$
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	WHT
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{WHT}$
Trichlorofluoromethane		10	ppb	EPA 624	12:20	05/20/94	WHT
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	12:20	05/20/94	WHT
Total Xylene	BDL	5	ppb	EPA 624	12:20	05/20/94	WHT

94 JUL 11 AM 9:55

Hackney and Sons 05/25/94 Page 5

LAB ID: 917K02

		Det.			Ana	lysis	
Parameter	Result		Unit	${ t Method}$	Time	Date	Anal.
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	12:20	05/20/94	THW
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	12:20	05/20/94	$\mathtt{THW}$
Dibromofluoromethane			% Rec	EPA 624	12:20	05/20/94	$\mathtt{THW}$
Toluene-d8			% Rec	EPA 624	12:20	05/20/94	THW
4-Bromofluorobenzene			% Rec	EPA 624	12:20	05/20/94	WHT
Acenaphthene	BDL	10	PPB	EPA 625	11:26	05/20/94	WHT
Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Benzo (a) Anthracene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	WHT
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Benzo (b) Fluoranthene		10	PPB	EPA 625	11:26	05/20/94	WHT
Benzo (g,h,i) Perylene		10	PPB	EPA 625	11:26	05/20/94	$\mathtt{THW}$
Benzo (k) Fluoranthene		10	PPB	EPA 625	11:26	05/20/94	WHT
Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Bis (2-Chloroisopropyl		10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	11:26	05/20/94	WHT
4-Bromophenyl Phenyl E	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Benzyl Butyl Phthalate		10	PPB	EPA 625	11:26	05/20/94	WHT
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	WHT
4-Chlorophenyl Phenyl	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{THW}$
Chrysene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{THW}$
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
1,3-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	WHT
1,4-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
3,3'-Dichlorobenzidine		10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Diethyl Phthalate	BDL	10	PPB	EPA 625	11:26	05/20/94	WHT
Dimethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Di-N-Butyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
2,4-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{WHT}$
Fluoranthene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	THW
Fluorene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	WHT
Hexachlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	WHT
Hexachlorobutadiene	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	WHT
Hexachlorocyclopentadi		10	PPB	EPA 625	11:26	05/20/94	THW
Hexachloroethane	$\mathtt{BDL}$	10	PPB	EPA 625	11:26	05/20/94	$\mathtt{THW}$
Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	11:26	05/20/94	WHT

# RECEIVED/EHNR DEM. GROUND WATER SEC. 94 JUL 11 AM 9: 55

Hackney and Sons 05/25/94 Page 6

LAB ID: 917K02

		Det.				Anal	lysis	
Parameter	Result	Limit	Unit	Meth	.od	Time	Date	Anal.
Isophorone	$\mathtt{BD}\mathbf{\dot{\Gamma}}$	10	PPB	EPA		11:26	05/20/94	THW
Naphthalene	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$ ext{THW}$
Nitrobenzene	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
N-Nitroso-Di-N-Propyla		10	PPB	EPA		11:26	05/20/94	THW
N-Nitrosodiphenylamine		10	PPB	EPA		11:26	05/20/94	WHT
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
Pyrene	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	WHT
1,2,4-Trichlorobenzene		10	PPB	EPA	625	11:26	05/20/94	$\mathtt{THW}$
Benzidine ·	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	WHT
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
N-Nitrosodimethylamine		10	PPB	EPA		11:26	05/20/94	WHT
4-Chloro-3-Methylpheno		10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{THW}$
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$ ext{THW}$
2-Methyl-4,6-Dinitroph		10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
4-Nitrophenol	$\mathtt{BDL}$	10	PPB		625	11:26	05/20/94	$\mathtt{WHT}$
Pentachlorophenol	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	WHT
Phenol	$\mathtt{BDL}$	10	PPB	EPA	625	11:26	05/20/94	$\mathtt{THW}$
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA	625	11:26	05/20/94	THW
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
4,6-Dinitro-o-cresol	$\mathtt{BDL}$	10	PPB	EPA	625	11:26	05/20/94	$\mathtt{WHT}$
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	THW
Trans-1,3-dichloroprop	$\mathtt{BDL}$	10	PPB	EPA		11:26	05/20/94	$\mathtt{WHT}$
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA	625	11:26	05/20/94	$\mathtt{WHT}$
Nitrobenzene-d8			% Rec	EPA	625	11:26	05/20/94	$\mathtt{WHT}$
2-Fluorobiphenyl			% Rec	EPA	625	11:26	05/20/94	WHT
p-Terphenyl-d14			% Rec	EPA	625	11:26	05/20/94	$ ext{THW}$
Phenol-d6			% Rec	EPA	625	11:26	05/20/94	$\mathtt{THW}$
2-Fluorophenol			% Rec	EPA	625	11:26	05/20/94	$\mathtt{WHT}$
2,4,6-Tribromophenol			% Rec	EPA	625	11:26	05/20/94	$\mathtt{THW}$
Acetone	BDL	5	ppb	EPA	8240	12:20	05/20/94	WHT

			WATER TRE	WINTIA	IFLAIN	l		ļ			<u> </u>		ļ
Jun-94								<u> </u>					Jun-9
	TEST	77-07	TEST	DII A	DDJUST						O. 11 10111 10		<del> </del>
DATE		<del> </del>		ļ		<del> </del>	TE ADDED	BUGS	PUMPING	<del></del>	PUMPING		DATE
DATE	PH ~	AMMONIA	PHOSPHATE	LIME	CAUSTIC	LARGE TANK	METERING	ADDED	READING		READING 161650	TOTAL 0	ļ
1-Jun	6	<del> </del>	200	 	3	3	<del></del>	2	86780 87290	510	162010	360	2-Ju
2-Jun	6 6		30 40		3	<u> </u>			87320	540	162030	380	3-Jui
3-Jun 4-Jun		1.5	40					<del> </del>	0/320	540	102030	300	4-Jur
#Jun 5-Jun	5.5		35		4	4			88110	1330	162060	410	5-Jur
6-Jun	3.3		33		3	7		3	<del> </del>	1590	162580	930	6-Jur
7√un				5	•			- 3	88380	1600	162990	1340	7-Jur
8-Jun	7	0.9	30	2					88840	2060	163350	1700	8Jur
9-Jun	6.5	1.5	30		3	2			89640	2860	163600	1950	9-Jun
10-Jun	0.0	1.5	35		3	3	5	1	00040	2000	100000		10-Jur
11-Jun	5.5		40					•					11-Ju
12-Jun	6	0.6	40		3	2			91020	4240	165130	3480	12-Jui
13-Jun	5.6	0.6	45		5		20	2	91330	4550	165750	4100	13-Jur
14-Jun	6.5	0.8	40		3				91780	5000	165900	4250	14-Jur
15-Jun	7		50		3	4			92390	5610	165900	4250	15-Jur
16-Jun	6.5	0.6	60		4				93070	6290	165980	4330	16-Jur
17-Jun	7	1	60		4								17-Jur
18-Jun													18-Jur
19-Jun	6.5	3	60		4				94370	7590	166840	5190	19-Jun
20-Jun	6.6	0.8	60		3				94370	7590	166840	5190	20-Jun
21-Jun	6.6	0.8	60		3				94540	7760	167000	5350	21-Jun
22-Jun	6.5	0.6	60		3.5				94870	8090	167230	5580	22-Jun
23-Jun	6.5	0.6	50		3				95010	8230	167420	5770	23-Jun
24-Jun	7	0.6	40		2	2			95060	8280	167900	6250	24-Jun
25-Jun	7	0.5	40		3	2			95200	8420	168301	6651	25-Jun
26-Jun													26-Jun
27-Jun	7	0.5	40		3				95600	8820	169040	7390	27-Jun
28-Jun	6.5	0.5	40		3		, ]		96020	9240	169130	7480 [	_28-Jun
29-Jun	7	8.0	40			3			96050	9270	169770	8120	[∏] 29-Jun
30-Jun	7	0.6	40										30-Jun
													50

D WATER S



Relinquished By:





ENVIRONMENTAL LABORATORIES, INC.

11176 DOWNS ROAD
PINEVILLE, NC 28134

Client: HACKINEY AND SONS

Address: 400 HACKINEY AVI. Roi But 880

City ASSING State: N. C. Zip: 27.999

Contact Person Sampled By: HACKINES MASON

By relinquishing this sample(s) to Laboratory Personnel, I warrant that I am authorized to enter into this agreement for the Client named above and that I authorize the below analysis subject to the terms and conditions on the reverse hereof. This agreement is governed by the terms and conditions on the reverse side hereof. Analysis charges shall be as included in the Laboratories fee schedule in effect at the time of the analysis.

Received By:		<u>ئ</u> و	<u> و ال</u>	2.8								_		D	ate	:		(ت-	<u>ධ</u>		J_,	٠ ٠	Time:
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Sample ID	P. A. C.	erss	Date & Time Sampled	COMPOSITE	Eab ID	800	8/2	3/=	Ammonia	Or & Grease	Phenol	Asanic	Selenium	Chromium	Soboe	Lead Nicol	Zige	Mercury	Silver	TCLP IC	TPH (3sec	774 (8030) 174 (8030)	
INS # 10-1		16	-2-9400		22211			1	İ														EPA McThodusing ICE *624-625 + He I
INS # 10-1	-	8 6	-2-94 11:00		222L2			;; ;															i i
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Date Installed		Time Inst	alled
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Composite Type:	☐ Flow		☐ Hand

me Installed Flow Flow Flow

Flow____CF/GPD Flow Field pH

Result _____
Analyst ____
Time/Date ____
(QA/QC Separate)

Please sign and return the white and yellow copies to the Laboratory.

94 JUL 11 AM 9:54

**A**qua**C**hem

ENVIRONMENTAL LABORATORIES, INC.

11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

Date of Report: 06/23/94 Date Received: 06/02/94

Approved By:

Kenneth R. Richardson Laboratory Supervisor

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 222L01

SAMPLE ID: INF#10-I

		Det.		Analysis							
Parameter	Result	Limit	Unit	${ t Method}$	Time	Date	Anal				
pН	6.57	0-14	s.u.	EPA150.1	08:15	06/03/94	RCD				
Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
Bromodichloromethane	BDL	5	ppb	EPA 624	08:37	06/13/94	MMA				
Bromoform	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	MMA				
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	08:37	06/13/94	ANM				
Carbon Tetrachloride	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
Chlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	08:37	06/13/94	MNA				
2-Chloroethylvinyl Eth	$\mathtt{BDL}$	10	ppb	EPA 624	08:37	06/13/94	MMA				
Chloroform	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
Chloromethane	$\mathtt{BDL}$	20	ppb	EPA 624	08:37	06/13/94	ANM				
Dibromochloromethane	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	MNA				
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	MNA				
1,3-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
1,1-Dichloroethane	$\mathtt{BDL}$	5	ppb .	EPA 624	08:37	06/13/94	ANM				
1,2-Dichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	08:37	06/13/94	MNA				
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	08:37	06/13/94	MMA				
1,2-Dichloropropane	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	MMA				
Cis-1,3-Dichloropropen	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	MNA				
Trans-1,3-Dichloroprop	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				
Ethyl Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM				

# 94 JUL 11 AM 9:54

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LAB ID: 222L01 SAMPLE ID: INF#10-I

DAME DE LIGHTO-I							
		Det.			Ana	_	
Parameter		Limit	Unit	Method	Time	Date	Anal.
Methylene Chloride	BDL	5	ppb	EPA 624	08:37	06/13/94	ANM
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	08:37	06/13/94	ANM
Tetrachloroethene	13	5	ppb	EPA 624	08:37	06/13/94	ANM
Toluene	7	5	ppb .	EPA 624	08:37	06/13/94	MNA
1,1,1-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	08:37	06/13/94	ANM
Trichlorofluoromethane	$\mathtt{BDL}$	10	ppb	EPA 624	08:37	06/13/94	ANM
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	08:37	06/13/94	ANM
Total Xylene	BDL	5	ppb	EPA 624	08:37	06/13/94	ANM
1,1,1,2-Tetrachloroeth		5	ppb	EPA 624	08:37	06/13/94	ANM
Cis 1,2-dichloroethene	BDL	5	ppb	EPA 624	08:37	06/13/94	ANM
Dibromofluoromethane	88	Ŭ	% Rec	EPA 624	08:37	06/13/94	ANM
Toluene-d8	96		% Rec	EPA 624	08:37	06/13/94	ANM
4-Bromofluorobenzene	98		% Rec	EPA 624	08:37	06/13/94	ANM
Acenaphthene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
Acenaphthylene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
		10	PPB	EPA 625	08:45	06/07/94	FDM
		10		EPA 625		06/07/94	FDM
Benzo (g,h,i) Perylene			PPB		08:45	, ,	
Benzo (k) Fluoranthene		10	PPB	EPA 625	08:45	06/07/94	FDM
Bis (2-Chloroethoxy) M		10	PPB	EPA 625	08:45	06/07/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	08:45	06/07/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:45	06/07/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:45	06/07/94	FDM
4-Bromophenyl Phenyl E	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:45	06/07/94	FDM
2-Chloronaphthalene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
4-Chlorophenyl Phenyl	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
Chrysene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
Dibenzo (a,h) Anthrace	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
1,3-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
1,4-Dichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
						,,	

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LAB ID: 222L01 SAMPLE ID: INF#10-I

	SAMPHE ID: INF#IU-I		Det.			Anal	lysis	
	Parameter	Result		Unit	Method	Time	Date	Anal.
	2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	2,6-Dinitrotoluene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Di-N-Octylphthalate	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Fluoranthene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Fluorene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Hexachlorobenzene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Hexachlorobutadiene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Hexachloroethane	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
		BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Isophorone	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Naphthalene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Nitrobenzene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	N-Nitroso-Di-N-Propyla	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
	N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
	Phenanthrene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
<b>Y</b>	Pyrene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	1,2,4-Trichlorobenzene	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Benzidine	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	2-Chlorophenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
	2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	2-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
	4-Nitrophenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Pentachlorophenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Phenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	P-chloro-m-cresol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	4-Methylphenol	BDL	10	PPB	EPA 625	08:45	06/07/94	FDM
	Nitrobenzene-d8			% Rec	EPA 625	08:45	06/07/94	FDM
	2-Fluorobiphenyl			% Rec	EPA 625	08:45	06/07/94	FDM
	p-Terphenyl-d14			% Rec	EPA 625	08:45	06/07/94	FDM

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LAB ID: 222L01

SAMPLE ID: INF#10-I

		Det.			Anal		
Parameter Phenol-d6	Result		<b>Unit</b> % Rec	Method EPA 625	Time 08:45		Anal. FDM
2-Fluorophenol			% Rec	EPA 625	08:45	06/07/94	FDM
2,4,6-Tribromophenol			% Rec	EPA 625	08:45	06/07/94	FDM
Acetone	BDL	5	ppb	EPA 8240	08:37	06/13/94	ANM
110000110		J	PP~		00.57	00/10/51	
LAB ID: 222L02							
SAMPLE ID: EFF#10-E	DDT	-	1-	ED7 CO4	01 05	06/00/04	23736
Benzene	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
Bromodichloromethane	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
Bromoform	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
Bromomethane	BDL	10	ppb	EPA 624	21:05	06/09/94	ANM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
Chlorobenzene	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
Chloroethane	BDL	10	ppb	EPA 624	21:05	06/09/94	ANM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	21:05	06/09/94	ANM
Chloroform	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
Chloromethane	BDL	20	ppb	EPA 624	21:05	06/09/94	ANM
Dibromochloromethane	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
1,4-Dichlorobenzene	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
1,1-Dichloroethene	BDL BDL	10	ppb	EPA 624	21:05	06/09/94	ANM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	21:05	06/09/94	MNA
1,2-Dichloropropane		5	ppb	EPA 624	21:05	06/09/94	ANM
Cis-1,3-Dichloropropen		5	ppb	EPA 624	21:05	06/09/94	ANM
Trans-1,3-Dichloroprop Ethyl Benzene	BDL	5 5	ppb	EPA 624	21:05	06/09/94	ANM
_	BDL		ppb	EPA 624	21:05	06/09/94	ANM
Methylene Chloride 1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	21:05	06/09/94	ANM
		5	ppb	EPA 624	21:05	06/09/94	ANM
Tetrachloroethene	14	5	ppb	EPA 624	21:05	06/09/94	ANM
Toluene	5 DDT	5	ppb	EPA 624	21:05	06/09/94	ANM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	21:05	06/09/94 06/09/94	ANM
1,1,2-Trichloroethane	BDL	5	ppb	EPA 624	21:05		ANM
Trichloroethene	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
Trichlorofluoromethane		10	ppb	EPA 624	21:05	06/09/94 06/09/94	ANM
Vinyl Chloride	BDL	10	ppb	EPA 624	21:05		ANM
Total Xylene	BDL	5	ppb	EPA 624	21:05	06/09/94	ANM
1,1,1,2-Tetrachloroeth	חחם	5	ppb	EPA 624	21:05	06/09/94	ANM

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LAB ID: 222L02 SAMPLE ID: EFF#10-E

