A.3.1

USEPA

Illinois Environmental Protection Agency · P. O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to: 0510350004 -- Fayette County
Vandalia/Van Tran Electric Corporation
ILD981093628
Compliance

RECEIVED
AUG 31 1990
OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION V

August 21, 1990

Van Tran Electric Corporation
ATTN: Mr. Steve Parke, Vice-President
7711 Imperial Drive
Post Office Box 20128
Waco, Texas 76702-0128

Dear Mr. Parke:

This letter is in response to yours dated June 7, 1990, concerning the groundwater monitoring requirements for the above referenced facility. As we previously discussed by telephone on May 23, 1990, the minimum RCRA groundwater monitoring requirements are included in the Agency's July 18, 1988 correspondence outlining the closure and post-closure requirements for a surface impoundment in accordance with 35 Ill. Adm. Code, Part 725. Specifically condition 7, page 4 and condition 8, pages 4 and 5 apply to groundwater monitoring. The first paragraph in condition 8 identifies well MW-D as an upgradient well and MW-A and two new wells as downgradient. Your October 19, 1988 submittal designated the newly installed downgradient wells as MW-E and MW-F. Therefore, the minimum RCRA groundwater monitoring system includes wells MW-A, MW-D, MW-E and MW-F.

All groundwater monitoring wells must be sampled using appropriate procedures and analytical methods to ensure results which accurately represent existing groundwater quality. Refer to Section 725.192(a) of 35 Ill. Adm. Code and condition 7 of the closure and post-closure plan.

In order to meet the upcoming third quarter groundwater monitoring requirements all field measurements and analytical results must be submitted by November 15, 1990 addressing the requirements of Section 725.193(d)(7)(A).

In addition to the analysis of groundwater samples from the monitoring points listed above, Van Tran must also consider the remaining site wells as integral components of a facility wide system. The system being necessary for monitoring the migration of the contaminants from the source areas, which may pose a threat to human health or the environment. The Agency is requesting that Van Tran comply with the groundwater monitoring requirements identified above including the sampling and analysis of the remaining site wells not specifically identified in the Agency's July 18, 1988 correspondence.

Should you have any questions regarding this matter, please contact me at 217/782-6760.

Very truly yours,

Kenneth W. Liss

Kenneth W. Liss, Acting Manager
Groundwater Assistance Unit
Permit Section
Division of Land Pollution Control

KWL:lab/2941n, 41-42

cc: USEPA Region V
Collinsville Regional Office
Ken Page
Ken Lovett
Bruce Carlson

USEPA

Illinois Environmental Protection Agency · P. O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to: 0510350004 -- Fayette County
Vandalia/Van Tran Electric Corporation
ILD981093628
Compliance File

April 9, 1990

Van Tran Electric Corporation
ATTN: Steve Parke
7711 Imperial Drive
P.O. Box 20128
Waco, Texas 76702-0128

Dear Mr. Parke:

On April 4, 1990, your facility was subject to a record review by the Illinois Environmental Protection Agency's Division of Land Pollution Control. The purpose of this review was to determine your facility's compliance with 35 Illinois Administrative Code Part 725, Subpart F. At the time of this review the apparent violation of 725.194(a)(2) (as incorporated by reference in 725.190(b)), for failure to submit groundwater monitoring data required to be transmitted as part of the annual report, was again noted.

If you have any questions concerning this continuing non-compliance letter, please contact Kenn Liss at 217/782-6761.

Sincerely,

Angela Aye Tin

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Division of Land Pollution Control

AAT:CLN:jas/1305n,1

cc: Division File
Collinsville Region
USEPA Region V
Enforcement
Kenn Liss
Chris Nifong

GERALD TOCKMAN
A PROFESSIONAL LAW CORPORATION
SUITE 1001, SECURITY BUILDING
319 N. FOURTH STREET
SAINT LOUIS, MISSOURI 63102

xc FOS Collinsville
xc USEPA
xc CLN
xhen KWL
Jon A.

TELEPHONE
(314) 241-8909
FACSIMILE
(314) 241-8936

February 23, 1990

Mr. Kenneth W. Liss
Illinois Environmental Protection Agency
P. O. Box 19276
Springfield, Illinois 62794-9276

RECEIVED
FEB 26 1990
IEPA-DLPC

Re: 0510350014
VanTran Electric Corporation
ILD981093628

Dear Mr. Liss:

As a result of a number of conversations with the Company about timetables and costs for the more immediate concerns of water monitoring and pit removal, the Company and I agreed that I should communicate with you our present situation and why we feel significant extensions of time for work commencement and completion are not only in the interest of the Company, but also, more importantly, in the interest and to the benefit of the State of Illinois and the IEPA.

During the last several months, the Company and I have searched literally thousands of documents and records in an effort to find one or more general and comprehensive liability insurance policies under which claims and reimbursement for environmental liability and response costs could viably be made and obtained. In about mid-December, 1989 I came across one such policy under which, I believe, the insurer is liable for any and all environmental liabilities and response costs, and on December 8, I asserted the Company's claim(s) for reimbursement and any further liability/response costs in connection with the Vandalia, Illinois facility. Under date of January 10, 1990 I received a response from the insurer's Environmental Claims Unit Manager requesting our detailed Statement of Position and ancillary documentation, all of which I supplied under date of February 8, 1990.

It appears probable from the correspondence that has been exchanged with the insurer that the insurer will accept full and comprehensive environmental liability responsibilities, including any and all response costs (albeit probably under a "Reservation of Rights"). Until a definitive response to this effect is received from the insurer, however (and as I'm sure you know) the Company is foreclosed from incurring any further investigatory expenses or other costs that could be considered "response costs" if it is to be successful in its Statement of Position that the insurer has full environmental liability coverage responsibility.

I'm certain you understand it will be to the advantage of both your Agency, the State of Illinois and the IEPA to have a solvent and financially capable insurer committed to any and all environmental liability and response costs in connection with the Vandalia Facility as opposed to having only VanTran and its now-closed Vandalia Facility as PRPs. With this in mind and on this basis, we request extensions of time on all presently contemplated remedial projects of not less than six (6) months from the date of this letter.

Sincerely,

Gerald Tockman

GT:awn

cc: Ms. Angela Aye Tin
Steve Parke
A. E. Bolin

xc USEPA
Marion office
Ken Liss
then Chris Nifong

817
772-9740

Vantran ELECTRIC CORPORATION

7711 IMPERIAL DRIVE • P.O. BOX 20128 • WACO, TEXAS 76702-0128

April 14, 1988

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-9276

Dear Ms. Tin:

As per discussion with Mr. Ken Liss I am writing this response.

As to date IEPA has made no determination that there needs to be a water monitoring program. The site testing, including soil and water has been completed. However, we do have and agreement with the IEPA to place one or two more down gradiant wells within the pit area.

We have been waiting on the IEPA to tell us where to locate these wells. As per Mr. Liss I understand this determination will be made shortly, possibly by the end of April.

If you have any further questions regarding this response contact Mr. Liss.

Very truly yours,

VANTRAN ELECTRIC CORPORATION

Steve Parke

Steve Parke
Compliance Officer

SP/cjr

RECEIVED
APR 18 1988
IEPA-DLPC

Steve D. –
FYI ✓

TOCKMAN, MOCERF & WOLK
A PROFESSIONAL LAW CORPORATION
SUITE 1001, SECURITY BUILDING
319 N. FOURTH STREET
SAINT LOUIS, MISSOURI 63102

TELEPHONE
(314) 241-8909

GERALD TOCKMAN
HOWARD L. MOCERF
GREGORY H. WOLK
STEPHEN L. UKMAN
IRA M. POTTER
CHERYL A. ROSE
CAROLINE M.C. KOMYATI

LISA C. WIHL
PARALEGAL

FRANK L. PELLEGRINI
OF COUNSEL

July 1, 1986

Mark A. LaRose, Esq.
Assistant Attorney General
Environmental Control Division
500 South Second Street
Springfield, Illinois 62706

Re: VanTran Electric Corporation v. IEPA

Dear Mr. LaRose:

Enclosed please find full copies of groundwater analysis report, including the page which had been missing from the earlier production. Also enclosed are some well logs which have been located.

Please note our new address.

Very truly yours,

Gregory H. Wolk

GHW/jl

Enclosure

cc: Mr. Maxim Gricevich
Envirodyne Engineers

RECEIVED
ENFORCEMENT PROGRAMS
JUL 3 1986
Environmental Protection Agency

Baker Engineers

June 26, 1986

Mr. Gregory H. Wolk
Tockman and Wolk
411 North Seventh Street, Suite 1415
Saint Louis, Missouri 63101

SUBJECT: VANTRAN ELECTRIC CORPORATION V. IEPA

Dear Greg:

Pursuant to your telephone conversation with L. A. Nieves on 6/25/86, attached are copies of the boring logs for the four exploratory wells installed at the Vandalia site. Additionally, attached is a full copy of PSI's report of groundwater analyses. As Mr. Nieves advised you, Jim Jannsen of IEPA is missing page 4 of this report.

We trust that this information meets your current needs. If there are any questions concerning this matter, please contact me or L. A. Nieves at 219/736-0263.

Very truly yours,

BAKER/TSA, INC.

Ernest W. Brix, Jr.

Ernest W. Brix, Jr.
ENGINEERING MANAGER

EWB/LAN/rl

Attachments

27

XG-RLS + return

RECEIVED
Field Operations Section

MAY 19 1976

Environmental Protection Agency
MAY 1 5 1976 Illinois

Mr. Howard Trindall, Plant Manager
VanTran Electric Corporation
1550 VanTran Avenue
Vandalia, Illinois 62471

Dear Mr. Trindall:

Attached is a copy of the report on our November 12, 1975 inspection of the VanTran Electric Corporation facility in Vandalia, Illinois. Our observation of the handling and disposal of PCBs at your facility indicates that the following precautions should be employed to prevent the possible loss of PCBs to the environment:

1. Containment structures such as dikes or curbs should be placed around PCB storage and work areas.

2. Accumulations of PCB fluids should be promptly removed from the outside of drums and other equipment after the transfer of the fluids to transformers.

3. Waste paints, thinners, and other equipment should not be stored in PCB drums which have not been cleaned unless you intend to dispose of such wastes as PCBs.

4. Wastes contaminated with PCBs such as rags and absorbent material should be separated from other wastes and disposed of in a landfill which has been specifically approved for this purpose by the State. The operator of the landfill which receives these wastes from your facility should have been issued a supplementary permit for disposal of PCB contaminated wastes by the Illinois Environmental Protection Agency. Additional information concerning the issuance of these supplementary permits can be obtained from Mr. Michael Rapps at the Illinois EPA office in Springfield, Illinois whose telephone number is (217) 782-6760.

The presence of a yard drain to a ditch at your facility is also noted in the report. We understand that flow in the ditch would discharge to a stream. If this drain receives storm water runoff which is contaminated by PCBs, you must apply for an NPDES permit for the discharge from this system in accordance with regulations promulgated in the Federal Register on March 18, 1976 (41 FR 11303). Furthermore, the U.S. EPA has determined that storm water discharges contaminated with PCBs should be treated by settling, oil/water separation, filtration, and activated carbon adsorption to reduce the concentration of PCBs to 10 parts per billion or less.

Within 30 days of receipt of this letter, please submit any evidence you may have that the storm water received by the yard drain mentioned in the report or any other drain on your property is not contaminated with PCBs. The best evidence would be an analytical determination of PCBs in the storm water runoff from your property although evidence that past and present practices cannot be reasonably expected to have contaminated the runoff would also be appropriate. In addition, we would appreciate your response concerning our recommendations for precautions in the handling and disposal of PCBs. If the operator of the disposal site which receives your PCB contaminated wastes has a supplementary permit for PCB disposal from the Illinois EPA, please include the number of that permit. Please refer any questions you may have to Robert Pearson or Howard Zar, members of my staff whose telephone number is (312) 353-1472.

Very truly yours,
Original signed by David Kee

David Kee, Acting Director
Enforcement Division

cc: Ronald Barganz, Illinois EPA

A.3.4

10/19/88

TEST BORING AND WELL CONSTRUCTION RECORD

Michael Baker, Jr., Inc.

PROJECT: VanTran Electric Corporation
S.O. NO.: 16342-SII
BORING NO.: MW-E
COORDINATES: EAST: 278,799.61
NORTH: 842,826.35
ELEVATION: SURFACE 525.62
TOP OF STEEL CASING: 527.55

RIG: TRUCK MOUNTED D-50

	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1-3/8"ID		4-1/4"		7/12/88	0.0 to 21.5	Damp, 80°	14.7	
LENGTH	18"		5'						
TYPE	Std.		H.S.						
HAMMER WT.	140#								
FALL	30"								
STICK UP		1.93							

REMARKS: First screened interval is 0.4' above bottom of total screen length.

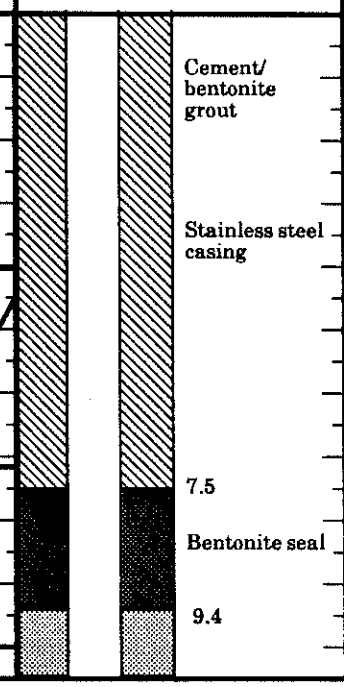
SAMPLE TYPE

S = Split Spoon
T = Shelby Tube
R = Air Rotary
D = Denison
A = Auger
W = Wash
C = Core
P = Piston
N = No Sample

WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
Well Casing	2"	304 S.S.	0.0	10.7
Well Screen	2"	316 S.S., 0.010 Slotted	10.7	21.4

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	Lab. Moist %	Visual Description
1.5	S-1	1.5 100%	12 25 21			**CLAY**, some sand; light brown; hard; some organic matter, dry
3.0	S-2	0.4 27%	24 31 30			
4.5	S-3	1.5 100%	12 12 11			4.0' **SAND**, coarse grained; orange; abundant coarse gravel; medium dense; dry
6.0	S-4	1.5 100%	11 14 14			4.5' **SAND**, coarse grained, trace of clay; orange; medium dense; dry
7.5	S-5	1.5 100%	10 10 8			7.2' **SAND**, medium grained; light brown to gray; loose; occasional pebble, damp
9.0	S-6	1.3 87%	5 4 4			
10.5	S-7	1.5 100%	4 4 4			10.0' Match to Sheet 2

Well Installation Detail



Elevation

DRILLING CO.: Professional Services, Inc.
BAKER REP.: R. Christensen
DRILLER: N. Eckerle
BORING NO.: MW-E
SHEET 1 OF 3

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: VanTran Electric Corporation
S.O. NO.: 16342-SII BORING NO.: MW-E

Michael Baker, Jr., Inc.

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
RQD = Rock Quality Designation (%)
Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)
Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis

Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	Lab. Moist %	Visual Description	Well Installation Detail	Elevation
10.5						Continued from Sheet 1		
11	S-8	1.5 100%	7 7 7			SAND, fine to medium grained, trace of silt; bright orange to red; loose to medium dense, damp	Sand pack	
12 12.0								
13 13.5	S-9	1.5 100%	5 6 6			13.2'		
14	S-10	1.5 100%	5 6 7			SAND, fine to medium grained, occasional pebble; light tan to brown; loose to medium dense Wet at 14.7'	S.S. screen	
15 15.0							SWL at 14.7'	
16 16.5	S-11	1.5 100%	3 5 7					
17 18 18.0	T-1	1.5 75%						
19	S-12	1.5 100%	8 13 12			19.0' SAND & GRAVEL, fine to medium grained, trace of clay; orangish brown; medium dense, wet		
20 20.0						20.5'		
21 21.5	S-13	1.5 100%	8 7 7			SAND, fine grained, trace of silt; light brown; medium dense, wet 21.5'	Bottom Plug	
22						End of Boring at 21.5'		
23								
24								
25								
26								
27								
28								
29								
30								

DRILLING CO.: Professional Services Inc. BAKER REP.: R. Christensen
DRILLER: N. Eckerle BORING NO.: MW-E SHEET 2 OF 3

FIELD WELL CONSTRUCTION LOG

Michael Baker, Jr., Inc.

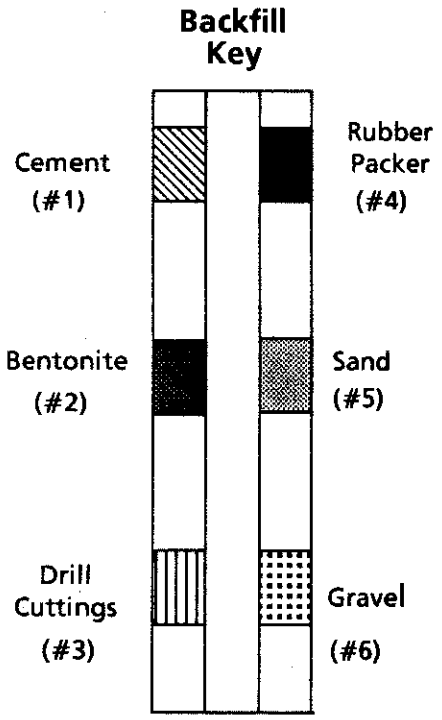
PROJECT: VanTran Electric Corporation
S.O. NO.: 16342-SII
COORDINATES: EAST: 278,799.61
ELEVATION: SURFACE 525.62

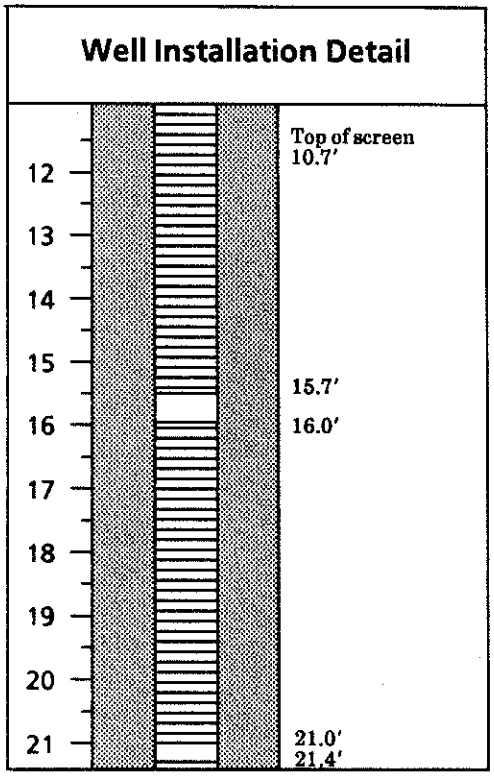
BORING NO.: MW-E
NORTH: 842,826.35
TOP OF STEEL CASING: 527.55

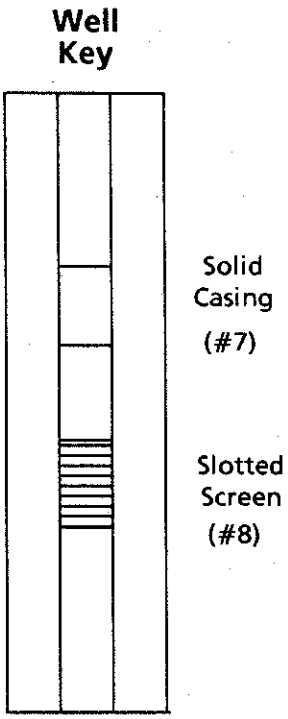
Well Development METHOD: Surge Block; Bailed approximately 25 gallons from well. Continued development until pH, temperature, and specific conductivity stabilized.

Pay Items			
Item	Quantity	Unit	Remarks
Ottawa Silica Sand 4.0	400	lbs.	Sand Pack
Bentonite Powder	15	lbs.	Grout Mixture
Cement	25	lbs.	Grout Mixture
Bentonite Pellets	50	lbs.	Bentonite Seal
Concrete			Concrete Apron

WELL INFORMATION	DIAM. (INCHES)	TYPE	TOP DEPTH (FT.)	BOTTOM DEPTH (FT.)
Well Casing	2"	304 S.S.	0.0	10.7
Well Screen	2"	316 S.S. Slotted	10.7	21.4







DRILLING CO.: Professional Services Inc.
DRILLER: N. Eckerle

BAKER REP.: R. Christensen
BORING NO.: MW-E

Illinois Environmental Protection Agency

Well Completion Report

Site #: _____ County: Fayette Well #: MWE

Site Name: Vantran Electric Company Grid Coordinate: Northing 842826.35 Easting 278799.61

Drilling Contractor: Professional Services Inc. Date Drilled Start: July 12, 1988

Driller: Nick Eckerle Geologist: Richard Christensen Date Completed: July 12, 1988

Drilling Method: Hollow Stem Augers Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Concrete Apron

Type of Annular Sealant: Cement/Bentonite

Amount of cement: # of bags .25 lbs. per bag 100

Amount of bentonite: # of bags .30 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Pellet

Amount of bentonite: # of Bags 1 lbs. per bag 50

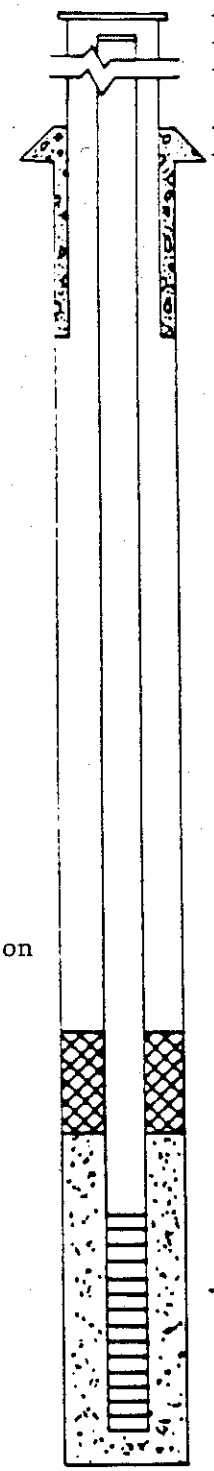
Type of Sand Pack: Dropped sand pack

Source of Sand: Ottawa Silica Sand

Amount of Sand: # of bags 4 lbs. per bag 100

Elevations – .01 ft.

527	55	MSL Top of Protective Casing
		MSL Top of Riser Pipe
1	93	ft. Casing Stickup
525	62	MSL Ground Surface
0	0	ft. Top of annular sealant



7	5	ft. Top of Seal
1	9	ft. Total Seal Interval
9	4	ft. Top of Sand
10	7	ft. Top of Screen
10	7	ft. Total Screen Interval
21	4	ft. Bottom of Screen
21	5	ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	304			
Riser pipe above w.t.	304			
Riser pipe below w.t.	304			
Screen	316			
Coupling joint screen to riser	304			
Protective casing				110 Carbon Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	1.57'
Protective casing length	5.0
Screen length	10.0
Bottom of screen to end cap	0.4
Top of screen to first joint	5.0
Total length of casing	23.0
Screen slot size	.010
% of openings in screen	Slotted
Diameter of borehole (in)	8.25 inches
ID of riser pipe (in)	2 inches

Completed by: Richard Christensen Surveyed by: Henry, Meisenheimer & Gende Inc. Ill. registration #: 2087

MONITORING WELL DEVELOPMENT FIELD DATA

Method: Surge Block and Bailing

Baker/TSA Representative: Richard Christensen - Geologist

Location: VanTran Electric, Vandalia, IL

Well: MW-E

Date: July 15, 1988

One Bore Volume= 1.10 gals

Time: 10:00 AM

Amount Removed (gallons)	*Time*	*Specific Conductivity umhos/cm*	*pH*	*Temperature (°C)*
4	*10:25*	734	6.89	19
10	*10:40*	705	6.86	19
15	*10:50*	705	6.90	20
20	*11:05*	695	6.90	19
25	*11:20*	704	6.87	19

Initial Static Water Level (TOC) = 16.27 ft

Initial Total Depth of Well (TOC) = 22.98 ft

Final Static Water Level (TOC) = 16.27 ft

Final Total Depth of Well (TOC) = 23.09 ft

Final Evacuated Volume (Gallons) = 25

Observations = Development water is slightly turbid

Was Drilling Fluid Used? No

TEST BORING AND WELL CONSTRUCTION RECORD

Michael Baker, Jr., Inc.

PROJECT: VanTran Electric Corporation
S.O. NO.: 16342-SII
BORING NO.: MW-F
COORDINATES: EAST: 278,800.22
NORTH: 842,836.88
ELEVATION: SURFACE 525.72
TOP OF STEEL CASING: 527.81

RIG: Truck Mounted D-50

	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1-3/8"ID		4-1/4"		7/13/88	0.0 to 33.0	Overcast, Hot	15.0	
LENGTH	18"		5'						
TYPE	Std.		H.S.						
HAMMER WT.	140#								
FALL	30"								
STICK UP		2.09'							

REMARKS: First screened interval is 0.4' above bottom of total screen length.

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
Well Casing	2"	304 S.S.	0.0	20.3
Well Screen	2"	316 S.S., 0.010 Slotted	20.3	31.0

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	Lab. Moist %	Visual Description	Well Installation Detail	Elevation
1 — 1.5	S-1	1.5 100%	12 29 22			**CLAY**, some sand; mottled light to dark brown; dessicated, hard; dry	Cement/ bentonite grout	
2 — 3 — 3.0	S-2	0.4 27%	22 13 6				Stainless steel casing	
4 — 4.5	S-3	1.5 100%	7 8 9			3.5' **CLAY**, some sand, abundant pebbles; light brown; dry 4.5'		
5 — 6 — 6.0	S-4	1.5 100%	8 9 9			**SAND**, coarse grained, trace of clay; dark red to orange; medium dense; dry		
7 — 7.5	S-5	1.5 100%	5 7 9			7.5'		
8 — 9 — 9.0	S-6	1.5 100%	5 5 5			**SAND**, fine to medium grained, occasional pebble; loose; damp		
10 — 10.5	S-7	1.5 100%	3 4 5			Match to Sheet 2		

DRILLING CO.: Professional Services Inc.
BAKER REP.: R. Christensen
DRILLER: N. Eckerle
BORING NO.: MW-F
SHEET 1 OF 4

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: VanTran Electric Corporation
S.O. NO.: 16342-SII BORING NO.: MW-F

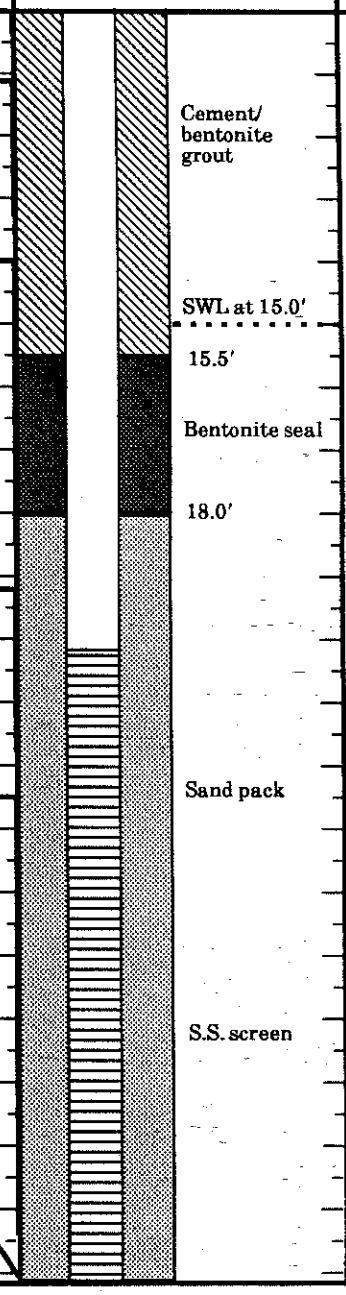
Michael Baker, Jr., Inc.