Det.   Clist 1,2-dichloroethene   BDL   5   ppb   EPA 624   21:05   06/09/94   ANM   Dibromofluoromethane   90   % Rec   EPA 624   21:05   06/09/94   ANM   Cluene-d8   96   % Rec   EPA 624   21:05   06/09/94   ANM   A-Bromofluorobenzene   94   % Rec   EPA 624   21:05   06/09/94   ANM   A-Bromofluorobenzene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Acenaphthene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Acenaphthylene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Anthracene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Benzo (a) Anthracene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Benzo (a) Pyrene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Benzo (b) Fluoranthene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Benzo (g,h,i) Perylene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Benzo (k) Fluoranthene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Bis (2-Chloroethoxy)   M BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Bis (2-Chloroethoxy)   M BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Bis (2-Chloroethoxy)   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Bis (2-Chloroethyl)   Et   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Bis (2-Chloroethyl)   Et   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Bis (2-Ethylhexyl)   Pht BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   Benzyl   Butyl   Phthalate   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Bromophenyl   Phenyl   E   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Chlorophenyl   Phenyl   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Chlorophenyl   Phenyl   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Chlorobenzene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Chlorobenzene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Chlorobenzene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Chlorobenzene   BDL   10   PPB   EPA 625   08:45   06/07/94   FDM   4-Chlorobenzene   BDL   10   PPB   EPA 625	SAMPLE ID: EFF#10-E							
Cis 1,2-dichloroethene         BDL         5         ppb         EPA 624         21:05         06/09/94         ANM           Dibromofluoromethane         90         % Rec         EPA 624         21:05         06/09/94         ANM           Toluene-d8         96         % Rec         EPA 624         21:05         06/09/94         ANM           4-Bromofluorobenzene         94         % Rec         EPA 624         21:05         06/09/94         ANM           Acenaphthene         BDL         10         PPB         EPA 625         08:45         06/07/94         FDM           Acenaphthylene         BDL         10         PPB         EPA 625         08:45         06/07/94         FDM           Anthracene         BDL         10         PPB         EPA 625         08:45         06/07/94         FDM           Benzo (a) Pyrene         BDL         10         PPB         EPA 625         08:45         06/07/94         FDM           Benzo (b) Fluoranthene         BDL         10         PPB         EPA 625         08:45         06/07/94         FDM           Benzo (k) Fluoranthene         BDL         10         PPB         EPA 625         08:45         06/07/94         FDM						Ana	lysis	
Dibromofluoromethane 90	Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Toluene-d8 4-Bromofluorobenzene 94 8 Rec EPA 624 21:05 06/09/94 ANM Acenaphthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Acenaphthylene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Anthracene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (a) Anthracene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (c) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:45 06/07/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:45 06/07/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Chrysene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Chrysene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM	Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	21:05	06/09/94	ANM
4-Bromofluorobenzene 94	Dibromofluoromethane	90		% Rec	EPA 624	21:05	06/09/94	ANM
Acenaphthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Acenaphthylene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Anthracene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (a) Anthracene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:45 06/07/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM 2-Chloroaphthalene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:45 06/07/94 FDM Chrysene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenz	Toluene-d8	96			EPA 624	21:05	06/09/94	MNA
Acenaphthylene	4-Bromofluorobenzene	94		% Rec	EPA 624	21:05	06/09/94	ANM
Acenaphthylene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (a) Anthracene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:45 06/07/94 FDM 4-Bromophenyl Phenyl E BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:45 06/07/94 FDM Chrysene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,	Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
Benzo (a) Anthracene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (a) Pyrene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (b) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (g,h,i) Perylene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzo (k) Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethoxy) M BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroethyl) Et BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Chloroisopropyl BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:45 06/07/94 FDM Bis (2-Ethylhexyl) Pht BDL 10 PPB EPA 625 08:45 06/07/94 FDM 4-Bromophenyl Phenyl EBDL 10 PPB EPA 625 08:45 06/07/94 FDM Benzyl Butyl Phthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM 2-Chloronaphthalene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:45 06/07/94 FDM Chrysene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94	Acenaphthylene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM
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4-Chlorophenyl Phenyl BDL 10 PPB EPA 625 08:45 06/07/94 FDM Chrysene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM			10	PPB	EPA 625	08:45		FDM
Chrysene BDL 10 PPB EPA 625 08:45 06/07/94 FDM Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM	<b>-</b>						• •	
Dibenzo (a,h) Anthrace BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,2-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
1,2-Dichlorobenzene       BDL       10       PPB       EPA 625       08:45       06/07/94       FDM         1,3-Dichlorobenzene       BDL       10       PPB       EPA 625       08:45       06/07/94       FDM         1,4-Dichlorobenzene       BDL       10       PPB       EPA 625       08:45       06/07/94       FDM	<b>→</b>	BDL					, ,	
1,3-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM 1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
1,4-Dichlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
•	·	BDL	10					
	3,3'-Dichlorobenzidine	BDL	10					
Diethyl Phthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM	Diethyl Phthalate	$\mathtt{BDL}$	10	PPB	EPA 625			
Dimethyl Phthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM		$\mathtt{BDL}$	10					
Di-N-Butyl Phthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM		BDL	10					
2,4-Dinitrotoluene BDL 10 PPB EPA 625 08:45 06/07/94 FDM		BDL						
2,6-Dinitrotoluene BDL 10 PPB EPA 625 08:45 06/07/94 FDM		BDL	10					
Di-N-Octylphthalate BDL 10 PPB EPA 625 08:45 06/07/94 FDM		BDL	10					
Fluoranthene BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
Fluorene BDL 10 PPB EPA 625 08:45 06/07/94 FDM		BDL					, ,	
Hexachlorobenzene BDL 10 PPB EPA 625 08:45 06/07/94 FDM							• •	
Hexachlorobutadiene BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
Hexachlorocyclopentadi BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
Hexachloroethane BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
Indeno (1,2,3-cd) Pyre BDL 10 PPB EPA 625 08:45 06/07/94 FDM								
Isophorone BDL 10 PPB EPA 625 08:45 06/07/94 FDM								

# 94 JUL 11 AM 9:54

Hackney and Sons 06/23/94 Page 6

LAB ID: 222L02 SAMPLE ID: EFF#10-E

DIMIT ELD . ELI #10 E		Dob			_				
Parameter	Result	Det. Limit	** L	20-22-3		Analysis			
			Unit	Method	Time	Date	Anal.		
Naphthalene	BDL	10	PPB	EPA 625		06/07/94	FDM		
Nitrobenzene	BDL	10	PPB	EPA 625		06/07/94	FDM		
N-Nitroso-Di-N-Propyla		10	PPB	EPA 625		06/07/94	FDM		
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 625		06/07/94	FDM		
Phenanthrene	BDL	10	PPB ·	EPA 625		06/07/94	FDM		
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625		06/07/94	FDM		
1,2,4-Trichlorobenzene	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
Benzidine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
N-Nitrosodimethylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
4-Chloro-3-Methylpheno	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
2-Chlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
2,4-Dimethylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:45	06/07/94	FDM		
2,4-Dinitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625		06/07/94	FDM		
2-Methyl-4,6-Dinitroph	$\mathtt{BDL}$	10	PPB	EPA 625		06/07/94	FDM		
2-Nitrophenol	BDL	10	PPB	EPA 625		06/07/94	FDM		
4-Nitrophenol	BDL	10	PPB	EPA 625		06/07/94	FDM		
Pentachlorophenol	BDL	10	PPB	EPA 625		06/07/94	FDM		
Phenol	BDL	10	PPB	EPA 625		06/07/94	FDM		
2,4,6-Trichlorophenol	BDL	10	PPB	EPA 625		06/07/94	FDM		
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625		06/07/94	FDM		
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625		06/07/94	FDM		
P-chloro-m-cresol	BDL	10	PPB	EPA 625		06/07/94			
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625			FDM		
4-Methylphenol	BDL	10	PPB			06/07/94	FDM		
Nitrobenzene-d8	חתם	10		EPA 625		06/07/94	FDM		
			% Rec	EPA 625	08:45	06/07/94	FDM		
2-Fluorobiphenyl			% Rec	EPA 625		06/07/94	FDM		
p-Terphenyl-d14			% Rec	EPA 625	08:45	06/07/94	FDM		
Phenol-d6			% Rec	EPA 625	08:45	06/07/94	FDM		
2-Fluorophenol			% Rec	EPA 625		06/07/94	FDM		
2,4,6-Tribromophenol		_	% Rec	EPA 625	08:45	06/07/94	FDM		
Acetone	$\mathtt{BDL}$	5	ppb	EPA 824	0 21:05	06/09/94	ANM		

Apr-94	T		WATER TRE			<del>-</del>	<del> </del>		<del> </del>				Apr-94
	TEST	TEST	TEST	P.H. A	DDJUST	PHOSPA	TE ADDED	BUGS	PUMPIING	ARFA'A'	PUMPIING	ARFA 'R'	
	PH	AMMONIA	PHOSPHATE	LIME	CAUSTIC	LARGE TANK	METERING	ADDED	READING	TOTAL	READING	TOTAL	DATE
DATE	6.5		30	<del></del>	3		Merenia	ADDED	50320	0		0	1-Apr
1-Apr						<del> </del>		<del></del>	00020		120000		2-Apr
2-Apr	7		<del>, , , , , , , , , , , , , , , , , , , </del>		<u> </u>				<u> </u>				3-Apr
3-Apr	6.5	3	30		3	<del>                                     </del>		-	52170	1850	127050	6720	4-Apr
4-Apr	-						<del> </del>		02.70	1000	12.000	- 0,20	5-Apr
5-Apr	6.5	3			2				57850	7530	129800	9470	6-Apr
6-Apr	6	5	30		2	<del></del>		-	0,000	7000	120000		7-Apr
7-Apr	5.5		30		4	<del></del>	12	2 1	62570	12250	131970	11640	8-Apr
8-Apr					<del>                                     </del>		ļ	<u> </u>	32070	12200	101070	11040	9-Apr
9-Apr	6.5	2.5	20		<del>                                     </del>		<b> </b>	<del> </del>	<del>  </del>				10-Apr
10-Apr	6	2	15		2	5		<del> </del>	66250	15930	132990	12660	11-Apr
11-Apr	6.5	3	20	··· ·	2	<del></del>		<del> </del>	66380	16060	132990	12660	12-Apr
12-Apr	7	3	25			2		<del> </del>	00000	10000	102330	12000	13-Apr
13-Apr	6.5	1.5	20		<del> </del>	2							14-Apr
14-Apr	6		15	***************************************	2	6		<del> </del>					15-Apr
15-Apr				· · · · · · · · · · · · · · · · · · ·	<u></u>								16-Арг
16-Apr	6	5	30			2		-					17-Apr
17-Apr	6	7	30		2	2		1	66680	16360	133030	12700	
18-Apr	5	10	30		3				66720		133030		18-Apr
19-Apr	5.5	15	35		3		<del></del>	ļ <u>-</u>		16400		12700	19-Apr
13-дря 20-Арг	3.5	15			3			2	68230	17910	133680	13350	20-Apr
21-Apr	6	10	40						00000	40070	405400	44000	21-Apr
22-Apr	6.5	10	40					ļ	68990	18670	135160	14830	22-Apr
23-Apr	6.5	2	30		2	2	· · · · · · · · · · · · · · · · · · ·			04004	400500	40000	23-Apr
		2	25			2	<del></del>		71944	21624	136532	16202	24-Apr
24-Apr	6	1	25		2	3.5	***************************************	<b> </b>			4000000	4000000	25-Apr
25-Apr	6	2	25		2	1			75204	24884	1374822	1254492	26-Apr
26-Apr	6		30		2	3					445		27-Apr
27-Apr	6		30		2	2			76300	25980	138590	18260	28-Apr
28-Apr	6	1	25		5	5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		76920	26600	139700	19370	29-Apr
29-Apr													30-Apr
30-Apr	6.5	8.0	25			2			77880	27560	142353	22023	1-May
1-May												书	3
												当	RECEIVE
OTES:												r	<u> </u>
		R WENT DO	·····										<b>Z</b> Z
			OMPUTER STILL D										
20-94 PUT	IN NE	W COMMPUT	TER-STARTED U	PSYSTEM	4							3	

9: 54

CHAIN CUSTODY ENVIRONMENTAL LABORATORIES, INC. 11176 DOWNS ROAD 704/588-5076 FAX 704/588-2454 PINEVILLE, NC 28134 Phone Number: (9/9) 946-652 Client: Fax Number: (919) Purchase Order Number: _ *F79*. State: Certification Requirement: Contact Person Project Name: WATCH Sampled By: Charl □-No Rush Charges Authorized ☐ Yes By relinquishing this sample(s) to Laboratory Personnel, I warrant that I am authorized to enter into this agreement for the Client named above and that I authorize the below analysis subject to the terms and conditions on the reverse hereof. This agreement is governed by the terms and conditions on the reverse side hereof. Analysis charges shall be as included in the Laboratories fee schedule in effect at the time of the analysis. Time: 10:00 Time: 1/120 Relinquished By: Date: Time: Received By: Date: Time: Samples received on ice? Yes No □ Date & Time Sample ID Sampled Lab ID Other Analysis Preservative FPA METGOD USING ILE 10100 10:00 JCK 4-12-94

	 $\Box$				 _		_	$\perp$	 		 $\sqcup$	 $\perp$						
													-			TIC AboVE TO P.H. ACETONE, I *YLENES	INC And	LUTE
																XYLENES	2	enrice .
																	F	RECEIVED GROUND
•																		DAN I
																	AM 9	VEHIIR
				,													. 5t	IRES
																	· ·	3.
utosampler Pate Installed	ıple	er Location Time Installed		Flow	 	_CF	/GP	D	Fiel Res Ana	1			F t	Plea o th	se e l	sign and return the w _aboratory.	hite and	yellow copies

Analyst

Time/Date

(QA/QC Separate)

Date Picked Up

Composite Type:

₱□ Flow

Time Picked Up

☐ Time ☐ Hand

Flow

RECEIVED/EHNR DEM. GROUND WATER SEC.

94 JUL 11 AM 9:54



ENVIRONMENTAL LABORATORIES, INC.

11176 Downs Road Pineville, NC 28134 704/588-5076 FAX 704/588-2454

NC Certification Number: 305 SC Certification Number: 99032

05/03/94 Date of Report: Date Received : 04/13/94-

Approved By: X

Kenneth R. Richardson Laboratory Supervisor

Client: Hackney and Sons

P. O. Box 880

Washington, North Carolina 27889

Contact: Mr. Charles Mason

Customer Number: 5038

LABORATORY REPORT

LAB ID: 594K01

SAMPLE ID: INF #8-I

		Det.		Analysis			
Parameter	Result	Limit	Unit	Method	Time	Date	Anal
РН	7.96	0-14	s.u.	EPA150.1	10:25	04/13/94	RCD
Acetone	BDL	5	ppb	EPA 8240	16:40	04/25/94	FDM
Benzene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
Bromoform	$\mathtt{BDL}$	5	ppb	EPA 624	16:40	04/25/94	FDM
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	16:40	04/25/94	FDM
Carbon Tetrachloride	$\mathtt{BDL}$	5	ppb	EPA 624	16:40	04/25/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
Chloroethane	BDL	10	ppb	EPA 624	16:40	04/25/94	FDM
2-Chloroethylvinyl Eth	BDL	10	ppb	EPA 624	16:40	04/25/94	FDM
Chloroform	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	16:40	04/25/94	FDM
Dibromochloromethane	$\mathtt{BDL}$	5	dqq	EPA 624	16:40	04/25/94	FDM
1,2-Dichlorobenzene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,4-Dichlorobenzene	BDL	5	dqq	EPA 624	16:40	04/25/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,2-Dichloroethane	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,1-Dichloroethene	BDL	10	ppb	EPA 624	16:40	04/25/94	FDM
Trans-1,2-Dichloroethe	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,2-Dichloropropane	BDL	5	dqq	EPA 624	16:40	04/25/94	FDM
Cis-1,3-Dichloropropen	BDL	5	dqq	EPA 624	16:40	04/25/94	FDM
Trans-1,3-Dichloroprop	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM

#### RECEIVED/EHNR-DEM. GROUND WATER SEC.

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Hackney and Sons 05/03/94 Page 2

LAB ID: 594K01

SAMPLE ID: INF #8-I

		Det.			Ana:	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Ethyl Benzene	$\mathtt{BDL}$	5	ppb	EPA 624	16:40	04/25/94	FDM
Methylene Chloride	1730	5	ppb	EPA 624	16:40	04/25/94	FDM
1,1,2,2-Tetrachlorotha	$\mathtt{BDL}$	5	ppb	EPA 624	16:40	04/25/94	FDM
Tetrachloroethene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
Toluene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,1,2-Trichloroethane	$\mathtt{BDL}$	5	ppb	EPA 624	16:40	04/25/94	FDM
Trichloroethene	$\mathtt{BDL}$	5	ppb	EPA 624	16:40	04/25/94	FDM
Trichlorofluoromethane	$\mathtt{BDL}$	10	ppb	EPA 624	16:40	04/25/94	FDM
Vinyl Chloride	$\mathtt{BDL}$	10	ppb	EPA 624	16:40	04/25/94	FDM
Total Xylene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
Cis 1,2-dichloroethene	BDL	5	ppb	EPA 624	16:40	04/25/94	FDM
1,2-Dichloroethane-d4			% Rec	EPA 624	16:40	04/25/94	FDM
Toluene-d8			% Rec	EPA 624	16:40	04/25/94	FDM
4-Bromofluorobenzene			% Rec	EPA 624	16:40	04/25/94	FDM
Acenaphthene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
_	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (a) Pyrene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (g,h,i) Perylene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (k) Fluoranthene		10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Chloroethoxy) M	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Chloroethyl) Et		10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Ethylhexyl) Pht		10	PPB	EPA 625	08:15	04/19/94	FDM
4-Bromophenyl Phenyl E		10	PPB	EPA 625	08:15	04/19/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:15	04/19/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Chrysene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Dibenzo (a,h) Anthrace		10	PPB	EPA 625	08:15	04/19/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
3,3'-Dichlorobenzidine		10	PPB	EPA 625	08:15	04/19/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM

'Phenanthrene	BDL	10	PPB	EPA	625	08:15	04/19/94	FDM
Pyrene	BDL	10 .	PPB		625	08:15	04/19/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB		625	08:15	04/19/94	FDM
Benzidine	BDL	10	PPB		625	08:15	04/19/94	
1,2-Diphenylhydrazine	BDL	10	PPB		625	08:15	04/19/94	FDM
N-Nitrosodimethylamine	BDL	10	PPB		625	08:15		FDM
	BDL	10	PPB		625	08:15	04/19/94	FDM
	BDL	10	PPB		625	08:15	04/19/94	FDM
	BDL	10	PPB	EPA		08:15	04/19/94	FDM
	BDL	10	PPB	EPA		08:15	04/19/94	FDM
	BDL	10	PPB	EPA			04/19/94	FDM
	BDL	10	PPB	EPA		08:15	04/19/94	FDM
~	BDL	10	PPB			08:15	04/19/94	FDM
A == 1	BDL	10	PPB	EPA		08:15	04/19/94	FDM
	BDL	10		EPA		08:15	04/19/94	FDM
	BDL	10	PPB	EPA		08:15	04/19/94	FDM
	BDL	10	PPB	EPA		08:15	04/19/94	FDM
	BDL	10	PPB	EPA		08:15	04/19/94	FDM
	BDL	10	PPB	EPA		08:15	04/19/94	FDM
			PPB	EPA		08:15	04/19/94	FDM
	BDL	10	PPB		625		04/19/94	FDM
	BDL	10	PPB		625		04/19/94	FDM
Nitrobenzene-d8	BDL	10	PPB		625		04/19/94	FDM
2-Fluorobiphenyl			% Rec		625		04/19/94	FDM
z-rrgoronrbiiett Ar			% Rec	EPA	625	08:15	04/19/94	FDM

DEM. GROWID WATER SEC.

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# RECEIVED/EHNR DEM. GROUND WATER SEC.

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LAB ID: 594K01

SAMPLE ID: INF #8-I

		Det.			Anal	lysis	
Parameter	Result		Unit	Method	Time	Date	Anal.
p-Terphenyl-d14			% Rec	EPA 625	08:15	04/19/94	FDM
Phenol-d6			% Rec	EPA 625	08:15	04/19/94	FDM
2-Fluorophenol			% Rec	EPA 625	08:15	04/19/94	FDM
2,4,6-Tribromophenol			% Rec	EPA 625	08:15	04/19/94	FDM
• • • • • • • • • • • • • • • • • • •							
LAB ID: 594K02							
SAMPLE ID: EFF #8-E							
pН	6.68	0-14	s.u.	EPA150.1	10:30	04/13/94	RCD
Acetone	BDL	5	ppb	EPA 8240	18:02	04/25/94	FDM
Benzene	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Bromodichloromethane	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Bromoform	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Bromomethane	$\mathtt{BDL}$	10	ppb	EPA 624	18:02	04/25/94	FDM
Carbon Tetrachloride	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Chlorobenzene	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Chloroethane	$\mathtt{BDL}$	10	ppb	EPA 624	18:02	04/25/94	FDM
2-Chloroethylvinyl Eth		10	ppb	EPA 624	18:02	04/25/94	FDM
Chloroform	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Chloromethane	BDL	20	ppb	EPA 624	18:02	04/25/94	FDM
Dibromochloromethane	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
1,2-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	18:02	04/25/94	FDM
1,3-Dichlorobenzene	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
1,4-Dichlorobenzene	$\mathtt{BDL}$	5	ppb	EPA 624	18:02	04/25/94	FDM
1,1-Dichloroethane	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
1,2-Dichloroethane	BDL	5	ppb .	EPA 624	18:02	04/25/94	FDM
1,1-Dichloroethene	$\mathtt{BDL}$	10	ppb	EPA 624	18:02	04/25/94	FDM.
Trans-1,2-Dichloroethe		5	ppb	EPA 624	18:02	04/25/94	FDM
1,2-Dichloropropane	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Cis-1,3-Dichloropropen		5	ppb	EPA 624	18:02	04/25/94	FDM
Trans-1,3-Dichloroprop		5	ppb	EPA 624	18:02	04/25/94	FDM
Ethyl Benzene	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Methylene Chloride	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
1,1,2,2-Tetrachlorotha		5	ppb	EPA 624	18:02	04/25/94	FDM
Tetrachloroethene	55	5	ppb	EPA 624	18:02	04/25/94	FDM
Toluene	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
1,1,1-Trichloroethane	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
1,1,2-Trichloroethane	BDL	5	ppp	EPA 624	18:02	04/25/94	FDM
Trichloroethene	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Trichlorofluoromethane		10	ppb	EPA 624	18:02	04/25/94	FDM
Vinyl Chloride	BDL	10	ppb	EPA 624	18:02	04/25/94	FDM

RECEIVED/EHNR DEM. GROUND WATER SEC.

94 JUL 11 AM 9:54

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LAB ID: 594K02 SAMPLE ID: EFF #8-E

		Det.			Ana:	lysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Total Xylene	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
1,1,1,2-Tetrachloroeth	BDL	5	ppb	EPA 624	18:02	04/25/94	FDM
Cis 1,2-dichloroethene	$\mathtt{BDL}$	5	dqq	EPA 624	18:02	04/25/94	FDM
1,2-Dichloroethane-d4			% Rec	EPA 624	18:02	04/25/94	FDM
Toluene-d8			% Rec	EPA 624	18:02	04/25/94	FDM
4-Bromofluorobenzene			% Rec	EPA 624	18:02	04/25/94	FDM
Acenaphthene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Acenaphthylene	$\mathtt{BDL}$	10	РЪВ	EPA 625	08:15	04/19/94	FDM
Anthracene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (a) Anthracene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (a) Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (b) Fluoranthene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (g,h,i) Perylene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzo (k) Fluoranthene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Chloroethoxy) M	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Chloroethyl) Et	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Chloroisopropyl		10	PPB	EPA 625	08:15	04/19/94	FDM
Bis (2-Ethylhexyl) Pht	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
4-Bromophenyl Phenyl E	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzyl Butyl Phthalate		10	PPB	EPA 625	08:15	04/19/94	FDM
2-Chloronaphthalene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
4-Chlorophenyl Phenyl	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Chrysene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Dibenzo (a,h) Anthrace	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
1,2-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
1,3-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
1,4-Dichlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
3,3'-Dichlorobenzidine	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Diethyl Phthalate	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Dimethyl Phthalate	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Di-N-Butyl Phthalate	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
2,4-Dinitrotoluene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
2,6-Dinitrotoluene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Di-N-Octylphthalate	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Fluoranthene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Fluorene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Hexachlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Hexachlorobutadiene	BDL	10	PPB .	EPA 625	08:15	04/19/94	FDM
Hexachlorocyclopentadi	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Hexachloroethane	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM

DEM. GROUND WATER SEC. 94 JUL 11 AM 9:54

Hackney and Sons 05/03/94 Page 6

LAB ID: 594K02 SAMPLE ID: EFF #8-E

		Det.			Anal	ysis	
Parameter	Result	Limit	Unit	Method	Time	Date	Anal.
Indeno (1,2,3-cd) Pyre	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Isophorone	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Naphthalene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Nitrobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
N-Nitroso-Di-N-Propyla	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
N-Nitrosodiphenylamine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Phenanthrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Pyrene	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
1,2,4-Trichlorobenzene	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Benzidine	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
1,2-Diphenylhydrazine	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
N-Nitrosodimethylamine	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
4-Chloro-3-Methylpheno	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
2-Chlorophenol	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
2,4-Dichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
2,4-Dimethylphenol	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
2,4-Dinitrophenol	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
2-Methyl-4,6-Dinitroph	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
2-Nitrophenol	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
4-Nitrophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Pentachlorophenol	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
Phenol	BDL	1.0	PPB	EPA 625	08:15	04/19/94	FDM
2,4,6-Trichlorophenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
1,2-Diphenylhydrazine	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
4,6-Dinitro-o-cresol	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
P-chloro-m-cresol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Trans-1,3-dichloroprop	BDL	10	PPB	EPA 625	08:15	04/19/94	FDM
4-Methylphenol	$\mathtt{BDL}$	10	PPB	EPA 625	08:15	04/19/94	FDM
Nitrobenzene-d8			% Rec	EPA 625	08:15	04/19/94	FDM
2-Fluorobiphenyl			% Rec	EPA 625	08:15	04/19/94	FDM
p-Terphenyl-d14			% Rec	EPA 625	08:15	04/19/94	FDM
Phenol-d6			% Rec	EPA 625	08:15	04/19/94	FDM
2-Fluorophenol			% Rec	EPA 625	08:15	04/19/94	FDM
2,4,6-Tribromophenol			% Rec	EPA 625	08:15	04/19/94	FDM



March 20, 1991

Mr. John Mazzarino
President
Hackney Acquisition Company
Post Office Box 880
Washington, North Carolina 27889

RE: Hackney and Sons (East), Incorporated

Dear John:

Please find enclosed a post-acquisition Phase I assessment of groundwater below the Hackney and Sons (East), Incorporated facility. This report documents compliance with Kansallis-Osake-Pankki's (KOP) environmental compliance milestones established for the Washington, North Carolina facility. The text of this report is referenced in context of the Schedule 5.16 Credit Agreement and the Schedule 7.13 Environmental Remediation document.

ENSCI Corporation has completed a Phase I Groundwater Assessment of the referenced facility. This assessment has revealed a complex groundwater flow regimen consisting of three (3) distinct contamination impacted areas, and a variety of organic chemical contaminants. The groundwater study reveals the presence of a perched aquifer in the upper ten (10) feet of the strata underlying the Hackney facility. Analytical data gathered to date indicates that the majority of the chemical contamination may be confined to the uppermost aquifer.

A Phase II proposal, with a multi-phase approach to the remedial system design for the facility, is currently being completed. This proposal incudes a Pilot Scale treatment system designed to treat fifty (50) gallons per minute (gpm). The activation of a 50 gpm treatment unit, pumping from the upper perched aquifer, will yield significant data. This data includes: aquifer(s) response, groundwater treatability, and "treated" groundwater application options.

Review of the enclosed document by the Division of Environmental Management personnel will allow the "State" to develop a concrete regulatory position.

If you or the lenders have any questions with regard to this report, please do not hesitate to call.

1108 Old Thomasville Rd. • High Point, NC 27260 • 919-883-7505 • Fax 919-882-7958

March 21, 1991



Mr. Jim Mulligan
Regional Supervisor
North Carolina Department of Environment,
Health and Natural Resources
Division of Environmental Management
Post Office Box 1507
Washington, North Carolina 17889



RE: Hackney and Sons (East), Inc. - Washington, North Carolina

Dear Mr. Mulligan:

I have included one (1) bound copy of the Phase I Groundwater Assessment which has been compiled to meet various compliance "milestones" established by Hackney's lenders. As you are aware, these environmental schedules are part of the lending agreement between Kansallis-Osake-Pankki (KOP) and Hackney.

ENSCI Corporation and the new management of Hackney have kept the NCDEM, through you and your office, apprised of the ongoing effort by the new management of Hackney, to address and correct various environmental problems associated with prior operations at the Hackney site. The enclosed Phase I Groundwater Assessment is a continuation of the practices established by Hackney Acquisition Company, when Hackney and Sons (East) was acquired on August 31, 1990.

We hope to schedule a meeting with you and your staff in the near future, to discuss the results of this submission. There are a number of issues we would like to address, and after your review of this submission, we will focus our questions, on the future actions at the Hackney site.

Please give this matter your immediate consideration as ENSCI and Hackney are attempting to make all efforts possible to comply with the lending agreement and KOP requirements.

Very truly yours,

**ENSCI CORPORATION** 

Robert T. Cottam, III

President

RTC/few *

cc: John Mazzarino

Hackney Acquisition Company

1108 Old Thomasville Rd. • High Point, NC 27260 • 919-883-7505 • Fax 919-882-7958

Mr. John Mazzarino
President
Hackney Acquisition Company
March 21, 1991
Page 2

#### CERTIFICATION

ENSCI Corporation hereby certifies that all the tasks, operations, analytical procedures, tests, and information in this report are complete and factual as of this date (March 21, 1991).

The information contained within this report is limited to the scope of work and tests performed on the dates specified. The opinions expressed, therefore, make no warranty hereunder, and all warranties whether expressed, implied, or statutory, are hereby excluded and disclaimed by ENSCI Corporation. In no event shall ENSCI Corporation, its employees, agents, or representatives be liable for consequential or incidental damages. ENSCI Corporation's liabilities to Hackney and Sons, Inc., their lenders, successors and assigns are limited to fraudulent statements herein or gross negligence.

#### **ENSCI 'CORPORATION**

By: Robert T. Cottam, III	Date: 3-21-91
President	
By: Jugary 17. Richardson Gregory NV Richardson	Date: 3.71-91
Vice President	
By: Brune K. Graswell	Date: 3-2/-9)
Bruce K. Braswell Hydrogeologist	



#### HACKNEY AND SONS (EAST), INCORPORATED

400 HACKNEY AVENUE WASHINGTON, NORTH CAROLINA 27889

Prepared By:

ENSCI CORPORATION

1108 Old Thomasville Road High Point, North Carolina 27260 FACILITY NAME:

HACKNEY AND SONS (EAST), INCORPORATED

FACILITY LOCATION:

400 Hackney Avenue

Washington, North Carolina

CLIENT CONTACT:

Steve Hill

Vice President/Operations

Hackney & Sons, Inc.

AUDITORS:

Bruce K. Braswell

Hydrogeologist

Henry M. Havener

Senior Environmental Éngineer

REPORT PREPARED BY:

Bruce K. Braswell

ASSESSMENT DATES:

October 7, 1990 to October 20, 1990

REPORT DATE:

March 20, 1991

#### INTRODUCTION

ENSCI Corporation, in compliance with Schedules 7.13 and 5.16 for Environmental Remediation and Environmental Matters, respectively, has completed a Phase I Groundwater Assessment for the Hackney & Sons (East), Incorporated facility located in Washington, North The environmental compliance respective milestones, were established by Kansallis - Osake -Pankki's (KOP) lending agreement with the Hackney Acquisition Company. ENSCI Corporation completed the Phase I field work associated with this groundwater assessment during the period of October 7, 1990 through October 20, 1990. The following text describes work that has been accomplished as of February 12, 1991 to determine the hydrogeology, plume locations, and contaminant levels at the Hackney & Sons, East facility.

#### DISCUSSION

#### HYDROGEOLOGY

ENSCI Corporation has concluded an initial groundwater assessment of a twenty-three (23) acre facility occupied by Hackney and Sons (East), Incorporated in Washington, North Carolina. The Hackney facility lies within the coastal plains region of the State and is underlain by sediments composed primarily of Miocene age materials deposited by fluvial marine processes. These sediments are known as the Yorktown Formation within the coastal plain area of North Carolina.

To accomplish the groundwater assessment, ENSCI Corporation installed one (1) 6" pumping well and seven (7) observation wells at the Hackney facility during October, 1990 (see Figure 1). A twelve (12) hour pre-pump test, a twenty-four (24) hour drawdown test, and a recovery test were made at the facility using an In-Situ Hermit 2000 Data Logger. The Hermit 2000 is a field data acquisition instrument designed to record changing groundwater elevations in monitoring well clusters during pump tests.

In the field, pressure transducers were located in the observation wells and a central well was pumped at a constant rate for a twenty-four (24) hour period (see Figure 2). The Hermit instrument is designed to take water level readings at a predetermined setting and the result is a data file that consists of time and respective groundwater elevation drawdowns recorded in the observation wells.



# 

**4**0₩ #2

# HACKNEY AND SONS INCORPORATED

€B #1

1

WELL	X	Y
₽₩	0	0
OW #1 _S	4	45
ow #1 _D	6.5	55.5
OW #2	12	201
OW #3	4.9	-19
OW #4	93	37
OW #5		4 46
SB #1	-17	0 87.5

SCALE: 1" = 40"

REFERENCE FIGURE 1 FOR WELL CLUSTER LOCATION

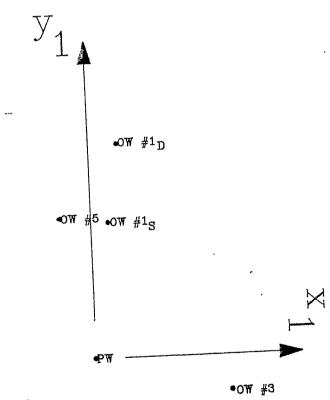


Figure 2

•O₩ #4

ENSCI Corporation used the data from this twenty-four (24) hour pump test to calculate transmissivity and storage coefficients for the Yorktown Formation aquifer below the Hackney & Sons, East facility (see Appendix 1). ENSCI Corporation then modeled the groundwater to determine the worst-case pumping rates for the remedial system that is to be designed for this facility. The groundwater treatment system design requires an estimate of the pumping rates and gallon per minute (GPM) volume of groundwater to be treated.

ENSCI Corporation used a variety of modeling programs on data generated from the October, 1990 field operations. These modeling programs include: HJ-Match, Water-Vel, BestWells, Stepmatch, and Papadop. Field investigations, analysis of the generated data file, and computer modeling determined that the media below the Hackney & Sons Incorporated (East) facility, i.e. the Yorktown Formation, possesses the following hydrologic properties:

- Two aquifers apparently exist in the upper forty (40) feet of Yorktown sediments.
- A perched aquifer is apparently present in the upper 10' 11' of strata.
- The "lower" Yorktown aquifer is water prolific.
- Anisotropic flow conditions exists in the "lower" Yorktown aquifer.
- A direct hydrologic connection with the underlying Castle Hayne Formation.

During the October, 1990 investigation, drilling revealed that an apparently competent clay rich sand layer is present at approximately 10 to 11 feet in depth. The layer was encountered at the same approximate depth across the entire facility and appears to act as an aquitard (see Cross Section A-A¹). This aquitard apparently restricts the downward migration of groundwater and results in the development of two distinct aquifers below the facility (see Figure 3). An upper unconfined aquifer is perched on the aquitard. Below the aquitard, an aquifer exists in the balance of the Yorktown Formation. The Yorktown Formation is directly connected to the Castle Hayne Formation at a depth of about forty (40) feet.

# HACKNEY AND SONS (EAST), INCORPORATED WASHINGTON, NORTH CAROLINA

# GENERAL GEOLOGIC CROSS SECTION

	^		
			Clean fill sand averages 2' - 3' in thickness. Composed primarily of poorly sorted sand, tan in color, average grain size 177-250 microns.
	1		Humic layer approximately one foot in thickness. Many times possess strong hydrocarbon odors; nossibly indicating the use of motor fuel to suppress dust
	.		Clean well sorted sand, tan to grey in color. Average grain size 177-250 micronsin size with clasts up to 1410 micron in size. Minor amounts of
	0		clay present.
Ì			Sand rich clay layer tan to brown in color. Average grain size of quartz/feldspar grains 177-250 microns. Material is cohesive and occurs at the same approximate interval in every boring advanced at the site.
	}		Clean well sorted sand tan to grey in color. Average grain size 177-250 microns. Basal contact very sharp with underlying shell hash.
			Poorly sorted shell hash light brown to dark grey in color. Shell fragments up to 3.0cm in size. Some clay and quartz/feldspar grain present.
<b>.</b>	20-	7-1-	
4 177 7	.0-	2 2 2 1	Poorly sorted fossiliferous sand 350-500 micron in size. Sand with abundant shell fragments grading downward into a shell rich material with little sand. Upper sand rich material is light brown in color and shell rich layer is light grey in color.
	1	~/=-	
	-		Poorly sorted shell rich sand layer. Average sand grain size 350-500 microns in size. Sand composed primarily of quartz with minor feldspar. There are lithoclasts composed of shell fragments cemented with calcite spar up to .5cm in diameter.
	20		Spar up to .Jem in diameter.
	30- -		Moderately well indurated material composed primarily of shell debris, a coquina, with clasts up to 3+cm in size. The material is dark grey in color with 350-500 micron size quartz and feldspar grains. The cement is a calcite spar and there are also heavy mineral suite grains present.
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1	40 -		
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شه	-		

Vertical Scale: lcm = 2'

During the twenty-four (24) hour pump test, it was established that the uppermost unconfined aquifer and the aquifer below the aquitard are not well connected hydraulically. During the drawdown test, it was noted in the data file that observation well #5, which was in the proximity of observation well #1 $_{\rm s}$  (see Figure 2), did not record any significant drawdown through the 24 hour withdraw period. The pumping well and observation well #1 $_{\rm s}$  shallow were case and screened below the clay layer. Observation well #5 was essentially a 10 foot length of well screen installed above the clay layer. Observation Well #5 did not indicate any significant drawdown as a result of pumping 12 gpm below the clay layer approximately fifty feet away.

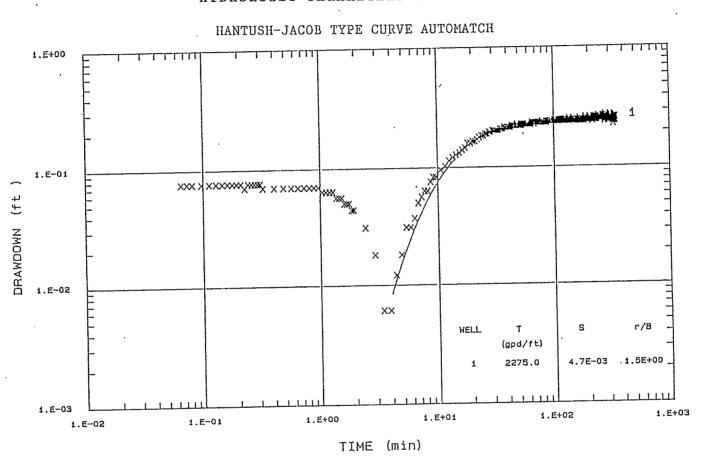
Computer modeling accomplished using the HJ-Match program and the data file created with the Hermit 2000 indicates very large values of transmissivity and storage coefficient for the lower Yorktown aquifer. As seen in Figures 4, 5, 6, and 7, there is a wide variety of calculated values. This broad range of values can be attributed to preferential flow directions in the lower Yorktown media. The higher yield values predicted by the HJ-Match program are from data in observation wells that apparently have a better alignment with the pumping well and preferred flow directions in the media.

The anisotropy of groundwater flow in the lower confined Yorktown aquifer is apparently not related to the proximity of the Tar River (see Figure 8, Appendix 2). The preferential flow directions in the lower Yorktown aquifer are thought to be related to the processes by which this formation was deposited. In the coastal plain area, during the Miocene, sediments were deposited by fluvial/marine and beachhead processes that accumulated to form the present day Yorktown Formation.