SAMPLE TYPE

S	= Split Spoon	A	= Auger
T	= Shelby Tube	W	= Wash
R	= Air Rotary	C	= Core
D	= Denison	P	= Piston
N	= No Sample		

DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
RQD = Rock Quality Designation (%)
Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)
Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis



Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	Lab. Moist %	Visual Description	Well Installation Detail	Elevation
10.5	S-7					Continued from Sheet 1		
11						Same as Above 11.2'		
12.0	S-8	1.5 100%	4 4 4			**SAND**, fine to medium grained; dark orange, occasional light brown seam; loose; damp	Cement/ bentonite grout	
13.5	S-9	1.5 100%	7 7 7			14.0'		
15.0	S-10	1.5 100%	5 5 5			**SAND**, medium to coarse grained, occasional small gravel seam; dark brown to tan; medium dense, wet at 15.0'	SWL at 15.0'	
16.5	S-11	1.5 100%	4 5 6				15.5'	
18.0	S-12	1.5 100%	4 7 12				Bentonite seal	
19.5	S-13	1.4 93%	7 8 9			19.3'	18.0'	
21.0	S-14	1.4 93%	8 10 13			**SAND & GRAVEL**, fine grained; orange to light brown; medium dense; abundant pebbles, wet		
22.5	S-15	1.3 87%	4 9 10			22.5'	Sand pack	
24.0	S-16	1.0 66%	7 8 10			**SAND**, fine to medium grained, trace of clay and silt; orangish brown; medium dense to dense, wet		
25.5	S-17	1.0 66%	5 11 15					
27.0	S-18	1.5 100%	10 15 18				S.S. screen	
28.5	S-19	1.0 66%	14 19 26					
30.0	S-20	1.5 100%	Sand Heave			30.0' Match to Sheet 3		

DRILLING CO.: Professional Services Inc. BAKER REP.: R. Christensen
DRILLER: N. Eckerle BORING NO.: MW-F SHEET 2 OF 4

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: VanTran Electric Corporation
S.O. NO.: 16342-SII BORING NO.: MW-F

Michael Baker, Jr., Inc.

SAMPLE TYPE
S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

DEFINITIONS
SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
RQD = Rock Quality Designation (%)
Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)
Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis

Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	Lab. Moist %	Visual Description	Well Installation Detail	Elevation
						Continued from Sheet 2		
31	S-21	0.5 33%	17 24 30			SAND, fine to medium grained, little sand and gravel; light brown; wet 31.5'	Screen Bottom Plug	
31.6						SAND & GRAVEL, coarse grained some clay; bluish gray; wet 32.5'		
32	T-1	100%				CLAY, some silt, abundant pebbles; blue-gray; wet 33.0'	Heaved seal	
32.5								
33.0	S-22	100%	56					
33						End of Boring at 33.0'		
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50						Match to Sheet 4		

DRILLING CO.: Professional Services Inc. BAKER REP.: R. Christensen
DRILLER: N. Eckerle BORING NO.: MW-F SHEET 3 OF 4

FIELD WELL CONSTRUCTION LOG

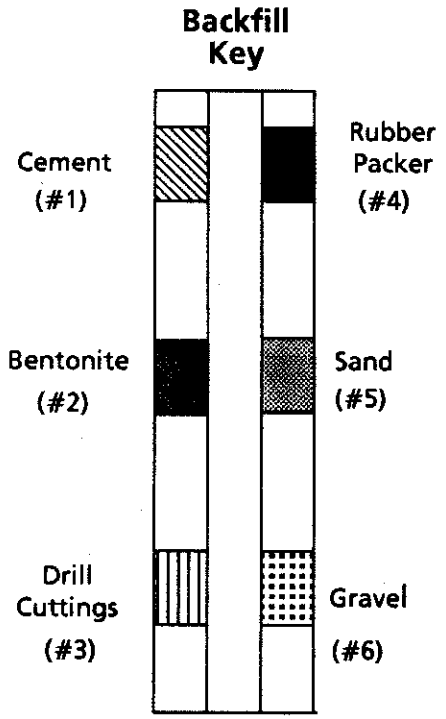
Michael Baker, Jr., Inc.

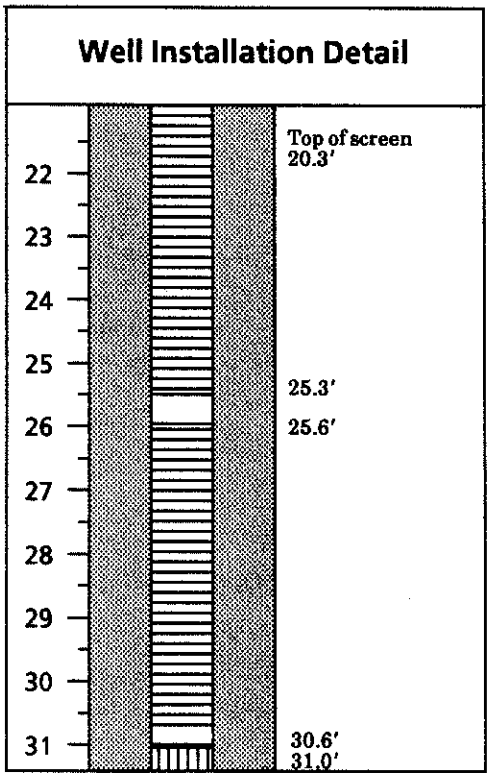
PROJECT: VanTran Electric Corporation
S.O. NO.: 16342-SII
BORING NO.: MW-F
COORDINATES: EAST: 278,800.22
NORTH: 842,836.88
ELEVATION: SURFACE 525.72
TOP OF STEEL CASING: 527.81

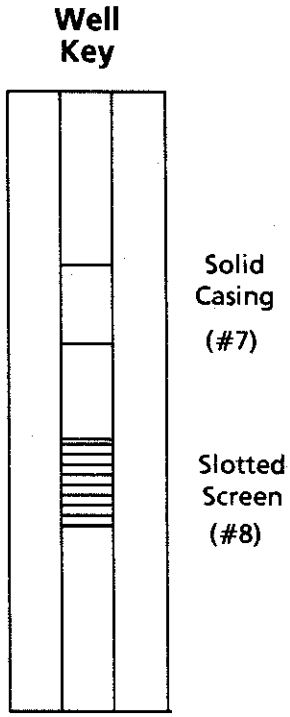
Well Development METHOD: Surge Block; Bailed 40 gallons from well. Continued development until pH, temperature, and specific conductivity stabilized.

Pay Items			
Item	Quantity	Unit	Remarks
Ottawa Silica Sand 4.0	200	lbs.	Sand Pack
Bentonite Powder	25	lbs.	Grout Mixture
Cement	150	lbs.	Grout Mixture
Bentonite Pellets	40	lbs.	Bentonite Seal
Concrete			Concrete Apron

WELL INFORMATION	DIAM. (INCHES)	TYPE	TOP DEPTH (FT.)	BOTTOM DEPTH (FT.)
Well Casing	2"	304 S.S.	0.0	20.3
Well Screen	2"	316 S.S. Slotted	20.3	31.0







DRILLING CO.: Professional Services Inc.
BAKER REP.: R. Christensen
DRILLER: N. Eckerle
BORING NO.: MW-F
SHEET 4 OF 4

Illinois Environmental Protection Agency — Well Completion Report

Site #: _____ County: Fayette Well #: MW-F

Site Name: VanTran Electric Grid Coordinate: Northing 842836.88 Easting 278800.22

Drilling Contractor: Professional Services Inc. Date Drilled Start: July 13, 1988

Driller: Nick Eckerle Geologist: Richard Christensen Date Completed: July 13, 1988

Drilling Method: Hollow Stem Augers Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Concrete Apron

Type of Annular Sealant: Cement/Bentonite

Amount of cement: # of bags 1.5 lbs. per bag 100

Amount of bentonite: # of bags .5 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Powder

Amount of bentonite: # of Bags 0.5 lbs. per bag 50

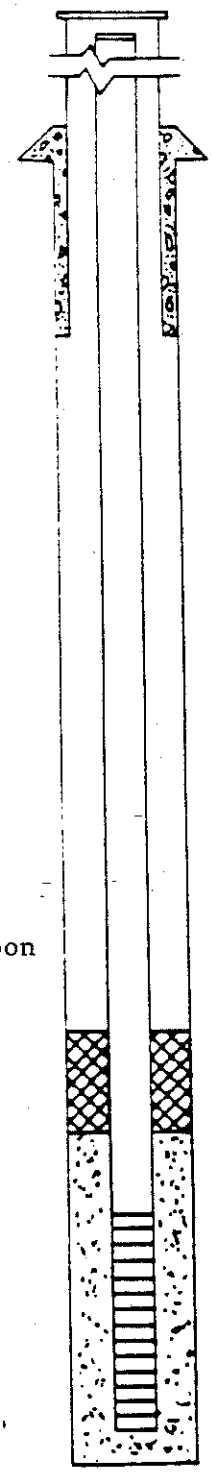
Type of Sand Pack: Dropped Sand Pack

Source of Sand: Ottawa Silica Sand

Amount of Sand: # of bags 2 lbs. per bag 100

Elevations — .01 ft.

527	81	MSL Top of Protective Casing
		MSL Top of Riser Pipe
2	09	ft. Casing Stickup
525	72	MSL Ground Surface
0	0	ft. Top of annular sealant



15	5	ft. Top of Seal
2	5	ft. Total Seal Interval
18	0	ft. Top of Sand
20	3	ft. Top of Screen
10	7	ft. Total Screen Interval
31	0	ft. Bottom of Screen
33	0	ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	304			
Riser pipe above w.t.	304			
Riser pipe below w.t.	304			
Screen	316			
Coupling joint screen to riser	304			
Protective casing				110 Carbon Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	2.0 ft
Protective casing length	5.0 ft
Screen length	10.0 ft
Bottom of screen to end cap	0.4 ft
Top of screen to first joint	5.0 ft
Total length of casing	33.0 ft
Screen slot size	0.010
% of openings in screen	Slotted
Diameter of borehole (in)	8.25 inches
ID of riser pipe (in)	2.0 inches

Completed by: Richard Christensen Surveyed by: Henry, Meisenheimer & Gende Ill. registration #: 2087

MONITORING WELL DEVELOPMENT FIELD DATA

Method: Surge Block and Bailing

Baker/TSA Representative: Richard Christensen - Geologist

Location: VanTran Electric, Vandalia, IL

Well: MW-F ***Date:*** July 15, 1988

One Bore Volume= 2.7 gals ***Time:*** 11:45 AM

Amount Removed (gallons)	*Time*	*Specific Conductivity umhos/cm*	*pH*	*Temperature (°C)*
5	12:00	543	7.88	21
15	12:35	610	7.23	19
25	13:00	614	7.16	19
35	13:20	619	7.10	19
40	13:45	615	7.17	19

Initial Static Water Level (TOC) = 16.56 ft

Initial Total Depth of Well (TOC) = 33.09 ft

Final Static Water Level (TOC) = 16.57 ft

Final Total Depth of Well (TOC) = 33.08 ft

Final Evacuated Volume (Gallons) = 40

Observations = Development water is slightly turbid

Was Drilling Fluid Used? No

0 21035 0004
Fayette
Van Tran Electric
SF - tech.

RECEIVED
MAY 22 1987
IEPA-DLPC

ENVIRODYNE ENGINEERS

12121 Lochland Road
St. Louis, Missouri 63146
(314) 434-6960

May 19, 1987
3059-30000

Dennis Newman
Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

RECEIVED
JUL - 1 1987
IEPA-DLPC

RE: Van Tran Electric Off-Site Sediment Sampling

Dear Dennis:

On May 13, 1987, Greg Dunn (IEPA/PSI) and I collected 12 sets of sediment samples from Town Branch Creek in Vandalia, Illinois. Sample locations are shown on the two attached maps ("Sketch 1" is the map from our 04/08/87 plan for sampling). All samples were obtained from areas of sediment deposition. Each sample is a composite of 3 to 5 subsamples taken within a 10' stream reach at each sample site. All but sample no. 4 were obtained with stainless steel spoons. No. 4 was obtained with a stainless steel soil probe. Subsamples were placed in stainless steel pans and field composited with stainless steel spatulas at each site, then placed in the containers provided. (Samples for the PSI survey were obtained from the same composites as our PCB samples.) Sites were sampled in the order 11, 10, 9, 8, 1, 7, 6, 3, 2, 4, 5. Descriptions of the sites and activities follow:

Site 1. Drainage ditch along RR tracks to N of site. Light brown medium sand. Dry.

Site 2. Roadside drainage ditch to NE of site. Light brown sandy silt. Dry.

Site 3. Drainage ditch below confluence of streams from sites 1 and 2. Light brown sandy silt. Dry.

Site 4. Drainage ditch from east side of site along south side of Ray's Excavating. Light brown silt. Dry. Compacted; obtained with soil probe.

Site 5. Deposition area below confluence of 3, 4. Brown silt. Ponded water.

Site 6. Drainage ditch from west side of site to south of Van Tran Avenue. Light brown silt. Dry. Obtained from mouths of culverts under Van Tran Avenue and entry road to Purina.

Site 7. Ponded deposition area below confluence of streams from sites 5 and 6. Brown silt.

ENVIRODYNE
ENGINEERS

Site 8. Large alluvial fan, approximately 200 yards to north of City Park. Brown silt. Stream flowing at this point.

Site 9. Central part of City Park. Three destinctly different groups of sediments in this area - (1) brown sand with intermixed detritus in central channel, (2) brown silt on top 1 - 1-1/2" with layer of dark brown organic muck on "outsides" of meanders, bluish-gray clay with 1/4 - 1/2" of brown silt on top to "insides" of meanders. Attempted to obtain equal alquots of ech.

Site 10. South end of City Park immediately upstream from confluence of Town Branch and a residential drainage stream from the west. Brown silt.

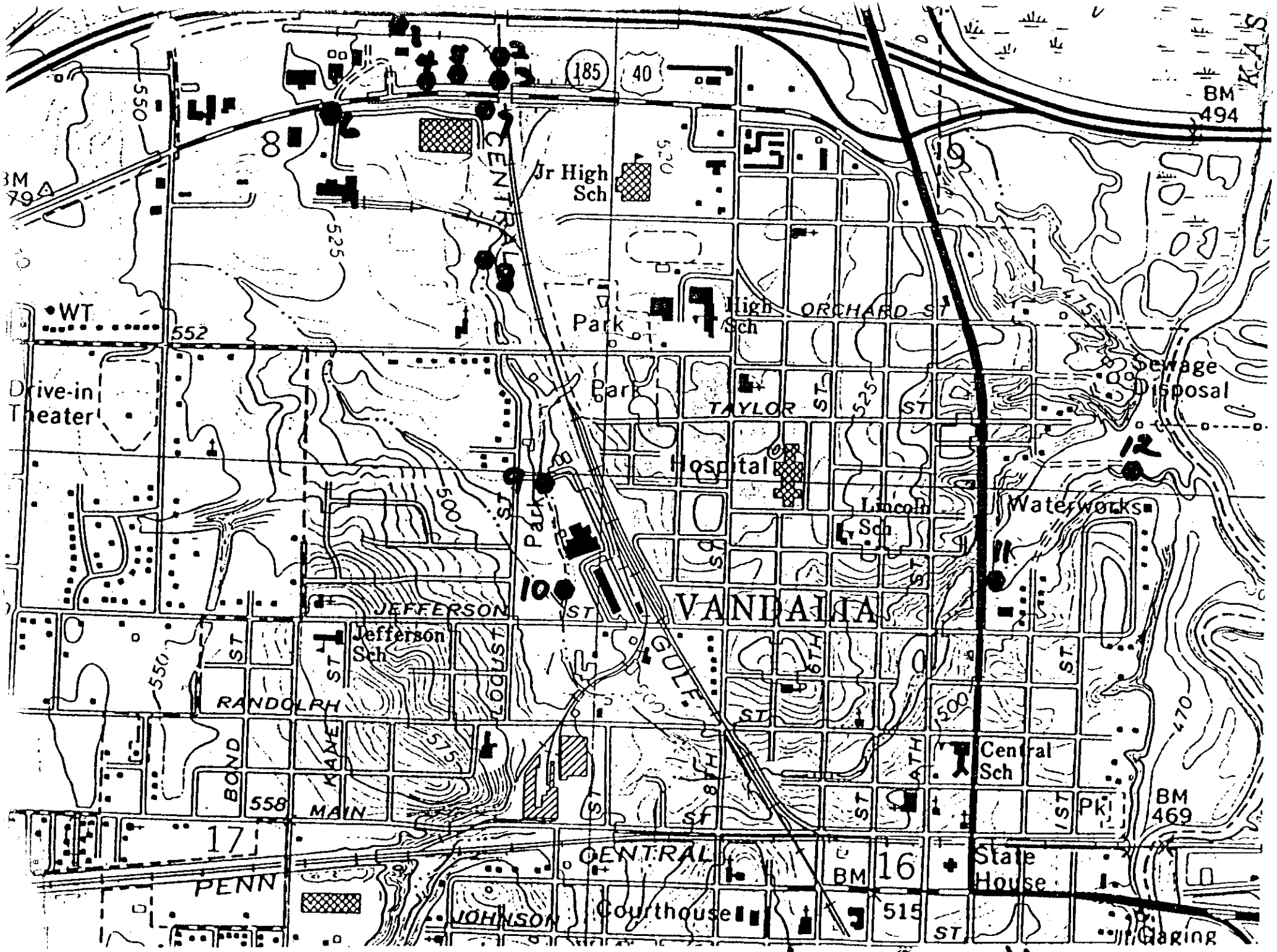
Site 11. Immediately downstream (east) of Highway 51. Brown clayey silt.

Site 12. Approximately 100 yards to west of confluence of Town Branch and Kaskaskia River. To inside (deposition side) of meander. Bluish-gray clayey silt with conspicuous iron nodules and septic odor.

Sincerely,

Maxim A. Gricevich
Project Manager

MAG/smb



5/13/87 Van Tran off-site Sediment Points

JUN 15 1987
IEPA-DLPC

051032000 / Fayette
VanTran Electric
Superfund Technical

ARDL Inc.
applied research & development laboratory

CHEMISTRY · BIOLOGY · PHYSIOLOGY
ENGINEERING · ENVIRONMENTAL ANALYSIS

12 June 87

Ms. Sue Doubet
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

Dear Sue:

Enclosed please find ARDL Inorganic and Organic Data Packages for Sample Numbers 200011, 200012 and 200014. This submission details our analysis of Vandalia/Vantran samples per the following:

1)	200011	V;BNA;PCB;Total Metals
2)	200012	V;BNA;PCB;Total Metals
3)	200014	PCB

The chain-of-custody form identifies the collector as Envirodyne, location Vandalia/Vantran and Mr. Dennis Newman as the Project Officer. Samples in lot 11 were collected on 4/22&23/87 and received 4/24/87. Lot 12 was collected on 4/27/87 and received at ARDL on 4/28/87. Lot 14 samples were collected on 5/14/87 and received on 5/15/87.

ARDL appreciates this opportunity to be of service to the IEPA-CLP.

Respectfully submitted,

Kenneth W. Lee
Lab Manager

KWL/clf

Enclosures

P.O. Box 1566 • 1801 W. Forest Street • Mt. Vernon, Illinois 62864 • (618) 244-3235

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2049

Date Sealed: 4/20/87 By: AWW

Facility Name: VANDALIA VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2000A	4-21-87	1105

Sample Appearance: DRY, GRAVELLY

Collector Comments: SPLIT W/ BAKER

Sampler Signature: Dale J Cira Division/Company: ENVIRODYNE

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS			
1	5	32oz	—	PCB, A/BN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): D. T. CIRA Signature: Dale J Cira

Date: 4-21-87 Time: 09:40 Seal #: 0002049 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale J Cira

Date: 4-22-87 Time: 2:57PM Seal #: 0002050

Courier - sample pickup: Federal Express

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/23/87 Time: 1000 Seal #: 2050 Intact?: (Y) / N

Lab Name: ARDL, Inc. Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2049

Date Sealed: 4/20/87 By: AWW

Facility Name: VANDALIA/VAN TRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510355000
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	3004A	4-21-87	3:20 PM

Sample Appearance: SILTY CLAY SOIL CORES

Collector Comments:

Sampler Signature: D.T. Cira Division/Company: ENVIRODYNE

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz.	—	TOTAL METALS	N		
1	5	32oz.	—	PCB, A/BN	N		
1	12	2oz	—	VOA	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): D.T. CIRA Signature: D.T. Cira

Date: 4-21-87 Time: 09:40 Seal #: 0002049 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: D.T. Cira

Date: 4-22-87 Time: 2:57 PM Seal #: 0002050

Courier - sample pickup: Federal Express

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/23/87 Time: 1000 Seal #: 2050 Intact?: (Y) / N

Lab Name: ARDL, Inc. Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2049

Date Sealed: 4/20/87 By: AWW

Facility Name: VANDALIA/VAN TRAN
Site Inventory #: 0510350004
Region: SOUTHERN
Site Billing Code: LP-52045
County: FAYETTE
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2008A	4-21-87	4:55 PM

Sample Appearance: SANDY - MED - COARSE

Collector Comments:

Sampler Signature: Dale T Cira Division/Company: ENVIRODYNE

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz.	—	TOTAL METALS	N	/	/
1	5	32oz.	—	PCB, A/BN	N	/	/
1	12	2oz.	—	VOA	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): D.T. CIRA Signature: Dale T Cira

Date: 4-21-87 Time: 0940 Seal #: 0002049 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-22-87 Time: 2:57 Seal #: 0002050

Courier - sample pickup: Federal Express Co.

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/23/87 Time: 1000 Seal #: 2050 Intact?: (Y) / N

Lab Name: ARDL, Inc. Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2049

Date Sealed: 4/20/87 By: [illegible]

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2014	4-23-87	0901

Sample Appearance: Soil

Collector Comments:

Sampler Signature: Dale Cira Division/Company: Envirodyne

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz.	—	TOTAL METALS			
1	5	32oz	—	PCB A/BN	N		
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed ~~and intact~~.

Opened by (print): D.T. CIRA Signature: Dale T Cira

Date: 4-21-87 Time: 09:40 Seal #: CCCCC49 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 2:30 PM Seal #: 0002048

Courier - sample pickup: Fed EXPRESS

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2042 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2047

Date Sealed: 4/20/87 By: A WW

Facility Name: VANDALIA VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP 52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2015	4-23-87	0914

Sample Appearance: Soil

Collector Comments:

Sampler Signature: Dale T Cira Division/Company: ENVIRODYNE

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz.	—	TOTAL METALS			
1	5	32oz	—	PCB/ABN	N		
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: Dale T Cira

Date: 4-22-87 Time: 2:57 PM Seal #: 2047 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 2:30 PM Seal #: 0002048

Courier - sample pickup: Fed XPress

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2042 Intact?: (Y) / N

Lab Name: ARDL, INC Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2047

Date Sealed: 4/24/87 By: A.W.

cility Name: VANDALIA, VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEUMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2016	4-23-87	0930

Sample Appearance: Soil

Collector Comments:

Sampler Signature: Dale T Cira Division/Company: CH2M HILL

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N		
1	5	32oz	—	PCB, A/BN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): DALE CIRA Signature: Dale T Cira

Date: 4-22-87 Time: 2:57 pm Seal #: 2047 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 2:30 PM Seal #: 0002048

Courier - sample pickup: Fed Express

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2042 Intact?: (Y) / N

Lab Name: AEDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2047

Date Sealed: 4/20/87 By: [illegible]

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2017	4-23-87	0945

Sample Appearance: Soil

Collector Comments:

Sampler Signature: [signature] Division/Company: ENVIRODYNE

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz.	—	TOTAL METALS			
1	5	32oz	—	PCB, A/BN	N		
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: [signature]

Date: 4-22-87 Time: 2:57 P.M Seal #: 2047 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: [signature]

Date: 4-23-87 Time: 2:30 PM Seal #: 0002048

Courier - sample pickup:

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2042 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2041

Date Sealed: 4/20/87 By: [illegible]

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP - 52045
Project Manager: DENNIS DEWAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2018	4-23-87	[illegible]

Sample Appearance: SOIL

Collector Comments:

Sampler Signature: Division/Company:

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS			
1	5	32oz	—	PCB, A/BN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: [illegible]

Date: 4-23-87 Time: 2:18 PM Seal #: 0002041 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature:

Date: 4-23-87 Time: 3:35 Seal #: [illegible]

Courier - sample pickup: Fed Express

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2041 Intact?: (Y) / N

Lab Name: ARDL, Inc. Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2041

Date Sealed: 4/20/87 By: [illegible]

Facility Name: LANDFILL/VAN TEAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2019	4-23-87	3:00

Sample Appearance: SOIL - CLAY

Collector Comments:

Sampler Signature: [signature] Division/Company: ENVIRODYNE

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS			
1	5	32oz	—	PCB A/BN	N		
1	5	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: [signature]

Date: 4-23-87 Time: 2:18PM Seal #: 0002041 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: [signature]

Date: 4-23-87 Time: 3:35 Seal #: 0002042

Courier - sample pickup: Fed Exp

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2041 Intact?: (Y) / N

Lab Name: ARDL Comments: Sample bottle broken upon arrival

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2041

Date Sealed: 4/20/87 By: [illegible]

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2020	4-23-87	3:09

Sample Appearance: Soil

Collector Comments:

Sampler Signature: Dale Cira Division/Company: EEI

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N		
1	5	32oz	—	PCB, A/BN	N		
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: Dale Cira

Date: 4-23-87 Time: 2:18 PM Seal #: 0002041 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale Cira

Date: 4-23-87 Time: 3:35 PM Seal #: 0002042

Courier - sample pickup: Fed Exp

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: Intact?: (Y) / N

Lab Name: ARDL Comments: Sample bottle broken upon arrival

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2041

Date Sealed: 4/20/87 By: AWW

Facility Name: VANDALIA/VAN TRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2021	4-23-87	3:06

Sample Appearance: SOIL CLAY

Collector Comments:

Sampler Signature: Dale T Cira Division/Company: EEI

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N		
1	5	32oz	—	PCB A/BN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 2:18 Seal #: 0002041 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 3:35 Seal #: 0002042

Courier - sample pickup: Fed Express

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2041 Intact?: (Y) / N

Lab Name: ARDL Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2045

Date Sealed: 4/20/87 By: AWW

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2022	4-23-87	3:17

Sample Appearance: CLAY SOIL

Collector Comments:

Sampler Signature: Dale T Cira Division/Company: ENVIRO ONE

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N/		
1	5	32oz	—	PCB, ABN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 2:25 PM Seal #: [illegible]15 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 3:30 PM Seal #: 2020 2045

Courier - sample pickup: Fed Express

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2046 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2045

Date Sealed: 4-20-87 By: [illegible]

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 051035000 4
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2023	4-23-87	3:16 PM

Sample Appearance: SOIL - CLAY

Collector Comments:

Sampler Signature: Dale T Cira Division/Company: ENVIRODYNE

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N		
1	5	32oz	—	PCB A/BN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 2:25 PM Seal #: 0002046 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 320 PM Seal #: 0002046

Courier - sample pickup: Fed EXPRESS

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in a custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2046 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2045

Date Sealed: 4/20/87 By: AWW

Facility Name: VANDELIA/VANTRAN
Site Inventory #: 0510350004
Region: SOUTHERN
Site Billing Code: LP 52045
County: FAYETTE
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	3024	4-23-87	2:22 P.M

Sample Appearance: Soil clay + sand

Collector Comments:

Sampler Signature: Dale T Cira Division/Company: ENVIRODYNE

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz.	—	TOTAL METALS	N		
1	5	32oz.	—	PCB, ABN			
1	18	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 2:25 PM Seal #: 0002045 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-23-87 Time: 3:30 Seal #: 0002046

Courier - sample pickup:

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in a custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/24/87 Time: 1115 Seal #: 2046 Intact?: (Y) N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2043

Date Sealed: 4/27/87 By: [illegible]

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2036 A	4-27-87	10:16 AM

Sample Appearance: Silty clay soil

Collector Comments: high HNU readings: 500 ppm

Sampler Signature: [signature] Division/Company: ENVIROTHC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N		
1	5	32oz	—	PCB, AIRN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: [signature]

Date: 4-27-87 Time: 07:54 Seal #: 0002043 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: [signature]

Date: 4-27-87 Time: 2:20 pm Seal #: 0002044

Courier - sample pickup: Federal Express

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: [signature]

Date: 4/28/87 Time: 1015 Seal #: 2044 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2043

Date Sealed: 4/20/87 By: A.