ENSCI Corporation attempted to calculate the preferred flow direction, but the attempt proved futile. The positions of observation wells #3, #4, #1s, and #1d tend to fall along a line perpendicular to the direction of groundwater flow, rather than a triangle (see Figure 2). The directional transmissivity modeling program Papadop requires a triangle of wells with calculated transmissivity and storage coefficient to determine the directional flow component, mean transmissivity, and mean storage coefficient.

During power drilling operations, analysis of recovered split spoon samples and well cuttings indicated that a distinct clay layer commonly separating the Yorktown Formation from the Castle Hayne Formation is absent in this area of the coastal plain. As seen in Cross Section  $A-A^1$  and Appendix 3, well logs generated during drilling operations indicated that the expected clay layer is missing.

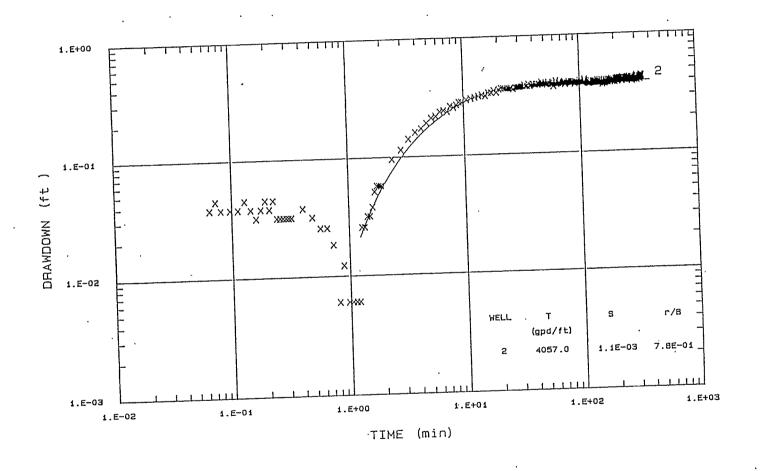
# HACKNEY AND SONS (EAST) INCORPORATED HYDROLOGIC PARAMETERS CALCULATION



OBSERVATION WELL #1s

# HACKNEY AND SONS (EAST) INCORPORATED HYDROLOGIC PARAMETERS CALCULATION

HANTUSH-JACOB TYPE CURVE AUTOMATCH



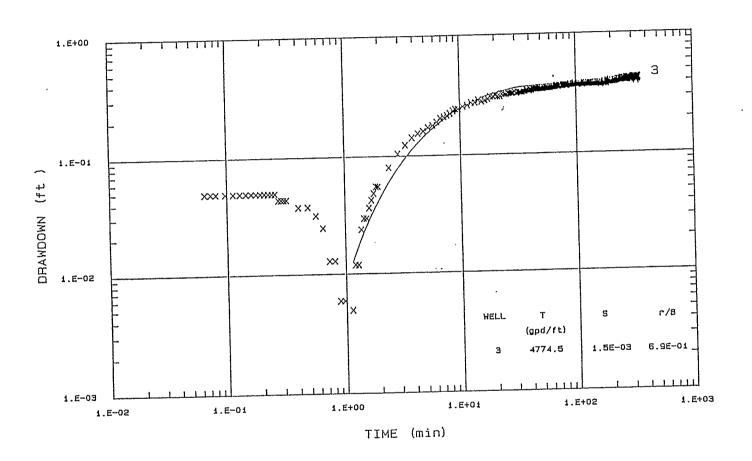
OBSERVATION WELL #1d

FIGURE 5

HACKNEY AND SONS (EAST) INCORPORATED

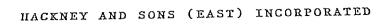
## HYDROLOGIC PARAMETERS CALCULATION

HANTUSH-JACOB TYPE CURVE AUTOMATCH



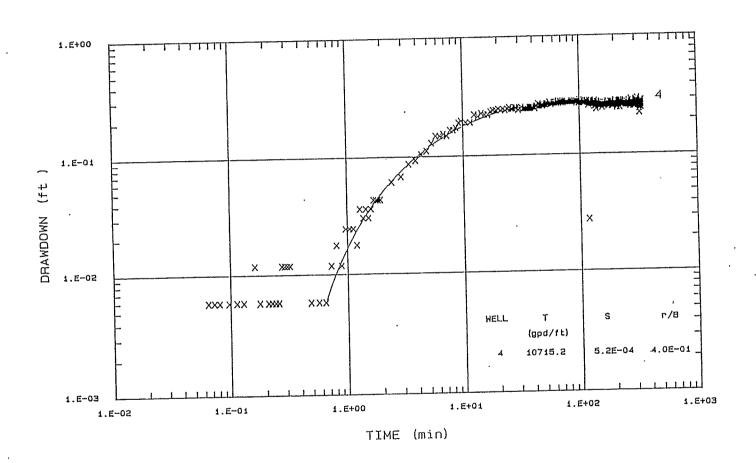
OBSERVATION WELL #3

FIGURE 6



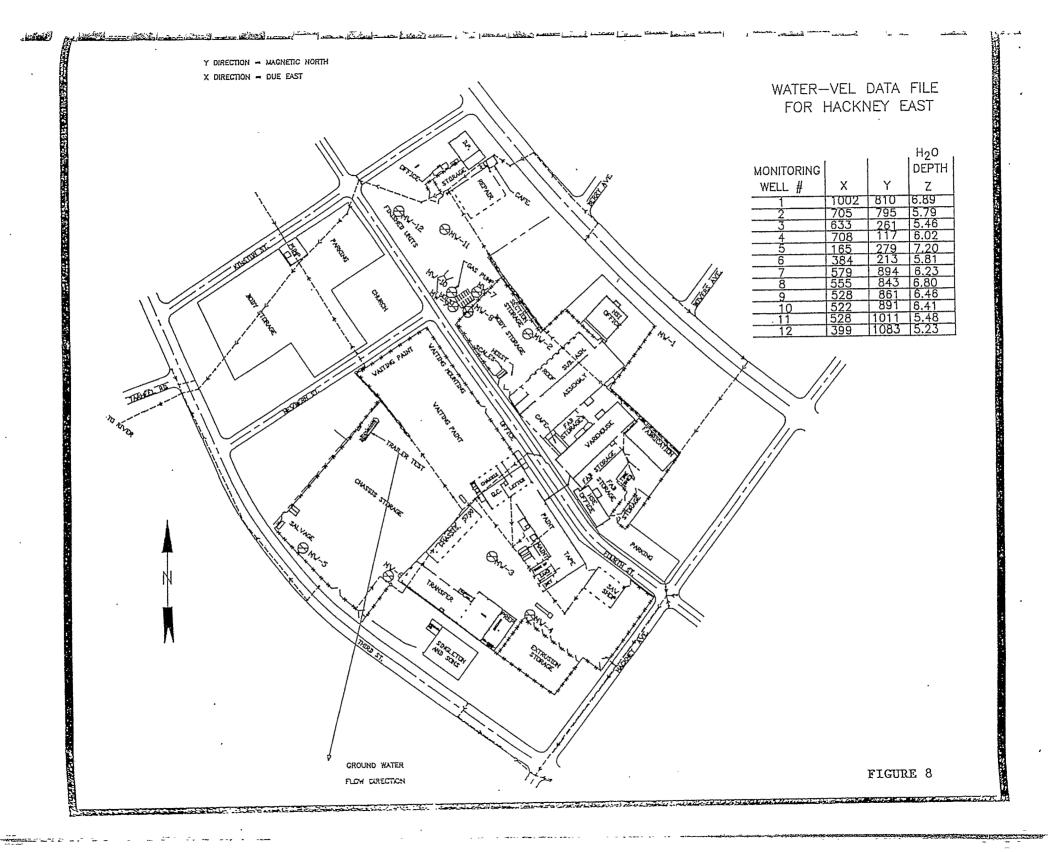
### HYDROLOGIC PARAMETERS CALCULATION

HANTUSH-JACOB TYPE CURVE AUTOMATCH



OBSERVATION WELL #4

FIGURE 7



As seen in Figure 2 and Appendix 3, observation well #1d, which was only screened in the Castle Hayne Formation recorded a drawdown up to 4/10 of one foot as a result of pumping 12 gpm eighty two (82) feet away. The data is significant in that the hydraulic head of the Castle Hayne is influenced by pumping in the Yorktown Formation.

#### PLUME LOCATIONS

ENSCI Corporation conducted two (2) field sampling sessions at the Hackney & Sons (East), Incorporated facility. The first field program was conducted as part of a Remedial Risk Assessment from July 18, 1990 - July 22, 1990. During this period, ENSCI Corporation personnel acquired a total of sixty-three (63) samples from the subject facility. The second field session was conducted from October 7, 1990 through October 20, 1990. During the second field session, ENSCI Corporation acquired twenty-three (23) samples for analysis. Analytical results from both field sessions are included in Appendix 4.

The groundwater sampling and analyses completed to date indicate three (3) plumes/impacted areas are present at the Hackney facility. As seen in Figure 1, one area of concern occurs in the vicinity of the extrusion storage area. A second area of concern is near the trailer test facility located centrally in the western half of the property. A third area of concern begins in the northern part of the Hackney facility near the repair area. The repair area is where truck bodies were stripped with methylene The resulting paint chips and methylene chloride were then discharged into the storm drain. The storm drain leads away from the repair area in a westerly direction, turns to the southwest through the parking area, and passes near the sanitary pump station. This pump house is a lifting station of the City of Washington's sanitary sewer system. The other impacted storm drain crosses the area where the truck bodies are waiting paint and the chassis storage area; the drain divides those two areas, crosses Newbern Street, and ties into the storm drain leading away from the repair area near the pump house.

#### STORM DRAINS

During the July, 1990 field session, a total of twenty-three (23) samples were taken along the length of the storm drains (see Figure 1). The samples were analyzed for volatile organic compounds (EPA Method 8240), several samples were tested for oil and grease (EPA Method 9071), and one sample was tested for polychlorinated biphenyls (PCB's). Results of these analysis indicated that elevated levels of volatile organic compounds exist along the length of the storm drains (See Figure 9). The data, coupled with field observations, indicated the presence of "mini-plumes" sourced from each joint in the storm drain pipe along most of the length of the pipe.

July field observations noted 8" - 12" of sediment in the storm drain pipe from the methylene chloride stripping operation to the pump house (see Figure 1). This sediment was composed of a basal 4" - 6" of paint sludge, followed by sand mixed with paint chips and some type of polymer bead used by Coastal Water Systems in their water softening process. As seen in Appendix 2 of the December 3, 1990 Post Acquisition Report, these sediments were removed and stockpiled on Hackney property on September 14, 1990.

Prior to the September, 1990 removal of the storm drain sediments, the material was sampled and analyzed using TCLP parameters. The results indicated that the material is non-hazardous by characteristic (Appendix 5). The October, 1990 sampling of the stockpiled material removed from the storm drains indicated that the material was hazardous by characteristic (Appendix 6). Due to the discrepancy in the two (2) sets of analytical data, ENSCI Corporation sampled the stockpiled material again on 2/21/91 for analysis using TCLP parameters. ENSCI is currently awaiting results of the analysis.

Field observations made during excavation of test pits near the storm drain, running from the methylene chloride stripping operation to the pump house, indicated that the paint sludges have escaped at the storm drain pipe joints and formed small plumes. The largest paint sludge plume noted was along the storm drain adjacent to the pump house (SD #4 and SD #5). At this locality, the paint sludge plume appeared to extend approximately 15' - 20' in a southeastward direction away from the storm drain pipe subparallel to Kinston Street. The paint sludge plumes appear to have a very limited vertical extent (<2' thick) and appeared to have spread horizontally in a pancake-like fashion nearly parallel to the surface topography.

#### TRAILER TEST AREA

The purpose of the July and October, 1990 sampling in the vicinity of the Trailer Test Area was two-fold. First, there is a potential for the infiltration of organic chemicals discharged by Hackney operations into the storm drain at the outfall of the storm drain pipe in the proximity of Wells Junkyard (see Figure 1). Secondly, there is a very great potential that organic chemicals detected by Law and ENSCI were sourced from Wells Junkyard. Wells Junkyard is an apparently defunct operation that covers approximately 1/2 acre at the intersection of Newbern Street and Third Street. Field observations indicated heavily stained soils in the junkyard and approximately one hundred and fifty (150) drums in poor condition. Several drums on Wells property had obvious leaks of what appeared to be some type of oil. There was also a cluster of approximately fifteen to twenty drums adjacent to the chassis test area, on Wells property, that were upside down with the bungs removed.

A total of ten (10) samples were taken in the proximity of the open drainage ditch and adjacent to Wells Junkyard. Analytical results, coupled with field observations, indicate that this area has moderately elevated levels of organic chemical contaminants (see Figure 10). Of particular concern are the levels of 1,1 - Dichloroethene, Ethylbenzene, total Xylenes, 1,1,1 - Trichloroethane, and Toluene.

#### EXTRUSION STORAGE AREA

Sampling in the proximity of the extrusion storage area, preparation/undercoating, and the Buggy Works building was prompted by the Law Phase II report for Hackney & Sons (East), Incorporated. A sample taken by Law (UGW-1) contained very high levels of Tetrachloroethene (.690 ppm), the level for TCLP land banned is .7 ppm. ENSCI recovered ten (10) samples in the proximity of where UGW-1 was taken and the analytical results revealed much lower levels of tetrachloroethene. There were, however, elevated levels of other organic chemical contaminants at this location (see Figure 11).

#### REMEDIAL SCHEME

ENSCI Corporation, as a result of computer modeling, has determined that a multi-phase approach should be taken towards treatment of the groundwater at this facility. This multi-phase approach includes the acquisition of additional analytical data, pumping response data, and the installation of a pilot scale groundwater treatment system to enhance our knowledge of treatability of groundwater, given the contaminants present.

Concurrent with the design and construction of the pilot scale treatment facility, discussions need to be held with the National Spinning Company, and other water users in the proximity of the Hackney facility, to find a potential end user for water that is pumped and treated from the Hackney property. The opening of these discussions is important with respect to treatment system design constraints. If the aquifer response data indicates that treated groundwater does not need to be reintroduced into the Yorktown, and it is possible to pipe this water to the National Spinning Company; then disposal of the treated water problem is eliminated.

Due to problems with the wastewater treatment plant in Washington, North Carolina, ENSCI Corporation is of the opinion that it will not be possible to discharge treated groundwater into the POTW. There are only three (3) potential options available at this time.

#### POSITIVE ANALYTICAL RESULTS

Trailer Test Area (Sample Results Reported in ppm)

EPA Method 8240 EPA Method 624 & 625*

							,		-		Groundwater N.C.A.C. Subchapter 2L Section .0200 Groundwater Standards
	WSB1	WSB2	WSB3	WSB4	WSB5	WSB6	WSB7	SD26	MW15	WSB2-2	Groundwater Standards
Benzene	.836	1.011	.980	.736	.814	.079	.052	.040		.852	.001
Chloroform	.309	.272	.372	.357	.384	.086	.031		.008	.336	.00019
1,1 - Dichloroethane	,			.010					.100	.140	. NS
1,1 - Dichloroethene									4.200	.360	.007
trans - 1,2 - Dichloroethene				-					.011		ns
Dichloromethane	.099	.101	.147	.100	.106	.104	.084	.141			.005
Ethylbenzene	.040	.067	.052	.089	.030	.723				20.583	.029
Styrene		••••							.058		$1.4 \times 10^{-5}$
Tetrachloroethene	.030	.011	.094	.032		.016	.012	.010	.018	.015	.0007
Toluene	.027	.138	.035	.480	.022	4.030	.034	.029	.130	12.597	1.0
1,1,1 - Trichloroethane				.043					70,000	2.521	. 2
Trichloroethene	.041	.037	.037	.164	.045	.031			.050	.047	.0028
									.011		ns
m-xylene									.007		ns
o,p-xylene Total xylenes		.167		.459		4.350				153.537	0.4

^{*} Sample MW15 only.

FIGURE 10

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POSITIVE ANALYTICAL RESULTS

Extrusion Storage Area (Sample Results Reported in ppm)

EPA Method 8240

	20151	BWS2	BWS3	BWS4	BWS5	BWS6	BWS7	BWS8	BWS4-2	BWS1-B	Groundwater N.C.A.C. Subchapter 2L Section .0200 Groundwater Standards
Benzene Chloroform	.728	.842 .219	.811	.911	.838	1.380	.791 .275	.804	.857 .339	.623 .243	.001 .00019 NS
1,1 - Dichloroethane 1,1 - Dichloroethene			•						•		.007 NS
trans - 1,2 - Dichloroethene Dichloromethane Ethylbenzene	.100	.104	.190 .038	.131	.115	.129 .061	.114	.094	.106 .062	.110 .039	.005 .029 1.4 x 10 ⁻⁵
Styrene Tetrachloroethene	.146	.238 .095	.099	.017	.027	.079	.049	.121	.013	.254 .035	.0007 1.0 .2
Toluene  1,1,1 - Trichloroethane Trichloroethene	.043	.104	.050	.052	.040	.032	.043	.033	.055	.029	.0028 NS NS
m-xylene o,p-xylene Total xylenes	.027		.030				.042				0.4

The first is to pipe the treated water to an end user, i.e. National Spinning. The second is to establish an infiltration system on site where water will be pumped out of the ground, treated, and then infiltrated back into the Yorktown Formation via an infiltration gallery and/or a french drain. The third option is discharge of treated groundwater using an NPDES permit. This phase of the remedial program is crucial because much of the design of the full scale remedial system is dependent on what the ultimate disposition of the treated groundwater will be.

Based on groundwater modeling completed to date, ENSCI Corporation would like to install an air stripper and related pretreatment and carbon absorption units rated at 50 qpm in the proximity of the Trailer Test Area. We want to bring this pilot scale treatment system on line and monitor the groundwater over a period of months to get a better analysis of the behavioral patterns of the aquifers below the Hackney facility. Due to the anisotropic nature of the media being treated, and the limited data generated by one drawdown test, it is the opinion of ENSCI Corporation that a great deal of caution needs to be employed when approaching a full scale solution to the contaminant problems at this facility. It is the desire of ENSCI Corporation to monitor and model the groundwater based on newly generated information from both aquifers as this Once the treatment system in the proximity of the Trailer Test Area is activated, the information yielded by an actual on-line system should enhance our knowledge of the hydraulic conditions occurring at this site.

The second and third remedial phases will be conducted concurrently. The first of these two phases is the installation of recovery and monitoring wells in the proximity of Extrusion Storage Area and the Buggy Works.

While this operation is going on, recovery/monitoring wells will be installed along the length of the storm drain leading away from the repair area. This storm drain was the receptor for methylene chloride and paint chips that were generated by the methylene chloride stripping operation that was conducted at the repair facility.

#### CONCLUSION

ENSCI Corporation has completed a Phase I groundwater assessment of Hackney and Sons (East), Incorporated. This assessment has indicated that a rather complex hydrologic system exists in the Miocene age Yorktown Formation underlying these areas of the coastal plain and the Hackney facility. ENSCI discovered that two (2) distinct aquifers were present during the hydrogeological investigation. The upper, unconfined aquifer, is perched on a clay rich sand layer that begins at approximately ten (10) feet in depth. This aquitard was discovered at the same approximate level below the entire twenty-three (23) acre facility. The underlying aquifer is present in the balance of the Yorktown Formation, approximately twenty-seven (27) feet in thickness, and is directly connected to the Castle Hayne Formation.

Modeling of groundwater completed to date has indicated that the lower aquifer of the Yorktown Formation is anisotropic with respect to groundwater flow. The anisotropy is probably related to the Miocene age depositional system that left these sediments. The anisotropy manifests in variability seen in the transmissivity and storage coefficient calculations. Preferential directional flow components in the Yorktown Formation media result in anomalous transmissivity and storage coefficient calculations. The range of calculated values for well yields vary from approximately 2,000 gallons/day/linear foot of screen up to 10,000 gallons/day/linear foot of screen. Without additional data, we can project that the actual values will fall between 4,000 and 5,000 gallons of yield per foot of well screened interval per day.

The presence of the aquitard and anisotropy of the lower Yorktown aquifer complicated a modeling program used by ENSCI Corporation to predict well locations, pumping rates, and the contours of the The modeling program, called expected cone of depression. BestWells, is a time sharing program owned by In-Situ, Inc. and run on a VAX computer. As indicated under the Hydrogeology section of this report, the directional component of the Yorktown Formation compromised the predicative ability of the BestWells program. The problem resulted from the positions of observation wells #3, #4,  $\#1_s$ , and  $\#1_d$ ; which tend to fall along a line perpendicular to the direction of groundwater flow. As a result of this unfortunate alignment, the directional flow component of the media was not The BestWells program will not run without the directional data. It was not possible to determine the presence of the directional flow component prior to the installation of the monitoring wells and completion of the twenty-four (24) hour pump test.

Sampling of groundwater, completed to date, has indicated three (3) plumes/impacted areas at the Hackney facility. ENSCI Corporation suspects that the majority of the identified contaminants are "perched" in the upper unconfined aquifer. The Phase II Scope of Work presently being compiled for this facility will address the issue. At least two (2) deep wells, cased and sealed into the aquitard, should be installed in the deeper aquifer of two (2) of the identified impacted areas. These areas included the Extrusion Storage Area and the Trailer Test Area. Sampling of these wells will indicate if a remedial system will need to address the deeper aquifer of the Yorktown Formation.

Due to the inconclusive groundwater modeling, limited analytical data, and general uncertainty of the shallow aquifer response to continuous pumping, ENSCI Corporation suggests that a Pilot Scale treatment system be installed and activated in the impacted areas.

A systematic phased approach to the full scale treatment system development will allow more certain predictions of pumping rates, treatment system design constraints, O & M costs, enhanced plume definition, and treated water disposal. Critical review of this document by regulatory personnel, and their development of a more concrete regulatory position, will also assist in enhancing the remedial system design.

If I can be of further assistance or answer any questions, please do not hesitate to call.

Very truly yours,

ENSCI CORPORATION

Hydrogeologist

Bruce K. Braswell

BKB/few

# HACKNEY AND SONS (EAST), INCORPORATED GROUNDWATER REMEDIATION - PHASE II PROPOSAL

#### GROUNDWATER FLOW REGIMEN

As seen in the Phase I Groundwater Assessment Report, Hackney and Sons (East), Incorporated, has a complex aquifer system located directly below the facility site in the Yorktown Formation. ENSCI Corporation discovered that there are two (2) aquifers at the Hackney and Sons (East), Incorporated facility during the October, 1990 Phase I Groundwater Assessment. There is an upper unconfined aquifer perched on an aquitard approximately ten (10) feet in depth (see Figure 1). This upper perched aquifer is not well connected hydraulically to the aquifer remaining in the balance of Yorktown Formation sediments (approximately 27 feet). It also appears the lower Yorktown Formation aquifer and the Castle Hayne Formation aquifer are hydraulically connected.

ENSCI Corporation performed one (1) pump test in the lower Yorktown Formation aquifer at the Hackney and Sons (East), Incorporated facility during October, 1990. This drawdown test was accomplished via one (1) six inch pumping well and seven (7) observation wells (see Figure 2). A twelve (12) hour pre-pump test, a twenty-four (24) hour drawdown test, and a recovery test were made at the facility using an In-Situ Hermit 2000 Data Logger. The Hermit 2000 is a field data acquisition instrument designed to record changing groundwater elevations in monitoring well clusters during pump tests. In the field, pressure transducers were located in the observation wells and a central well was pumped at a constant rate for a twenty-four (24) hour period (see Figure 3). The Hermit instrument is designed to take water level readings at a predetermined setting and the result is a data file that consists of time and respective groundwater elevation drawdowns recorded in the observation wells.

ENSCI Corporation took the information generated by the twenty-four (24) hour pump test and used the data file generated to calculate the transmissivity and storage coefficient for the lower Yorktown aquifer below the Hackney and Sons (East) facility. Data generated to date indicates groundwater flow rates in the lower aquifer of 2,000 gallons per day, per linear foot of screened interval, up to 10,000 gallons per day, per linear foot of screened interval. The variability observed in calculated transmissivities is a result of the anisotropic nature of the media. It is the opinion of ENSCI Corporation that additional data from both aquifers is needed before the full scale remedial system can be designed for the Hackney and Sons (East) facility.

#### PROPOSED SCOPE OF WORK

Due to the complexity of the aquifer system at the referenced site, ENSCI Corporation proposes a Phase II Groundwater Assessment. The proposal involves the installation of four (4) inch diameter monitoring/recovery wells into both aquifers and two (2) inch observation wells in the shallow aquifer. These wells will be installed into all three (3) impacted areas in various configurations. After installation, development, and sampling, these wells will be used to perform a pump test in the Trailer Test Area and the Extrusion Storage Area. The benefits provided by two (2) additional pump tests include:

- Confirmation of the aquitard presence in impacted areas away from the repair facility.
- Acquisition of time/drawdown data necessary to calculate transmissivity and storage coefficients of the upper aquifer in two (2) impacted localities.
- Further evaluate the relationship between the Yorktown Formation Aquifer and the Castle Hayne Aquifer.

Following completion and evaluation of the Phase II Groundwater Assessment, Phase I of the Remedial Action Plan will commence. This plan calls for the installation of a groundwater treatment system rated at fifty (50) gallons per minute. The system will be installed and activated in the proximity of the extrusion storage area to assess the impact of groundwater pumping away from any structures supported by the upper ten (10) feet of strata. Any settling detected in the proximity of the cone(s) of depression around the Trailer Test Area will require a non-discharge disposal of treated groundwater where structures may be compromised.

To accomplish this goal, ENSCI Corporation proposes the following scope of work:

#### EXTRUSION STORAGE AREA

Due to the complex nature of the aquifer system, and the confirmation of organic chemical contamination in the upper unconfined aquifer in the proximity of the Extrusion Storage Area, ENSCI Corporation proposes to install one (1) well nest consisting of one (1) shallow and one (1) deep four (4) inch diameter monitoring well. The deep four (4) inch diameter well will be cased and pressure grouted to the clay layer and then advanced and screened below. The shallow four (4) inch diameter well will consist of a ten (10) foot length of well screen perched on top of the clay layer. In addition, ENSCI Corporation proposes to install six (6) shallow (10') observation wells along the fence bordering the buggy works facility and along the side of the undercoating

building (see Figure 2). The well nest, both the shallow and the deep well, will be sampled for volatile and semivolatile organic chemical constituents using EPA Method 624 and 625. Both of these wells will also be sampled for RCRA Metals. Four (4) of the shallow observation wells will be sampled using EPA Method 624 and 625 to enhance our knowledge of the shallow plume extent.

#### TRAILER TEST AREA

In the proximity of the Trailer Test Area/Wells Junkyard, ENSCI Corporation proposes to install one (1) well nest as described above. ENSCI will also install six (6) observation wells in the shallow unconfined aquifer along the two (2) sides of Wells Junkyard that border Hackney owned and Hackney leased property (see Figure 2). ENSCI will sample the well nest using EPA Method 624 and 625 for volatile and semivolatile organic chemical constituents. The well nest will also be sampled for RCRA Metals. ENSCI will sample four (4) of the six (6) shallow observation wells using EPA Method 624 and 625 to enhance the shallow plume definition in this area.

#### STORM DRAINS

ENSCI Corporation proposes to install three (3) shallow observation/monitoring wells along the length of the storm drains (see Figure 2). ENSCI will sample these wells using EPA Method 624 and 625 for volatile and semivolatile organic chemical constituents. This data will enhance our knowledge of organic chemical constituents present in groundwater. The July, 1990 sampling along the length of the storm drains acquired saturated soil samples that may present data differing from actual groundwater samples.

#### UPGRADIENT BACKGROUND WATER QUALITY

ENSCI Corporation proposes to install one (1) deep monitoring well in the proximity of observation well #2 to the northwest of the repair facility (see Figure 2). Well #2 will be installed to an approximate depth of 50 feet. This well will be screened in the lower 20 feet and will be sampled using EPA Methods 624 and 625. Observation well #2 will be re-sampled using EPA Methods 624 and 625. The shallow and deep well will be sampled for RCRA Metals. The purpose of this upgradient background water quality sampling is to establish the level of background organic chemical contamination for the Hackney and Sons (East) facility. As seen in Figures 4, 5 and 6, elevated levels of chloroform, dichloromethane, and benzene, have been detected across most of the Hackney twenty-three (23) acre facility in Washington, North Carolina.

It is the opinion of ENSCI Corporation that much of the chloroform and potentially related organic chemical contamination may be indigenous to this area and reflective of general elevated background levels. Upgradient background sampling will establish organic chemical background levels to compare on site levels with.

#### HYDROGEOLOGIC INVESTIGATION

As indicated in the Phase I Groundwater Assessment Report, two (2) aquifers were discovered in the proximity of the repair facility (see Figure 2). Data generated from the installation of the soil borings during October, 1990 indicated that a clay rich sand layer is present across most of the Hackney facility at the same approximate level (see Cross Section A-A¹). If this layer acts as an aquitard in all three (3) of the impacted areas, and most of the organic chemical contaminants are perched above the aquitard, the remediation of the facility will be greatly simplified. If, however, the lower water prolific aquifer of the Yorktown Formation has been impacted, very large volumes of water will require treatment to remediate the site.

Based on data generated to date, it appears that the bulk of the detected contamination may be in the upper unconfined aquifer. The installation of a well nest in each of the impacted areas, coupled with groundwater sampling, should indicate the extent of downward migration of the contaminants. These wells will also be used for pump placement during the hydrogeologic investigations.

After well installation and development, a pump test will be performed in the Extrusion Storage Area and the Trailer Test Area. This testing will involve pumping of groundwater from above the aquitard using the shallow four (4) inch recovery well while monitoring the drawdown test using the deep four (4) inch well and shallow two (2) inch wells for piezometers. If the hydraulic head of the deep well appears to be influenced by pumping from the shallow aquifer, a pump test may be performed by withdrawing water from the deeper aquifer. The determination for pumping from the deeper aquifer will be made only after the shallow aquifer has been pumped first.

Pump test data will allow calculation of the transmissivity and storage coefficient for the shallow unconfined aquifer. To accomplish the drawdown test, the shallow unconfined aquifer will be pumped and monitored for a minimum of twelve (12) hours. Water generated during the pump test will be placed in tanker trucks for storage prior to profiling and disposal.

Pump tests from the Trailer Test Area and Extrusion Storage Area should generate less than twenty thousand (20,000) gallons of water if only the shallow aquifer needs to be pumped. If pumping of the deeper aquifer is required, approximately forty thousand (40,000) gallons of water will be generated. It is the opinion of ENSCI Corporation that it will again be impossible to dispose of this water into the POTW. We will, therefore, plan to haul the generated water to an approved facility for proper disposal.

#### PHASE I - REMEDIAL ACTION PLAN

Phase I of the Remedial Action Plan includes installation and activation of a groundwater treatment system at the subject facility. ENSCI Corporation is currently designing a 50 gallon per minute system using acquired analytical data from the three (3) areas that have been impacted (see Phase I Groundwater Assessment Report). The benefits of the Phase I treatment system include:

- The generation of accurate carbon usage data.
- Generation of treated groundwater quality data.
- Acquisition of aquifer(s) response data, i.e. aquifer(s) response to an actual on-line pumping system.
- Establishment of a non-discharge permit/NPDES for the Hackney facility.

• Another benefit provided by a 50 gpm treatment system is that the unit can process groundwater from all three (3) of the impacted areas for very detailed analysis of the response and behavioral patterns of the designed pretreatment, air stripper, and carbon adsorption units as the nature of the contaminants changes.

#### PHASE I GROUNDWATER TREATMENT SYSTEM

ENSCI Corporation proposes to install a Phase I groundwater treatment system rated at 50 gallons per minute. This system is presently under design and will include an air stripper with related pretreatment and carbon adsorption units rated at 50 gpm. ENSCI Corporation proposes to install this groundwater treatment system in the proximity of the Trailer Test Area (see Figure 2). The installation of the Phase I treatment system in the proximity of the Trailer Test Area will have a wide variety of benefits. These benefits include:

- 1. ENSCI Corporation will be able to evaluate the performance of an air stripper and related pretreatment and carbon adsorption units in an actual on-line setting.
- 2. Enhancement of our understanding of the aquifer response to being pumped through the use of a data acquisition system acquiring drawdown data for a much longer period of time than twenty-four (24) hours. The increased length of pumping time and data acquisition will greatly enhance our understanding of the hydrologic properties of the aquifers below the Hackney Industries facility.
- During the course of the withdrawal period. ENSCI Corporation will be able to monitor the immediate area surrounding and within the cone of depression generated by pumping the aquifer at 50 gpm. ENSCI Corporation plans to monitor this area very closely to look for settling that results from the dehydration of clay minerals potentially present in the upper unconfined aquifer. It is the concern of ENSCI Corporation that pumping at too great of a rate in the shallow unconfined aquifer could lead to settling in the upper unconfined strata perched above the clay layer that occurs at approximately ten (10) feet in depth.

If all goes well with respect to settling in the radius of influence of the pumping system in the Trailer Test Area, ENSCI Corporation will pump groundwater from the proximity of the Extrusion Storage Area. A one (1) month long Phase I remedial program in the proximity of the Extrusion Storage Area/Undercoating Building will again yield useful information as indicated above. There is also a potential for using this treatment system to assess all three (3) of the impacted areas

associated with the Hackney and Sons (East), Incorporated facility. Data generated with respect to treated water quality, aquifer response, etc., will allow for a greater degree of confidence when upscaling the system to treat all three (3) impacted areas of the Hackney facility.

The Phase I air stripping system that ENSCI Corporation is proposing will consist of, but not be limited to, the following:

- One (1) 500 gallon aeration tank with blower and level controls.
- One (1) 3,000 gallon settling tank with level controls.
- One (1) 1,000 gallon sludge aging tank.
- Two (2) skid mounted bag filters.
- One (1) chemical feeder.
- One (1) AS-50, 2' diameter, 30' tall packed depth airstripper with internals, blower, and level controls.
- Two (2) PC-13, 1,500 pound capacity carbon adsorbers with carbon.
- Six (6) transfer pumps.
- Electrical Controls.

As seen in Figure 7, the 50 gpm influent will pass through the 500 gallon aeration tank and then to the 3,000 gallon clarifier. Both of these units will have basal valves designed to withdraw sediment laden water for pumping to the sludge aging tank. With increased settling time, clear water will be decanted from above the sludge laden water back to the clarifier tank. From the 3,000 gallon clarifier tank, water will pass through bag filters, acid will be injected into the stream, and the water will cascade through the air stripper. From the air stripper, the water will be pressure fed through two (2) carbon adsorption units in series.

Due to the detected presence of high levels of suspended solids, iron, and calcium carbonate, a sophisticated pretreatment system is required to remove these materials prior to passing the water through the air stripping unit. As seen in Figure 7, 30% HCl acid will be injected into the influent water stream immediately in front of the air stripping unit to lower pH. This will be done to prevent precipitation of any remaining iron or carbonate in the air stripping unit.

The pressure carbon contactors located at the end of the treatment system are designed to facilitate the removal of any organic chemical contaminants that are not removed via air stripping. The carbon units are in series so that water quality samples can be acquired between the two units to monitor for break-through times.

Once carbon adsorption sites are "spent", i.e. the molecules are incapable of adsorbing any additional chemical molecules, the contaminants will pass through the unit. Determining the break-through time for the first carbon unit will allow for accurate determinations of O & M costs. With the air stripping "system", primary O & M costs are associated with carbon usage. With break-through times in hand, one can then predict carbon usage on any annual basis.

#### TREATED WATER DISPOSAL

Another benefit of starting the Phase I remedial system at Hackney and Sons (East), Incorporated will be the development of a disposal solution for the treated groundwater. ENSCI Corporation held preliminary discussions with National Spinning Company, Inc. representatives on Thursday, February 21, 1991. These preliminary discussions centered around the use of treated groundwater from the Hackney facility by the National Spinning Company, Inc. in their dying and finishing process. ENSCI Corporation employee Bruce Braswell met with Mr. W. D. Reynolds, Jr., Director of Engineering, Mr. Allen Correll, Manager, Research and Development, Mr. Morris McGahey, Hazardous Chemical Coordinator, and Mr. D. Donald Deemer, P. E. with ERM - Southeast, Incorporated. ENSCI Corporation representative, Bruce Braswell, indicated to National Spinning Company representatives that the groundwater treatment system at the Hackney and Sons (East), Incorporated facility may ultimately yield several hundred thousand gallons of water daily. National Spinning Company is presently purchasing 200,000 gallons of water daily from the City of Washington and utilizes an additional 1,000,000+ gallons daily of groundwater pumped from well fields adjacent to their plant. National Spinning representatives were very optimistic about the use of treated groundwater, but were very cautious with respect to the quality of water they would be receiving from Hackney and Sons (East), Incorporated. The benefit of starting the Phase I treatment system at the Hackney and Sons (East), Incorporated facility would include acquisition of detailed information on the quality of water being generated by an actual on-line system. Other options include the development of the nondischarge permit and/or an NPDES. One note, after the Phase I treatment system is on-line and running, if settlement problems are encountered as a result of dehydration of clay minerals in the upper unconfined aquifer, it will be necessary to infiltrate treated groundwater back into the upper unconfined aquifer via a french drain and/or infiltration gallery.

If I can be of further assistance or answer any questions, please do not hesitate to call.

Very truly yours,

**ENSCI CORPORATION** 

Bruce K. Braswell Hydrogeologist

BKB/few

#### DIVISION OF ENVIRONMENTAL MANAGEMENT

October 10, 1990

#### **MEMORANDUM:**

TO:

Jim Mulligan, Regional Supervisor

Washington Regional Office

FROM:

Victor Copelan, Air Quality Regional Supervisor Washington Regional Office

SUBJECT: Air Quality Comments ENSCI Corp.'s Environmental Assessment

Hackney & Sons Washington, NC Beaufort Co.

ENSCI's evaluation indicates that Hackney had "possible VOC emissions in excess of permit limits".

Don Wynne earlier this year had asked Hackney for a VOC up-date. On September 19, 1990, we received a request from Hackney to re-issue their permit under a new corporate name. Included in that package was an updated permit application and the VOC up-date. The only reactive coating Hackney is using is Autocryl Topcoat Color M600. Hackney estimates they use approximately 8.3 gallons per day of M600 with an associated VOC emission of 10 pounds per day of reactive solvents. 15 NCAC 2D .0518 allows 40 pounds per day of reactive solvents from the facility. Hackney is in compliance with our regulations.