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2038 A	4-27-87	10:38 AM

Sample Appearance: SANDY CLAY SOIL

Collector Comments: HIGH HNU VALUES 500-1000PPM

Sampler Signature: Dale T Cira Division/Company: Envirodyne

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N		
1	5	32oz	—	PCB, A/BN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: Dale T Cira

Date: 4-27-87 Time: 07:54 Seal #: 0002043 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: Dale T Cira

Date: 4-27-87 Time: 2:20 pm Seal #: 0002044

Courier - sample pickup: FED'L EXPRESS

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/28/87 Time: 1015 Seal #: 2044 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2043

Date Sealed: 4/20/87 By: [illegible]

cility Name: VANDALIA VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	2049-A	4-27-87	13:29

Sample Appearance: sandy clay

Collector Comments: HNU values 50-200 ppm

Sampler Signature: [signature] Division/Company: ENVIROPYNE

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	TOTAL METALS	N		
1	5	32oz	—	PCB A/BN			
1	12	2oz	—	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): CIRA Signature: [signature]

Date: 4-27-87 Time: 07:54 Seal #: 0002043 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): CIRA Signature: [signature]

Date: 4-27-87 Time: 2:20pm. Seal #: 0002044

Courier - sample pickup: FED'L EXPRESS

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: Karen Cantner

Date: 4/28/87 Time: 1015 Seal #: 2044 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/14/87 By: AWN

Facility Name: VANDALIA VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0512350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 1	5/13/87	13:45

Sample Appearance: Silty Sand brown - tan

Collector Comments: 30 Day turnaround

Sampler Signature: Marlin [illegible] Division/Company: ECT

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	13:45

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 15:00 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K. Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: RNN

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 2	5/13/87	15:00

Sample Appearance: Brownish Clayey Silt little Sand

Collector Comments:

Sampler Signature: Maxim Gricevich Division/Company: EEI

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	1500

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 15:00 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K. Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: Y / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: [illegible]

Facility Name: VANDALIA/VANTRAN
Site Inventory #: 0510350004
Region: SOUTHERN
Site Billing Code: LP-52045
County: FAYETTE
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample # 3	5/13/87	14:45

Sample Appearance: Brown Silty Sand

Collector Comments: 30 day turnaround

Sampler Signature: [signature] Division/Company: CET

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	14:45

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 15:00 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K. Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: [illegible]

Facility Name: VANDALIA VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt 4	5/13/87	15:40

Sample Appearance: Silty Sand Clay

Collector Comments: 30 Day Turnaround

Sampler Signature: [signature] Division/Company: EEI

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	15:40

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 15:00 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in a custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K Cantner

Date: 5/15/87 Time: 1545 Seal #: 2770 Intact?: (Y) / N

Lab Name: ACOL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: AWD

Facility Name: VANDALIA/VANTRAN
Site Inventory #: 0510350004
Region: SOUTHERN
Site Billing Code: LP-52045
County: FAYETTE
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 5	5/13/87	15:50

Sample Appearance: Brown Sandy Silty

Collector Comments: 30 Day turnaround

Sampler Signature: Marlin [illegible] Division/Company: EEI

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz.	-	PCB	N	5/13/87	15:50

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 15:00 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: AWW

cility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 6 GW	5/13/87	14:20

Sample Appearance: Brownish Silty Sand

Collector Comments: 30 Day turnaround

Sampler Signature: [signature] Division/Company: EET

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz.	—	PCB	N	5/13/87	14:20

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 15:00 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: A N W

Facility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt 7	5/13/87	14:10

Sample Appearance: Grey muck, with brownish silt on Top

Collector Comments: 30 Day turnaround

Sampler Signature: Marvin [signature] Division/Company: EEI

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	14:10

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg DUNN Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg DUNN Signature: Gregory W. Dunn

Date: 5/14/87 Time: ~~[illegible]~~ GWD 1500 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Canther Signature: K Canther

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: [illegible]

acility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 8	5/13/87	1:04

Sample Appearance: Grayish brown Silty Sand

Collector Comments: 30 Day turnaround

Sampler Signature: Maxim [illegible] Division/Company:

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	1:04

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 1500 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: AWN

cility Name: VANDALIA/VANTRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt 9	5/13/87	12:35

Sample Appearance: Clay, Silt, Sand Black organic muck

Collector Comments: 30 Day turnaround

Sampler Signature: _____ Division/Company: _____

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz.	—	PCB	Y	5/13/87	12:35

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 1500 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery: _____

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in y custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K. Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments: _____

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: AWW

Facility Name: VANDALIA/VAN TRAN
Region: SOUTHERN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP-52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 10	5/13/87	11:36

Sample Appearance: Sandy Silt with little clay

Collector Comments: 30 Day turnaround

Sampler Signature: Marion [illegible] Division/Company:

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	11:36

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 1500 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: Y / N

Lab Name: ARDI Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/11/87 By: AWJ

Facility Name: VANDALIA/VANTRAN
Region: SOUTHEAN
County: FAYETTE

Site Inventory #: 0510350004
Site Billing Code: LP.52045
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 11	5/13/87	11:15

Sample Appearance: Black Mucky, Sandy clay

Collector Comments: 30 Day turnaround

Sampler Signature: Mayum [illegible] Division/Company: EEX

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz.	—	PCB	N	5/13/87	11:15

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 1500 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: ARDL Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2769

Date Sealed: 5/13/87 By: AWW

Facility Name: VANDALIA/VANTRAN
Site Inventory #: 0510350004
Region: SOUTHERN
Site Billing Code: LP-52045
County: FAYETTE
Project Manager: DENNIS NEWMAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	Sample pt. 12	5/13/87	10:38

Sample Appearance: Muck, clay little sand

Collector Comments: 30 Day turnaround

Sampler Signature: [signature] Division/Company: EEI

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	—	PCB	N	5/13/87	10:38

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/13/87 Time: 10:29 Seal #: 2769 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Greg Dunn Signature: Gregory W. Dunn

Date: 5/14/87 Time: 1500 Seal #: 2770

Courier - sample pickup: DHL

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Karen Cantner Signature: K Cantner

Date: 5/15/87 Time: 1445 Seal #: 2770 Intact?: (Y) / N

Lab Name: AEDL Comments:

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/kg

Lab Sample No. 200011-1

IEPA IDENT. # 2000A

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		1426
2. Antimony		0.23 U
3. Arsenic	S	3.1
4. Barium		165
5. Beryllium		0.4 U
6. Cadmium		5.5
7. Calcium		
8. Chromium	S	14
9. Cobalt		2.8 U
10. Copper		14
11. Iron		8278
12. Lead		13
13. Magnesium		
14. Manganese		575
15. Mercury		0.10 U
16. Nickel		3.7
17. Potassium		
18. Selenium		0.83
19. Silver		5.5
20. Sodium		
21. Thallium		0.18 U
22. Tin		
23. Vanadium	S, +	15
24. Zinc		34

Footnotes:

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

Comments:

Lab Manager: Aaron Simpson

ZDDDDDDDDDDDDDDD
I Sample Number I
I 200011-1 I
@DDDDDDDDDDDDDDY
2000A

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-1
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/16/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	3100. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	4800. B	71-43-2	Benzene	290. BJ
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	680. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	10000.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	2200. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	250. BJ
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	830. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2000A

Lab Name: AROL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-1

Sample wt/vol: 3.9 (g/mL) 6

Lab File ID: 1112000A

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (~~pack~~/cap)

Dilution Factor: 1.0

Number TICs found: 10

Concentration Units: µg/kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Carbon Dioxide	1:08	30764	4400	J
124-38-9	unknown	1:24	40332	5600	J
	unknown	7:02	33264	4700	J
	Acetic Acid, Methyl Ester	10:24	17772	2600	J
79-20-9	C6 substituted cycloalkane	16:04	15108	540	J
	C6 alkane	19:54	96990	3500	J
	C9-14 di alcohol	27:16	64478	2800	J
	unknown	32:28	97866	4400	J
	unknown	34:04	27598	1200	J
	unknown	35:36	30192	1300	J

Laboratory Name: ARDL, INC.
Case No: VAN TRAN

Sample Number
200011-1RE

2000A

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 06/04/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	250. J
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	330. U
91-20-3	Naphthalene	36. J
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	420.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	330. U
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2000A

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200011-1RE

Sample wt/vol: 9.8 (g/mL) G Lab File ID: 1112000ASRE

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 6/4/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Number TICs found: 17 Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Oxygenated C-6 alkane	8:53	2136220	60 000	J
	Unknown	10:55	12018200	340 000	J
	unknown	15:52	128303	1400	J
	C-6 hydrocarbon	16:30	1276160	14 000	J
	C-9 alkane	17:22	1682960	18 000	J
	unknown	19:04	216671	2 300	J
	Siloxane Deriv.	21:35	193948	4 500	J
	" "	22:09	279408	6 500	J
	unknown	23:44	1080590	25 000	J
	alkane	24:59	132770	3 200	J
	C-11 alkane	26:19	245535	3 400	J
	Benzenedicarboxylic Acid Deriv	27:16	147090	2 000	J
	unknown	28:23	397840	5 500	J
	unknown alkane	28:32	369637	5 100	J
	unknown	35:26	300151	5 700	J
	unknown	36:56	177634	3400	J
	unknown	43:06	101911	2800	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2000A

Lab Name: HRDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 2000II-1

Sample wt/vol: 8.7 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 6/6/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.75

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	210	U

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/Kg

Lab Sample No. 200011-2

IEPA IDENT. # 2004A

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		8610
2. Antimony		0.23 U
3. Arsenic	S	6.5
4. Barium		28
5. Beryllium		0.46
6. Cadmium		0.37 U
7. Calcium		
8. Chromium	S	14
9. Cobalt		2.8 U
10. Copper		5.6
11. Iron		5818
12. Lead		7.7
13. Magnesium		
14. Manganese		18
15. Mercury		0.10 U
16. Nickel		4.6
17. Potassium		
18. Selenium		0.46 U
19. Silver		0.74
20. Sodium		
21. Thallium		0.19 U
22. Tin		
23. Vanadium	S, +	20
24. Zinc		19

Footnotes:

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

Comments:

Lab Manager: Aaron Simpson

ZDDDDDDDDDDDDDDD?
3 Sample Number 3
3 200011-2R 3
@DDDDDDDDDDDDDDY

2004A

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-2R
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/16/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	2700. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	8800. B	71-43-2	Benzene	270. BJ
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	650. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	8300.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	2100. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	870. B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	1000. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2004A

Lab Name: ARDL, Inc

Contract: VAN TRAN

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-2R

Sample wt/vol: 4.3 (g/mL) G

Lab File ID: 1122004AR

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 10

Concentration Units: µg/kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon Dioxide	1:10	42996	5000	J
	unknown	1:24	50029	5800	J
	unknown	6:58	36271	4200	J
79-20-9	Acetic Acid, Methyl Ester	10:24	23379	2800	J
	unknown hydrocarbon	15:24	9239	1100	J
	C6 substituted cycloalkane	16:04	14842	430	J
	unknown hydrocarbon	19:54	121175	3500	J
	unknown aromatic	27:38	961872	34000	J
	C10-13 alkane	31:14	3651670	130000	J
	dichlorobenzene	35:40	495993	17000	J

Laboratory Name: ARDL, INC.
Case No: VAN TRAN

Sample Number
200011-2

2004A

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/02/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	330. U
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	2500.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	330. U
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2004A

Lab Name: ARDL, Inc.

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-2

Sample wt/vol: 5.8 (g/mL) G

Lab File ID: 112200 4SV

Level: (low/med) low

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/2/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Number TICs found: 16

Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Oxygenated C-6	8:57	56165	5420	J
	unknown	9:32	637428	61500	J
	Oxygenated C-7	10:18	7199800	695000	J
	Substituted Hexane	10:28	20665	2000	J
	C-9 alkane	10:39	46021	4450	J
	unknown	10:50	43543	4200	J
	unknown	11:59	24349	2350	J
	unknown	13:26	23285	2250	J
	unknown	17:47	57868	3600	J
	Propanoic acid Decy	24:00	243290	19000	J
	Benzenedicarboxylic Acid Dec	27:33	43392	2410	J
	unknown	29:55	12207	700	J
	unknown	30:58	19585	1090	J
	unknown	31:59	21504	1200	J
	unknown	33:03	20466	1680	J
	unknown	34:04	14129	1200	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2604A

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 20001/-2

Sample wt/vol: 5.8 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 6/6/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.75

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/kg

Lab Sample No. 20001/-3

IEPA IDENT. # 2008A

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		696
2. Antimony		0.25 U
3. Arsenic		1.0 U
4. Barium		20
5. Beryllium		0.44
6. Cadmium		0.50
7. Calcium		
8. Chromium	S	4.0
9. Cobalt		3.0 U
10. Copper		0.9 U
11. Iron		1792
12. Lead		2.0
13. Magnesium		
14. Manganese		105
15. Mercury		0.09 U
16. Nickel		3.0
17. Potassium		
18. Selenium		0.50 U
19. Silver		0.91
20. Sodium		
21. Thallium		0.20 U
22. Tin		
23. Vanadium		7.9
24. Zinc		14

Footnotes:

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

Comments:

Lab Manager: Aaron Simpson

Sample Number
200011-3
200SA

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-3
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/15/87
Date Analyzed: 05/15/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloroproene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	3300. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	2500. B	71-43-2	Benzene	220. J
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	450. BJ	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	1000. U	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	1500. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	130. J
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	460. BJ

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2008A

Lab Name: ARDL Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-3

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: 1132008A

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/15/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 5

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	argon	1:08	43959	6890	I
	Carbon dioxide	1:22	63465	9950	I
	Unknown	4:04	44679	7000	I
64-17-5	Ethanol	6:50	52857	8290	I
110-54-3	Hexane	19:50	82720	3240	I

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2008A

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200011-3

Sample wt/vol: 11.2 (g/mL) G Lab File ID: 1132008ASV

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc Date Analyzed: 6/3/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Number TICs found: 20 Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	oxygenated C-6	8:41	145445	5700	J
	C-8 alkene	8:47	52641	2050	J
	unknown	9:30	614513	24100	J
	C-9 alkane	9:40	422894	16600	J
	unknown	10:14	18530600	726200	J
	C-9 alkane	10:26	442850	17350	J
	unknown	10:36	439936	17250	J
	unknown	11:45	108512	4250	J
	unknown	12:27	243844	9550	J
	C-10 alkane	12:43	89668	3500	J
	unknown	13:11	71692	2810	J
	unknown	13:23	270051	10600	J
	unknown	13:51	48892	1900	J
	unknown	14:20	37203	1450	J
	unknown	14:45	48059	1880	J
	Propenoic Acid Deriv	23:45	1058050	34250	J
	Benzenedicarboxylic Acid Deriv	27:16	101632	2200	J
	unknown	31:42	28166	1000	J
	unknown	32:34	96626	3100	J
	unknown	33:22	29568	1000	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2008A

Lab Name: ARDL Contract: Vantran

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

Matrix: (soil/water) SOIL Lab Sample ID: 200011-3A

Sample wt/vol: 11.2 (g/mL) G Lab File ID: _____

Level: (low/med) MED Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 5/13/87

GPC Cleanup: No pH: _____ Dilution Factor: 0.75

Concentration Units: UG/KG
(ug/L or ug/Kg

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	370	
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	—	X

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2008A

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-3B

Sample wt/vol: 11.2 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/13/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.19

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	840	U
11104-28-2	Aroclor-1221	840	U
11141-16-5	Aroclor-1232	840	U
53469-21-9	Aroclor-1242	840	U
12672-29-6	Aroclor-1248	840	U
11097-69-1	Aroclor-1254	840	U
11096-82-5	Aroclor-1260	2100	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/Kg

Lab Sample No. 200011-4

IEPA IDENT. # 2014

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		7366
2. Antimony		0.23 U
3. Arsenic	S	6.4
4. Barium		55
5. Beryllium		0.64
6. Cadmium		0.55
7. Calcium		
8. Chromium	S	14
9. Cobalt		7.4
10. Copper		13
11. Iron		10128
12. Lead		16
13. Magnesium		
14. Manganese		253
15. Mercury		0.08U
16. Nickel		6.4
17. Potassium		
18. Selenium		0.46 U
19. Silver		0.37 U
20. Sodium		
21. Thallium		0.19 U
22. Tin		
23. Vanadium		25
24. Zinc		57

Footnotes:

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

Comments:

Lab Manager: [signature]

Sample Number
200011-4

2014

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-4
Sample Matrix: SOIL
Data Release Authorized By:

Case No: CIPS TVILLE
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/15/87
Date Analyzed: 05/15/87
Conc Factor: 1.050420 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	950. U	78-87-5	1,2-Dichloropropane	480. U
74-83-9	Bromomethane	950. U	10061-02-6	Trans-1,3-Dichloropropene	480. U
75-01-4	Vinyl Chloride	950. U	79-01-6	Trichloroethene	480. U
75-00-3	Chloroethane	950. U	124-48-1	Dibromochloromethane	480. U
75-09-2	Methylene Chloride	3800. B	79-00-5	1,1,2-Trichloroethane	480. U
67-64-1	Acetone	2500. B	71-43-2	Benzene	480. U
75-15-0	Carbon Disulfide	480. U	10061-01-5	cis-1,3-Dichloropropene	480. U
75-35-4	1,1-Dichloroethene	480. U	110-75-8	2-Chloroethylvinylether	950. U
75-35-3	1,1-Dichloroethane	480. U	75-25-2	Bromoform	480. U
156-60-5	Trans-1,2-Dichloroethene	480. U	108-10-1	4-Methyl-2-Pentanone	950. U
67-66-3	Chloroform	500. B	591-78-6	2-Hexanone	950. U
107-06-2	1,2-Dichloroethane	480. U	127-18-4	Tetrachloroethene	480. U
78-93-3	2-Butanone	950. U	79-34-5	1,1,2,2-Tetrachloroethane	950. U
71-55-6	1,1,1-Trichloroethane	480. U	108-88-3	Toluene	1600. B
56-23-5	Carbon Tetrachloride	480. U	108-90-7	Chlorobenzene	480. U
108-05-4	Vinyl Acetate	950. U	100-41-4	Ethylbenzene	480. U
75-27-4	Bromodichloromethane	480. U	100-42-5	Styrene	480. U
				Total Xylenes	480. BU

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2014

Contract: Van Tran

Lab Name: ARDL, Inc

SAS No.: _____ SDG No.: _____

Lab Code: _____ Case No.: _____

Lab Sample ID: 200011-4

Matrix: (soil/water) Soil

Lab File ID: 1142014

Sample wt/vol: 4.2 (g/mL) G

Date Received: 4/24/87

Level: (low/med) Med

Date Analyzed: 5/15/87

% Moisture: not dec. _____

Dilution Factor: 1

Column (pack/cap)

Concentration Units: ug/Kg (ug/L or ug/Kg)

Number TICs found: 6

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Unknown	1:02	30343	5440	J
	Unknown	1:22	57843	10375	J
	Unknown	6:48	214255	38430	J
	Unknown	18:22	33978	1560	J
	Unknown	19:50	81677	3760	J
	Hexane	30:40	40857	2100	J
110-54-3	Dimethyl Benzene				

Laboratory Name: ARDL, INC.
Case No: VAN TRAN

ZDDDDDDDDDDDDDDD?
J Sample Number J
J 200011-4 J
@DDDDDDDDDDDDDDDY

2014

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/03/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	330. U
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	2400.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	330. U
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2014

Contract: Van Tran

Lab Name: ARDL, Inc.

SAS No.: _____ SDG No.: _____

Lab Code: _____ Case No.: _____

Lab Sample ID: 200011-4

Matrix: (soil/water) Soil

Lab File ID: 1142014SV

Sample wt/vol: 7.7 (g/mL) G

Date Received: 4/24/87

Level: (low/med) low

Date Extracted: 5/6/87

% Moisture: not dec. _____ dec. _____

Date Analyzed: 6/3/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Dilution Factor: 1.0

GPC Cleanup: NO pH: _____

Concentration Units: UG/KG (ug/L or ug/Kg)

Number TICs found: 20

CAS Number	Compound Name	RT	Area	Est. Conc.	?
	C-6 alkene	8:41	96662	8030	J
	unknown	9:18	442911	36800	J
	unknown	9:40	258266	21450	J
	oxygenated C-7	10:07	13811200	1150000	J
	C-9 alkane	10:14	254091	21100	J
	C-9 alkane	10:25	219998	26770	J
	unknown	10:36	234152	19450	J
	unknown	12:26	216376	18000	J
	unknown	12:43	22899	1900	J
	unknown	13:05	254211	21100	J
	unknown	13:22	25039	2080	J
	Benzenedicarboxylic acid deriv	27:15	85724	3570	J
	alkane Hydrocarbon	29:38	22866	1000	J
	unknown Hydrocarbon	30:42	23626	1000	J
	Methyl Substhexane	31:43	28060	1170	J
	unknown	32:34	36586	1520	J
	oxygenated C-10	32:46	16926	1050	J
	unknown	33:22	29696	2000	J
	unknown	35:07	24966	1500	J
	unknown	36:34	45899	2800	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2014

Lab Name: ARDL

Contract: Vantram

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-4

Sample wt/vol: 7.3 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/13/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.75

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	240	U
11104-28-2	Aroclor-1221	240	U
11141-16-5	Aroclor-1232	240	U
53469-21-9	Aroclor-1242	180	J
12672-29-6	Aroclor-1248	240	U
11097-69-1	Aroclor-1254	240	U
11096-82-5	Aroclor-1260	750	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/Kg

Lab Sample No. 200011-5

IEPA IDENT. # 2015

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		4510
2. Antimony		0.22 U
3. Arsenic	S	18
4. Barium		18
5. Beryllium		0.72
6. Cadmium		0.90
7. Calcium		
8. Chromium	S	9.0
9. Cobalt		5.4
10. Copper		7.2
11. Iron		13529
12. Lead		8.2
13. Magnesium		
14. Manganese		78
15. Mercury		0.09 U
16. Nickel		9.0
17. Potassium		
18. Selenium		0.45 U
19. Silver		0.36 U
20. Sodium		
21. Thallium		0.18 U
22. Tin		
23. Vanadium		22
24. Zinc		23

Footnotes:

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

Comments:

Lab Manager: [signature]

Sample Number
200011-5

2015

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-5
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/18/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	2400.	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	4200.	71-43-2	Benzene	240. J
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	460. J	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	6000.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	1400.
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	180. J
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	510.

J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2015

Contract: Van Tran

Lab Name: AROL, Inc

SAS No.: _____ SDG No.: _____

Lab Code: _____ Case No.: _____

Lab Sample ID: 200011-5

Matrix: (soil/water) Soil

Lab File ID: 1152015

Sample wt/vol: 6.1 (g/mL) G

Date Received: 4/24/87

Level: (low/med) Med

Date Analyzed: 5/17/87

% Moisture: not dec. _____

Dilution Factor: 1.0

Column (pack/cap)

Concentration Units: ug/Kg (ug/L or ug/Kg)

Number TICs found: 7

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon Dioxide	1:10	27501	2730	J
	unknown	1:26	32802	3250	J
	unknown	4:18	5478	550	J
	unknown	7:00	34387	3400	J
	unknown	10:24	11689	1160	J
79-20-9	Methyl Acetate	15:24	5626	150	J
	unknown	19:54	85789	2290	J
	unknown				

Laboratory Name: ARDL, INC.
Case No: VAN TRAN

ZDDDDDDDDDDDDDDD?
3 Sample Number 3
3 200011-5 3
@DDDDDDDDDDDDDDDY

2015

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/03/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	330. U
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	2100.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	330. U
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2015

Lab Name: ARDL, Inc.

Contract: Van Tran

Lab Code: _____ Case No.: _____

CAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-5

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: 11520155V

Level: (low/med) low

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/3/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Number TICs found: 20

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Oxygenated C-6	8:40	422258	41100	J
	unknown	9:18	173872	16900	J
	unknown	9:22	215158	20950	J
	unknown	9:28	31048	3020	J
	unknown	9:40	339915	33100	J
	unknown	10:08	13425400	1307000	J
	unknown	10:11	888128	86450	J
	unknown	10:18	100574	9800	J
	C-9 alkane	10:25	356264	34670	J
	C-10 alkane	10:36	297486	28950	J
	Oxygenated C-7	12:26	130195	12670	J
	C4 alkane + O + N	12:43	18640	1800	J
	Chlorinated C4 Alkane	13:11	51862	5050	J
	propanoic acid deriv	23:45	325364	26950	J
	Benzenecarboxylic acid deriv	27:16	60898	2970	J
	C-10 alkane	29:39	11027	550	J
	C-10 alkane	30:42	13249	650	J
	unknown	31:43	10692	680	J
	unknown	32:34	28626	1800	J
	unknown	33:22	18714	1200	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2015

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-5

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/13/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.75

Concentration Units: ug/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	290	U
11104-28-2	Aroclor-1221	290	U
11141-16-5	Aroclor-1232	290	U
53469-21-9	Aroclor-1242	190	J
12672-29-6	Aroclor-1248	290	U
11097-69-1	Aroclor-1254	290	U
11096-82-5	Aroclor-1260	710	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/Kg

Lab Sample No. 200011-6

IEPA IDENT. # 2016

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		1874
2. Antimony		0.24 U
3. Arsenic	S	3.0
4. Barium		19 U
5. Beryllium		0.38
6. Cadmium		0.38 U
7. Calcium		
8. Chromium	S	5.7
9. Cobalt		2.8 U
10. Copper		0.9 U
11. Iron		1998
12. Lead		4.2
13. Magnesium		
14. Manganese		34
15. Mercury		0.07 U
16. Nickel		1.9
17. Potassium		
18. Selenium		0.48 U
19. Silver		0.38 U
20. Sodium		
21. Thallium		0.19 U
22. Tin		
23. Vanadium		8.6
24. Zinc		22

Footnotes:

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

Comments:

Lab Manager: [signature]

Sample Number
200011-6R

2010

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-6R
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VANTRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/14/87
Date Analyzed: 05/15/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 100.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	230. J
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	4000. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	2400. B	71-43-2	Benzene	450. J
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	280. J	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	570. B	591-78-6	2-Hexanone	0. J
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	11000.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	2000. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	200. J
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	170. J
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	60[illegible] J

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2016

Contract: Van Tran

Lab Name: ARDL, Inc

SAS No.: _____ SDG No.: _____

Lab Code: _____ Case No.: _____

Lab Sample ID: 200011-6R

Matrix: (soil/water) Soil

Lab File ID: 162016R

Sample wt/vol: 4.0 (g/mL) G

Date Received: 4/24/87

Level: (low/med) Med

Date Analyzed: 5/15/87

% Moisture: not dec. _____

Dilution Factor: 1.0

Column (pack/cap)

Concentration Units: UG/KG (ug/L or ug/Kg)

Number TICs found: 9

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Argon	0:32	4808	800	J
7440-37-1	Carbon dioxide	1:08	41547	6980	J
124-38-9	unknown	1:24	38852	6430	J
	unknown	7:02	32755	5420	J
	Methyl Acetate	10:10	15462	2560	J
79-20-9	1,1,2-trichloro-1,2,2-trifluoro ethane	13:10	7075	1170	J
76-13-1	unknown	14:50	3954	655	J
	unknown	15:22	440	730	J
	unknown	19:48	75037	3150	J
110-54-3	hexane				

Laboratory Name: ASDL, INC.
Case No: VANTRAN

Sample Number
200011-6FE

2016

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 06/04/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG	
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl Alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-Propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic Acid	1600.	U
111-91-1	bis(2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-Methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
99-09-2	3-Nitroaniline	1600.	U

CAS Number		UG/KG	
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-10-6	4-Nitroaniline	1600.	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1600.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-Butylphthalate	230.	J
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	660.	U
56-55-3	Benzo(a)Anthracene	330.	U
117-81-7	bis(2-Ethylhexyl)Phthalate	390.	
218-01-9	Chrysene	330.	U
117-84-0	Di-n-Octyl Phthalate	330.	U
205-99-2	Benzo(b)Fluoranthene	330.	U
207-08-9	Benzo(k)Fluoranthene	330.	U
50-32-8	Benzo(a)Pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330.	U
53-70-3	Dibenz(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)Perylene	330.	U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2016

Lab Name: ARDL, Inc. Contract: VANTRAN/VANDALIA

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

Matrix: (soil/water) Soil Lab Sample ID: 200011-6RE

Sample wt/vol: 8.5 (g/mL) G Lab File ID: 11620165VRE

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 6/4/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Number TICs found: 17 Concentration Units: µg/kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	C_{6-8} ketone	9:42	33 635	1.21×10^3	J
	unknown hydrocarbon	9:16	382 303	13.7×10^3	J
	C_9 alkane	9:41	150 528	5.9×10^3	J
	unknown hydrocarbon	10:03	12 784 700	457×10^3	J
	C_{6-7} ketone	11:44	49 308	1.77×10^3	J
	C_7 ketone	12:26	24 023	0.86×10^3	J
	C_{10} alkane	12:44	50 153	1.8×10^3	J
	unknown alkane	14:03	26 749	0.96×10^3	J
	C_{8-9} alkane	14:21	35 798	1.28×10^3	J
	unknown alkane	14:45	33 146	1.19×10^3	J
	unknown hydrocarbon	23:44	1 014 280	31.1×10^3	J
	unknown phthalate	27:15	217 771	4.12×10^3	J
	unknown hydrocarbon	32:33	227 188	7.83×10^3	J
	C_{10+} hydrocarbon	32:45	199 541	6.88×10^3	J
	unknown hydrocarbon	35:06	38 322	1.32×10^3	J
	unknown hydrocarbon	36:34	41 342	1.43×10^3	J
	unknown hydrocarbon	38:00	45 563	1.57×10^3	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2016

Lab Name: AROL

Contract: Vontrun

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 2C0011-6

Sample wt/vol: 9.4 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/13/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.75

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53469-21-9	Aroclor-1242	120	J
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	210	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/kg