50 Federal Street Suite 800 Boston, Ma 02110 (617) 426-3666 NASHINGTON OFFICE

OCT 17 1990

D. E. M.

October 15, 1990

Mr. Jim Mulligan Regional Supervisor for Division of Environmental Management North Carolina Department of Environment, Health and Natural Resources P.O. Box 1507 Washington, North Carolina 27889

Dear Mr. Mulligan:

Last Thursday, October 11, 1990, I met with your staff in Washington to review and discuss past environmental non-compliance at the Hackney & Sons, Inc. Washington facility. As one of Hackney's new owners, I wanted you to know I felt the meeting was quite productive and that your staff displayed a welcomed interest, energy and flexibility in working with me and my environmental engineering firm, ENSCI Corp, in cleaning up previous management's non-compliance.

I look forward to meeting you over the next days and weeks as we continue with our remediation efforts.

Very truly yours,

John Mazzarino

President

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WASHINGTON OFFICE

APR 3 1991

D. E. M.

# INFORMATION SENT VIA FAX FROM ENSCI CORPORATION HIGH POINT, NORTH CAROLINA

FAX (919) 882-7958 PHONE (919) 883-7505

TO: J.M Mulligo	os I.m Mulligan		Eusc. Corporations
NCDEM			
PAX #: 919-975-	3716	Date:	4-3-91
Number of Pages	77.	ncluding	this cover sheet
TO RECIPIENT:	IF INFORMATION (919) 883-7505	IS UNCLE TO HAVE	AR, PLEASE CALL ANOTHER COPY SENT

Dear J.M. Please find Draft Copy of papered Trace It Mork @ Hackney. A formal Copy will be available at the Friday April 5 Meeting. I called today to Check with willie Hardison as to who to fac this to - He sussested I send the infamination to you for distribution. Certainly is you have quastims please sue me a Call.

But Resardia

HOS Old Thomasville Rd. • High Point, NC 27260 • 919 883-7505 • Fax 919-382-7958

AN ENVIRORMENTAL SERVICE COMPANY ENGINEERING ASSESSMENT O SITE PEMEDIATION

### HACKNEY AND SONS (EAST), INCORPORATED GROUNDWATER REMEDIATION - PHASE II PROPOSAL



### GROUNDWATER FLOW REGIMEN

As seen in the Phase I Groundwater Assessment Report, Hackney and Sons (East), Incorporated, has a complex aquifer system located directly below the facility site in the Yorktown Formation. ENSCI Corporation, discovered that there are two (2) aquifers in existence at the Hackney and Sons (East), Incorporated facility during the October, 1990 Phase I Groundwater Assessment. There is an upper unconfined aquifer perched on an aquitard approximately three (3) feet thick that begins at approximately ten (10) feet in depth (see Figure 1). This upper perched aquifer is not well connected hydraulically to the aquifer remaining in the balance of Yorktown Formation sediments (approximately 27 feet). appears the lower Yorktown Formation aquifer and the Castle Hayne Formation aquifer are hydraulically connected.

ENSCI Corporation performed one (1) pump test in the lower Yorktown Formation aquifer at the Hackney and Sons (East), Incorporated

facility during October, 1990. This drawdown test was accomplished . via one (1) six inch pumping well and seven (7) observation wells (see Figure 2). A twelve (12) hour pre-pump test, a twenty-four (24) hour drawdown test, and a recovery test were made at the facility using and In-Situ Hermit 2000 Data Logger. The Hermit 2000 is a field data acquisition instrument designed to record changing groundwater elevations in monitoring well clusters during pump tests. In the field, pressure transducers were located in the observation wells and a central well was pumped at a constant rate for a twenty-four (24) hour period (see Figure 3). The Hermit instrument is designed to take water level readings at predetermined setting and the result is a data file that consists of time and respective groundwater elevation drawdowns recorded in the observation wells.

ENSCI Corporation took the information generated by the twenty-four (24) hour pump test and used the data file generated to calculate transmissivity and storage coefficient for the lower Yorktown

aquifer below the Hackney and Sons (East) facility. Data generated to date, indicates groundwater flow rates in the lower aquifer of 2,000 gallons per day, per linear foot of screened interval, up to 10,000 gallons per day, per linear foot of screened interval. The variability observed in calculated transmissivities is a result of the anisotropic nature of the media. It is the opinion of ENSCI Corporation that additional data from both aquifers is needed before full scale remedial system can be designed for the Hackney and Sons (East) facility.

### PROPOSED SCOPE OF WORK

Due to the complexity of the aquifer system at the referenced facility, ENSCI Corporation proposes a Phase II Groundwater Assessment divided into two (2) tasks. Task I includes the installation of four (4) inch diameter monitoring/recovery wells into both aquifers and two (2) inch observation wells in the shallow aquifer. These wells will be installed into all three (3)

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impacted areas in various configurations. After installation, development, and sampling, these wells will be used to perform a pump test in the Trailer Test Area and the Extrusion Storage Area. The benefits provided by two (2) additional pump tests include:

- Confirmation of the aquitard presence in impacted areas away from the repair facility.
- Acquisition of time/drawdown data necessary to calculate transmissivity and storage coefficients of the upper aquifer in two (2) impacted localities.
- Further evaluate the relationship between the Yorktown
   Formation Aquifer and the Castle Hayne Aquifer.

Task II of the Phase II Groundwater Assessment includes installation and activation of a pilot scale groundwater treatment system at the subject facility. ENSCI Corporation is currently





designing a 50 gallon per minute system using acquired analytical data from the three (3) areas that have been impacted (see Phase I Groundwater Assessment Report). The benefits of the pilot scale treatment system include:

- The generation of accurate carbon usage data.
- Generation of treated groundwater quality data.
- Acquisition of aquifer(s) response data, i.e. aquifer(s) response to an actual on-line pumping system.
- Establishment of a non-discharge permit/NPDES for the Hackney facility.
- Another benefit provided by a 50 gpm treatment system is that the unit can be moved to all three (3) of the impacted areas for very detailed analysis of the response and behavioral

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### DRAFT

patterns of the designed pretreatment, air stripper, and carbon absorption units as the nature of the contaminants changes.

To accomplish this goal, ENSCI Corporation proposes the following scope of work:

#### TASK I

#### EXTRUSION STORAGE AREA

Due to the complex nature of the aquifer system and the confirmation of organic chemical contamination in the upper unconfined aquifer in the proximity of the extrusion storage area, ENSCI Corporation proposes to install one (1) well nest consisting of one (1) shallow and one (1) deep four (4) inch diameter

The deep four (4) inch diameter well will be monitoring well. cased and pressure grouted to the clay layer and then advanced and The shallow four (4) inch diameter well will screened below. consist of a ten (10) foot length of well screen perched on top of the clay layer. In addition, ENSCI Corporation proposes to install six (6) shallow (10') observation wells along the fence bordering the buggy works facility and along the side of the undercoating building (see Figure 2). The well nest, both the shallow and the deep well, will be sampled for volatile and semivolatile organic chemical constituents using EPA Method 624 and 625. Both of these wells will also be sampled for RCRA Metals. Four (4) of the shallow observation wells will be sampled using EPA Method 624 and 625 to enhance our knowledge of the shallow plume extent.

#### TRAILER TEST AREA

In the proximity of the Trailer Test Area/Wells Junkyard, ENSCI Corporation proposes to install one (1) well nest as described

above. ENSCI will also install six (6) observation wells in the shallow unconfined aquifer along the two (2) sides of Wells Junkyard that border Hackney owned and Hackney leased property (see Figure 2). ENSCI will sample the well nest using EPA Method 624 and 625 for volatile and semivolatile organic chemical constituents. The well nest will also be sampled for RCRA Metals. ENSCI will sample four (4) of the six (6) shallow observation wells using EPA Method 624 and 625 to enhance the shallow plume definition in this area.

#### STORM DRAINS

install (3) shallow Corporation proposes to three ENSCI observation/monitoring wells along the length of the storm drains (see Figure 2). ENSCI will sample these wells using EPA Method 624 semivolatile for volatile and organic This data will enhance our knowledge of organic constituents. chemical constituents present in groundwater. The July, 1990



sampling along the length of the storm drains acquired saturated soil samples that may present data differing from actual groundwater samples.

#### UPGRADIENT BACKGROUND WATER QUALITY

ENSCI Corporation proposes to install one (1) deep monitoring well in the proximity of observation well #2 to the northwest of the repair facility (see Figure 2). This well will be installed to an approximate depth of 50 feet. It will be screened in the lower 20 feet and will be sampled using EPA Method 624 and 625. Observation well #2 will be re-sampled using EPA Method 624 and 625. The shallow and deep well will be sampled for RCRA Metals. The purpose of this upgradient background water quality sampling is to establish the level of background organic chemical contamination for the Hackney and Sons (East) facility. As seen in Figures 4, 5 and 6, elevated levels of chloroform, dichloromethane, and benzene have been detected across most of the Hackney twenty-three (23)

facility in Washington, North Carolina. DRAFT

It is the opinion of ENSCI Corporation that much of the chloroform and potentially related organic chemical contamination may be indigenous to this area and reflective of general elevated background levels. Upgradient background sampling will establish organic chemical background levels to compare on site levels with.

#### HYDROGEOLOGIC INVESTIGATION

As indicated in the Phase I Groundwater Assessment Report, two (2) aquifers were discovered in the proximity of the repair facility (see Figure 2). Data generated from the installation of the soil borings during October, 1990 indicated that a clay rich sand layer is present across most of the Hackney facility at the same approximate level (see Cross Section A-A¹). If this layer acts as an aquitard in all three (3) of the impacted areas, and most of the organic chemical contaminants are perched above the aquitard, the

remediation of the facility will be greatly simplified. If, however, the lower water prolific aquifer of the Yorktown Formation has been impacted, very large volumes of water will require treatment to remediate the site.

Based on data generated to date, it appears that the bulk of the detected contamination may be in the upper unconfined aquifer. The installation of a well nest in each of the impacted areas, coupled with groundwater sampling, should indicate the extent of downward migration of the contaminants. These wells will also be used for pump placement during the hydrogeologic investigations.

After well installation and development, a pump test will be performed in the Extrusion Storage Area and the Trailer Test Area. This testing will involve pumping of groundwater from above the aquitard using the shallow four (4) inch recovery well and monitoring the test using the deep four (4) inch well and shallow two (2) inch wells for piezometers. If the head of the deep well

11



appears to be influenced by pumping from the shallow aquifer, a pump test may be performed by withdrawing water from the deeper aquifer. The determination for pumping from the deeper aquifer will be made only after the shallow aquifer has been pumped first.

Pump test data will allow calculation of the transmissivity and storage coefficient for the shallow unconfined aquifer. To accomplish the drawdown test, the shallow unconfined aquifer will be pumped and monitored for a minimum of twelve (12) hours. Water generated during the pump test will be placed in tanker trucks for storage prior to profiling and disposal.

Pump tests from the Trailer Test Area and Extrusion Storage Area should generate less than twenty thousand (20,000) gallons of water if only the shallow aquifer needs to be pumped. If pumping of the deeper aquifer is required, approximately forty thousand (40,000) gallons of water will be generated. It is the opinion of ENSCI Corporation that it will again be impossible to dispose of this

water into the POTW. We will, therefore, plan to haul the generated water to an approved facility for proper disposal.

### TASK II

### PILOT SCALE GROUNDWATER TREATMENT SYSTEM

ENSCI Corporation proposes to install a pilot scale groundwater treatment system rated at 50 gallons per minute. This system is presently under design and will include an air stripper with related pretreatment and carbon absorption units rated at 50 gpm.

ENSCI Corporation proposes to install this groundwater treatment system in the proximity of the Trailer Test Area (see Figure 2). The installation of the pilot scale treatment system in the proximity of the trailer test area will have a wide variety of benefits. These benefits include:

1. ENSCI Corporation be will able to evaluate the performance of

an air stripper and related pretreatment and carbon absorption units in an actual on-line setting.

- 2. Enhancement of our understanding of the aquifer response to being pumped through the use of a data acquisition system acquiring drawdown data for a much longer period of time than twenty-four (24) hours. The increased length of pumping time and data acquisition will greatly enhance our understanding of the hydrologic properties of the aquifers below the Hackney Industries facility.
- 3. During the course of the withdrawal period, estimated to be a minimum of one (1) month, ENSCI Corporation will be able to monitor the immediate area surrounding and within the cone of depression generated by pumping the aquifer at 50 gpm. ENSCI Corporation plans to monitor this area very closely to look for settling that results from the dehydration of clay minerals potentially present in the upper unconfined aquifer.

It is the concern of ENSCI Corporation that pumping at too great of a rate in the shallow unconfined aquifer could lead to settling in the upper unconfined strata perched above the clay layer that occurs at approximately ten (10) feet in depth.

influence of the pumping system in the Trailer Test Area, ENSCI Corporation will move the pilot scale treatment system to the proximity of the Extrusion Storage Area. A one (1) month pilot scale remedial phase in the proximity of the Extrusion Storage Area/Undercoating Building will again yield useful information as indicated above. There is also a potential for using this pilot scale treatment system at all three (3) of the impacted areas associated with the Hackney and Sons (East), Incorporated facility. Data generated with respect to treated water quality, aquifer response, etc., will allow for a greater degree of confidence when designing the

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system to treat all three (3) impacted areas of the Hackney facility.

The Pilot Scale air stripping system that ENSCI Corporation is proposing will consist of, but not be limited to, the following:

- One (1) 500 gallon aeration tank with blower and level controls.
- One (1) 3,000 gallon settling tank with level controls.
- One (1) 1,000 gallon sludge aging tank.
- Two (2) skid mounted bag filters.
- One (1) chemical feeder.



- One (1) AS-50, 2' diameter, 30' tall packed depth airstripper with internals, blower, and level controls.
- Two (2) PC-13, 1,500 pound capacity carbon adsorbers with carbon.
- Six (6) transfer pumps.
- Electrical Controls.

As seen in Figure 7, the 50 gpm influent will pass through the 500 gallon aeration tank and then to the 3,000 gallon clarifier. Both of these units will have basal valves designed to withdraw sediment laden water for pumping to the sludge aging tank. With increased settling time, clear water will be decanted from above the sludge laden water back to the clarifier tank. From the 3,000 gallon clarifier tank, water will pass through bag filters, acid will be injected into the

stream, and the water will cascade through the air stripper.

From the air stripper, the water will be pressure fed through

two (2) carbon adsorption units in series.

Due to the detected presence of high levels of suspended solids, iron, and calcium carbonate, a sophisticated pretreatment system is required to remove these materials prior to passing the water through the air stripping unit. As seen in Figure 7, 30% HCL acid will be injected into the influent water stream immediately in front of the air stripping unit to lower pH. This will be done to prevent precipitation of any remaining iron or carbonate in the air stripping unit.

The pressure carbon contactors are designed to facilitate the removal of any organic chemical contaminants that are not removed via air stripping. The carbon units are in series so that water quality samples can be acquired between the two units to monitor for break-through times. Once carbon

of adsorbing any additional organic chemical molecules, the contaminants will pass through the unit. Determining the break-through time for the first carbon unit will allow for accurate determinations of O & M costs. With the air stripping "system", primary O & M costs are associated with carbon usage. With break-through times in hand, one can then predict carbon usage on an annual basis.

### TREATED WATER DISPOSAL

Another benefit of starting the pilot scale remedial system at Hackney and Sons (East), Incorporated will be the development of a disposal solution for the treated groundwater. ENSCI Corporation held preliminary discussions with National Spinning Company, Inc. representatives on Thursday, February 21, 1991. These preliminary discussions centered around the use of treated groundwater from the Hackney facility by the National Spinning Company, Inc. in there

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INFORMATION SENT VIA FAX FROM ENSCI CORPORATION HIGH POINT, NORTH CAROLINA	•
FAX (919 PHONE (919	9) 882-7958 9) 883-7505
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- delense of PAX #: 919-975-3716 Date: 4-3	-91
Number of Pages 72 including this co	ver sheet
TO RECIPIENT: IF INFORMATION IS UNCLEAR, PLE (919) 883-7505 TO HAVE ANOTHER	
Dear Jim Resse find Draft Copy of	popured Phrese I
Mark @ Hackney. A formal Copy will be at the Friday April 5 meeting. I call the Check with willie Hardison as to who	ed today to
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Mark @ Hackney. A formal Copy will be available at the Friday April 5 Meeting. I called today to check with willie Hardison as to who to fax this to - He sassested I send the information to you for distribution. Certainly 18 you have questions please sive me a call.

Please Sive me a call.

Ext Resards.

1108 Old Thomasville Rd. * High Point, NC 27260 * 919-883-7505 * Fax 919-882-7958

### HACKNEY AND SONS (EAST), INCORPORATED GROUNDWATER REMEDIATION - PHASE II PROPOSAL



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YKT-144 ?

#### PROPOSED SCOPE OF WORK

Due to the complexity of the aquifer system at the referenced facility, ENSCI Corporation proposes a Phase II Groundwater Assessment divided into two (2) tasks. Task I includes the installation of four (4) inch diameter monitoring/recovery wells) into both aquifers and two (2) inch observation wells in the shallow aquifer. These wells will be installed into all three (3)

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impacted areas in various configurations. After installation, development, and sampling, these wells will be used to perform a pump test in the Trailer Test Area and the Extrusion Storage Area. The benefits provided by two (2) additional pump tests include:

- Confirmation of the aquitard presence in impacted areas away from the repair facility.
- Acquisition of time/drawdown data necessary to calculate transmissivity and storage coefficients of the upper aquifer in two (2) impacted localities.
- Further evaluate the relationship between the Yorktown Formation Aquifer and the Castle Hayne Aquifer.

Task II of the Phase II Groundwater Assessment includes installation and activation of a pilot scale groundwater treatment system at the subject facility. ENSCI Corporation is currently

designing a 50 gallon per minute system using acquired analytical 22,000 g/d data from the three (3) areas that have been impacted (see Phase I Groundwater Assessment Report). The benefits of the pilot scale treatment system include:

- The generation of accurate carbon usage data.
- Generation of treated groundwater quality data.
- Acquisition of aquifer(s) response data, i.e. aquifer(s) response to an actual on-line pumping system.
- Establishment of a non-discharge permit/NPDES for the Hackney/facility.
- Another benefit provided by a 50 gpm treatment system is that the unit can be moved to all three (3) of the impacted areas for very detailed analysis of the response and behavioral

### DKALL

patterns of the designed pretreatment, air stripper, and carbon absorption units as the nature of the contaminants changes.

To accomplish this goal, ENSCI Corporation proposes the following scope of work:

### TASK I

### EXTRUSION STORAGE AREA

Due to the complex nature of the aquifer system and the confirmation of organic chemical contamination in the upper unconfined aquifer in the proximity of the extrusion storage area.

ENSCI Corporation proposes to install one (1) well nest consisting 2 wells of one (1) shallow and one (1) deep four (4) inch diameter (1 shallow 1 poep)

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The deep four (4) inch diameter well will be monitoring well. cased and pressure grouted to the clay layer and then advanced and The shallow four (4) inch diameter well will screened below. consist of a ten (10) foot length of well screen perched on top of the clay layer. In addition, ENSCI Corporation proposes to install six (6) shallow (10') observation wells along the fence bordering the buggy works facility and along the side of the undercoating building (see Figure 2). The well nest, both the shallow and the deep well, will be sampled for volatile and semivolatile organic Both of these chemical constituents using EPA Method 624 and 625. Four (4) of the wells will also be sampled for RCRA Metals. shallow observation wells will be sampled using EPA Method 624 and 625 to enhance our knowledge of the shallow plume extent.