Lab Sample No. 200011-7

IEPA IDENT. # 2017

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		938
2. Antimony		0.22 U
3. Arsenic		0.89 U
4. Barium		18 U
5. Beryllium		0.4U
6. Cadmium		0.36 U
7. Calcium		
8. Chromium	S,+	4.5
9. Cobalt		2.7 U
10. Copper		0.8 U
11. Iron		3662
12. Lead		2.9
13. Magnesium		
14. Manganese		143
15. Mercury		0.07 U
16. Nickel		1.8
17. Potassium		
18. Selenium		0.45 U
19. Silver		0.36 U
20. Sodium		
21. Thallium		0.20 U
22. Tin		
23. Vanadium		6.8
24. Zinc		13

Footnotes:

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

Comments:

Lab Manager: [signature]

2

Sample Number
200011-7
2017B

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-7
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/16/87
Date Analyzed: 05/16/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	260. J
74-83-9	Bromomethane	140. J	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	48. J	79-01-6	Trichloroethene	310. J
75-00-3	Chloroethane	150. J	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	4500. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	5800. B	71-43-2	Benzene	570. B
75-15-0	Carbon Disulfide	380. J	10061-01-5	cis-1,3-Dichloropropene	290. J
75-35-4	1,1-Dichloroethene	170. J	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	220. J	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	200. J	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	880. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	370. J
78-93-3	2-Butanone	1000. U	79-34-5	1,1,2,2-Tetrachloroethane	220. J
71-55-6	1,1,1-Trichloroethane	230. J	108-88-3	Toluene	2300. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	350. J
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	530. B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	600.
				Total Xylenes	2800. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2017B

Lab Name: AROL Inc

Contract: UAN Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-7

Sample wt/vol: 3.8 (g/mL) G

Lab File ID: 1172017B

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/16/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 5

Concentration Units: ug/kg (ug/L or ug/kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon Dioxide	1:10	26755	4010	J
	Unknown	1:24	37152	5570	J
	Unknown	4:26	5676	850	J
	Unknown	7:06	35895	5380	J
110-54-3	Hexane	19:50	88423	3800	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2017

Lab Name: ARDL

Contract: Vantuna

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-7

Sample wt/vol: 9.7 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/18/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.38

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	190	J
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	1200	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/Kg

Lab Sample No. 200011-8

IEPA IDENT. # 2018

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		13084
2. Antimony		0.25 U
3. Arsenic	S	10
4. Barium		181
5. Beryllium		0.50
6. Cadmium		3.6
7. Calcium		
8. Chromium	S	60
9. Cobalt		8.0
10. Copper		60
11. Iron		13084
12. Lead		402
13. Magnesium		
14. Manganese		704
15. Mercury		0.10 U
16. Nickel		8.0
17. Potassium		
18. Selenium		0.50 U
19. Silver		0.50
20. Sodium		
21. Thallium		0.20 U
22. Tin		
23. Vanadium		25
24. Zinc		252

Footnotes:

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

Comments:

Lab Manager: [illegible]

Sample Number
200011-8

2018

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-8
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/97

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/16/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 100.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	3500. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	4100. B	71-43-2	Benzene	270. BJ
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	630. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	9200.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	500. BU
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	200. BJ
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	470. BJ

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2018

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-8

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 1182018

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 4

Concentration Units: UG/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon Dioxide	1:08	47674	5940	J
	unknown	1:24	144742	18040	J
	Acetic Acid, Methyl Ester	10:34	27527	3430	J
79-20-9	C6 alkane	19:56	110928	3890	J

L atory Name: ARDL, INC.
Case No: VAN TRAN

Sample Number
200011-BR

2018

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/06/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	44000.
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	2000.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	78. J
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	460000
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1500. J
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	640. J
131-11-3	Dimethyl Phthalate	92. J
208-96-8	Acenaphthylene	81. J
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	63. J
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	86. J
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	120. J
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	100. J
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	2500.
206-44-0	Fluoranthene	120. J
129-00-0	Pyrene	49. J
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	150000
218-01-9	Chrysene	140. J
117-84-0	Di-n-Octyl Phthalate	12. J
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	160. J
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

Form I

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2018

Lab Name: ARDL, Inc. Contract: VANTRAN

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

Matrix: (soil/water) SOIL Lab Sample ID: 200011-8R

Sample wt/vol: 7.0 (g/mL) g Lab File ID: 1182018SVR

Level: (low/med) LOW Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/6/87

GPC Cleanup: No pH: _____ Dilution Factor: 1.0

Number TICs found: 18 Concentration Units: µg/kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown	10:11	31 808 500	525000	J
	C10 alkane	13:35	4 778 450	79000	J
	unknown	17:29	31 278 300	111200	J
	trichlorobenzene	18:10	25 248 600	897000	J
	unknown phthalate	19:57	3 109 980	110500	J
	tetrachlorobenzene	20:03	3 042 080	212100	J
	tetrachlorobenzene	20:08	3 611 330	252000	J
	tetrachlorobenzene	21:03	34 684 000	2400000	J
	pentachlorobenzene	23:12	15 268 000	1065000	J
	hexachlorobiphenyl	32:15	6 781 350	246000	J
	hexachlorobiphenyl	32:48	8 241 290	300000	J
	hexachlorobiphenyl	33:32	6 822 830	247000	J
	unknown phthalate	35:03	9 074 420	330000	J
	heptachlorobiphenyl	36:20	18 970 100	689000	J
	octachlorobiphenyl	36:45	8 796 260	320000	J
	octachlorobiphenyl	37:49	6 935 410	251000	J
	octachlorobiphenyl	38:36	11 085 400	402000	J
	nonachlorobiphenyl	40:16	4 347 090	68000	J

Laboratory Name: ARDL, INC.
Case No: VANTRAN

3 Sample Number
3 200011-BCL

2013DL

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 0.1
Percent Moisture: (Decanted) _____

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	3800.
106-46-7	1,4-Dichlorobenzene	240000
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	3000.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	740000
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	210. J
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	1600. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	5800.
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	140. J
84-74-2	Di-n-Butylphthalate	9300.
206-44-0	Fluoranthene	150. J
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	180000
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

Form I

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2018DL

Lab Name: ARDL, Inc.

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-8DL

Sample wt/vol: 7.0 (g/mL) G

Lab File ID: 11820185VD

Level: (low/med) Low

Date Received: 4/24/87

% Moisture: not dec. _____. dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/4/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.1

Number TICs found: 20

Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown hydrocarbon	9:57	5 726 980	2.56×10^6	J
	C9-10 alkane	13:39	361 456	0.16×10^6	J
	trichlorobenzene	18:03	4 598 640	0.89×10^6	J
	tetrachlorobenzene	20:00	457 347	0.20×10^6	J
	tetrachlorobenzene	20:53	6 531 860	2.91×10^6	J
608-93-5	pentachlorobenzene	23:05	1 503 060	0.67×10^6	J
	trichlorobiphenyl	27:05	415 893	0.11×10^6	J
	trichlorobiphenyl	27:42	689 076	0.18×10^6	J
	tetrachlorobiphenyl	28:32	587 096	0.15×10^6	J
	pentachlorobiphenyl	30:05	1 507 940	0.78×10^6	J
	pentachlorobiphenyl	30:34	1 314 710	0.68×10^6	J
	penta + hexachlorobiphenyl	31:26	1 231 650	0.63×10^6	J
	hexachlorobiphenyl	31:42	1 189 600	0.61×10^6	J
	hexachlorobiphenyl	31:58	3 167 300	1.63×10^6	J
	hexachlorobiphenyl	32:29	2 961 510	1.53×10^6	J
	hexachlorobiphenyl	33:09	2 345 160	1.21×10^6	J
	heptachlorobiphenyl	33:32	1 403 910	0.72×10^6	J
	heptachlorobiphenyl	34:11	1 564 990	0.81×10^6	J
	heptachlorobiphenyl	34:56	2 729 360	1.41×10^6	J
	heptachlorobiphenyl	35:54	1 315 430	0.67×10^6	J

Laboratory Name: ARDL, INC.
Case No: VANTRAN

000000000000000
3 Sample Number 3
3 200011-SCLA 3
000000000000000

2018DL

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 0.02
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	0. J
106-46-7	1,4-Dichlorobenzene	200000
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	740000
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	330. U
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	160000
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2018 DL

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200011-8DL

Sample wt/vol: 7.0 (g/mL) G Lab File ID: 1182018SVDR

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____ Dilution Factor: 0.02

Number TICs found: 20 Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Unknown	9:47	1258890	2.73×10^6	J
	Chlorinated Benzene	18:00	852554	0.90×10^6	J
	" "	20:51	1340910	2.81×10^6	J
	" "	23:05	327509	0.69×10^6	J
	PCB - 5 Chlorines	30:04	347795	0.54×10^6	J
	PCB - 5 Chlorines	30:33	346278	0.53×10^6	J
	PCB - 6 "	31:25	300085	0.46×10^6	J
	PCB - 6 "	31:41	317368	0.49×10^6	J
	PCB - 6 "	31:57	1026610	1.58×10^6	J
	PCB - 6 "	32:27	1024440	1.57×10^6	J
	PCB - 6 "	32:36	240014	0.37×10^6	J
	PCB - 6 "	32:45	239281	0.37×10^6	J
	PCB - 6 "	33:07	818564	1.26×10^6	J
	PCB - 7 "	33:31	512181	0.79×10^6	J
	PCB - 7 "	33:39	210651	0.32×10^6	J
	PCB - 7 "	34:10	421488	0.65×10^6	J
	PCB - 7 "	34:20	213348	0.33×10^6	J
	PCB - 7 "	35:54	347542	0.53×10^6	J
	PCB - 8 "	36:08	136614	0.21×10^6	J
	PCB 8 "	36:19	138280	0.21×10^6	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2018

Lab Name: ARDL Contract: Vantrom

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

Matrix: (soil/water) SOIL Lab Sample ID: 20001-8A

Sample wt/vol: 7.0 (g/mL) G Lab File ID: 11820185V

Level: (low/med) MED Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 5/14/87

GPC Cleanup: NO pH: _____ Dilution Factor: 0.0075

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	25000	U
11104-28-2	Aroclor-1221	25000	U
11141-16-5	Aroclor-1232	25000	U
53469-21-9	Aroclor-1242	190000	
12672-29-6	Aroclor-1248	25000	U
11097-69-1	Aroclor-1254	25000	U
11096-82-5	Aroclor-1260	-	X

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2018

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-8B

Sample wt/vol: 7.0 (g/mL) G

Lab File ID: 11820185V

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/14/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.0005

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1 300 000	U
11104-28-2	Aroclor-1221	1 300 000	U
11141-16-5	Aroclor-1232	1 300 000	U
53469-21-9	Aroclor-1242	1 300 000	U
12672-29-6	Aroclor-1248	1 300 000	U
11097-69-1	Aroclor-1254	1 300 000	U
11096-82-5	Aroclor-1260	2 000 000	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units mg/Kg

Lab Sample No. 200011-9

IEPA IDENT. # 2019

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		4964
2. Antimony		0.21 U
3. Arsenic	S	1.65 U
4. Barium		174
5. Beryllium		0.58
6. Cadmium		2.2
7. Calcium		
8. Chromium	S	83
9. Cobalt		12
10. Copper		35
11. Iron		16545
12. Lead		265
13. Magnesium		
14. Manganese		1240
15. Mercury		0.08 U
16. Nickel		6.6
17. Potassium		
18. Selenium		0.41 U
19. Silver		0.33
20. Sodium		
21. Thallium		0.17 U
22. Tin		
23. Vanadium		43
24. Zinc		165

Footnotes:

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

Comments:

Lab Manager: [illegible]

2000000000000000
J Sample Number J
J 200011-9R J
2000000000000000
2019

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-9R
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	2600.	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	4200.	71-43-2	Benzene	260. J
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	580.	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	1000. U	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	1900.
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	160. J
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	380. J

J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2019

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-9R

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 1102019R

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1

Number TICs found: 6

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
7440-37-1	argon	1:08	24008	5500	J
124-38-9	Carbon dioxide	1:24	41141	9420	J
57-13-6	urea	4:10	48311	11060	J
	unknown	6:58	41905	9600	J
79-20-9	Acetic Acid, Methyl Ester	10:26	22084	5060	J
110-54-3	hexane	19:56	73981	4790	J

Laboratory Name: ARDL, INC.
Case No: VANTRAN

Sample Number
200811-FR

2019

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/06/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

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

CAS Number		UG/KG	
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	6100.	
106-46-7	1,4-Dichlorobenzene	77000.	
100-51-6	Benzyl Alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	6400.	
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-Propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic Acid	1600.	U
111-91-1	bis(2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	300000	
91-20-3	Naphthalene	410.	
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-Methylphenol	330.	U
91-57-6	2-Methylnaphthalene	560.	
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
99-09-2	3-Nitroaniline	1600.	U

CAS Number		UG/KG	
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-10-6	4-Nitroaniline	1600.	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	9700.	
87-86-5	Pentachlorophenol	1600.	U
85-01-8	Phenanthrene	1500.	
120-12-7	Anthracene	330.	U
84-74-2	Di-n-Butylphthalate	14000.	
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	660.	U
56-55-3	Benzo(a)Anthracene	330.	U
117-81-7	bis(2-Ethylhexyl)Phthalate	27000.	
218-01-9	Chrysene	330.	U
117-84-0	Di-n-Octyl Phthalate	330.	U
205-99-2	Benzo(b)Fluoranthene	330.	U
207-08-9	Benzo(k)Fluoranthene	330.	U
50-32-8	Benzo(a)Pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330.	U
53-70-3	Dibenz(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)Perylene	330.	U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2019

Lab Name: ARDL, Inc.

Contract: Van Tran

Lab Code: _____ Case No.: _____

CAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-9R

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: 11920195VR

Level: (low/med) low

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/6/87

GPC Cleanup: NO pH: _____

Dilution Factor: 1.0

Number TICs found: 20

Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown hydrocarbon	10:15	26164200	793000	J
	C_{8-10} alkane	13:36	5012280	152000	J
	trichlorobenzene	18:07	16311300	365000	J
	tetrachlorobenzene	20:04	2843370	127300	J
	tetrachlorobenzene	20:57	22910200	1005500	J
603-93-5	pentachlorobenzene	23:09	10042700	450100	J
	unknown hydrocarbon	23:46	1345430	60200	J
	C_{10-19} alkane	25:04	1624170	72700	J
	pentachlorobiphenyl	30:08	3457310	155000	J
	pentachlorobiphenyl	30:38	2979490	134000	J
	pentachlorobiphenyl	31:29	5757970	258000	J
	hexachlorobiphenyl	32:04	4444590	198900	J
	hexachlorobiphenyl	32:37	5407650	242000	J
	hexachlorobiphenyl	33:10	10263400	302500	J
	heptachlorobiphenyl	33:39	4374330	129000	J
	heptachlorobiphenyl	34:19	6911950	204000	J
	heptachlorobiphenyl	35:07	13150700	387500	J
	heptachlorobiphenyl	36:03	9801090	289000	J
	heptachlorobiphenyl	36:29	5309160	156000	J
	octachlorobiphenyl	38:22	5886460	173500	J

Laboratory Name: ABDL, INC.
Case No: VANTRAN

Sample Number
200011-90L
2019DL

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/03/87
Conc/Dil Factor: 0.1
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	9300.
106-46-7	1,4-Dichlorobenzene	320000
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	6000.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	420000
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	7000.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	23000.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2019DL

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200311-9DL

Sample wt/vol: 6.0 (g/mL) G Lab File ID: 11920195VD

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/3/87

GPC Cleanup: NO pH: _____ Dilution Factor: 0.1

Number TICs found: 20 Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown hydrocarbon	9:52	2 710 090	2095000	J
	C9-10 alkane	13:31	188 429	145000	J
	trichlorobenzene	18:01	1 169 720	359000	J
	tetrachlorobenzene	20:52	2 044 130	1405000	J
608-93-5	pentachlorobenzene	23:05	462 160	317000	J
	pentachlorobiphenyl	30:04	302 299	422000	J
	pentachlorobiphenyl	30:33	404 824	565000	J
	hexachlorobiphenyl	31:24	202 611	283000	J
	pentachlorobiphenyl	31:26	174 178	243000	J
	hexachlorobiphenyl	31:41	321 628	450000	J
	hexachlorobiphenyl	31:47	182 895	255000	J
	hexachlorobiphenyl	31:57	822 310	1150000	J
	hexachlorobiphenyl	32:27	739 045	1032000	J
	hexachlorobiphenyl	32:36	201 135	281000	J
	hexachlorobiphenyl	32:45	181 503	253000	J
	hexachlorobiphenyl	33:03	606 751	847500	J
	heptachlorobiphenyl	33:31	336 563	470000	J
	heptachlorobiphenyl	34:10	269 915	377000	J
	heptachlorobiphenyl	34:54	459 054	641000	J
	heptachlorobiphenyl	35:53	147 467	206000	J

Laboratory Name: APDL, INC.
Case No: VANTRON

Sample Number
200011-90A
2019DL

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/05/87
Conc/Dil Factor: 0.033
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	9700.
106-46-7	1,4-Dichlorobenzene	290000
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	6900.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	400000
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	330. U
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	14000.
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	19000.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2019 DL

Lab Name: ARDL, Inc. Contract: VAN Tran

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

Matrix: (soil/water) SOIL Lab Sample ID: 200011-9DR

Sample wt/vol: 6.0 (g/mL) g Lab File ID: 11920198VDR

Level: (low/med) MED Date Received: 4/23/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/5/87

GPC Cleanup: NO pH: _____ Dilution Factor: 0.033

Number TICs found: 20 Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown hydrocarbon	4:53	1503420	1.51×10^6	J
	unknown hydrocarbon	12:46	23250	23×10^3	J
	C9-10 alkane	13:33	123319	0.12×10^6	J
	trichlorobenzene	18:01	951451	0.45×10^6	J
	tetrachlorobenzene	20:01	61006	54×10^3	J
	tetrachlorobenzene	20:52	1657210	1.46×10^6	J
608-93-5	pentachlorobenzene	23:04	337346	0.30×10^6	J
	pentachlorob.phenyl	30:04	301433	0.41×10^6	J
	pentachlorob.phenyl	30:33	317433	0.44×10^6	J
	hexachlorob.phenyl	31:24	226654	0.31×10^6	J
	hexachlorob.phenyl	31:41	266616	0.37×10^6	J
	hexachlorob.phenyl	31:57	769182	1.06×10^6	J
	hexachlorob.phenyl	32:26	712979	0.98×10^6	J
	hexachlorob.phenyl	33:07	497567	0.68×10^6	J
	heptachlorob.phenyl	33:30	297906	0.41×10^6	J
	heptachlorob.phenyl	33:38	90828	0.13×10^6	J
	heptachlorob.phenyl	34:09	203598	0.28×10^6	J
	heptachlorob.phenyl	34:20	84834	0.12×10^6	J
	heptachlorob.phenyl	34:53	459722	0.63×10^6	J
	heptachlorob.phenyl	35:53	116222	0.16×10^6	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2019

Lab Name: ARDL

Contract: Vantrem

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-9A

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: 11920195V

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/15/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.0038

Concentration Units: UG/KG
(ug/L or ug/Kg

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	58000	U
11104-28-2	Aroclor-1221	58000	U
11141-16-5	Aroclor-1232	58000	U
53469-21-9	Aroclor-1242	77000	
12672-29-6	Aroclor-1248	58000	U
11097-69-1	Aroclor-1254	58000	U
11096-82-5	Aroclor-1260	-	X

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2019

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-9B

Sample wt/vol: 6.0 (g/mL) G

Lab File ID: 11920195V

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/15/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.00015

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1500 000	U
11104-28-2	Aroclor-1221	1500 000	U
11141-16-5	Aroclor-1232	1500 000	U
53469-21-9	Aroclor-1242	1500 000	U
12672-29-6	Aroclor-1248	1500 000	U
11097-69-1	Aroclor-1254	1500 000	U
11096-82-5	Aroclor-1260	2400 000	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/Kg

Lab Sample No. 200011-10

IEPA IDENT. # 2020

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		12060
2. Antimony		0.23 U
3. Arsenic	S	7.0
4. Barium		148
5. Beryllium		0.46
6. Cadmium		3.2
7. Calcium		
8. Chromium	S	19
9. Cobalt		7.4
10. Copper		34
11. Iron		11132
12. Lead		102
13. Magnesium		
14. Manganese		835
15. Mercury		0.09 U
16. Nickel		8.3
17. Potassium		
18. Selenium		0.46 U
19. Silver		1.6
20. Sodium		
21. Thallium		0.19 U
22. Tin		
23. Vanadium		25
24. Zinc		232

Footnotes:

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

Comments:

Lab Manager: [signature]

ZDDDDDDDDDDDDDDD[
3 Sample Number 3
3 200011-10 3
@DDDDDDDDDDDDDDDY

2020

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-10
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/16/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	2700. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	4900. B	71-43-2	Benzene	310. BJ
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	760. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	12000.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	2400. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	270. BJ
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	300. U
				Total Xylenes	970. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2020

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-10

Sample wt/vol: 3.5 (g/mL) G

Lab File ID: 11102020

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 10

Concentration Units: µg/kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Carbon Dioxide	1:08	36151	5600	J
124-38-9	unknown	1:24	55695	8600	J
	unknown	6:42	74044	11000	J
	Acetic Acid, Methyl Ester	10:14	14688	2300	J
79-20-9	unknown	15:18	7677	1200	J
	C6 substituted cycloalkane	15:58	15633	600	J
	hexane	19:48	111650	4300	J
110-54-3	unknown hydrocarbon	32:26	40889	1900	J
	unknown hydrocarbon	34:12	19890	930	J
	dichlorobenzene	35:36	482925	23000	J

Laboratory Name: ARDL, INC.
Case No: VAN TRAN

Sample Number
300011-10

2020

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	4500.
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	2100.
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	1500.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	800.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM I-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2020

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200011-10

Sample wt/vol: 9.81 (g/mL) G Lab File ID: 1110202051

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc Date Analyzed: 6/4/87

GPC Cleanup: No pH: _____ Dilution Factor: 1.0

Number TICs found: 20 Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Halogenated alkane	9:39	1499530	53 000	J
	unknown	10:09	21002700	850 000	J
	C-9 alkane	10:13	1261810	45 000	J
	C-9 alkane	10:24	1136460	40 000	J
	unknown	10:35	1042830	37 000	J
	unknown	14:40	2008116	7 200	J
	Halogenated Benzene	18:00	266935	4 100	J
	" "	20:51	145591	5 000	J
	" "	23:05	165966	5 700	J
	unknown	23:44	805065	28 000	J
	PCB - 3 chlorines	27:45	868082	19 000	J
	PCB - 4 Chlorines	28:31	488908	10 000	J
	PCB - 4 Chlorines	28:39	363356	7 700	J
	PCB - 4 chlorines	29:03	481203	10 000	J
	PCB - 4 chlorines	30:04	846650	13 000	J
	PCB - 5 chlorines	30:33	860369	13 000	J
	PCB - 6 Chlorines	31:57	1099150	50 000	J
	PCB - 6 Chlorines	32:27	882801	42 000	J
	PCB - 6 Chlorines	33:08	783661	37 000	J
	PCB - 7 chlorines	34:53	672309	32 000	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2C20

Lab Name: ARDL Contract: _____

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

Matrix: (soil/water) SOIL Lab Sample ID: 200011-10

Sample wt/vol: 9.8 (g/mL) G Lab File ID: 1110202054

Level: (low/med) MED Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 5/15/87

GPC Cleanup: NO pH: _____ Dilution Factor: 0.0015

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	93 000	U
11104-28-2	Aroclor-1221	93 000	U
11141-16-5	Aroclor-1232	93 000	U
53469-21-9	Aroclor-1242	47 000	J
12672-29-6	Aroclor-1248	93 000	U
11097-69-1	Aroclor-1254	93 000	U
11096-82-5	Aroclor-1260	1600 000	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg / Kg.

Lab Sample No. 200011-11

IEPA IDENT. # 2021

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		9246
2. Antimony		0.23 U
3. Arsenic	S, +	20
4. Barium		139
5. Beryllium		0.83
6. Cadmium		1.7
7. Calcium		
8. Chromium	S	92
9. Cobalt		15
10. Copper		32
11. Iron		18491
12. Lead		3.7
13. Magnesium		
14. Manganese		1156
15. Mercury	R	0.18
16. Nickel		7.4
17. Potassium		
18. Selenium		0.46 U
19. Silver		1.8
20. Sodium		
21. Thallium		0.18 U
22. Tin		
23. Vanadium	S	39
24. Zinc		139

Footnotes:

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

Comments: Mercury digested and analyzed twice, answer from first digestion

Lab Manager: [signature]

Sample Number
200011-11

2021

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-11
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/16/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	2300. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	4200. B	71-43-2	Benzene	270. BJ
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	650. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	9300.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	2300. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	340. BJ
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	1900. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2021

Lab Name: ARDL, Inc

Contract: VAN Tra

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-11

Sample wt/vol: 4.1 (g/mL) G

Lab File ID: 11112021

Level: (low/med) MeD

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 10

Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon Dioxide	1:08	43145	5240	J
	Unknown	1:24	73978	9025	J
79-20-9	Acetic Acid Methyl Ester	10:20	22047	2680	J
	C-6 substituted Cyclobutane	16:02	16722	500	J
	C-6 alkane	19:52	128742	3900	J
	C-9 aromatic	27:16	61313	2200	J
	C-9 substituted cyclo-hexane	28:18	39311	1460	J
	C-8-10 alkane	32:24	343736	12560	J
	dichlorobenzene	34:14	191337	6950	J
	dichlorobenzene	35:36	7122280	256100	J

Laboratory Name: ARDL, INC.
Case No: VAN TRAN

Sample Number
220011-11

2021

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	1800.
106-46-7	1,4-Dichlorobenzene	43000.
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	1300.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	27000.
91-20-3	Naphthalene	49. J
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	3500.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	5700.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2021

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200011-11

Sample wt/vol: 7.8 (g/mL) G Lab File ID: 1111202SV

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Number TICs found: 22 Concentration Units: UG/KG (ug/L or ug/kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown	9:42	2339410	94 000	J
	unknown	10:16	35080200	1400 000	J
	C-9 alkane	10:27	2036480	82 000	J
	unknown	10:38	2101980	84 000	J
	Alkane hydrocarbon	13:33	2070820	83 000	J
	C-9 aromatic	14:13	290131	12 000	J
	Oxygenated C-7	14:21	245248	9 900	J
	C-9 alkane	14:58	136718	5 500	J
	tri Chlorinated Benzene	18:02	3082820	51 000	J
	tetra Chlorinated Benzene	20:00	224228	8 300	J
	tetra Chlorinated Benzene	20:52	2786350	103 000	J
608-93-5	penta chlorobenzene "	23:06	1205010	45 000	J
	unknown	23:45	8410679	33 000	J
	PCB - 5 Chlorines	30:05	2776110	65 000	J
	PCB - 5 Chlorines	30:34	2556840	60 000	J
	PCB - 6 Chlorines	31:59	3632480	150 000	J
	PCB - 6 Chlorines	32:28	3083820	130 000	J
	PCB - 6 Chlorines	33:09	3259330	140 000	J
	PCB - 7 Chlorines	33:32	1748300	74 000	J
	PCB - 7 Chlorines	34:55	2741470	120 000	J
	PCB - 8 Chlorines	35:54	1015450	43 000	J
	PCB - 8 Chlorines	36:20	492214	21 000	J

Laboratory Name: ASOL, INC.
Case No: VAN TRAN

Sample Number
200011-11DL

2021DL

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/97
Date Analyzed: 06/04/97
Conc/Dil Factor: 0.2
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	1100.
106-46-7	1,4-Dichlorobenzene	44000.
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	650.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	22000.
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	2400.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	4400.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM I-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2021DL

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200011-11DL

Sample wt/vol: 7.8 (g/mL) G Lab File ID: 11112021SVD

Level: (low/med) low Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____ Dilution Factor: 0.2

Number TICs found: 18 Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	C-6 to C-7 alkane	10:00	10990900	2 000 000	J
	tri Chlorinated Benzene	18:01	511104	44 000	J
	tetrachlorobenzene	20:51	484979	90 000	J
608-93-5	pentachlorobenzene	23:05	186082	35 000	J
1881-10-5	Pentane, 3-Bromo	23:43	200310	37 000	J
	PCB - 5 chlorines	30:04	269910	29 000	J
	PCB - 5 chlorines	30:32	287970	31 000	J
	PCB - 5 & 6 chlorines	31:25	207408	34 000	J
	PCB - 6 chlorines	31:40	224615	37 000	J
	PCB - 6 chlorines	31:57	644762	107 000	J
	PCB - 6 chlorines	32:27	629799	104 000	J
	PCB - 6 chlorines	33:07	553472	92 000	J
	PCB - 7 chlorines	33:30	319186	52 000	J
	PCB - 7 chlorines	34:10	245724	41 000	J
	PCB - 7 chlorines	34:53	526970	87 000	J
	PCB - 7 chlorines	35:53	169630	28 000	J
	PCB - 8 chlorines	36:08	50767	8 400	J
	PCB - 8 chlorines	36:19	63147	10 500	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2021