### TRAILER TEST AREA

:::

In the proximity of the Trailer Test Area/Wells Junkyard ENSCI Corporation proposes to install one (1) well nest as described

2 well frest

ENSCI will also install six (6) observation wells in the shallow unconfined aquifer along the two (2) sides of Wells Junkyard that border Hackney owned and Hackney leased property (see Figure 2). ENSCI will sample the well nest using EPA Method 624 chemical semivolatile organic and volatile for 625 and constituents. The well nest will also be sampled for RCRA Metals. ENSCI will sample four (4) of the six (6) shallow observation wells using EPA Method 624 and 625 to enhance the shallow plume definition in this area.

### STORM DRAINS

(3)shallow install three Corporation proposes to ENSCI observation/monitoring wells along the length of the storm drains (see Figure 2). ENSCI will sample these wells using EPA Method 624 chemical semivolatile organic volatile and for 625 and This data will enhance our knowledge of organic constituents. chemical constituents present in groundwater. The July, 1990

### DRAFI

sampling along the length of the storm drains acquired saturated soil samples that may present data differing from actual groundwater samples.

and a consequence of the same

#### UPGRADIENT BACKGROUND WATER QUALITY

1- ma chapter

ENSCI Corporation proposes to install one (1) deep monitoring well in the proximity of observation well #2 to the northwest of the repair facility (see Figure 2). This well will be installed to an sch ? approximate depth of 50 feet. It will be screened in the lower 20 feet and will be sampled using EPA Method 624 and 625. Observation well #2 will be re-sampled using EPA Method 624 and 625. The shallow and deep well will be sampled for RCRA Metals. The purpose of this upgradient background water quality sampling is to establish the level of background organic chemical contamination for the Hackney and Sons (East) facility. As seen in Figures 4, 5 and 6, elevated levels of chloroform, dichloromethane, and benzene have been detected across most of the Hackney twenty-three (23)

facility in Washington, North Carolina. DRAFT

It is the opinion of ENSCI Corporation that much of the chloroform and potentially related organic chemical contamination may be indigenous to this area and reflective of general elevated background levels. Upgradient background sampling will establish organic chemical background levels to compare on site levels with.

#### HYDROGEOLOGIC INVESTIGATION

As indicated in the Phase I Groundwater Assessment Report, two (2) aquifers were discovered in the proximity of the repair facility (see Figure 2). Data generated from the installation of the soil borings during October, 1990 indicated that a clay rich sand layer is present across most of the Hackney facility at the same approximate level (see Cross Section A-A¹). If this layer acts as an aquitard in all three (3) of the impacted areas, and most of the organic chemical contaminants are perched above the aquitard, the



remediation of the facility will be greatly simplified. If, however, the lower water prolific aquifer of the Yorktown Formation has been impacted, very large volumes of water will require treatment to remediate the site.

Based on data generated to date, it appears that the bulk of the detected contamination may be in the upper unconfined aquifer. The installation of a well nest in each of the impacted areas, coupled with groundwater sampling, should indicate the extent of downward migration of the contaminants. These wells will also be used for pump placement during the hydrogeologic investigations.

After well installation and development, a pump test will be performed in the Extrusion Storage Area and the Trailer Test Area. This testing will involve pumping of groundwater from above the aquitard using the shallow four (4) inch recovery well and monitoring the test using the deep four (4) inch well and shallow two (2) inch wells for piezometers. If the head of the deep well

appears to be influenced by pumping from the shallow aquifer, a pump test may be performed by withdrawing water from the deeper performed aquifer. The determination for pumping from the deeper aquifer perform works will be made only after the shallow aquifer has been pumped first.

pump test data will allow calculation of the transmissivity and storage coefficient for the shallow unconfined aquifer. To accomplish the drawdown test, the shallow unconfined aquifer will be pumped and monitored for a minimum of twelve (12) hours. Water generated during the pump test will be placed in tanker trucks for storage prior to profiling and disposal.

should generate less than twenty thousand (20,000) gallons of water to we if only the shallow aquifer needs to be pumped. If pumping of the cap we permit the factor of the cap we permit the cap we permit the factor of the cap to be pumped. It is thousand (40,000) of the cap to be pumped. It is the opinion of ENSCI Corporation that it will again be impossible to dispose of this

## DRAFT

water into the POTW. We will, therefore, plan to haul the generated water to an approved facility for proper disposal.

#### TASK II

### PILOT SCALE GROUNDWATER TREATMENT SYSTEM

Compression and property of the comment of the softening of

treatment system rated at 50 gallons per minute. This system is presently under design and will include an air stripper with related pretreatment and carbon absorption units rated at 50 gpm.

ENSCI Corporation proposes to install this groundwater treatment system in the proximity of the Trailer Test Area (see Figure 2).

The installation of the pilot scale treatment system in the proximity of the trailer test area will have a wide variety of benefits. These benefits include:

1. ENSCI Corporation be will able to evaluate the performance of

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an air stripper and related pretreatment and carbon absorption units in an actual on-line setting.

- 2. Enhancement of our understanding of the aquifer response to being pumped through the use of a data acquisition system acquiring drawdown data for a much longer period of time than twenty-four (24) hours. The increased length of pumping time and data acquisition will greatly enhance our understanding of the hydrologic properties of the aquifers below the Hackney Industries facility.
- minimum of one (1) month, ENSCI Corporation will be able to monitor the immediate area surrounding and within the cone of depression generated by pumping the aquifer at 50 gpm. ENSCI Corporation plans to monitor this area very closely to look subsiding? for settling that results from the dehydration of clay minerals potentially present in the upper unconfined aquifer.

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It is the concern of ENSCI Corporation that pumping at too great of a rate in the shallow unconfined aquifer could lead to settling in the upper unconfined strata perched above the clay layer that occurs at approximately ten (10) feet in depth.

If all goes well with respect to settling in the radius of influence of the pumping system in the Trailer Test Area, ENSCI Corporation will move the pilot scale treatment system to the proximity of the Extrusion Storage Area. month pilot scale remedial phase in the proximity of the Extrusion Storage Area/Undercoating Building will again yield useful information as indicated above. There is also a potential for using this pilot scale treatment system at all three (3) of the impacted areas associated with the Hackney and Sons (East), Incorporated facility. Data generated with respect to treated water quality, aquifer response, etc., will allow for a greater degree of confidence when designing the system to treat all three (3) impacted areas of the Hackney facility.

The Pilot Scale air stripping system that ENSCI Corporation is proposing will consist of, but not be limited to, the following:

- One (1) 500 gallon aeration tank with blower and level controls.
- One (1) 3,000 gallon settling tank with level controls.
- One (1) 1,000 gallon sludge aging tank.
- Two (2) skid mounted bag filters.
- One (1) chemical feeder.

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- One (1) AS-50, 2' diameter, 30' tall packed depth airstripper with internals, blower, and level controls.
- Two (2) PC-13, 1,500 pound capacity carbon adsorbers with carbon.
- Six (6) transfer pumps.
- Electrical Controls.

As seen in Figure 7, the 50 gpm influent will pass through the 500 gallon aeration tank and then to the 3,000 gallon clarifier. Both of these units will have basal valves designed to withdraw sediment laden water for pumping to the sludge aging tank. With increased settling time, clear water will be decanted from above the sludge laden water back to the clarifier tank. From the 3,000 gallon clarifier tank, water will pass through bag filters, acid will be injected into the

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stream, and the water will cascade through the air stripper.

From the air stripper, the water will be pressure fed through

two (2) carbon adsorption units in series.

Due to the detected presence of high levels of suspended solids, from, and calcium carbonate, a sophisticated pretreatment system is required to remove these materials prior to passing the water through the air stripping unit. As seen in Figure 7, 30% HCL acid will be injected into the influent water stream immediately in front of the air stripping unit to lower pH. This will be done to prevent precipitation of any remaining iron or carbonate in the air stripping unit.

The pressure carbon contactors are designed to facilitate the removal of any organic chemical contaminants that are not removed via air stripping. The carbon units are in series so that water quality samples can be acquired between the two units to monitor for break-through times. Once carbon

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of adsorbing any additional organic chemical molecules, the contaminants will pass through the unit. Determining the break-through time for the first carbon unit will allow for accurate determinations of O & M costs. With the air stripping "system", primary O & M costs are associated with carbon usage. With break-through times in hand, one can then predict carbon usage on an annual basis.

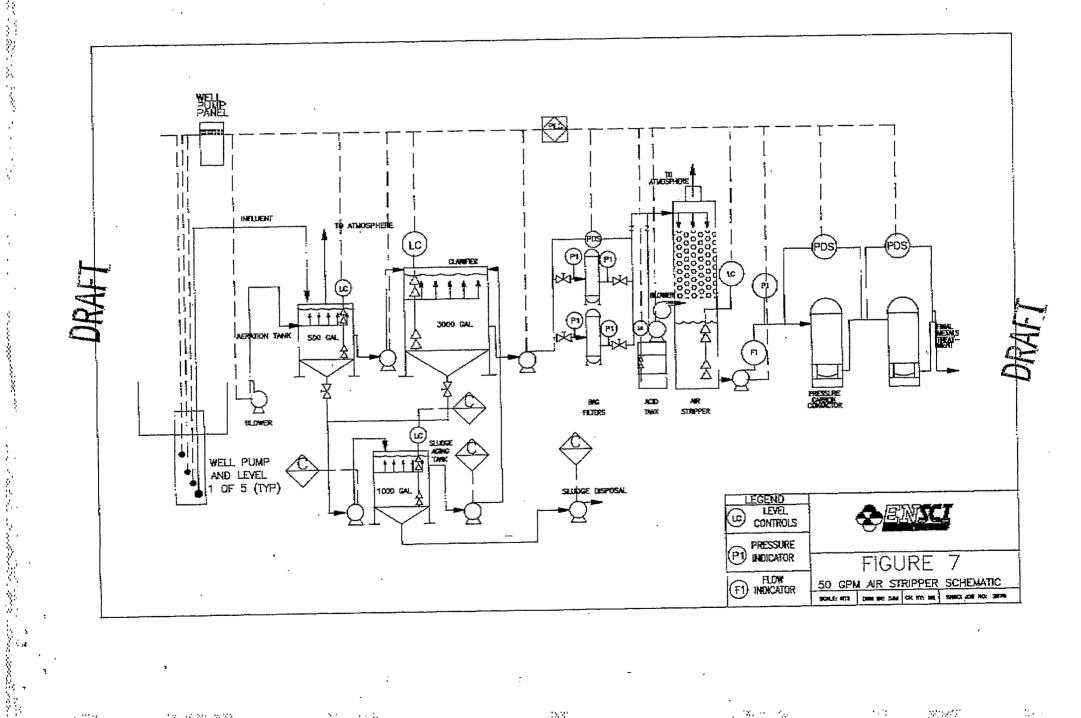
#### TREATED WATER DISPOSAL

Another benefit of starting the pilot scale remedial system at Hackney and Sons (East), Incorporated will be the development of a disposal solution for the treated groundwater. ENSCI Corporation held preliminary discussions with National Spinning Company, Inc. representatives on Thursday, February 21, 1991. These preliminary discussions centered around the use of treated groundwater from the Hackney facility by the National Spinning Company, Inc. in there

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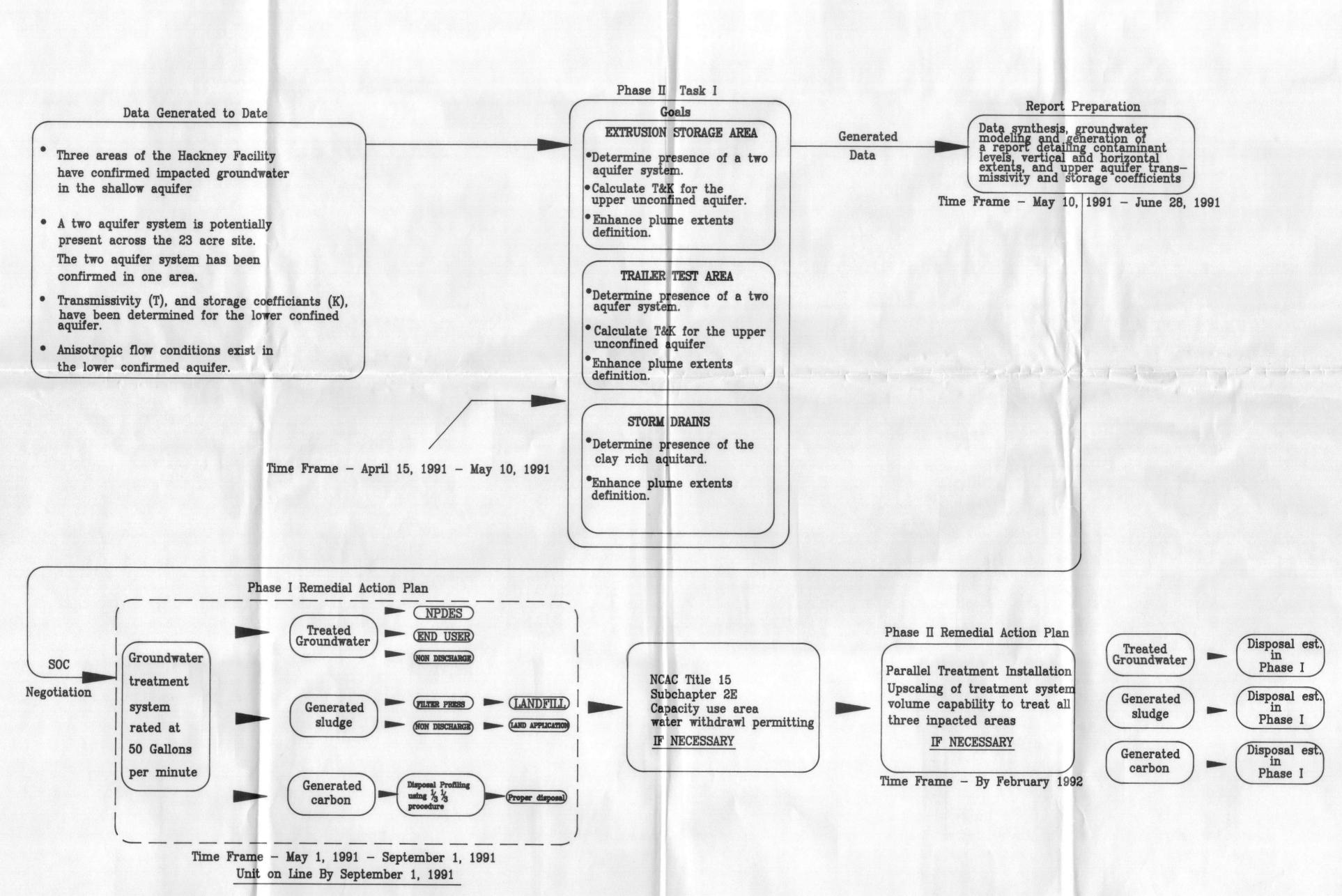
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# HACKNEY AND SONS (EAST), INCORPORATED

# Phase II Groundwater Assessment and Phase I Remedial Action Plan





May 21, 1991

### CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Jim Mulligan
North Carolina Department of Natural
Resources and Community Development
Division of Environmental Management
1425 Carolina Avenue
Post Office Box 1507
Washington, North Carolina 27889

Dear Mr. Mulligan:

Please find enclosed 2 copies of the Phase II Groundwater Assessment Plan and Phase I Remedial Action Plan for the Hackney and Sons (East), Inc. facility in Washington, North Carolina. A draft of the enclosed document, with the Decision Flow Chart included was reviewed with your staff, Mr. Richard Powers, on May 7, 1991.

The field work associated with the Phase II Assessment has been completed and we are awaiting analytical data. We will keep your office informed as we proceed on this project.

I would like to discuss the SOC process with you at your convenience in the next several weeks. Thank you for your attention to these matters. Please do not hesitate to contact our office if we may be of service.

Very truly yours,

**ENSCI CORPORATION** 

Robert T. Cottam, III

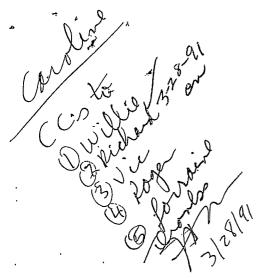
President

RTC/few

cc: John Mazzarino

Hackney Acquisition Company

1108 Old Thomasville Rd. • High Point, NC 27260 • 919-883-7505 • Fax 919-882-7958





MAR 27 1991

INFORMATION SENT VIA FAX
FROM
ENSCI CORPORATION
HIGH POINT, NORTH CAROLINA

(919) 882-7958 (919) 883-7505 PHONE TO: Jim Mulligan FROM: Ensci NCDEM- Merlinton NC 3-27-91 FAX #: 914- 975- 3716 Date: including this cover sheet Number of Pages ___3 IF INFORMATION IS UNCLEAR, PLEASE CALL TO RECIPIENT: (919) 883-7505 TO HAVE ANOTHER COPY SENT. Additional Comments: Copy of this letter will follow mail

1108 Old Thomasville Rd. * High Point NC 27260 * 919-883-7505 * Fax 919-882-7958

AN ENVIRONMENTAL SERVICE COMPANY ENGINEERING • ASSESSMENT • SITE REMEDIATION

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#### MEMORANDUM

TO:

Jim Mulligan, John Mazzarino

FROM:

Bob Cottam, Bruce Braswell

DATE:

March 26, 1991

SUBJECT: Hackney and Sons (East), Washington, NC

Dear Jim:

I am writing to confirm a 10:00 a.m. meeting on Friday, April 5. Please reference a cover letter which was forwarded to you and the staff with regard to Hackney and Sons (East) and the (Phase I) Groundwater Assessment dated March 21, 1991.

There are a number of issues we need to focus on:

- Development of a critical path to an SOC on Hackney.
- Non-Discharge Permit for Treated Groundwater Pilot Scale Treatment operations.
- Potential NPDES to Kennedy Creek outfall.
- Potential "use" of treated groundwater by National Spinning.
- Politics of POTW City of Washington.
- Wells Junkyard, strategy with regard to overall Hackney Remedial Action.
- Air Quality source emissions air stripper Pilot Scale Treatment operations.
- Input Testing Program by NCDEM Phase II work in any suggestions, changes modifications DEM may have.
- Disposition (disposal) Groundwater from Drawdown tests any hope of discharge to POTW, or other less expensive options.

We will furnish the DEM with a copy of the proposed Phase II, work with designs, etc. I don't know when we will have completed copies, but I hope to get a hard copy in your hand by Thursday, April 4.

1108 Old Thomasville Rd. • High Point, NC 27260 • 919-883-7505 • Fax 919-882-7958

ENGINEERING • ASSESSMENT • SITE REMEDIATION

MEMORANDUM Jim Mulligan, John Mazzarino March 26, 1991 Page 2

Thanks for all your assistance in the timely disposition of this matter. Please do not hesitate to contact myself, Bruce Braswell or Judy Cox if you have questions or we may be of assistance.