Lab Name: ARDL

Contract: Vantram

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-11A

Sample wt/vol: 7.8 (g/mL) G

Lab File ID: 1111 2021 SV

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/14/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.0075

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	23 000	U
11104-28-2	Aroclor-1221	23 000	U
11141-16-5	Aroclor-1232	23 000	U
53469-21-9	Aroclor-1242	34 000	
12672-29-6	Aroclor-1248	23 000	U
11097-69-1	Aroclor-1254	23 000	U
11096-82-5	Aroclor-1260	—	X

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2021

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-11B

Sample wt/vol: 7.6 (g/mL) G

Lab File ID: 111120215V

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/14/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.0019

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	90 000	U
11104-28-2	Aroclor-1221	90 000	U
11141-16-5	Aroclor-1232	90 000	U
53469-21-9	Aroclor-1242	90 000	U
12672-29-6	Aroclor-1248	90 000	U
11097-69-1	Aroclor-1254	90 000	U
11096-82-5	Aroclor-1260	300 000	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/kg

Lab Sample No. 200011-12

IEPA IDENT. # 7022

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		9857
2. Antimony		0.21 U
3. Arsenic	S, +	14
4. Barium		86
5. Beryllium		0.86
6. Cadmium		1.4
7. Calcium		
8. Chromium	S	51
9. Cobalt		15
10. Copper		25
11. Iron		15428
12. Lead		188
13. Magnesium		
14. Manganese		471
15. Mercury		0.08 U
16. Nickel		10
17. Potassium		
18. Selenium		0.43 U
19. Silver		1.1
20. Sodium		
21. Thallium		0.17 U
22. Tin		
23. Vanadium		33
24. Zinc		86

Footnotes:

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

Comments:

Lab Manager: [signature]

Sample Number
200011-12

2022

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-12
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/16/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted) 100.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloroproene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	3900. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	7100. B	71-43-2	Benzene	290. BJ
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	620. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	8200.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	2600. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	600.
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	440. BJ
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	4100. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2022

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 20011-12

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 11122022

Level: (low/med) Med

Date Received: 4/24/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 10

Concentration Units: µg/kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown	6:58	38477	5500	J
79-20-9	Acetic Acid, Methyl Ester	10:24	14127	2000	J
	C9 aromatic	27:14	363710	16000	J
	C9 substituted cycloalkane	28:18	178712	8000	J
	C9 substituted cycloalkane	28:58	176315	7900	J
	unknown hydrocarbon	29:58	216931	9600	J
	C9-10 alkene or cycloalkane	32:26	2030890	91000	J
	unknown hydrocarbon	33:04	410766	19000	J
	dichlorobenzene	34:14	1211260	54000	J
	dichlorobenzene	35:32	51742800	2,300,000	J

Laboratory Name: PROL, INC.
Case No: VANTRAN

Sample Number
230011-12

2022

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG	
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	5600.	
106-46-7	1,4-Dichlorobenzene	140000	
100-51-6	Benzyl Alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	7500.	
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-Propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	93.	J
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic Acid	1600.	U
111-91-1	bis(2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	170000	
91-20-3	Naphthalene	350.	
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-Methylphenol	330.	U
91-57-6	2-Methylnaphthalene	430.	
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethyl Phthalate	130.	J
208-96-8	Acenaphthylene	330.	U
99-09-2	3-Nitroaniline	1600.	U

CAS Number		UG/KG	
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	20.	J
121-14-2	2,4-Dinitrotoluene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	81.	J
100-10-6	4-Nitroaniline	540.	J
534-52-1	4,6-Dinitro-2-Methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine (1)	120.	J
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	2700.	
87-86-5	Pentachlorophenol	1600.	U
85-01-8	Phenanthrene	600.	
120-12-7	Anthracene	28.	J
84-74-2	Di-n-Butylphthalate	5800.	
206-44-0	Fluoranthene	100.	J
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	52.	J
91-94-1	3,3'-Dichlorobenzidine	660.	U
56-55-3	Benzo(a)Anthracene	120.	J
117-81-7	bis(2-Ethylhexyl)Phthalate	66000.	
218-01-9	Chrysene	330.	U
117-84-0	Di-n-Octyl Phthalate	330.	U
205-99-2	Benzo(b)Fluoranthene	190.	J
207-08-9	Benzo(k)Fluoranthene	110.	J
50-32-8	Benzo(a)Pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330.	U
53-70-3	Dibenz(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)Perylene	330.	U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2022

Lab Name: ARDL, Inc.

Contract: Van Tran

Lab Code: _____ Case No.: _____

CAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-12

Sample wt/vol: 6.4 (g/mL) G

Lab File ID: 11122022SV

Level: (low/med) low

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____

Dilution Factor: 1.0

Number TICs found: 20

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown hydrocarbon	10:14	34 839 600	810×10^3	J
	unknown hydrocarbon	12:07	860 074	20×10^3	J
	C10 alkane	12:19	733 508	17×10^3	J
	C9-10 alkane	12:47	2 553 480	59×10^3	J
	C10-11 alkane	13:36	6 970 750	160×10^3	J
	xylene	14:15	1 405 740	33×10^3	J
	trichlorobenzene	18:03	13 255 600	310×10^3	J
	tetrachlorobenzene	20:55	8 615 150	420×10^3	J
608-93-5	pentachlorobenzene	23:08	4 430 570	210×10^3	J
	C19 alkane	25:03	1 871 210	90×10^3	J
	pentachlorobiphenyl	30:09	3 189 950	130×10^3	J
	pentachlorobiphenyl	30:39	3 038 330	120×10^3	J
	hexachlorobiphenyl	31:29	4 142 050	170×10^3	J
	hexachlorobiphenyl	32:04	6 621 330	270×10^3	J
	hexachlorobiphenyl	32:35	3 898 520	160×10^3	J
	hexachlorobiphenyl	33:12	6 105 500	250×10^3	J
	heptachlorobiphenyl	33:33	2 887 380	120×10^3	J
	heptachlorobiphenyl	35:02	11 230 900	460×10^3	J
	heptachlorobiphenyl	36:01	6 518 140	270×10^3	J
	octachlorobiphenyl	38:18	3 112 100	130×10^3	J

Laboratory Name: ARDL, INC.
Case No: VAN TRAN

3 Sample Number 3
3 2C0011-1DDL 3

2022DL

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 0.1
Percent Moisture: (Decanted) _____

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	5000.
106-46-7	1,4-Dichlorobenzene	240000
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	4000.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	190000
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	3800.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	68000.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2022DL

Lab Name: ARDL Inc.

Contract: Van Tran

Lab Code: _____ Case No.: _____

CAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-12 DL

Sample wt/vol: 6.4 (g/mL) G

Lab File ID: 11122022SVD

Level: (low/med) low

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.1

Number TICs found: 20

Concentration Units: ug/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	Unknown	9:57	6287900	2.98×10^6	J
	Unknown	13:33	549507	0.26×10^6	J
	Chlorinated Benzene	18:02	1813840	0.40×10^6	J
	"	20:51	894802	0.42×10^6	J
	"	23:05	385560	0.11×10^6	J
	Unknown	24:59	223979	97×10^3	J
	PCB - 5 Chlorines	30:04	547355	0.24×10^6	J
	PCB - 5 chlorines	30:33	527506	0.23×10^6	J
	PCB - 5 chlorines	31:25	518930	0.23×10^6	J
	PCB - 6 chlorines	31:41	564233	0.24×10^6	J
	PCB - 6 chlorines	31:57	1720770	0.75×10^6	J
	PCB - 6 chlorines	32:27	1631130	0.71×10^6	J
	PCB - 6 chlorines	32:36	431603	0.19×10^6	J
	PCB - 6 chlorines	32:45	401553	0.18×10^6	J
	PCB - 6 chlorines	33:07	1209300	0.53×10^6	J
	PCB - 7 chlorines	33:30	946018	0.41×10^6	J
	PCB - 7 chlorines	33:39	403472	0.18×10^6	J
	PCB - 7 chlorines	34:10	751932	0.33×10^6	J
	PCB - 7 chlorines	34:54	1409500	0.61×10^6	J
	PCB - 7 chlorines	35:54	563401	0.25×10^6	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2022

Lab Name: ARDL

Contract: Vantram

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

Matrix: (soil/water) SOIL

Lab Sample ID: 2000011-12A

Sample wt/vol: 6.4 (g/mL) G

Lab File ID: 11122022SV

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/15/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.0075

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	28 000	U
11104-28-2	Aroclor-1221	28 000	U
11141-16-5	Aroclor-1232	28 000	U
53469-21-9	Aroclor-1242	210 000	
12672-29-6	Aroclor-1248	28 000	U
11097-69-1	Aroclor-1254	28 000	U
11096-82-5	Aroclor-1260	—	X

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2022

Lab Name: ARDL

Contract: Ventura

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-12B

Sample wt/vol: 6.4 (g/mL) G

Lab File ID: 11122022SV

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/15/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.00015

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1400 000	U
11104-28-2	Aroclor-1221	1400 000	U
11141-16-5	Aroclor-1232	1400 000	U
53469-21-9	Aroclor-1242	1400 000	U
12672-29-6	Aroclor-1248	1400 000	U
11097-69-1	Aroclor-1254	1400 000	U
11096-82-5	Aroclor-1260	2900 000	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/Kg

Lab Sample No. 200011-13

IEPA IDENT. # 2023

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		1423
2. Antimony		0.19 U
3. Arsenic	S	0.77 U
4. Barium		15 U
5. Beryllium		0.38
6. Cadmium		0.31 U
7. Calcium		
8. Chromium	S	4.6
9. Cobalt		3.1
10. Copper		0.7 U
11. Iron		1308
12. Lead		2.8
13. Magnesium		
14. Manganese		16
15. Mercury		0.08 U
16. Nickel		2.3
17. Potassium		
18. Selenium		0.38 U
19. Silver		0.31
20. Sodium		
21. Thallium		0.17 U
22. Tin		
23. Vanadium	S, +	1.8
24. Zinc		9.2

Footnotes:

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

Comments:

Lab Manager: [signature]

Sample Number
200011-13
2023

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-13
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/14/87
Date Analyzed: 05/15/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	4000. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	2900. B	71-43-2	Benzene	260. J
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	510. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	1000. U	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	1700. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	150. J
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	520. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2023

Contract: Van Tran

Lab Name: ARDL, Inc

SAS No.: _____ SDG No.: _____

Lab Code: _____ Case No.: _____

Lab Sample ID: 200011-13

Matrix: (soil/water) Soil

Lab File ID: 11132023

Sample wt/vol: 4.1 (g/mL) G

Date Received: 4/24/87

Level: (low/med) Med

Date Analyzed: 5/15/87

% Moisture: not dec. _____

Dilution Factor: 1

Column (pack/cap)

Concentration Units: ug/kg (ug/L or ug/Kg)

Number TICs found: 5

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
7440-37-1	argon	1:08	42351	7800	J
124-38-9	Carbon dioxide	1:22	60094	11060	J
	unknown	4:08	58743	10824	J
	Unknown	6:52	191470	35260	J
110-54-3	Hexane	19:50	80658	3640	J

Laboratory Name: ARDL, INC.
Case No: VANTRAN

Sample Number
202011-13

2023

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/97
Date Analyzed: 06/03/97
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG	
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	430.	
100-51-6	Benzyl Alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-Propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic Acid	1600.	U
111-91-1	bis(2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	4000.	
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-Methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
99-09-2	3-Nitroaniline	1600.	U

CAS Number		UG/KG	
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-10-6	4-Nitroaniline	1600.	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1600.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-Butylphthalate	1300.	
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	660.	U
56-55-3	Benzo(a)Anthracene	330.	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330.	U
218-01-9	Chrysene	330.	U
117-84-0	Di-n-Octyl Phthalate	330.	U
205-99-2	Benzo(b)Fluoranthene	330.	U
207-08-9	Benzo(k)Fluoranthene	330.	U
50-32-8	Benzo(a)Pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330.	U
53-70-3	Dibenz(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)Perylene	330.	U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2023

Lab Name: ARDL, Inc. Contract: VAN TRAN

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

Matrix: (soil/water) _____ Lab Sample ID: 200011-13

Sample wt/vol: 9.7 (g/mL) G Lab File ID: 11132023SV

Level: (low/med) LOW Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/3/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Number TICs found: 20 Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	C6 ketone	8:47	4 714370	27900	J
	C9-10 alkane	9:42	2 472330	14600	J
	C8-10 alkane	10:00	885157	52500	J
	unknown hydrocarbon	10:16	4 233210	251000	J
	C7 alcohol	10:22	5 126330	304000	J
	C9 alkane	10:27	1 950740	115500	J
	C9-10 alkane	10:39	1 831530	108500	J
	C6-7 ketone	12:42	759319	45000	J
	tetrachlorobenzene	20:53	2 490100	129000	J
608-93-5	pentachlorobenzene	23:06	399390	20500	J
	pentachlorob.phenyl	30:05	351658	15400	J
	pentachlorob.phenyl	30:34	471897	20700	J
	hexachlorob.phenyl	31:42	463609	20300	J
	hexachlorob.phenyl	31:57	1 222650	53600	J
	hexachlorob.phenyl	32:29	1 268980	55600	J
	hexachlorob.phenyl	33:09	1 103660	48400	J
	heptachlorobiphenyl	33:32	712043	31200	J
	heptachlorobiphenyl	34:12	500622	22000	J
	heptachlorobiphenyl	34:58	1 047740	46000	J
	heptachlorobiphenyl	35:55	404607	17700	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2023

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-13A

Sample wt/vol: 8.9 (g/mL) G

Lab File ID: 11132023SV

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/14/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.75

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	1200	
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	-	X

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2C23

Lab Name: ARDL

Contract: Vantkun

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 2CC011-138

Sample wt/vol: 8.5 (g/mL) G

Lab File ID: 11132023SV

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/14/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.0075

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	19000	U
11104-28-2	Aroclor-1221	19000	U
11141-16-5	Aroclor-1232	19000	U
53469-21-9	Aroclor-1242	19000	U
12672-29-6	Aroclor-1248	19000	U
11097-69-1	Aroclor-1254	19000	U
11096-82-5	Aroclor-1260	120000	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/Kg

Lab Sample No. 200011-14

IEPA IDENT. # 2024

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		1331
2. Antimony	S	0.34
3. Arsenic		0.86 U
4. Barium		17 U
5. Beryllium		0.43
6. Cadmium		0.34 U
7. Calcium		
8. Chromium	S	4.8
9. Cobalt		3.4
10. Copper		0.8 U
11. Iron		1975
12. Lead		2.0
13. Magnesium		
14. Manganese		15
15. Mercury		0.08 U
16. Nickel		2.6 U
17. Potassium		
18. Selenium	S	0.43 U
19. Silver		0.34 U
20. Sodium		
21. Thallium		0.17 U
22. Tin		
23. Vanadium	S	48
24. Zinc		12

Footnotes:

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

Comments:

Lab Manager: [signature]

ZDDDDDDDDDDDDDDD\
3 Sample Number 3
3 200011-14 3
@DDDDDDDDDDDDDDDY

2024

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200011-14
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200011
Date Sample Received: 04/24/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/15/87
Date Analyzed: 05/15/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	3600. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	2600. B	71-43-2	Benzene	230. J
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	460. BJ	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	1000. U	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	3100. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	93. J
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	270. J
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	2200. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2024

Contract: Van Tran

Lab Name: ARDL, Inc

SAS No.: _____ SDG No.: _____

Lab Code: _____ Case No.: _____

Lab Sample ID: 200011-14

Matrix: (soil/water) Soil

Lab File ID: 11142024

Sample wt/vol: 4.2 (g/mL) G

Date Received: 4/24/87

Level: (low/med) Med

Date Analyzed: 5/15/87

% Moisture: not dec. _____

Dilution Factor: 1.0

Column (pack/cap)

Concentration Units: UG/KG (ug/L or ug/kg)

Number TICs found: 9

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
7440-37-1	argon	1:08	41972	7000	J
124-38-9	Carbon dioxide	1:22	59286	9700	J
	unknown	4:10	73334	12050	J
	Nitrogen containing alkane	6:52	42815	7000	J
	Pentane, 3-methyl	19:50	91774	3630	J
96-14-0	C-9 alkene	27:14	391248	17630	J
	Cyclic C-9 hydrocarbon	28:16	132826	5980	J
	C-10 alkene	32:22	653649	29500	J
	Dichloro benzene	35:28	6786340	305800	J

Laboratory Name: APDL, INC.
Case No: VANTRAN

Sample Number
200011-14
2024

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/03/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	960.
106-46-7	1,4-Dichlorobenzene	14000.
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	890.
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	55000.
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	2200.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	4300.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2024

Contract: VANTRAN

Lab Name: ARDL, Inc.

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

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-14

Sample wt/vol: 10.9 (g/mL) G

Lab File ID: 1114 2024SV

Level: (low/med) LOW

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 6/3/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Number TICs found: 20

Concentration Units: µg/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown hydrocarbon	10:07	15 651 100	590 000	J
	trichlorobenzene	18:01	1 952 960	44 000	J
	tetrachlorobenzene	20:01	347 060	17 000	J
	tetrachlorobenzene	20:52	3 129 460	150 000	J
	pentachlorobenzene	23:05	640 369	31 000	J
608-93-5	pentachlorobiphenyl	30:05	782 249	21 000	J
	pentachlorobiphenyl	30:33	734 010	20 000	J
	pentachlorobiphenyl	31:26	633 706	26 000	J
	pentachlorobiphenyl	31:42	613 459	26 000	J
	hexachlorobiphenyl	31:58	2 019 990	84 000	J
	hexachlorobiphenyl	32:28	1 814 060	76 000	J
	hexachlorobiphenyl	32:37	559 327	23 000	J
	hexachlorobiphenyl	32:46	405 863	17 000	J
	hexachlorobiphenyl	33:08	1 371 940	57 000	J
	hexachlorobiphenyl	33:31	972 142	41 000	J
	heptachlorobiphenyl	33:40	384 667	16 000	J
	heptachlorobiphenyl	34:11	816 845	34 000	J
	heptachlorobiphenyl	34:21	387 397	16 000	J
	heptachlorobiphenyl	34:55	1 541 000	64 000	J
	heptachlorobiphenyl	35:54	650 283	27 000	J

Laboratory Name: ARDL, INC.
Case No: VANTRAN

Sample Number
200011-14DL

2024DL

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/04/87
Conc/Dil Factor: 0.2
Percent Moisture: (Decanted)

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

CAS Number		UG/KG	CAS Number		UG/KG
108-95-2	Phenol	330. U	83-32-9	Acenaphthene	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U	51-28-5	2,4-Dinitrophenol	1600. U
95-57-8	2-Chlorophenol	330. U	100-02-7	4-Nitrophenol	1600. U
541-73-1	1,3-Dichlorobenzene	940.	132-64-9	Dibenzofuran	330. U
106-46-7	1,4-Dichlorobenzene	15000.	121-14-2	2,4-Dinitrotoluene	330. U
100-51-6	Benzyl Alcohol	330. U	606-20-2	2,6-Dinitrotoluene	330. U
95-50-1	1,2-Dichlorobenzene	830.	84-66-2	Diethylphthalate	330. U
95-48-7	2-Methylphenol	330. U	7005-72-3	4-Chlorophenyl-phenylether	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U	86-73-7	Fluorene	330. U
106-44-5	4-Methylphenol	330. U	100-10-6	4-Nitroaniline	1600. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U	534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
67-72-1	Hexachloroethane	330. U	86-30-6	N-Nitrosodiphenylamine (1)	330. U
98-95-3	Nitrobenzene	330. U	101-55-3	4-Bromophenyl-phenylether	330. U
78-59-1	Isophorone	330. U	118-74-1	Hexachlorobenzene	330. U
88-75-5	2-Nitrophenol	330. U	87-86-5	Pentachlorophenol	1600. U
105-67-9	2,4-Dimethylphenol	330. U	85-01-8	Phenanthrene	330. U
65-85-0	Benzoic Acid	1600. U	120-12-7	Anthracene	330. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U	84-74-2	Di-n-Butylphthalate	1500.
120-83-2	2,4-Dichlorophenol	330. U	206-44-0	Fluoranthene	330. U
120-82-1	1,2,4-Trichlorobenzene	42000.	129-00-0	Pyrene	330. U
91-20-3	Naphthalene	330. U	85-68-7	Butylbenzylphthalate	330. U
106-47-8	4-Chloroaniline	330. U	91-94-1	3,3'-Dichlorobenzidine	660. U
87-68-3	Hexachlorobutadiene	330. U	56-55-3	Benzo(a)Anthracene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U	117-81-7	bis(2-Ethylhexyl)Phthalate	2900.
91-57-6	2-Methylnaphthalene	330. U	218-01-9	Chrysene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U	117-84-0	Di-n-Octyl Phthalate	330. U
88-06-2	2,4,6-Trichlorophenol	330. U	205-99-2	Benzo(b)Fluoranthene	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U	207-08-9	Benzo(k)Fluoranthene	330. U
91-58-7	2-Chloronaphthalene	330. U	50-32-8	Benzo(a)Pyrene	330. U
88-74-4	2-Nitroaniline	1600. U	193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
131-11-3	Dimethyl Phthalate	330. U	53-70-3	Dibenz(a,h)Anthracene	330. U
208-96-8	Acenaphthylene	330. U	191-24-2	Benzo(g,h,i)Perylene	330. U
99-09-2	3-Nitroaniline	1600. U			

(1) - Cannot be separated from diphenylamine

FORM I-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2024DL

Lab Name: ARDL, Inc.

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200011-14DL

Sample wt/vol: 10.9 (g/mL) G

Lab File ID: 11142024SVD

Level: (low/med) low

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/4/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.2

Number TICs found: 20

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown hydrocarbon	9:57	6 450 410	840 000	J
	C8-9 alkane	13:32	144 282	19 000	J
	trichlorobenzene	18:01	563 276	35 000	J
	tetrachlorobenzene	20:02	78 549	10 000	J
	tetrachlorobenzene	20:52	990 044	130 000	J
	pentachlorobenzene	23:04	164 824	21 000	J
608-93-5	unknown hydrocarbon	23:43	218 415	28 000	J
	pentachlorobiphenyl	30:04	200 752	14 000	J
	pentachlorobiphenyl	30:33	204 061	14 000	J
	hexachlorobiphenyl (tpenta)	31:25	143 649	17 000	J
	hexachlorobiphenyl	31:40	176 545	21 000	J
	hexachlorobiphenyl	31:56	574 434	67 000	J
	hexachlorobiphenyl	32:26	574 715	67 000	J
	hexachlorobiphenyl	32:35	132 661	16 000	J
	hexachlorobiphenyl	32:45	119 373	14 000	J
	hexachlorobiphenyl	33:07	433 628	51 000	J
	hexachlorobiphenyl	33:30	272 756	32 000	J
	heptachlorobiphenyl	34:09	209 931	25 000	J
	heptachlorobiphenyl	34:53	446 089	52 000	J
	heptachlorobiphenyl	35:53	132 479	15 000	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2024

Lab Name: ARDL

Contract: Vantren

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200011-14A

Sample wt/vol: 10.9 (g/mL) G

Lab File ID: 11142048V

Level: (low/med) MED

Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/14/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.0075

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	18000	U
11104-28-2	Aroclor-1221	18000	U
11141-16-5	Aroclor-1232	18000	U
53469-21-9	Aroclor-1242	16000	J
12672-29-6	Aroclor-1248	18000	U
11097-69-1	Aroclor-1254	18000	U
11096-82-5	Aroclor-1260	—	X

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2024

Lab Name: ARDL Contract: Vantrom

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

Matrix: (soil/water) SOIL Lab Sample ID: 200011-14B

Sample wt/vol: 10.9 (g/mL) G Lab File ID: 111420245V

Level: (low/med) MED Date Received: 4/24/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/6/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 5/14/87

GPC Cleanup: NO pH: _____ Dilution Factor: 0.0019

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	64000	U
11104-28-2	Aroclor-1221	64000	U
11141-16-5	Aroclor-1232	64000	U
53469-21-9	Aroclor-1242	64000	U
12672-29-6	Aroclor-1248	64000	U
11097-69-1	Aroclor-1254	64000	U
11096-82-5	Aroclor-1260	100000	

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/Kg

Lab Sample No. 200012-1

IEPA IDENT. # 2036A

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		7932
2. Antimony		0.25 U
3. Arsenic	S	12
4. Barium		40
5. Beryllium		0.59
6. Cadmium		0.40 U
7. Calcium		
8. Chromium	S	99
9. Cobalt		15
10. Copper		54
11. Iron		12890
12. Lead		94
13. Magnesium		
14. Manganese		446
15. Mercury		0.10
16. Nickel		7.9
17. Potassium		
18. Selenium		0.50 U
19. Silver		0.59
20. Sodium		
21. Thallium		0.19 U
22. Tin		
23. Vanadium	S, +	29
24. Zinc		248

Footnotes:

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

Comments:

Lab Manager: [signature]

ZDDDDDDDDDDDDDDD[
3 Sample Number 3
3 200012-1R 3
@DDDDDDDDDDDDDDDY
2036A

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-1R
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: VAN TRAN
QC Report No: _____
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) _____

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	2600.	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	14000.	71-43-2	Benzene	830.
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	2500.
67-66-3	Chloroform	700.	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	440000	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	840.	108-88-3	Toluene	880000
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	890. J
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	250000
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	26000.
				Total Xylenes	330000

U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2036A

Lab Name: AROL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-1R

Sample wt/vol: 3.8 (g/mL) G

Lab File ID: 1212036AR

Level: (low/med) Med

Date Received: 4/27/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 10

Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon dioxide	1:10	43290	9475	J
	Unknown	1:26	68606	14475	J
	Unknown	7:00	47946	10525	J
	C3-5 alcohol	10:06	21464	4735	J
79-20-9	acetic acid, methyl ester	10:26	60834	13420	J
	Unknown	18:18	240050	13290	J
	Unknown	19:52	94552	5260	J
	Unknown	23:30	101568	6580	J
	C-8 alkane	25:32	443099	28950	J
	C-9 alkane	29:12	587051	38160	J

ZDDDDDDDDDDDDDDDD
3 Sample Number 3
3 200012-1DL 3
@DDDDDDDDDDDDDDDY
2036ADL

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-1DL
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 0.1 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	4800. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	24000.B	71-43-2	Benzene	500. BU
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	500. BU	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	310000	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	4.5E6 B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	150000B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	5300003

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2017

Contract: Van Tran

Lab Name: ARDL, Inc.

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

Lab Sample ID: 200011-7R

Matrix: (soil/water) Soil

Lab File ID: 1172017SVR

Sample wt/vol: 9.7 (g/mL) G

Date Received: 4/24/87

Level: (low/med) low

Date Extracted: 5/6/87

% Moisture: not dec. _____ dec. _____

Date Analyzed: 6/3/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Dilution Factor: 1.0

GPC Cleanup: NO pH: _____

Concentration Units: UG/KG (ug/L or ug/Kg)

Number TICs found: 20

CAS Number	Compound Name	RT	Area	Est. Conc.	?
	C6 ketone	8:49	10 698800	629500	J
	unknown hydrocarbon	9:05	97760	5750	J
	C9 alkane	9:19	261735	15400	J
	C9 alkane	9:29	105593	6200	J
	C9-10 alkane	9:41	1197350	70400	J
	C9 alkane	10:15	865792	51000	J
	unknown alkane	10:19	410932	24200	J
	C9 alkane	10:26	946119	55700	J
	C9-10 alkane	10:37	793076	46700	J
	unknown hydrocarbon	11:44	51318	3020	J
	C6-7 ketone	12:42	961115	56600	J
	unknown hydrocarbon	14:52	25656	1510	J
	unknown	23:44	316615	18600	J
	unknown phthalate	27:15	78919	2400	J
	unknown hydrocarbon	31:43	34599	1400	J
	unknown hydrocarbon	32:34	30180	1200	J
	unknown hydrocarbon	32:45	39908	1600	J
	unknown hydrocarbon	35:57	27787	1100	J
	unknown hydrocarbon	35:07	46731	1850	J
	unknown hydrocarbon	36:34	83674	3300	J

Laboratory Name: ARSL, INC.
Case No: VANTRAN

Sample Number
200011-7A
2017

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/06/87
Date Analyzed: 06/03/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	330. U
91-20-3	Naphthalene	330. U
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	330. U
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	330. U
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	1500.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	330. U
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2036ADL

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-1DL

Sample wt/vol: 3.8 (g/mL) G

Lab File ID: 1212036AD

Level: (low/med) Med

Date Received: 4/28/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 0.1

Number TICs found: 12

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon Dioxide	1:10	27343	65830	J
	unknown	1:24	39988	96275	J
69-17-5	Ethanol	6:28	12411	29880	J
109-60-4	acetic acid, propyl ester	18:16	11733	8030	J
	unknown	19:56	11858	8120	J
	C-9 cyclo alkane	27:04	11953	9170	J
	unknown	28:20	17597	13500	J
	C-9 alkane	29:10	29190	22385	J
	unknown	32:38	49781	38180	J
	unknown	33:20	15702	12050	J
	unknown	34:14	31878	24450	J
	unknown	35:42	37313	28620	J

ZDDDDDDDDDDDDDDDD
3 Sample Number 3
3 200012-1DLR 3
@DDDDDDDDDDDDDDDD
2036ADL

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-1DLR
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 0.01 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloroproene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	19000.B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	140000B	71-43-2	Benzene	500. BU
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	500. BU	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	330000	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	6.1E6 B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	130000B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	510000B

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2036ADL

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) Soil Lab Sample ID: 200012-1DL

Sample wt/vol: 3.8 (g/mL) G Lab File ID: 1212036ADL

Level: (low/med) Med Date Received: 4/28/87

% Moisture: not dec. _____ Date Analyzed: 5/17/87

Column (pack/cap) Dilution Factor: 0.01

Number TICs found: 5 Concentration Units: UG/KG (ug/L or ug/kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon dioxide	1:10	37297	793100	J
	Unknown	1:24	49472	1052000	J
	Unknown	19:56	8042	510(x)	J
110-54-3	Hexane	29:42	22938	517600	J
	Unknown	33:38	194820	1382500	J
	Unknown				

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3 Sample Number 3
3 200012-1RRDL 3
@DDDDDDDDDDDDDDY

2036ADL

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-1RRDL
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 0.002 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	510000B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	530000B	71-43-2	Benzene	500. BU
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	500. BU	591-78-6	2-Hexanone	1000 U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	1.2E6	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	4.0E6 B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	1100000B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	4700000B

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2036ADL

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: ____ Case No.: ____

SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-1RRD

Sample wt/vol: 3.8 (g/mL) G

Lab File ID: 1212036ADRR

Level: (low/med) Med

Date Received: 4/28/87

% Moisture: not dec. ____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 0.002

Number TICs found: 5

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon dioxide	1:10	29986	3504270	J
	No lib >80 Match	1:26	37096	4335170	J
	Unknown	6:32	6688	781580	J
	Hydrocarbon	19:54	29021	933750	J
110-54-3	Unknown	29:42	64290	2518200	J

Laboratory Name: ARDL, INC.
Case No: VANTRAN

Sample Number
200012-1

2036A

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/11/87
Date Analyzed: 06/05/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	330. U
91-20-3	Naphthalene	390.
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	180. J
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	300. J
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	49. J
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	52. J
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	3500.
206-44-0	Fluoranthene	18. J
129-00-0	Pyrene	72. J
85-68-7	Butylbenzylphthalate	330. U
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	25000.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2036 A

Lab Name: ARDL, Inc. Contract: Van Tran

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

Matrix: (soil/water) SOIL Lab Sample ID: 20002-1

Sample wt/vol: 5.8 (g/mL) g Lab File ID: 12/2036 45V

Level: (low/med) MED Date Received: 4/28/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/11/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/5/87

GPC Cleanup: No pH: _____ Dilution Factor: 1.0

Number TICs found: 20 Concentration Units: µg/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	C_7 alcohol	9:57	25 479 000	1.38×10^6	J
	C_4 trichloro alcohol	13:05	199 593	11×10^3	J
	C_{9-10} alkane	13:27	385 962	21×10^3	J
	C_{8-10} alkyne	16:02	174 022	3.7×10^3	J
	C_{9-13} hydrocarbon	17:21	227 106	4.8×10^3	J
	trichlorobiphenyl	26:34	322 964	8.2×10^3	J
	trichlorobiphenyl	27:04	317 422	8.1×10^3	J
	trichlorobiphenyl	27:41	496 197	13×10^3	J
	trichlorobiphenyl	27:44	589 868	15×10^3	J
	trichlorobiphenyl (+tetra)	27:59	262 145	6.7×10^3	J
	tetrachlorobiphenyl	28:31	424 394	11×10^3	J
	tetrachlorobiphenyl	29:03	281 419	5.6×10^3	J
	trichlorobiphenyl (+tetra)	29:09	192 527	4.9×10^3	J
	tetrachlorobiphenyl	29:21	258 733	6.6×10^3	J
	tetrachlorobiphenyl	29:56	184 200	4.7×10^3	J
	tetrachlorobiphenyl (+penta)	30:03	400 365	30×10^3	J
	tetrachlorobiphenyl	30:28	172 980	13×10^3	J
	pentachlorobiphenyl (+hexa)	31:57	167 776	13×10^6	J
	unknown hydrocarbon	33:21	107 218	8.0×10^6	J
	unknown	33:56	90 490	6.8×10^6	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2036A

Lab Name: ARDL

Contract: Van Tho

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) soil

Lab Sample ID: 200012-1

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

Lab File ID: 12120036ASV

Level: (low/med) med

Date Received: 4/22/07

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/11/07

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/6/07

GPC Cleanup: No pH: _____

Dilution Factor: 0.75

Concentration Units: ug/Kg
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	230	U
11104-28-2	Aroclor-1221	230	U
11141-16-5	Aroclor-1232	230	U
53469-21-9	Aroclor-1242	180	J
12672-29-6	Aroclor-1248	230	U
11097-69-1	Aroclor-1254	230	U
11096-82-5	Aroclor-1260	60	J

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/Kg

Lab Sample No. 200012-2

IEPA IDENT. # 2038A

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		12668
2. Antimony		0.23 U
3. Arsenic	S	2.8
4. Barium		19
5. Beryllium		0.75
6. Cadmium		0.38 U
7. Calcium		
8. Chromium	S	68
9. Cobalt		5.6
10. Copper		0.8 U
11. Iron		6099
12. Lead	S	10
13. Magnesium		
14. Manganese		26
15. Mercury		0.09 U
16. Nickel		4.7
17. Potassium		
18. Selenium		0.47 U
19. Silver		0.56
20. Sodium		
21. Thallium		0.19 U
22. Tin		
23. Vanadium		17
24. Zinc		10

Footnotes:

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

Comments:

Lab Manager: [signature]

ZDDDDDDDDDDDDDDD[
3 Sample Number 3
3 200012-2R 3
@DDDDDDDDDDDDDDY

2C38A

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-2R
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	2600. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	15000.B	71-43-2	Benzene	260. BJ
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000.
67-66-3	Chloroform	540. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	250000	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	460000B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	56000.B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	430000B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2038A

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-2R

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: 1222038AR

Level: (low/med) Med

Date Received: 4/28/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 10

Concentration Units: ug/kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	C-8 alkane	25:32	300917	20475	J
	Cyclo C-9 alkane	27:08	232483	15820	J
	Cyclo C-9 alkane	28:24	348160	23690	J
	C-9 alkane	29:10	409046	27830	J
	Unknown	29:30	472542	32150	J
	Unknown	30:04	248135	16890	J
	C-10 alkane	32:38	2025820	137840	J
	C-10 alkane	33:20	460736	31350	J
	Unknown	34:14	1170700	79650	J
	Substituted Benzene	35:44	1333030	90700	J

2DDDDDDDDDDDDDDD7
3 Sample Number 3
3 200012-2DL 3
@DDDDDDDDDDDDDDDY
2038ADL

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-2DL
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 0.1 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	3500. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	27000.B	71-43-2	Benzene	500. BU
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	500. BU	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	220000	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	850000B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	38000.B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	230000B

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2038ADL

Lab Name: AROL Inc

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-2DL

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: 122038AD

Level: (low/med) Med

Date Received: 4/28/87

% Moisture: not dec. _____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 0.1

Number TICs found: 10

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon Dioxide	1:10	37117	68360	J
	unknown	1:24	58437	107620	J
110-54-3	hexane	19:54	13858	7000	J
	C9-12 cyclo alkane	27:04	23149	13800	J
	C9 substituted cyclohexane	28:22	30529	18195	J
	C8-9 alkane	29:10	33980	20250	J
	C10 alkene	32:36	148723	88630	J
	unknown hydrocarbon	33:16	38994	23240	J
	C9-12 alkane	34:14	97201	57930	J
	C9 substituted benzene	35:42	101536	60510	J

ZDDDDDDDDDDDDDDDD
3 Sample Number 3
3 200012-2DLR 3
@DDDDDDDDDDDDDDDY

2038ADL

ORGANICS ANALYSIS DATA SHEET
(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-2DLR
Sample Matrix: SOIL
Data Release Authorized By:

Case No: VAN TRAN
QC Report No:
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/17/87
Date Analyzed: 05/17/87
Conc/Dil Factor: 0.015 pH
Percent Moisture: (Not Decanted)

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	9100. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	94000.B	71-43-2	Benzene	500. BU
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	1000. U
67-66-3	Chloroform	500. BU	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	180000	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	510000B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	35000.B
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	220000B

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2038ABL

Lab Name: ARDL, Inc

Contract: Van Tran

Lab Code: ____ Case No.: ____

SAS No.: ____ SDG No.: ____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-2DLR

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: 1222038AOR

Level: (low/med) Med

Date Received: 4/28/87

% Moisture: not dec. ____

Date Analyzed: 5/17/87

Column (pack/cap)

Dilution Factor: 0.0149

Number TICs found: 4

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
124-38-9	Carbon dioxide	1:10	33453	402075	J
	Unknown	1:26	47630	572470	J
	Unknown	29:42	42271	175020	J
	Unknown	32:36	53307	220715	J

Laboratory Name: ARDL, INC.
Case No: VANTRAN

Sample Number
200012-2

2038A

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/11/87
Date Analyzed: 06/05/87
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG	
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl Alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-Propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic Acid	1200.	J
111-91-1	bis(2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	230.	J
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-Methylphenol	330.	U
91-57-6	2-Methylnaphthalene	78.	J
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
99-09-2	3-Nitroaniline	1600.	U

CAS Number		UG/KG	
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-10-6	4-Nitroaniline	1600.	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1600.	U
85-01-8	Phenanthrene	98.	J
120-12-7	Anthracene	330.	U
84-74-2	Di-n-Butylphthalate	3100.	
206-44-0	Fluoranthene	45.	J
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	170.	J
91-94-1	3,3'-Dichlorobenzidine	660.	U
56-55-3	Benzo(a)Anthracene	330.	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2900.	
218-01-9	Chrysene	330.	U
117-84-0	Di-n-Octyl Phthalate	330.	U
205-99-2	Benzo(b)Fluoranthene	330.	U
207-08-9	Benzo(k)Fluoranthene	330.	U
50-32-8	Benzo(a)Pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330.	U
53-70-3	Dibenz(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)Perylene	330.	U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2038A

Lab Name: ARDL, Inc. Contract: Van Tran

Lab Code: _____ Case No.: _____ CAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200012-2

Sample wt/vol: 6.5 (g/mL) g Lab File ID: 122203 8ASV

Level: (low/med) MED Date Received: 4/28/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/11/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/5/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Number TICs found: 20 Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	unknown	10:29	51 624 900	1.4×10^6	J
	unknown hydrocarbon	11:33	1 630 770	46×10^3	J
	unknown C5-6 hydrocarbon	12:31	830 884	23×10^3	J
	C4 trichloro alcohol	13:14	691 298	19×10^3	J
	C9-10 alkane	13:33	949 723	27×10^3	J
	C9 alkane	17:22	211 804	2.4×10^3	J
85-44-9	phthalic anhydride	19:44	274 483	5.5×10^3	J
	unknown hydrocarbon	23:44	1 411 840	29×10^3	J
	trichlorobiphenyl	25:29	243 771	3.0×10^3	J
	trichlorobiphenyl	26:34	306 856	3.8×10^3	J
	trichlorobiphenyl	27:04	154 744	1.9×10^3	J
	unknown phthalate	27:15	332 785	4.1×10^3	J
	trichlorobiphenyl	27:41	318 664	3.9×10^3	J
	trichlorobiphenyl	27:44	199 056	2.5×10^3	J
	trichlorobiphenyl	27:53	183 855	2.3×10^3	J
	unknown C12+ hydrocarbon	30:35	618 682	14×10^3	J
	unknown C16+ hydrocarbon	32:24	2 479 135	55×10^3	J
	unknown C10+ hydrocarbon	32:35	382 466	8.4×10^3	J
	unknown C12+ hydrocarbon	33:09	183 227	4.0×10^3	J
	unknown hydrocarbon	33:22	82 134	1.8×10^3	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2038A

Lab Name: ARDL Contract: Van Tran

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

Matrix: (soil/water) soil Lab Sample ID: 200012-2

Sample wt/vol: 6.5 (g/mL) g Lab File ID: 122203 8ASVD

Level: (low/med) med Date Received: 4/20/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/11/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc Date Analyzed: 6/6/87

GPC Cleanup: No pH: _____ Dilution Factor: 0.75

Concentration Units: ug/Kg (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	200	u
11104-28-2	Aroclor-1221	200	u
11141-16-5	Aroclor-1232	200	u
53469-21-9	Aroclor-1242	200	u
12672-29-6	Aroclor-1248	200	u
11097-69-1	Aroclor-1254	200	u
11096-82-5	Aroclor-1260	200	u

CHEMICAL ANALYSIS FORM
CONTRACT LABORATORY SERVICE

Units Mg/Kg

Lab Sample No. 200012-3

IEPA IDENT. # 2049A

Lab Measurements Constituent Description and Required Limit of Measure	Remarks-See Instructions	Value
1. Aluminum		6845
2. Antimony		0.24 U
3. Arsenic	S	4.7
4. Barium		20 U
5. Beryllium		0.88
6. Cadmium		0.39 U
7. Calcium		
8. Chromium	S	55
9. Cobalt		6.8
10. Copper		3.9
11. Iron		8312
12. Lead		8.4
13. Magnesium		
14. Manganese		22
15. Mercury		0.09 U
16. Nickel		8.8
17. Potassium		
18. Selenium		0.49 U
19. Silver		0.49
20. Sodium		
21. Thallium		0.19 U
22. Tin		
23. Vanadium	S	22
24. Zinc		25

Footnotes:

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

Comments:

Lab Manager: [signature]

2000000000000000
3 Sample Number 3
3 200012-3 3
@000000000000000Y

2C49A

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: ARDL, INC.
Lab Sample ID No: 200012-3
Sample Matrix: SOIL
Data Release Authorized By: _____

Case No: VAN TRAN
QC Report No: _____
Contract No: 200012
Date Sample Received: 04/28/87

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 05/15/87
Date Analyzed: 05/15/87
Conc/Dil Factor: 1. pH _____
Percent Moisture: (Not Decanted) _____

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1000. U	78-87-5	1,2-Dichloropropane	500. U
74-83-9	Bromomethane	1000. U	10061-02-6	Trans-1,3-Dichloropropene	500. U
75-01-4	Vinyl Chloride	1000. U	79-01-6	Trichloroethene	500. U
75-00-3	Chloroethane	1000. U	124-48-1	Dibromochloromethane	500. U
75-09-2	Methylene Chloride	3800. B	79-00-5	1,1,2-Trichloroethane	500. U
67-64-1	Acetone	8100. B	71-43-2	Benzene	240. J
75-15-0	Carbon Disulfide	500. U	10061-01-5	cis-1,3-Dichloropropene	500. U
75-35-4	1,1-Dichloroethene	500. U	110-75-8	2-Chloroethylvinylether	1000. U
75-35-3	1,1-Dichloroethane	500. U	75-25-2	Bromoform	500. U
156-60-5	Trans-1,2-Dichloroethene	500. U	108-10-1	4-Methyl-2-Pentanone	200. J
67-66-3	Chloroform	510. B	591-78-6	2-Hexanone	1000. U
107-06-2	1,2-Dichloroethane	500. U	127-18-4	Tetrachloroethene	500. U
78-93-3	2-Butanone	57000.	79-34-5	1,1,2,2-Tetrachloroethane	1000. U
71-55-6	1,1,1-Trichloroethane	500. U	108-88-3	Toluene	5600. B
56-23-5	Carbon Tetrachloride	500. U	108-90-7	Chlorobenzene	500. U
108-05-4	Vinyl Acetate	1000. U	100-41-4	Ethylbenzene	220. J
75-27-4	Bromodichloromethane	500. U	100-42-5	Styrene	500. U
				Total Xylenes	550. B

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

FORM 1-VOA/TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2049A

Contract: VAN TRAN

Lab Name: AROL, Inc

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-3

Sample wt/vol: 4.2 (g/mL) G

Lab File ID: 1232049A

Level: (low/med) Med

Date Received: 4/28/87

% Moisture: not dec. _____

Date Analyzed: 5/15/87

Column (pack/cap)

Dilution Factor: 1.0

Number TICs found: 8

Concentration Units: UG/KG (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
		1:08	52515	9040	J
124-38-9	Carbon Dioxide	1:22	81728	14070	J
	unknown	6:54	69200	11920	J
	unknown hydrocarbon	10:02	39007	6720	J
	C3-5 alcohol	14:44	25260	4350	J
	unknown hydrocarbon	16:44	16936	2920	J
	C5-6 alcohol	19:48	101940	4300	J
110-54-3	hexane	28:42	1638500	77560	J
	C8-13 alkane				

Laboratory Name: ARDL, INC.
Case No: VANTRAN

Sample Number
200012-3R

2049A

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 05/11/97
Date Analyzed: 06/05/97
Conc/Dil Factor: 1.
Percent Moisture: (Decanted)

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

CAS Number		UG/KG
108-95-2	Phenol	330. U
111-44-4	bis(2-Chloroethyl)Ether	330. U
95-57-8	2-Chlorophenol	330. U
541-73-1	1,3-Dichlorobenzene	330. U
106-46-7	1,4-Dichlorobenzene	330. U
100-51-6	Benzyl Alcohol	330. U
95-50-1	1,2-Dichlorobenzene	330. U
95-48-7	2-Methylphenol	330. U
39638-32-9	bis(2-Chloroisopropyl)Ether	330. U
106-44-5	4-Methylphenol	330. U
621-64-7	N-Nitroso-Di-n-Propylamine	330. U
67-72-1	Hexachloroethane	330. U
98-95-3	Nitrobenzene	330. U
78-59-1	Isophorone	330. U
88-75-5	2-Nitrophenol	330. U
105-67-9	2,4-Dimethylphenol	330. U
65-85-0	Benzoic Acid	1600. U
111-91-1	bis(2-Chloroethoxy)Methane	330. U
120-83-2	2,4-Dichlorophenol	330. U
120-82-1	1,2,4-Trichlorobenzene	330. U
91-20-3	Naphthalene	220. J
106-47-8	4-Chloroaniline	330. U
87-68-3	Hexachlorobutadiene	330. U
59-50-7	4-Chloro-3-Methylphenol	330. U
91-57-6	2-Methylnaphthalene	330. U
77-47-4	Hexachlorocyclopentadiene	330. U
88-06-2	2,4,6-Trichlorophenol	330. U
95-95-4	2,4,5-Trichlorophenol	1600. U
91-58-7	2-Chloronaphthalene	330. U
88-74-4	2-Nitroaniline	1600. U
131-11-3	Dimethyl Phthalate	330. U
208-96-8	Acenaphthylene	330. U
99-09-2	3-Nitroaniline	1600. U

CAS Number		UG/KG
83-32-9	Acenaphthene	330. U
51-28-5	2,4-Dinitrophenol	1600. U
100-02-7	4-Nitrophenol	1600. U
132-64-9	Dibenzofuran	330. U
121-14-2	2,4-Dinitrotoluene	330. U
606-20-2	2,6-Dinitrotoluene	330. U
84-66-2	Diethylphthalate	120. J
7005-72-3	4-Chlorophenyl-phenylether	330. U
86-73-7	Fluorene	330. U
100-10-6	4-Nitroaniline	1600. U
534-52-1	4,6-Dinitro-2-Methylphenol	1600. U
86-30-6	N-Nitrosodiphenylamine (1)	330. U
101-55-3	4-Bromophenyl-phenylether	330. U
118-74-1	Hexachlorobenzene	330. U
87-86-5	Pentachlorophenol	1600. U
85-01-8	Phenanthrene	11. J
120-12-7	Anthracene	330. U
84-74-2	Di-n-Butylphthalate	2200.
206-44-0	Fluoranthene	330. U
129-00-0	Pyrene	330. U
85-68-7	Butylbenzylphthalate	97. J
91-94-1	3,3'-Dichlorobenzidine	660. U
56-55-3	Benzo(a)Anthracene	330. U
117-81-7	bis(2-Ethylhexyl)Phthalate	1500.
218-01-9	Chrysene	330. U
117-84-0	Di-n-Octyl Phthalate	330. U
205-99-2	Benzo(b)Fluoranthene	330. U
207-08-9	Benzo(k)Fluoranthene	330. U
50-32-8	Benzo(a)Pyrene	330. U
193-39-5	Indeno(1,2,3-cd)Pyrene	330. U
53-70-3	Dibenz(a,h)Anthracene	330. U
191-24-2	Benzo(g,h,i)Perylene	330. U

(1) - Cannot be separated from diphenylamine

FORM 1-SV/TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA Sample No.: 2049A

Lab Name: ARDL, Inc. Contract: Van Tram

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

Matrix: (soil/water) SOIL Lab Sample ID: 200012-3R

Sample wt/vol: 8.2 (g/mL) g Lab File ID: 1232049ASVR

Level: (low/med) MED Date Received: 4/28/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 5/11/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 6/5/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Number TICs found: 20 Concentration Units: ug/Kg (ug/L or ug/Kg)

CAS Number	Compound Name	RT	Area	Est. Conc.	Q
	C4-5 hydrocarbon	9:06	352 307	14×10^3	J
	C9 alkane	9:23	230 537	9.0×10^3	J
	C7 alcohol	9:57	23 716 200	930×10^3	J
	C9 alkane	10:11	378 172	15×10^3	J
	C10 alkane	10:23	386 226	15×10^3	J
	unknown hydrocarbon	11:19	435 313	17×10^3	J
	C10 alkane	12:36	199 268	7.8×10^3	J
	unknown hydrocarbon	13:05	247 183	9.7×10^3	J
	C10 alkane	13:27	684 633	27×10^3	J
	C10 alkane	13:56	101 308	4.0×10^3	J
	C10+ hydrocarbon	17:20	160 950	2.6×10^3	J
	unknown phthalate	27:15	135 278	4.1×10^3	J
	C10+ hydrocarbon	31:42	113 984	3.6×10^3	J
	C11+ hydrocarbon	32:23	201 206	6.3×10^3	J
	unknown hydrocarbon	32:34	158 332	4.9×10^3	J
	unknown hydrocarbon	32:46	103 764	3.2×10^3	J
	unknown hydrocarbon	33:22	58 296	1.8×10^3	J
	unknown hydrocarbon	33:51	76 909	2.4×10^3	J
	unknown hydrocarbon	35:06	110 679	3.4×10^3	J
	unknown hydrocarbon	36:33	216891	6.8×10^3	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 2049A

Lab Name: ARDL

Contract: Van Tran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) soil

Lab Sample ID: 200012-3A

Sample wt/vol: 2.2 (g/mL) g

Lab File ID: _____

Level: (low/med) med

Date Received: 4/28/07

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/11/07

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 6/6/07

GPC Cleanup: No pH: _____

Dilution Factor: 0.75

Concentration Units: ug/Kg
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	—	X
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	1860	

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: 20494

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200012-3B

Sample wt/vol: 8.2 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 4/28/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/11/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 6/6/87

GPC Cleanup: NO pH: _____

Dilution Factor: 0.15

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1100	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	1100	U
53469-21-9	Aroclor-1242	2700	
12672-29-6	Aroclor-1248	1100	U
11097-69-1	Aroclor-1254	1100	U
11096-82-5	Aroclor-1260	600	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt 1

Lab Name: ARDL

Contract: Vantram

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200014-1

Sample wt/vol: 1.4 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 5/15/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 5/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 5/17/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1900	u
11104-28-2	Aroclor-1221	1900	u
11141-16-5	Aroclor-1232	1900	u
53469-21-9	Aroclor-1242	1900	u
12672-29-6	Aroclor-1248	1900	u
11097-69-1	Aroclor-1254	1900	u
11096-82-5	Aroclor-1260	1900	u

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt 2

Lab Name: ARDL Contract: Vantran

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

Matrix: (soil/water) SOIL Lab Sample ID: 200014-2

Sample wt/vol: 1.8 (g/mL) G Lab File ID: _____

Level: (low/med) MED Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 05/18/87

GPC Cleanup: No pH: _____ Dilution Factor: 1.0

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1000	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	1000	U
53469-21-9	Aroclor-1242	1000	U
12672-29-6	Aroclor-1248	1000	U
11097-69-1	Aroclor-1254	1000	U
11096-82-5	Aroclor-1260	290	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 3

Lab Name: ARDL Contract: Vantem

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

Matrix: (soil/water) SOIL Lab Sample ID: 3000143

Sample wt/vol: 1.6 (g/mL) G Lab File ID: _____

Level: (low/med) MED Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 05/18/87

GPC Cleanup: No pH: _____ Dilution Factor: 1.0

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1500	U
11104-28-2	Aroclor-1221	1500	U
11141-16-5	Aroclor-1232	1500	U
53469-21-9	Aroclor-1242	1500	U
12672-29-6	Aroclor-1248	1500	U
11097-69-1	Aroclor-1254	1500	U
11096-82-5	Aroclor-1260	3600	

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt 4

Lab Name: ARDL

Contract: Vantuna

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 2C0014-4

Sample wt/vol: 1.1 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 05/17/87

GPC Cleanup: No pH: _____

Dilution Factor: 0.10

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	9100	U
11104-28-2	Aroclor-1221	9100	U
11141-16-5	Aroclor-1232	9100	U
53469-21-9	Aroclor-1242	270000	
12672-29-6	Aroclor-1248	9100	U
11097-69-1	Aroclor-1254	9100	U
11096-82-5	Aroclor-1260	450000	

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt 5

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 200014-5

Sample wt/vol: 2.5 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 05/18/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1100	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	1100	U
53469-21-9	Aroclor-1242	1100	U
12672-29-6	Aroclor-1248	1100	U
11097-69-1	Aroclor-1254	1100	U
11096-82-5	Aroclor-1260	5400	

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 6

Lab Name: ARDL Contract: Vantran

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

Matrix: (soil/water) SOIL Lab Sample ID: 200014-6

Sample wt/vol: 1.7 (g/mL) G Lab File ID: _____

Level: (low/med) MED Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 05/16/87

GPC Cleanup: NO pH: _____ Dilution Factor: 1.0

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1200	U
11104-28-2	Aroclor-1221	1200	U
11141-16-5	Aroclor-1232	1200	U
53469-21-9	Aroclor-1242	1200	U
12672-29-6	Aroclor-1248	1200	U
11097-69-1	Aroclor-1254	1200	U
11096-82-5	Aroclor-1260	4200	

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 7

Lab Name: ARDL

Contract: Vantran

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

Matrix: (soil/water) Soil

Lab Sample ID: 200014-7

Sample wt/vol: 1.6 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 05/17/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1300	U
11104-28-2	Aroclor-1221	1300	U
11141-16-5	Aroclor-1232	1300	U
53469-21-9	Aroclor-1242	1300	U
12672-29-6	Aroclor-1248	1300	U
11097-69-1	Aroclor-1254	1300	U
11096-82-5	Aroclor-1260	230	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 8

Lab Name: ARDL Contract: Vantran

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

Matrix: (soil/water) SOIL Lab Sample ID: 200014-8

Sample wt/vol: 2.3 (g/mL) G Lab File ID: _____

Level: (low/med) MED Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 05/17/87

GPC Cleanup: No pH: _____ Dilution Factor: 1.0

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1300	u
11104-28-2	Aroclor-1221	1300	u
11141-16-5	Aroclor-1232	1300	u
53469-21-9	Aroclor-1242	1300	u
12672-29-6	Aroclor-1248	1300	u
11097-69-1	Aroclor-1254	1300	u
11096-82-5	Aroclor-1260	1300	u

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 9

Lab Name: ARDL Contract: Vantkin

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

Matrix: (soil/water) SOIL Lab Sample ID: a00014-9

Sample wt/vol: 1.4 (g/mL) G Lab File ID: _____

Level: (low/med) MED Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC Date Analyzed: 05/18/87

GPC Cleanup: No pH: _____ Dilution Factor: 1.0

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1300	U
11104-28-2	Aroclor-1221	1300	U
11141-16-5	Aroclor-1232	1300	U
53469-21-9	Aroclor-1242	1300	U
12672-29-6	Aroclor-1248	1300	U
11097-69-1	Aroclor-1254	1300	U
11096-82-5	Aroclor-1260	1300	U

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 10

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil

Lab Sample ID: 200014-10

Sample wt/vol: 1.1 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 05/18/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Concentration Units: UG/KG (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1900	U
11104-28-2	Aroclor-1221	1900	U
11141-16-5	Aroclor-1232	1900	U
53469-21-9	Aroclor-1242	1900	U
12672-29-6	Aroclor-1248	1900	U
11097-69-1	Aroclor-1254	1900	U
11096-82-5	Aroclor-1260	540	J

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 11

Lab Name: ARDL

Contract: Vantan

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

Matrix: (soil/water) SOIL

Lab Sample ID: 200014-11

Sample wt/vol: 1.3 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) SONC

Date Analyzed: 05/17/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Concentration Units: UG/KG
(ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1500	U
11104-28-2	Aroclor-1221	1500	U
11141-16-5	Aroclor-1232	1500	U
53469-21-9	Aroclor-1242	11000	
12672-29-6	Aroclor-1248	1500	U
11097-69-1	Aroclor-1254	1500	U
11096-82-5	Aroclor-1260	1500	U

PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

EPA Sample No.: Sample pt. 12

Lab Name: ARDL

Contract: Vantran

Lab Code: _____ Case No.: _____

SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: 2C0014-12

Sample wt/vol: 1.3 (g/mL) G

Lab File ID: _____

Level: (low/med) MED

Date Received: 05/15/87

% Moisture: not dec. _____ dec. _____

Date Extracted: 05/15/87

Extraction: (SepF/Cont/Sonc/Sox) Sonc

Date Analyzed: 05/17/87

GPC Cleanup: No pH: _____

Dilution Factor: 1.0

Concentration Units: ug/kg (ug/L or ug/Kg)

Cas Number	Compound		Q
319-84-6	alpha-BHC		
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene		
12674-11-2	Aroclor-1016	1400	U
11104-28-2	Aroclor-1221	1400	U
11141-16-5	Aroclor-1232	1400	U
53469-21-9	Aroclor-1242	1400	U
12672-29-6	Aroclor-1248	1400	U
11097-69-1	Aroclor-1254	1400	U
11096-82-5	Aroclor-1260	1400	U

TABLE A-2
VANTRAN ELECTRIC CORPORATION, VANDALIA, ILLINOIS
RESULTS OF SOIL SAMPLING IN SMALL SURFACE IMPOUNDMENT - OCTOBER 15-17, 1985

(All analytical results expressed in parts per million~ppm)

DEPTH INTERVAL	BORING LOCATION A - EAST			BORING LOCATION B - WEST		
	PCBs*	VOLATILE ORGANICS**	METALS***	PCBs*	VOLATILE ORGANICS**	METALS***
0 to 1 foot	2300 (1254) 440 (1260)	BDL	170 (lead) 20 (zinc)	330 (1248)	BDL	190 (lead) 380 (zinc)
1 foot to 2 feet	1100 (1248)	BDL	110 (lead) 25 (zinc) 2.2 (cadmium)	72 (1242)	550 (xylene)	14 (lead) 150 (zinc)
2 feet to 3 feet	46 (1016)	BDL -	14 (lead) 6 (zinc)	21 (1016)	30 (toluene) 190 (xylene) 1500 (MEK)	8.4 (lead) 25 (zinc)
3 feet to 4 feet	15 (1242)	BDL	13 (lead) 32 (zinc)	15 (1016)	180 (toluene) 1600 (xylene)	12 (lead) 19 (zinc)
4 feet to 5 feet	8.1 (1248) 4.0 (1254)	BDL	10 (lead) 21 (zinc)	10 (1016)	160 (toluene)	25 (lead) 15 (zinc)
5 feet to 6 feet	BDL	BDL	11 (lead) 23 (zinc0	16 (1232)	5 (benzene) 340 (toluene) 8800 (xylene)	7.6 (lead) 15 (zinc)
6 feet to 7 feet	3.4 (1260)	BDL	10 (lead) 21 (zinc)	BDL	BDL	11 (lead) 23 (zinc)
7 feet to 8 feet	BDL****	BDL	5.4 (lead) 23 (zinc)	3.8 (1242)	BDL	7.4 (lead) 20 (zinc)

* Samples were analyzed for PCBs utilizing gas chromatograph/electron capture techniques; limit of detection - 2 ppm. Number in parentheses represents PCB formulation.