Very truly yours,

ENSCI CORPORATION

Robert T. Cottam, III

President

RTC/few

1881-03-57 10:18

#### DIVISION OF ENVIRONMENTAL MANAGEMENT Groundwater Section May 29, 1991

Mr. John Mazzarino Hackney Industries Incorporated Post Office Box 880 Washington, North Carolina 27889-0880

RE: Site Assessment and Remedial Action Plan Hackney Industries, Washington, N. C. Beaufort County

Dear Mr. Mazzarino,

The Division of Environmental Management, Washington Regional Office staff has reviewed Phase I Site Assessment activities and the proposed Phase II Site Assessment activities for the above named site. We are satisfied with the data generated and have no objections to the Phase II Site Assessment proposal. The Phase I Groundwater Remediation appears to be adequate and will generate further aquifer data, as well as post-treatment water quality data necessary for potential disposal strategies.

The State of North Carolina, as specified in NCAC 2L .0106 (Groundwater Quality Standards), requires groundwater remediation projects to be carried out under a Special Order by Consent (SOC). The SOC is, in effect, a compliance schedule which specifies to be taken by responsible parties and specific deadlines for those tasks to occur. These actions are based upon the consultant's remediation plan and state requirements. The SOC will stipulate penalties for failure to meet these deadlines. The SOC also provides guidance for closure and post-remediation monitoring.

Mr. John Mazzarino May 29, 1991 Page Two

The company should continue with its present plans during the negotiation of the SOC, as this office is the originator of the document. It is not our intention to obstruct the company in any way. I plan to have staff draft the SOC over the next several weeks and submit it to you.

Overall, the Division is quite pleased with the speed and professional expertise that Hackney has utilized to describe subsurface conditions and develop corrective actions. The company and its consultant have performed in an exemplary manner.

Please contact me at 919 946-6481 for any additional information.

For J7

Sincerely,

Jim Mulligan

Regional Supervisor

cc: Willie Hardison WaRO File

# MEMO

Hackney Site.

DATE:	_2	<i>  Z</i>	193	 
	7	,		-

TO: File

A meeting was held with Bruce Braswell (ENSCI) and Hackney representatives to discuss using a Tump + treat Dioremediation system to remediate the 3 impacted areas at the site.

- 1. Hackney would be willing to remediate groundwater under Wells-Junkyard but first want the scrap/barrells removed, and for us (state) to do some preliminary soil and/or groundwater sampling.
- 2. Since the Wells Junk yard situation has not been resolved, Hackney may propose to start remediation of the other two areas and hold off on the Trailer Test Area.

From: Jung

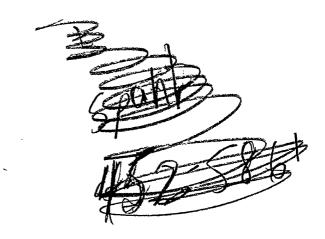


North Carolina Department of Environment, Health, and Natural Resources Printed on Recycled Paper

MEMO Duy & Ceft word on 1/22/93 17019- bis abselo 1/21/93 DATE: 1/21/93  DATE: 1/21/93
TO: Jim Mulligan, SUBJECT:  (ENSCI CORP.)
(ENSCI COPP.)
Bruce Braswell &- called me today
to discuss setting up and meeting
with you, me andor Willie, and possibles
a WQ staff member to discuss a
proposal to use a biological treatment
plant at the Hackney site. If possible,
doon call Bruce and arrange a meeting
date/ time. (I can be there most anytime)
Coched @ (919) 883-7505
Bruce can
date/time. (I can be there most anytime)  Bruce can be reached @ (919) 883-7505  From: Luy C. Pearcon  From: Luy C. Pearcon
1' (6, lb) ' /

North Carolina Department of Environment, Health, and Natural Resources Printed on Recycled Paper







WASHINGTON OFFICE

APRU 8 10004

D. E. M.

April 6, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Guy Pearce NCDEHNR-Groundwater Section Washington Regional Office Washington, North Carolina

RE: Proposed Schedule for Implementation of Remedial Action Plan for the Hackney & Sons, Inc. Site, Washington, North Carolina

Dear Mr. Pierce:

Per your letter dated March 26, 1993, a schedule has been prepared for the implementation of the Remedial Action Plan for the Hackney & Sons, Inc. facility located at 400 Hackney Ave. in Washington, North Carolina. The proposed schedule is as follows:

- Begin construction 2 weeks after approval of a nondischarge permit
- End construction 4 weeks after permit approval
- Buildup biomass in the bioreactor from 4-6 weeks after permit approval
- Begin remediation of contaminated groundwater 6 weeks after permit approval.

If you require further information or have any questions, please contact me, or Steve Stadelman, at ENSCI Corporation.

Sincerely,

Bruce K. Braswell, P.G. Senior Hydrogeologist

**ENSCI** Corporation

cc: Jay Witte



#### State of North Carolina Department of Environment, Health and Natural Resources

Northeastern Region
1424 Carolina Avenue, Washington, North Carolina 27889-1424

James B. Hunt, Jr., Governor

Jonathan B. Howes, Secretary

#### DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION March 26, 1993

Mr. Jay A. Witte Hackney and Sons, Inc. 400 Hackney Avenue, Box 880 Washington, North Carolina 27889-0880

RE: Corrective Action Plan Hackney and Sons, Inc. Site Washington, North Carolina - Beaufort County

Dear Mr. Witte:

Final review of the conceptual Corrective Action Plan, prepared by ENSCI Corporation, dated February 25, 1993 has been completed. This office considers the scope of work performed and proposed plan, as outlined, satisfactory. The following items, however; must be addressed prior to final approval of the Remedial Action Plan.

1. North Carolina Administrative Code (NCAC) Subchapter 2L .0106 - Corrective Action has been revised to eliminate the requirement for a Special Order of Consent Agreement to be entered into prior to the implementation of a Corrective Action Plan. NCAC 2L .0106(c)(1) now requires a responsible party to submit a plan and schedule for eliminating the source of contamination and for restoration of groundwater quality, and implement an approved plan in accordance with a schedule established by the Director. In establishing a schedule, the Director will consider any reasonable schedule proposed by the person submitting the plan.

In order to satisfy this requirement, please submit a proposed schedule for the implementation of the Remedial Action Plan within fifteen (15) days of receipt of this letter. Upon receipt, our office will review the schedule and, if determined satisfactory, will forward the plan and schedule to the Director for approval.

Mr. Jay A. Witte Hackney and Sons, Inc. March 26, 1993 Page Two

2. At the present time, a Non-Discharge Permit from the DEM Water Quality Section will be required prior to the construction and/or operation of the proposed "closed loop" groundwater remediation system. Please contact Ms. Robin Smith at (919) 733-3221 to obtain the proper permit application(s) for operation of a closed loop remediation system utilizing injection wells. Since construction cannot begin until a permit has been issued, you may want to reference your proposed schedule (See Comment No. 1) to the issuance of the permit (i.e. construction will begin so many days from permit issuance, construction will be completed so many days from permit issuance, etc.). This approach will allow for the variable time span that occurs from submittal of an application for a Non-Discharge permit and the actual issuance of the permit.

Hackney and Sons, Inc. is also informed that the approval of the proposed Corrective Action Plan does not relieve the company from any further investigations or other responsibilities.

Should you have any questions or require any further information, please feel free to call Willie Hardison, Regional Groundwater Supervisor, or me at (919) 946-6481.

Sincerely,

Guy C. Pearce Hydrogeologist I

cc: ENSCI Corporation

WaRO Files

#### POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM Confirm. GW Contamination (Y/N) YCS Department of Environment, Health, Natural Resources Division of Environmental Management Incident # GROUNDWATER SECTION Major Soil Contamination (Y/N) Date Incident Occurred Minor Soil Contaminatin (Y/N) or Leak Detected **July** INCIDENT DESCRIPTION Incident Location/Name Hackney and Sons, Inc Address 400 Hackney Avenue County Beaufort organic Property (both soil + greandwater Z. Extrusion Storage Area POTENTIAL SOURCE OWNER-OPERATOR Same As Above: Telephone Potential Source Owner-Operator Contact Person: Jay N. Witte 919)946-6521 Company Street Address Sons 400 Hackney County State zip Code 7889 0. N/A 1. Municipal 2. Military 3. Unknown 4.Private 5.Federal 6. County 7. State **OPERATION TYPE** 1. Public Service 2. Agricultrural 3. Residential 4. Educational/Relig. 5. Industrial 6. Commercial 7. Mining **POLLUTANTS INVOLVED** MATERIALS INVOLVED AMOUNT LOST AMOUNT RECOVERED organic . unknown No Free Product SOURCE OF POLLUTION PRIMARY SOURCE OF POLLUTION **PRIMARY POLLUTANT TYPE** LOCATION SETTING (Select one) (Select one) 1. Intentional dump 13. Well 1. Pesticide/herbicide 1. Facility 1. Residential 2. Pit, pond, lagoon 14. Dredge spoil 2. Radioactive waste 2. Railroad 2. Industrial 3. Leak-underground 15. Nonpoint source 3. Gasoline/diesel 3. Waterway 3. Urban 4. Spray irrigation 4. Heating oil 4. Pipeline 4. Rural 5. Land application 5. Other petroleum prod. 5. Dumpsite 6. Animal feedlot 6. Sewage/septage 6. Highway 7. Source unknown 7. Fertilizers 7. Residence 8. Septic tank 8. Sludge 8. Other 9. Sewer line 9. Solid waste leachate 10. Stockpile 10. Metals

11. Other inorganics

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12. Other organics

Site Priority

Ranking

GW-61 Revised 3/92

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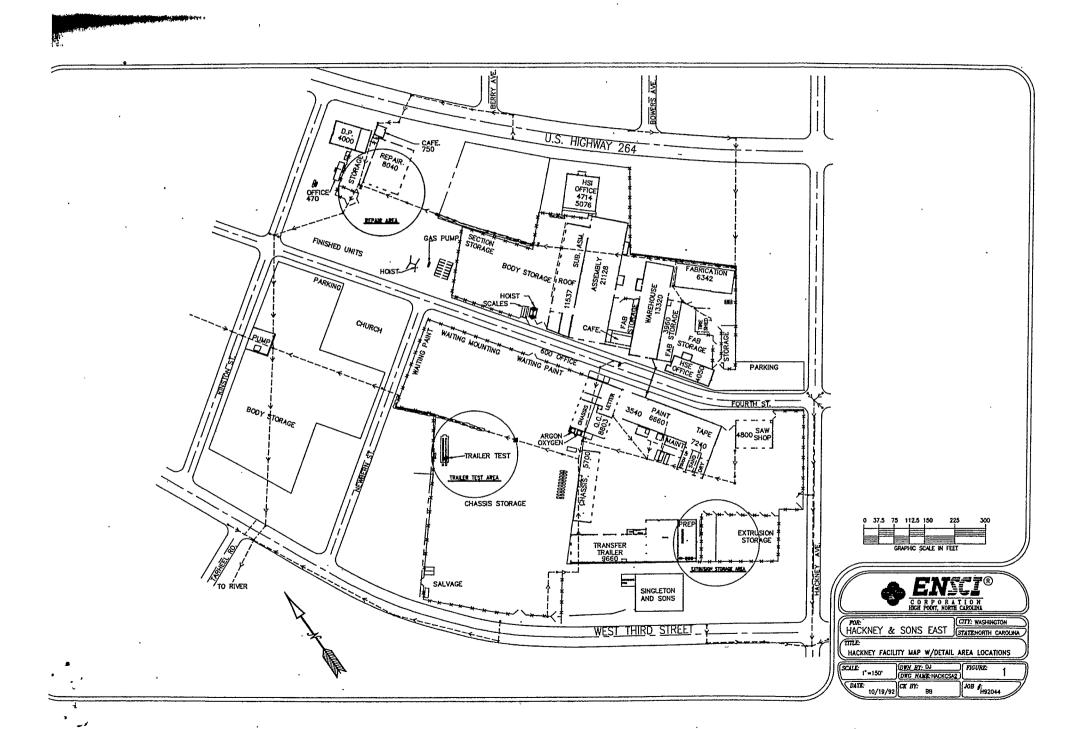
11. Landfill

12. Spill-surface

WELLS AFFECTED 1.	YES 2. NO	N DRINKING W	AIER JUPPLIES		
NUMBER OF WELLS AFFECTED					
Well(s) Contaminated: (Users No				,	
1,					
1,					<del></del>
3.					
4.					
5.					
Circle Appropriate Responses Lab Samples Taken By:	1. DEM	2. DHS (3.	Responsible Party	4. Other	5.
Samples Taken Include:					<del></del>
	1. Groundwater	2. Soil			
	LOC	ATION OF INC	IDENT		
7 1/2 Min. Quad Name  Washingto	•		: Min : Sec :	, , ,	
5 Min. Quad Number	A, NC	Long.: De	35° 33	3 30	<b></b>
			<u>77° o </u>	4 30"	
	Draw Sketcl	of Area or Attach A	dditional Maps		
	Sec	attached	site map		
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CERCLIS AND NOTIFIER FACILITY LOCATION MAP



-				GW/TF-200		
Incid	ent Nam	e: Hac	Kney and Sons, Inc Region/County: WaRO / Beauton	Page 1 of 3 6/1/92		
Grou	ndwater	Incider	it File # (Pending) Ranking Performed by: Guy Pearce			
Date:	3/11	193				
•	•		NORTH CAROLINA			
	. : ::	GR	OUNDWATER CONTAMINATION INCIDENT MANAGEN	<b>MENT</b>		
			SITE PRIORITY RANKING SYSTEM	*		
====			(To be completed by Regional Office)			
I.	IMMI	NENT H	AZARD ASSESSMENT	Points Awarded		
	<b>A</b> .	Explosion - free product in confined areas or vapor phase product detected at or above 20% of the lower explosive limit or at health concern levels; award 50 points total				
	В.	Fire - : surfact points	free product subject to ignition in exposed areas such as se water impoundments, streams, excavations, etc.; award 50 total	O		
n.	EXPO	SURE A	ASSESSMENT			
	A.	Conta	minated Drinking Water Supplies	•		
		1.	Private, domestic water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 10 points per well			
		2.	Public or institutional water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 20 points per well	O		
		3.	Exceedances of Class WS-1 surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted	O		
		4.	If a water supply well identified in items II. A. 1 and II. A. 2 cannot be replaced by an existing public water supply source requiring hook-up only; award additional 10 points per irreplaceable well	_0_		
	Ď	Threat	t to Uncontaminated Drinking Water Supplies			
		1.	Private, domestic water supply well located within 1500 feet down gradient of contaminant source; award 10 points per well			
		2.	Public or institutional water supply well located within 1500 feet downgradient of contaminant source; award 15 points per well			
		3.	Raw surface water intake for public water supply located within 1/2 mile downgradient of contaminant source; award 5 points per water supply system	0		
		4.	If any well identified in items II. B. 1 and II. B. 2 or an intake in item II. B. 3. are located within 250 feet of contaminant source; award additional 20 points total (not per well or intake)	0		

C. Vapor Phase Exposure

1. Product vapors detected in inhabitable building(s) below 20% of the lower explosive limit or health concern levels; award 30 points total

GW/TF-200 Page 2 of 3 6/1/92

		2.:	Product vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.) below 20% of the lower explosive limit; award 10 points total	0		
ш.	SOUF	RCE AS	SESSMENT			
	<b>A</b> .	lagoo	Uncontrolled or Unabated Primary Source (including dumpsites, stockpiles, lagoons, land applications, septic tanks, landfills, underground and above ground storage tanks, etc.)			
	٠	1.	Suspected or confirmed source remains in active use and continues to receive raw product, wastewater or solid waste; award 30 points per source			
		<b>2.</b>	Active use of suspected or confirmed source has been discontinued or source was caused by a one-time release of product or waste, however, source continues to release product or contaminants into the environment; award 10 points per source	30		
īv.	ENV	IRONM	ENTAL VULNERABILITY ASSESSMENT			
	A.	ing l	ical Contaminant Migration - Literature or well logs indicate that no confin- ayer is present above bedrock or within twenty feet of land surface; rd 10 points total	10		
	В.	char	zontal Contaminant Migration - Data or observations indicate that no dis- ge points or aquifer discontinuities exist between the source and the est downgradient drinking water supply; award 10 points total	10_		
	c.	Exis cont	ting Groundwater Quality - The worst case monitor or supply well contains aminant levels:			
		1.	At less than 10 times the 2L groundwater standards; award 5 points	<u> </u>		
		2.	Between 10 and 100 times the 2L groundwater standards; award 20 points	0		
		3.	Greater than 100 times the 21 groundwater standards; award 40 points	40		
v.	REC	GIONAL	OFFICE RESPONSE (LETTER RANK)			
	Pric					
		1.	Water supply well(s) contaminated and no alternate water supplies available.			
		2.	Vapors present in confined areas at explosive or health concern levels.			
		<b>3.</b> .	Treated surface water supply in violation of the safe drinking standards.			

Water supply well(s) contaminated, but alternate water supplies avail-

1.

Priority B - (Any One)

able.

- 2. Water supply well(s) within 1500 feet of site, but not contaminated and no alternate water supplies available.
- 3. Vapors present in confined areas but not at explosive or health concern levels.

#### Priority C - (Both)

- 1. No water supply well(s) contaminted.
- 2. Water supply well(s) greater than 1500 feet from site, no alternate water supply available.

#### Priority D - (Both)

- 1. No water supply well(s) contaminted.
- 2. Water supply well(s) within 1500 feet of site but alternate water supplies available.

#### Priority E - (Both)

- 1. No water supply well(s) contaminated or within 1500 feet of site.
- 2. Area served by alternate water supply.

TOTAL POINTS AWARDED

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DIVISION OF ENVIRONMENTAL MANAGEMENT GROUNDWATER SECTION
SEPTEMBER 28, 1990

MEMORANDUM

TO:

Jim Mulligan

THROUGH: Willie Hardison

FROM:

Richard Powers RM

SUBJECT: Hackney & Sons, Incorporated - Washington Site

Site Assessment and Conceptual Remedial Action

I have reviewed the above mentioned report and conceptual plan for site restoration. The plan calls for the excavation of up to 3,200 tons of potentially contaminated soils, including some sediments at the storm water sewer discharge point. The soils are to go to the Beaufort County Landfill. While the groundwater monitoring wells show some degree of mixer contamination, the company proposes to emplace a groundwater remedial system that utilizes 60 recovery wells, treatment through three air strippers, and discharge to the POTW. Anticipated flow rates could be as high as 0.864 MGD. If the POTW cannot accept such a high volume, the company would seek a NPDES permit.

The report opens some other areas of concern, mostly in the fact that some contamination may be coming from off site sources. A former junkyard was located partially on the site and an active salvage yard borders on another side. If documented contamination is coming from these offsite source, the company may need our assistance in satisfying the lender in the compliance order that the lender made a condition of the loan package.

A tentative meeting has been set for October 10th, here in Washington. Attending would be representatives from the company and their consultant. Please see me if I can provide any further information.

cc: Roger Thorpe
Vic Copelan
Willie Hardison

Jim, additional comments

- 1. Hydraulic relationship between THZ w. T Aguiser and THE Ech must be determined.
- 2. collect water sample from Ech To determine it it's been impacted

Wellie 10/5/90

3. I recumend centimuous mentousny of 1th Ech.

4. Recember 1 Entering 12h 5.0.C