** Samples were analyzed for benzene, toluene, xylene and methyl ethyl ketones utilizing gas chromatograph/mass spectrophotometric techniques; limits of detection: benzene - 1 ppm; toluene - 10 ppm; xylene - 30 ppm and methyl ethyl ketone - 100 ppm.

*** Samples were analyzed for lead, zinc and cadmium utilizing atomic absorption flame photometric techniques: limits of detection - 1 ppm.

**** BDL - Below detection limits.

Baker Engineers

June 10, 1986

Mr. Gregory H. Wolk
Tockman and Wolk
411 North Seventh Street, Suite 1415
Saint Louis, Missouri 63101

SUBJECT: VANTRAN ELECTRIC CORPORATION V. IEPA

Reference: Letter, Mark A. LaRose to Gregory H. Wolk, same subject, dated May 30, 1986

Dear Greg:

Per our recent discussions, enclosed are copies of documents pertaining to our initial preliminary site assessment at VanTran's Vandalia, Illinois facility. References for the enclosed items correspond to those used in the referenced letter. The following describes the enclosed items:

RE.: ITEMS 1a AND b, WELL LOGS AND CONSTRUCTION DETAILS

Attachment I provides a copy of well logs and construction details for the four observation wells installed at the subject facility.

RE.: ITEMS 1c, SURVEY DATA

Based on the scope of the initial preliminary site assessment, the locations of the four observation wells were not plotted on a survey plat of the VanTran property, nor were elevations of the well casings determined.

RE.: ITEMS 1d THROUGH f, SOIL SAMPLING DURING WELL DRILLING AND INSTALLATION

During drilling for installation of the observation wells, soil samples were obtained at 5-foot intervals for the purpose of visually examining and classifying soils. Samples were not analyzed for physical parameters nor were any other analyses performed on these samples.

RECEIVED
JUN 23 1986
IEPA-DLPC

Baker/TSA Division
8315 Virginia Street
Merrillville, Indiana 46410
(219) 736-0263

RE.: ITEM 1g, WELL DEVELOPMENT AND GROUNDWATER SAMPLING METHODOLOGY

The four observation wells were developed by alternatively surging and air lift pumping with compressed air injected through tubing lowered to a point just above the bottom of the well casing. Attachment II is a copy of the contract for well installation and soil boring activities performed during the initial preliminary site assessment. The contract specifies the well installation and development procedures that were used at the subject facility.

Attachment III is a copy of Baker's groundwater sampling procedures that were used during the preliminary investigation.

RE.: ITEM 1h, RESULTS OF GROUNDWATER ANALYSES

Attachment IV is a copy of Professional Service Industries, Inc.'s report covering all analyses of groundwater and soils samples that were obtained during the initial preliminary assessment.

RE.: ITEM 1i, RATIONALE FOR CHOOSING PARAMETERS AND DETECTION LIMITS

The analytical parameters and detection limits for groundwater and soil samples were chosen based on information available from background documents provided by your office. Parameters were chosen based on those parameters detected by IEPA in the surface soils at the facility. Detection limits were chosen based on the initial screening nature of the assessment and cost effectiveness.

RE.: ITEM 1j, GROUNDWATER FLOW DETERMINATIONS

The scope of the preliminary assessment did not include performing a piezometric survey to determine the direction and velocity of groundwater flow at the site. Groundwater level was measured with respect to the well bottoms for the purpose of calculating well volumes for purging prior to the single sampling event.

RE.: ITEM 2a, LOCATIONS OF SOIL BORINGS

Locations for the thirteen soil borings were chosen based on proximity to buildings and materials storage areas and stormwater drainage courses at the site. The locations were not precisely plotted on a survey plat of the property considering the limited scope of the preliminary assessment.

June 10, 1986

RE.: ITEM 2b, SAMPLING METHODOLOGY

Soil samples were obtained by drilling using a truck mounted drill rig. Drilling was accomplished using hollow stem augers. Sampling was performed by advancing a standard 1-3/8 inch inside diameter split spoon sampler through the auger stem. Attachment II describes the sampling methodology.

RE.: ITEM 2c, DECONTAMINATION MATERIALS AND METHODS USED

Drilling and sampling equipment was cleaned and decontaminated prior to the start of soil boring activities, after sampling at each boring location and at the end of soil boring activities prior to leaving the site.

Decontamination was accomplished by scrubbing sampling equipment using a bristle brush. Equipment was then rinsed by spraying with distilled water and hexane.

RE.: ITEM 2d THROUGH f, DEPTH AND INTERVALS OF SOIL BORINGS AND SAMPLES

All soil sampling was continuous. Each one-foot depth interval at each boring location was retained and analyzed as a discrete sample. Attachment IV provides the depths of discrete samples at each sampling location and all results of analyses. Attachment II describes sampling methodology.

RE.: ITEM 2g, RATIONALE FOR PARAMETERS AND DETECTION LIMITS

See Item 1c, above.

RE.: ITEM 3, LABORATORY INFORMATION

Attachment V provides the QA/QC Manual for PSI's Shillstone Laboratories, the contract laboratory that performed the groundwater and soils analyses.

Baker Engineers

June 10, 1986

We trust that this information meets your current needs. If there are any questions or we can be of further service, please contact me at 219/736-0263.

Very truly yours,

BAKER/TSA, INC.

Ernest W. Brix, Jr.

Ernest W. Brix, Jr.
ENGINEERING MANAGER

EWB/rl

Attachments

ATTACHMENT I

WELL LOGS AND CONSTRUCTION DETAILS

Baker Engineers

May 12, 1986

VanTran Electric Corporation
1505 VanTran Avenue
Vandalia, IL 62471

Gentlemen:

Per Greg Wolk's oral request on May 9, 1986, attached is a summary of observation well installation and construction details for the four wells installed at your facility on October 15, 1985.

If there are any questions concerning the attached information, please call me at 219/736-0263.

Very truly yours,

BAKER ENGINEERING, INC.

Ernest W. Brix, Jr.

Ernest W. Brix, Jr.
ENGINEERING MANAGER

EWB/rl

Attachment

cc: Greg Wolk
Steve Parke

Baker Engineering, Inc. One East Wacker Drive Chicago, Illinois 60601 (312) 527-0390

SUMMARY OF WELL INSTALLATION
VANTRAN ELECTRIC, VANDALIA, ILLINOIS

On October 15, 1985, Baker's subcontractor, Professional Service Industries, Inc. (PSI), drilled and installed four groundwater observation wells at VanTran Electric Corporation in Vandalia, Illinois adhering to the Baker specified drilling and well installation procedures described below. The weather was sunny and clear, 70°F. Four wells were installed and identified as MW-1, MW-2, MW-3 and MW-4.

MW-1

The first observation well was placed on the west property line approximately equi-distance from the north and south property lines. A truck-mounted drilling rig using a 3¼" I.D. hollow stem auger was used to drill the boring to the desired depth of 25.0 feet. Water was encountered at 15.25 feet. Soil samples were taken at 5 foot intervals using a split spoon sampler. Samples were placed in new clean glass jars.

A well was installed prior to removal of the auger, consisting of a ten foot long manufactured, schedule 40, PVC well screen having manufactured .010 inch slots, at the bottom of the boring, and two (2) ten foot lengths of two-inch diameter, schedule 40, PVC flush joint and threaded solid casing. A 2.5 foot length was removed at the top of the well to accommodate the steel casing.

The ten-foot section of .010" slotted PVC screen was backfilled with washed silica sand. A bentonite seal was placed directly above the

silica sand and the remainder of the annular space was filled with a thick slurry of powdered bentonite and water as the auger was removed. A four inch diameter steel casing with a locking lid was grouted into place over the 2 inch PVC well pipe and a concrete pad was installed at the surface sloping away from the steel casing.

The well was then developed and cleaned by alternately surging and air lift pumping with compressed air injected through tubing lowered to a depth of 25.0 feet.

All PVC casing and screening was steam cleaned prior to installation and augers were cleaned between installations.

MW-2

The second observation well was placed on the north property line approximately equi-distance between the east and west property lines. A truck-mounted drill rig using a hollow stem 3¼" I.D. auger was used to drill the boring to a desired depth of 30.0 feet. Water was encountered at 19.50 feet. Soils samples were taken at 5 foot intervals using a split spoon sampler. All samples were immediately placed in clean glass jars.

A well was installed prior to the removal of the auger consisting of a ten-foot length of manufactured, schedule 40, PVC well screen having manufactured .010 inch slots, at the bottom of the boring, and two (2) ten foot lengths of two-inch diameter, schedule 40, PVC flush joint and threaded solid casing. A 2.65 foot length of PVC casing was added at the top of the well to accommodate the steel casing.

The ten-foot section of .010" slotted PVC screen was backfilled using washed silica sand. A bentonite seal was placed just above the sand and the remainder of the annular space was filled with a thick slurry of powdered bentonite and water as the auger was removed. A four inch diameter steel casing with a locking lid was then installed at the surface. The casing was grouted into place over the PVC pipe, and a concrete pad was installed which sloped away from the steel casing.

The well was then developed and cleaned by alternately surging and air lift pumping with compressed air injected through tubing lowered to a depth of 29.5 feet. All PVC casing and screening was steam cleaned prior to installation.

MW-3

The third observation well was placed on the east property line approximately equi-distance between the north and south property lines. A truck-mounted drill rig using a 3¼" I.D. hollow stem auger was used to drill the boring to a depth of 25.0 feet. Groundwater was encountered at a depth of 15.02 feet. Soils samples were taken at 5 foot intervals using a split spoon sampler. All soils samples were immediately placed in ~~a~~ clean glass jars.

A well was installed prior to the removal of the auger. The well consisted of one ten-foot length of manufactured, schedule 40, PVC well screen having manufactured .010 inch slots and two (2) ten-foot lengths of two-inch diameter, schedule 40, PVC flush joint and threaded

solid casing. A 1.70 foot length of PVC casing was removed from the top to accommodate the steel casing.

The ten-foot section of .010" slotted PVC screening was placed at the bottom of the boring and backfilled with washed silica sand, and a bentonite seal was placed directly above the sand. The remainder of the annular space was filled with a thick slurry of bentonite and water as the auger was removed. A four inch diameter steel casing with a locking lid was then grouted into place over the two inch PVC pipe. A concrete pad was then installed which sloped away from the PVC pipe well.

The well was developed and cleaned by alternately surging and air lift pumping with compressed air injected through tubing lowered to a depth of 28.6 feet. All PVC casing and screening was steam cleaned prior to installation.

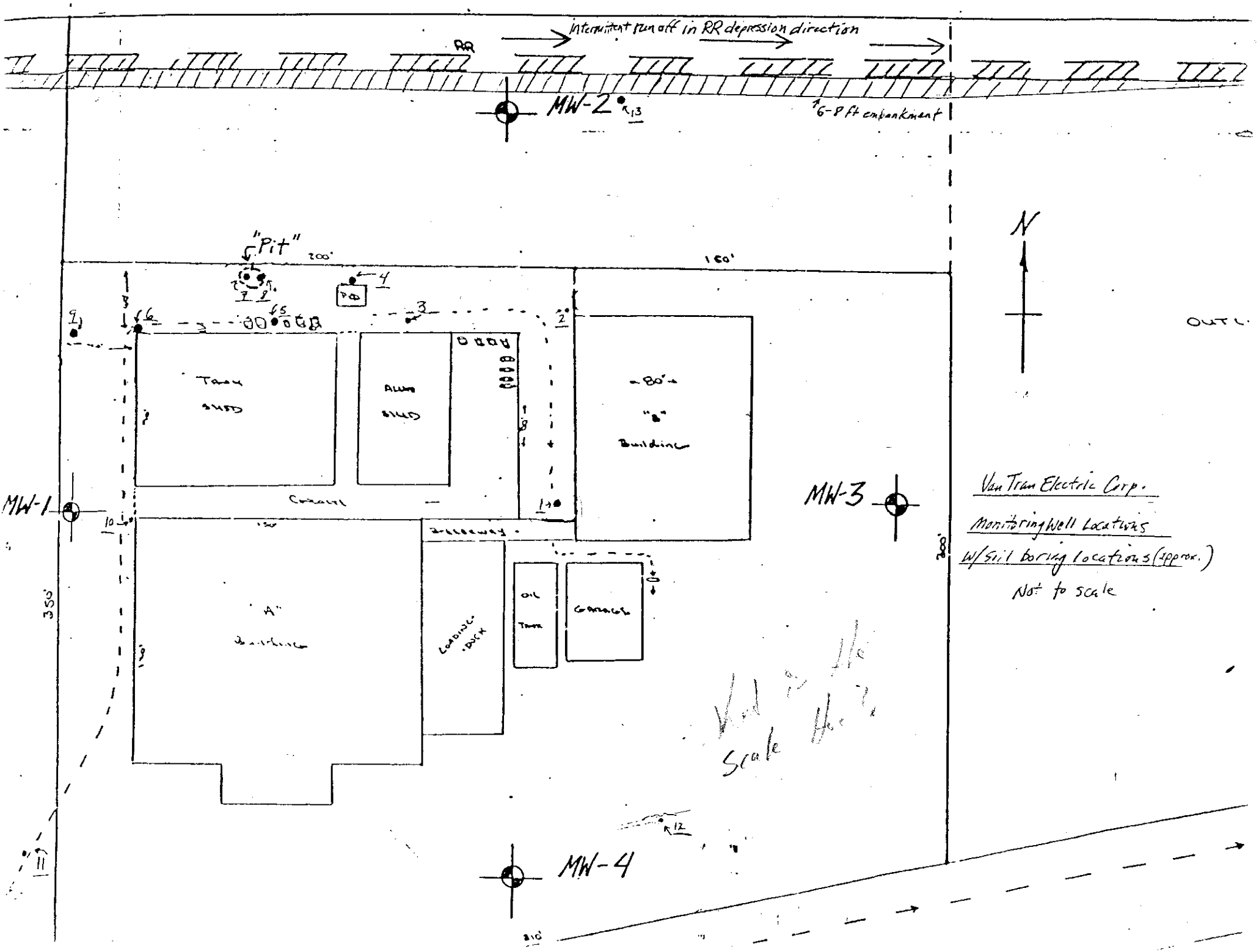
MW-4

The fourth observation well was placed on the south property line approximately equi-distance between the east and west property lines. A truck-mounted drill rig using a 3¼" I.D. hollow stem auger was used to drill the boring to a depth of 20.0 feet. Groundwater was encountered at a depth of 11.43 feet. Soils samples were taken at 5 foot intervals and immediately placed in clean new glass jars and placed on ice in a cooler.

A well was installed prior to the removal of the auger. The well consisted of a ten-foot length of manufactured, schedule 40, PVC well screen having manufactured .010 inch slots and a ten foot length of manufactured, schedule 40, PVC flush joint and threaded solid casing. A 3.10 foot length of PVC casing was added to the top to accommodate a steel casing with a locking lid.

The ten-foot length of .010" slotted PVC screening was placed at the bottom of the boring and backfilled with approximately 50 pounds of washed Ottawa silica sand. A bentonite seal was placed directly above the silica sand and the remainder of the annular space was filled with a thick slurry of powdered bentonite and water as the auger was removed. A four inch diameter, five foot length of steel casing was grouted into place over the top of the PVC well. A concrete pad was then installed at the surface, sloping away from the well.

The well was developed and cleaned by alternately surging and air lift pumping with compressed air injected through tubing lowered to a depth of 20.0 feet. All PVC casing and screening was steam cleaned prior to installation.



Van Tran Electric Corp.

Monitoring Well Locations

w/Soil boring locations (approx.)

Not to scale

VAN TRAN ELECTRIC CORPORATION

VANDALIA, ILLINOIS

GROUNDWATER MONITORING

OCTOBER 17, 1985

Well No.	Well Depth (ft.)	Casing Stickup	3 Well Vol. (gal.)	Well Vol. Purged (gal.)
MW-1	25.0	2.50	6.1	6.3
MW-2	30.0	2.65	6.5	6.65
MW-3	25.0	3.30	6.6	6.65
MW-4	20.0	3.10	5.8	5.95

Well No.	Sample No.*	Site Temp.(C°)	Field pH	Specific Cond./ Temp.(C°)
MW-1	1001	16.0	6.9	500/17.0
MW-2	1002	15.0	6.9	465/15.0
MW-3	1003	15.0	6.8	560/17.0
MW-4	1004	16.0	6.8	550/17.0

*No sample numbers were provided with the PSI containers and labels, therefore, these numbers were designated in the field by the Baker/TSA representative.

Standardization Tests: pH meter check against 7.0 buffer - reading 7.0; 4.0 buffer - reading 4.04; 10.0 buffer - reading 9.98. Specific conductivity meter check against 1,408 umhos/cm @ 25°C standard KCl solution - reading 1,150 umhos/cm @ 22.0°C = 1,217 umhos/cm @ 25°C.

Notes: Weather: Sunny, clear, warm (70°F). Sample groundwater from all wells appears very dirty. This is due in part to the wells not being completely developed after construction.

MPR/111

ATTACHMENT II

DRILLING CONTRACT

OCT 25 1985

October 10, 1985

15099-03-SRI

Orig. CJT/RLS/File
Copy: EWB
BJF,Sr./File

mb 10/24/85

Professional Service Industries, Inc.
A & H Engineering Division
308 North Street
Springfield, IL 62704

Attention: Mr. Thomas J. Bolka

Re.: Subsurface Investigation
VanTran Electric Corporation
Vandalia, Illinois

Dear Mr. Bolka:

This letter is to be considered the entire agreement between Baker Engineering, Inc. (Engineer) and Professional Service Industries, Inc. (Contractor) for drilling activities and analytical laboratory services applicable to the subject project. As previously discussed with our Mr. Ernest Brix, Baker is conducting the project as consultant to Tockman, Laderman and Wolk, VanTran's legal counsel. All correspondence, reports, and written analytical results are considered "privileged and confidential" prepared in anticipation of litigation. Information concerning the work may not be released to any party other than the Engineer without written authorization from Tockman, Laderman and Wolk. A description of the work follows.

The purposes of the work to be performed by PSI are:

(1) Obtain samples of surface soils and subsoils at locations and depths specified by the Engineer.

(2) Install four (4) 2-inch diameter piezometers/monitoring wells to a screened depth of approximately 30 feet at locations specified by the Engineer.

(3) Provide laboratory analytical services for the analyses of soil and groundwater samples as requested by the Engineer.

SOIL SAMPLING

The work plan involves the drilling of thirteen (13) soil borings. Eleven (11) of the borings will be 3 feet deep and two (2) of the borings will be 8 feet deep. The drilling will be performed using a truck

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mounted drill rig. Drilling will be accomplished using hollow stem augers. Sampling will be performed by advancing a standard 1-3/8 inch inside diameter split spoon sampler or equivalent continuous sampling apparatus through the auger.

All borings will involve continuous sampling of the soil at each boring location. Each one-foot depth increment at each boring location is to be retained and analyzed as a discrete sample. Therefore, the eleven borings that are 3 feet deep will yield a total of 33 individual samples and the two borings that are 8 feet deep will yield a total of 16 individual soil samples, for a grand total of 49 samples.

Specific locations and depths of borings will be specified and controlled by a representative of the Engineer during drilling.

Soil samples will be placed in new, properly labeled glass jars with teflon lined metal lids. All sample containers, labels, and lids will be provided by the Contractor. Sample containers will be sealed and documented by the Contractor in accordance with the Engineer's Chain-of-Custody procedures. All samples will be maintained at a temperature of 4°C or less immediately after collection, during shipment and prior to analysis in the Contractor's laboratory. All drilling equipment will be cleaned/decontaminated at the completion of each individual boring and upon completion of the work prior to leaving the job site. All drilling locations will be marked by the Engineer.

SOIL SAMPLE ANALYSES

Soil samples will be shipped by the Contractor to the Contractor's laboratories (Shilstone Laboratories located in Houston, Texas). Soil samples will be analyzed for the following parameters:

PCBs	Methyl Ethyl Ketone
Benzene	Lead
Toluene	Zinc
Xylene	Cadmium

Analyses will be performed in accordance with U. S. EPA approved procedures and the Contractor's laboratory quality assurance quality control procedures. Samples will be analyzed prior to expiration of U. S. EPA specified holding times for parameters of concern.

INSTALLATION OF GROUNDWATER SAMPLING WELLS

The Contractor will install four (4) 2-inch diameter, PVC groundwater sampling wells at locations specified and marked by the Engineer. The installation will be performed using a truck-mounted drill rig at the site. The work will involve the drilling of four (4) borings and subsequent well installation. The four borings will be advanced using 3 - 1/4" I.D. hollow stem augers to the desired depth.

Soil sampling procedure for the borings will involve split spoon sampling at 5-foot intervals and at obvious soil horizon changes. All soil sampling will utilize a 1-3/8" I.D. split barrel sampler in accordance with ASTM Method D-1586. Soil samples will be placed in new, properly labelled glass jars with lids that provide a secure seal to prevent moisture loss.

After advancement to the depth specified by the Engineer's representative, wells will be installed in each hole utilizing two-inch nominal diameter, Schedule 40, flush joint and threaded PVC solid casing with one ten-foot long manufactured, Schedule 40, PVC well screen having manufactured .010" inch slots at the bottom of the boring. This casing and screen will be installed prior to removal of the hollow stem augers to prevent the hole from caving. Unless otherwise approved by the Engineer's representative, the well screens and the interval a few feet above will be packed by gradually backfilling the annular space with coarse sand as the hollow stem augers are withdrawn. A bentonite seal will be placed directly above the sand pack to the satisfaction of the Engineer's representative. The remainder of the annular space will be filled with a thick slurry of powdered bentonite and water as the augers are withdrawn. Consistency of the mix and stages of placement will be determined in the field by the Engineer's representative.

A five foot long section of four inch diameter steel casing with a locking lid will be grouted in place as protection at the surface over the two inch diameter PVC casing. A concrete pad which slopes away from the protective pipe shall be installed at the surface. The wells will be developed/cleaned immediately after installation by alternately surging and air lift pumping with compressed air injected through tubing lowered to a point just above the well casing bottom.

The work is scheduled to begin on October 15, 1985, conditions permitting, or as otherwise approved by the Engineer and all drilling activities shall be completed within three days. VanTran Electric Corporation personnel will check drilling locations, which will be marked (staked) by the Engineer to confirm that underground structures and utilities will not be disturbed. However, it shall be the Contractor's responsibility to verify the absence of any such features.

ANALYSES OF GROUNDWATER SAMPLES

The Engineer shall obtain groundwater samples from each of the four new wells approximately 24 hours after well completion and development. The samples will be placed in appropriate sample bottles provided by the Contractor. Groundwater samples will be analyzed at the Contractor's laboratory for the following parameters:

PCBs	Lead
Benzene	Zinc
Toluene	Cadmium
Xylene	TOC
Methyl Ethyl Ketone	TOX

Sample containers requiring chemical preservatives will be prepared with the appropriate preservative and sealed at the Contractor's laboratory. All sample containers will be shipped to the job site prior to the start of sampling (i.e., on or before October 15, 1985).

Groundwater samples will be prepared and analyzed in accordance with U. S. EPA approved procedures and protocols following the Contractor's written QA/AC procedures. All samples will be maintained at or below 4°C immediately upon collection, during shipment and prior to analyses. All groundwater samples will be analyzed prior to expiration of U. S. EPA recommended holding times.

AGREED UNIT PRICES AND ESTIMATED TOTAL COSTS

The Contractor will conduct the above described work in compliance with all applicable Federal, State, and local laws/ordinances/resolutions and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work. Firm unit prices and estimated costs will be as follows:

October 10, 1985

	ITEM	ESTIMATED QUANTITY	AGREED UNIT PRICE	ESTIMATED TOTAL COST
A.	Mobilization and Demobilization	Lump Sum	$500.00	$ 500.00
B.	Soil Sampling (Drilling and Sampling)	49 L.F.	12.90/L.F.	632.10
C.	Decontamination of Equipment	3 hours	100.00/hour	300.00
D.	Installation of 2-inch PVC Wells	120 L.F.	7.00/L.F.	840.00
E.	Materials	Lump Sum	600.00	600.00
F.	Laboratory Analyses:			
	Soil Samples	49 Samples	210.00/sample	10,290.00
	Water Samples	4 Samples	285.00/sample	1,140.00
G.	Engineering Services, Administrative Services, and Consultation	8 Hours	53.00/Hour	424.00
*	SOIL DRILLING & SAMPLING FOR MONITOR WELL BORINGS	120 L.F.	12.90/L.F.	1548.00
			ESTIMATED TOTAL	$14,726.10
				4,16,274.10

The work actually performed, whether increased or decreased as compared to the estimates above, shall be paid for by the Engineer only at the above listed rates following receipt and approval of properly supported invoices. One copy of legible, handwritten driller's logs for each boring shall be attached to the invoice as support of the work. Such invoices will be paid upon Engineer's receipt of payment from Tockman, Laderman and Wolk. Additional borings and wells, as described herein, may be drilled at a later date. In this event, remobilization charges and other unit prices contained in this agreement would apply.

The Contractor shall procure all permits and licenses and pay at his own expense all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the work. The Engineer will arrange permission for the Contractor to enter the site. The Contractor shall be completely and solely responsible for the safety procedures and programs incidental to the performance of this contract.

The Contractor shall obtain and pay for such insurance as will protect him, the Engineer, Tockman, Laderman and Wolk and VanTran Electric Corporation from claims under the Workmen's Compensation Act and from any other claims for damages for personal injury, including death, or for damages to property, either real or personal, which may arise from operations under this agreement, whether such operations be by the Contractor or by anyone directly employed by him. The Contractor shall effect the following insurance, issued by an insurance company authorized to do business in the State of Illinois:

A. "Workmen's Compensation Insurance" including Employer's Liability Insurance in accordance with the laws of the state in which the project is located with the inclusion of extra legal medical coverage of not less than $10,000, where available. All States Insurance and Employer's Liability Insurance shall have a limit of not less than $1,000,000. Workmen's Compensation shall provide, if applicable, coverage for the provisions of the U. S. Longshoreman's and Harbor Worker's Compensation Act and Jones Act.

B. "Comprehensive Automobile Bodily Injury and Property Damage Insurance" not less than Five Hundred Thousand Dollars ($500,000) combined single limit and including where required, a statutory no-fault program. This insurance shall cover all automotive vehicles owned or hired by the Contractor and used on this contract, not otherwise so covered by insurance. Automatic coverage shall be provided for extensions of the contract.

C. "Comprehensive Bodily Injury Liability Insurance" including coverage on a personal injury basis and "Comprehensive Property Damage Liability Insurance" not less than Five Hundred Thousand Dollars ($500,000) combined single limit.

D. Coverage to include:

(1) Broad form property damage
(2) "Contractual Liability Insurance"
(3) "Completed Operations/Products Liability Insurance"
(4) "XCU Hazards Insurance"
(5) "Independent Contractors" Protective Liability Insurance

A certificate from your insurance company certifying that the above insurance is in effect shall be delivered to this office prior to our issuance of a Notice to Proceed.

The Contractor shall save harmless and fully indemnify the Engineer, Tockman, Laderman and Wolk, and VanTran Electric Corporation, their officers, agents, and employees from all suits, damages, expenses or claims that may at any time be imposed or recovered by, from, or on account of damage to property or death or injury to persons resulting from or arising out of the performance of this contract by the Contractor, his agents, servants, employees or subcontractors.

The Contractor, his agents, servants, employees, or subcontractors shall treat all project information as strictly confidential and shall not discuss with any third party or publicize information in any way related to this agreement prior to, during, or after the period of performance without prior written approval of Tockman, Laderman and Wolk. Any related request by the Contractor will be directed through the Engineer.

The Contractor agrees that he is fully informed as to all conditions affecting the work to be done, as well as the labor and materials to be furnished for completion of the same, and that such information was secured by his personal investigation and not wholly from the information given by the Engineer; and that he will make no claim against the Engineer by reason of estimates or representations heretofore made by any officer, employee or agent of the Engineer. The terms of this agreement will remain in effect for a period of six (6 months) after the date of execution to cover future remobilization.

The contract is subject to termination at any time by the Engineer. In the event of such termination, the Contractor shall be paid an equitable amount based upon the quantities actually furnished and accepted by the Engineer at the unit prices stipulated in this Contract.

October 10, 1985

This letter shall constitute the entire agreement for the work. If it is satisfactory to you, please signify your acceptance and concurrence by property signature in the space provided below, and return one (1) signed copy to this office.

Very truly yours,

BAKER ENGINEERING, INC.

Bernard J. Ford, Sr.
PRESIDENT

BJF/EWB/rl

The terms and conditions as set forth in this agreement are hereby accepted this 14th day of OCTOBER, 1985

By _____

Title BRANCH MANAGER

acord

CERTIFICATE OF INSURANCE

NAME AND ADDRESS OF AGENT

McCORKLE COMMERCIAL INSURANCE CORPORATION
309 NE Loop 410, Suite 512
San Antonio, Texas 78209

COMPANIES AFFORDING COVERAGES

COMPANY LETTER A CIGNA CORPORATION

COMPANY LETTER B PENN-AMERICA INSURANCE COMPANY

COMPANY LETTER C

COMPANY LETTER D

COMPANY LETTER E

NAME AND ADDRESS OF INSURED

PROFESSIONAL SERVICE INDUSTRIES, INC.
A & E Engineering Division
308 North Street
Springfield, Illinois 62704

This is to certify that policies of insurance listed below have been issued to the insured named above and are in force at this time. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to the terms, exclusions and conditions of such policies.

COMPANY LETTER	TYPE OF INSURANCE	POLICY NUMBER	POLICY EXPIRATION DATE	Limits of Liability in Thousands (000)	EACH OCCURRENCE	AGGREGATE
A	GENERAL LIABILITY [X] COMPREHENSIVE FORM [X] PREMISES - OPERATIONS [X] EXPLOSION AND COLLAPSE HAZARD [X] UNDERGROUND HAZARD [X] PRODUCTS-COMPLETED OPERATIONS HAZARD [X] CONTRACTUAL INSURANCE [X] BROAD FORM PROPERTY DAMAGE [X] INDEPENDENT CONTRACTORS [X] PERSONAL INJURY	G05319821	1/1/86	BODILY INJURY	$ 1,000	$ 1,0
				PROPERTY DAMAGE	$ 1,000	$ 1,0
				BODILY INJURY AND PROPERTY DAMAGE COMBINED	$	$
				PERSONAL INJURY		$ 1,0
A	AUTOMOBILE LIABILITY [X] COMPREHENSIVE FORM [X] OWNED [X] HIRED [X] NON-OWNED	BAP828372	1/1/86	BODILY INJURY (EACH PERSON)	$	
				BODILY INJURY (EACH ACCIDENT)	$	
				PROPERTY DAMAGE	$	
				BODILY INJURY AND PROPERTY DAMAGE COMBINED	$ 1,000	
B	EXCESS LIABILITY [X] UMBRELLA FORM [ ] OTHER THAN UMBRELLA FORM	UMX10771	1/1/86	BODILY INJURY AND PROPERTY DAMAGE COMBINED	$ 1,000	$ 1,0
A	WORKERS' COMPENSATION and EMPLOYERS' LIABILITY	C24369237	1/1/86	STATUTORY		
					$ 500	EACH
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES

Provision of personnel and equipment to perform subsurface soil drilling and sampling and installation of water monitoring wells.

Cancellation: Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will endeavor to mail 10 days written notice to the below named certificate holder, but failure to mail such notice shall impose no obligation or liability of any kind upon the company.

NAME AND ADDRESS OF CERTIFICATE HOLDER

Baker Engineering, Inc.
One East Wacker Drive
Chicago, Illinois 60601

DATE ISSUED October 14, 1985

Tom McCorkle

AUTHORIZED REPRESENTATIVE

ATTACHMENT III

GROUNDWATER SAMPLING PROCEDURES

BAKER/TSA GROUNDWATER SAMPLING PROCEDURES

All groundwater sampling will be done after the wells have been properly developed. Because drilling and well construction disturb the natural groundwater system, some time should pass before sampling to allow the groundwater system to return to chemical and physical equilibrium.

a. PROCEDURES FOR SAMPLING MONITOR WELLS

1. Measure the depth from the top of the well protective casing (known elevation) to the top of the water. Record the depth for future calculation of groundwater elevation. All measuring devices used in the well must be thoroughly rinsed with distilled water prior to use.
2. Measure the depth from the top of the casing to the bottom of the casing or sediment/water interface for initial sampling of a new well.
3. Subtract the depth to top of the water from the depth to the bottom of the casing or sediment/water interface to determine the height of standing water in the casing.
4. Before sampling remove a minimum quantity of water from the well equal to three to five times the calculated volume of water in the well in wells which cannot be pumped or bailed dry.
5. If the well goes dry during pumping or bailing, it is preferable to allow the well to recover and again empty the well before sampling.

6. Obtain a sample for chemical analyses immediately after pumping or bailing is complete. In case a well is pumped or bailed dry, and recovery is very slow, obtain a groundwater sample as soon as possible after the well has recovered.

7. The sampling equipment (bailer, pump, etc.) must be flushed with distilled water after sampling to prevent cross contamination between sampling wells. Materials incidental to sampling such as bailer ropes and tubing must also be flushed with distilled water. Sampling equipment must be protected from ground surface contamination by clean plastic sheeting. No sampling should be accomplished when wind blown particles may contaminate the sample or sampling equipment.

8. Most samples for organic chemical analyses should be placed in amber glass bottles with teflon lined lids. Most samples for inorganic chemical analyses should be placed in polyethylene bottles. Samples for bacteriological analyses should be placed in sterilized plastic bottles. Organic and inorganic sample bottles not already containing preservatives should be partially filled with the water to be sampled, and the contents should be agitated and discarded. The cap should be rinsed with the water to be sampled. The bottle should be filled to the top and capped securely. Bottles containing preservatives should not be allowed to overflow. Bacteriological sample bottles should not be rinsed and should not be completely filled so that they can be mixed by shaking prior to analyses. The sample bottle should

be placed in a temperature controlled ($4^{o}C$) chest immediately after sampling and delivered to the laboratory as soon as possible.

ATTACHMENT IV

RESULTS OF SOIL AND GROUNDWATER ANALYSES
AND
FIELD TEST BORING RECORDS

Analytical Services Offices

BioSearch Laboratories
1178 Corporate Dr. West
Arlington, TX 76011

Omaha Testing
2917 Douglas Street
Omaha, NE 68131

Shilstone Laboratories
1714 Memorial Drive
Houston, TX 77007

Shilstone Laboratories
814 Conti Street
New Orleans, LA 70112

Shilstone Laboratories
Three Burwood Lane
San Antonio, TX 78216

REPORT 020-55029-01

FOR

BAKER/TSA, INC.
8315 VIRGINIA STREET
MERRILLVILLE, INDIANA 46410

ATTN: ERNIE BRIX

REPORT ON

ANALYTICAL RESULTS ON
SERVICE ORDER 15099-03-SRI

PREPARED ON

NOVEMBER 12, 1985

Professional Service Industries, Inc.
Analytical Services Division

Professional Service Industries, Inc.
Analytical Services Division

ANALYTICAL REPORT

TESTED FOR: Baker/TSA, Inc.
8315 Virginia St.
Merrillville, Indiana 46410

Attn: Ernie Brix

PROJECT: Baker Service Order
15099-03-SRI

DATE: November 12, 1985

OUR REPORT NO.: 020-55029-01 (214-53191-01)

REMARKS:

Report on four water and forty seven soil samples submitted 10-18-85 by our Springfield, Illinois office.

Analyses Requested:

Item	Water Samples	Soil Samples
1)	PCB	PCB
2)	Benzene	Benzene
3)	Toluene	Toluene
4)	Xylene	Xylene
5)	Methyl Ethyl Ketone	Methyl Ethyl Ketone
6)	Lead	Lead
7)	Zinc	Zinc
8)	Cadmium	Cadmium
9)	TOC	
10)	TOX	

Methodology Employed: Item 1 - GC/EC
Items 2 to 5 - GC/MS PUrge and Trap
Items 6 to 8 - Atomic Absorption

Methodology Employed: Items 9 - Combustion Infrared
Items 10 - Dohrman TOX Analyzer

Analytical Data

-Attached-

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.
ANALYTICAL SERVICES DIVISION

Norman H. Hanson

Norman H. Hanson
Division Manager

NHH/dew

Baker/TSA, Inc.
020-55029-01

	Water Samples				
	1001	1002	1003	1004	Detection Limit
PCB's					
PCB 1016, ppb	BDL	BDL	BDL	BDL	2
PCB 1221, ppb	BDL	BDL	BDL	BDL	2
PCB 1232, ppb	BDL	BDL	BDL	BDL	2
PCB 1242, ppb	BDL	BDL	BDL	BDL	2
PCB 1248, ppb	BDL	BDL	BDL	BDL	2
PCB 1254, ppb	BDL	BDL	BDL	BDL	2
PCB 1260, ppb	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppb	BDL	BDL	BDL	BDL	1
Toluene, ppb	BDL	BDL	BDL	BDL	10
Xylene, ppb	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppb	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	0.12	0.30	0.16	0.33	
Zinc, ppm	0.11	0.16	0.08	0.12	
Cadmium, ppm	< 0.04	< 0.04	< 0.04	< 0.04	
Misc.					
TOC, ppm	60	< 5	35	42	
TOX, ppm	< 0.010	0.040	0.036	0.029	

Baker/TSA, Inc.
020-55029-01

	Water Samples				
	1001	1002	1003	1004	Detection Limit
PCB's					
PCB 1016, ppb	BDL	BDL	BDL	BDL	2
PCB 1221, ppb	BDL	BDL	BDL	BDL	2
PCB 1232, ppb	BDL	BDL	BDL	BDL	2
PCB 1242, ppb	BDL	BDL	BDL	BDL	2
PCB 1248, ppb	BDL	BDL	BDL	BDL	2
PCB 1254, ppb	BDL	BDL	BDL	BDL	2
PCB 1260, ppb	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppb	BDL	BDL	BDL	BDL	1
Toluene, ppb	BDL	BDL	BDL	BDL	10
Xylene, ppb	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppb	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	0.12	0.30	0.16	0.33	
Zinc, ppm	0.11	0.16	0.08	0.12	
Cadmium, ppm	< 0.04	< 0.04	< 0.04	< 0.04	
Misc.					
TOC, ppm	60	< 5	35	42	
TOX, ppm	< 0.010	0.040	0.036	0.029	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	2B, 2'	2C, 3'	3A, 1'	3B, 2'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	470	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	260	BDL	2
Volatiles					
Benzene, ppm	33	BDL	BDL	BDL	1
Toluene, ppm	70	140	60	98	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	10	12	105	15	
Zinc, ppm	24	28	75	30	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	3C, 3'	4A, 1'	4B, 2'	4C, 3'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	1730	BDL	BDL	2
PCB 1260, ppm	BDL	63	86	BDL	2
Volatiles					
Benzene, ppm	BDL	540	BDL	BDL	1
Toluene, ppm	BDL	180	BDL	36	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	13	1800	18	14	
Zinc, ppm	24	78	24	16	
Cadmium, ppm	< 1	6.6	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	5A, 1'	5B, 2'	5C, 3'	6A, 1'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	14	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	6	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	3	BDL	BDL	1
Toluene, ppm	25	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	30	12	11	15	
Zinc, ppm	39	21	24	35	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	6B, 2'	6C, 3'	7A, 1'	7B, 3'	Detection Limit
PCB's					
PCB 1016, ppm	25	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	1100	2
PCB 1254, ppm	BDL	BDL	2300	BDL	2
PCB 1260, ppm	BDL	BDL	440	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	10	9.8	170	110	
Zinc, ppm	22	17	20	25	
Cadmium, ppm	< 1	< 1	< 1	2.2	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	7C, 3'	7D, 4'	7E, 5'	7F, 6'	Detection Limit
PCB's					
PCB 1016, ppm	46	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	15	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	8.1	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	4.0	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	14	13	10	11	
Zinc, ppm	6	32	21	23	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	7G, 7'	7H, 8'	8A, 1'	8B, 2'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	72	2
PCB 1248, ppm	BDL	BDL	330	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	3.4	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	550	30
Methyl Ethyl Ketone, ppm	30*	BDL	BDL	BDL	100
Metals					
Lead, ppm	10	5.4	190	14	
Zinc, ppm	21	23	380	150	
Cadmium, ppm	< 1	< 1	< 1	< 1	

* Even though our published detection limit for M.E.K. is 100 ppm in soil samples by this method, we observed what we feel could very likely be M.E.K. at the 30 ppm level.

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	8C, 3'	8D, 4'	8E, 5'	8F, 6'	Detection Limit
PCB's					
PCB 1016, ppm	21	15	10	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	16	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	5	1
Toluene, ppm	30	180	160	340	10
Xylene, ppm	190	1600	BDL	8800	30
Methyl Ethyl Ketone, ppm	1500	40*	BDL	BDL	100
Metals					
Lead, ppm	8.4	12	25	7.6	
Zinc, ppm	25	19	15	15	
Cadmium, ppm	< 1	< 1	< 1	< 1	

* Even though our published detection limit for M.E.K. is 100 ppm in soil samples by this method, we observed what we feel could bery likely be M.E.K. at the 40 ppm level.

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	8G, 7'	8H, 8'	9A, 1'	9B, 2'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	3.8	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	9	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	11	7.4	16	10	
Zinc, ppm	23	20	30	18	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	9C, 3'	10A,1'	10B,2'	10C,3'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	320	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	6.5	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	12	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	9.8	1260	13	11	
Zinc, ppm	13	570	23	19	
Cadmium, ppm	< 1	4.2	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	11A,1'	11B,2'	11C,3'	B-12A,1'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	410	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	73	BDL	BDL	BDL	1
Toluene, ppm	BDL	43	280	550	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	21	22	15	106	
Zinc, ppm	25	27	22	116	
Cadmium, ppm	< 1	< 1	< 1	2.4	

Baker/TSA, Inc.
020-55029-01

	Soil Borings			
	13A, 1'	13B, 2'	13C, 3'	Detection Limit
PCB's				
PCB 1016, ppm	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	2	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	2
PCB 1260, ppm	5.5	BDL	BDL	2
Volatiles				
Benzene, ppm	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	43	10
Xylene, ppm	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	100
Metals				
Lead, ppm	22	19	13	
Zinc, ppm	20	40	26	
Cadmium, ppm	< 1	< 1	< 1	

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-1

PROJECT VanTran Electric Corp.

LOCATION Vandalia, Illinois S.O. NO. 15099-03-SR1

REMARKS Split Spoon pushed continuously w/ hydraulic pressure of rig.

DATE	PROGRESS	WEATHER	WATER DEPTH
10/16/85	0-3.0'	Clear, Warm	/

STATION _____ RIG CME-45-Truck Mounted AUGER SIZE 4" O.D.

OFFSET _____ SAMPLER SIZE 3" O.D. HAMMER WT. 140 lb. FALL 30"

SURFACE EL. _____ CASING SIZE _____ HAMMER WT. _____ FALL _____

DRILL RECORD						LAB. MOISTURE CONTENT (%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	1A	SS	N/A				Clay-Soil	Dk. Brn.	Loose	Damp .2	
2	1B	SS	N/A				Silt and Clay	Brown-Gray	Soft	Moist	
3	1C	SS	N/A							3.0'	

DRILLING CO. PST Inc. DRILLER Keith Holm MBJ REP. M. Runnill

BORING NO. B-1 SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-2

PROJECT Van Tran Elec. Corp.

LOCATION Vandalia, Illinois S.O. NO. 15099-03-SR1

REMARKS Split Spoon pushed with hydraulic weight of rig.

DATE	PROGRESS	WEATHER	WATER DEPTH
10/6/85	0-3.0'	Clear, warm	/

STATION

OFFSET

SURFACE EL.

RIG CME-45 Truck Mount

SAMPLER SIZE 3" O.D. HAMMER WT. 140 lb

CASING SIZE HAMMER WT. FALL

AUGER SIZE 4" O.D.

FALL 30"

DRILL RECORD						LAB. MOISTURE CONTENT (%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	2A	SS	N/A				Silty-Clay Soil	Brn.	loose	Damp .5	
2	2B	SS	N/A				Gray Silty Clay w/ trace sand	Brown-Gray	Soft	Moist	
3	2C	SS	N/A							30'	

DRILLING CO. PSI DRILLER Keith Helm MBJ REP. M. Rumrill

BORING NO. B-1 SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-3

PROJECT Van Tran Elec. Corp

LOCATION Vandalia Illinois S.O. NO. 1649-03-SR1

REMARKS Pushed split spoon sampler continuously w/ hydraulic pressure of rig

DATE	PROGRESS	WEATHER	WATER DEPTH
10/16/85	0-3.0 ft.	Clear warm	/

STATION

RIG CME-45 Truck-mount

AUGER SIZE 4" O.D.

OFFSET

SAMPLER SIZE 3" O.D.

HAMMER WT. 140 lb

FALL 30"

SURFACE EL.

CASING SIZE

HAMMER WT.

FALL

DRILL RECORD						LAB. MOISTURE CONTENT(%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC.(FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
							Fill Soil w/ trace clay	Brn	loose	Damp .3	
1	3A	SS	N/A				~~Dk Brn~~ Silt and clay w/ trace sand	Dk. Brn	Moist	Moist	
2	3B	SS	N/A								
3	3C	SS	N/A							3.0	

DRILLING CO. PSI Inc.

DRILLER Keith Helm

MBJ REP. M. Blumrill

BORING NO. B-3

SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-4

PROJECT Van Tran Elec

LOCATION Lindalia Illinois S.O. NO. 15099-03-SR1

REMARKS 3" Split spoon pushed continuously w/ hydraulic pressure from rig

DATE	PROGRESS	WEATHER	WATER DEPTH
10/16/55	0-3.0	Clear, warm	/

STATION

OFFSET

SURFACE EL.

RIG CME-45 Truck Mount

SAMPLER SIZE 3" O.D. HAMMER WT. 140 lb. FALL 30"

CASING SIZE HAMMER WT. FALL

AUGER SIZE 4" O.D.

DRILL RECORD						LAB. MOISTURE CONTENT (%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	1A	SS	N/A				Silty soil and gravel	Dk. Brn.	loose	moist 1.5	
2	1B	SS	N/A				Gray clay and silt trace sand	Gray	Soft	Damp	
3	1C	SS	N/A				Brn Clay and silt w/ some Sand	Brn	Soft	Damp 2.5 3.0	

DRILLING CO. PSI Inc. DRILLER R. Holm MBJ REP. M. Rumrill

BORING NO. B-4 SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-5

PROJECT Van Tran Elec.

LOCATION Vandalia Illinois S.O. NO. 15099-03 SR1

REMARKS Split Spoon Sampler pushed continuously w/ hydraulic pressure of rig.

DATE	PROGRESS	WEATHER	WATER DEPTH
10/11/88	0 – 3.0	Clear, warm	/

STATION

OFFSET

SURFACE EL.

RIG CME-45 Truck Mount

SAMPLER SIZE 3" OD. HAMMER WT. 140 lb

CASING SIZE HAMMER WT.

AUGER SIZE 4" O.D.

FALL 30"

FALL

DRILL RECORD						LAB. MOISTURE CONTENT (%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	5A	SS	N/A				Clay and gravel	Brn	Damp	loose .65	
2	5B	SS	N/A				Gray clay w/ tr. silt and sand,	Gray	moist	Soft	
3	5C	SS	N/A							3.0	

DRILLING CO. PST DRILLER K. Hahn MBJ REP. M. Russell

BORING NO. B-5 SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

ORING NO. B-6

PROJECT Van Tran Elec. Corp.

LOCATION Vandalia Ill. S.O. NO. 15099-03-5A

REMARKS Split spoon sampler pushed continuously w/ hydraulic pressure of rig.

DATE	PROGRESS	WEATHER	WATER DEPTH
10/12/85	0-3.0	Clear warm	/

STATION _____ RIG CME-45 Truck mount AUGER SIZE 4" O.D.

OFFSET _____ SAMPLER SIZE 3" O.D. HAMMER WT. 140 lb FALL 30"

SURFACE EL. _____ CASING SIZE _____ HAMMER WT. _____ FALL _____

DRILL RECORD						LAB. MOISTURE CONTENT (%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
							Clay Soil and silt	Brn.	loose	Damp .3	
1	6A	SS	N/A				Clay and silt	Gray-Brn.	Soft	Moist	
2	6B	SS	N/A								
3	6C	SS	N/A							3.0	

DRILLING CO. PSI DRILLER K. Holm MBJ REP. M. Rumrill

BORING NO. B-6 SHEET ____ of ____

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-7

PROJECT Van Tran Elec. Corp.

LOCATION Vandalia Illinois S.O. NO. 15099-03-SR1

REMARKS 3" O.D., 5.0 ft long Split spoon Sampler pushed continuously in 4.0 ft increments to obtain sample

DATE	PROGRESS	WEATHER	WATER DEPTH
10/16/85	0-80	Clear Sunny	/

STATION

OFFSET

SURFACE EL.

RIG CME-45 Truck Mount

AUGER SIZE 4" O.D.

SAMPLER SIZE 3" O.D. HAMMER WT. 140 lb FALL 30"

CASING SIZE HAMMER WT. FALL

DRILL RECORD							VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.	LAB. MOISTURE CONTENT (%)	GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	7A	SS	N/A				Silty Soil w/debris	Brn.	loose	Damp .5	
2	7B	SS	N/A				Clay w/ Tr. Silt	Gray	Soft	Moist	
3	7C	SS	N/A								
4	7D	SS	N/A							4.0'	
5	7E	SS	N/A				Sand w/Some Clay	Brn	loose	Moist	
6	7F	SS	N/A								
7	7G	SS	N/A								
8	7H	SS	N/A				Sand	Brn	loose	Moist 7.5' 8.0'	

DRILLING CO. PSI DRILLER K. Holm MBJ REP. M. Russell

BORING NO. B-7 ("PT") SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

ORING NO. B-8

PROJECT Van Tran Elec.

LOCATION Vandalia Illinois S.O. NO. 15099-03-5R1

REMARKS 3" Split Spoon pushed in 4.0' increments to 8.0' depth w/ hydraulic pressure of rig

DATE	PROGRESS	WEATHER	WATER DEPTH
6/11/85	0-8.0'	Clear warm	/

STATION _____ RIG CME-45 Track Mount AUGER SIZE 4" OD

OFFSET _____ SAMPLER SIZE 3" O.D. HAMMER WT. 140 lb FALL 30"

SURFACE EL. _____ CASING SIZE _____ HAMMER WT. _____ FALL _____

DRILL RECORD						LAB. MOISTURE CONTENT (%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	8A	SS					Silty Soil w/ debris	Brn	loose	dry .3	
2	8B						Clay w/ trace silt	Gray	Soft	damp 2.5'	
3	8C						Clay w/ trace silt	Brn	Soft	damp 4.0'	
4	8D										
5	8E						Gray clay w/ some silt	Gray	Soft	damp	
6	8F										
7	8G										
8	8H	✓								8.0	

DRILLING CO. PSI DRILLER K. Holm MBJ REP. M. Kimmel

BORING NO. B-8 SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-9

PROJECT Van Tran Elec

LOCATION Vandalia Illinois S.O. NO. 15099

REMARKS Split spoon pushed continuously by hydraulic pressure of rig.

DATE	PROGRESS	WEATHER	WATER DEPTH
[illegible]	0 - 3.0	Clear, warm	/

STATION _____ RIG CME-45 Truckmount AUGER SIZE 4"

OFFSET _____ SAMPLER SIZE 3" OD. HAMMER WT. 140 lb FALL 30"

SURFACE EL. _____ CASING SIZE _____ HAMMER WT. _____ FALL _____

DRILL RECORD							VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.	LAB. MOISTURE CONTENT (%)	GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
								Pr. Bra	loose	Damp .18	
1	9A	SS	N/A				Clay w/ Some silt	Bra	Soft	moist 1.0	
2	9B	SS					Clay w/ tr. silt	Grey	Soft	moist	
3	9C	SS								3.0	

DRILLING CO. PSI DRILLER K. Holm MBJ REP. M. Runnell

BORING NO. B-9 SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-10

PROJECT Van Tran

LOCATION Vandalia Illinois S.O. NO. 15099

REMARKS Split Spoon pushed continuously w/ hydraulic pressure of rig.

DATE	PROGRESS	WEATHER	WATER DEPTH
10/12/85	0-3.0	Clear, Warm	/

STATION

RIG CME-45

AUGER SIZE 4" O.D.

OFFSET

SAMPLER SIZE 3" OD

HAMMER WT. 140 lb

FALL 30"

SURFACE EL.

CASING SIZE

HAMMER WT.

FALL

DRILL RECORD							VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.	LAB. MOISTURE CONTENT (%)	GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
							Sandy Soil	Brn	loose	.4	
1	10A	SS	N/A				Clay and silt tr. sand	Gray-Brn.	Sift	damp	
2	10B	SS									
3	10C	SS								3.0	

DRILLING CO. PSI

DRILLER K. Holm

MBJ REP. M. Rumm II

BORING NO. B-10

SHEET ___ of ___

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-11

PROJECT Van Tran Elec.

LOCATION Lacosalia Illinois S.O. NO. 15099

REMARKS Split Spoon pushed continuously by rig

DATE	PROGRESS	WEATHER	WATER DEPTH
10/[illegible]	0-3.0	Clear, Warm	/

STATION _____ RIG CME-45 Truck Mount AUGER SIZE 4"

OFFSET _____ SAMPLER SIZE 3" HAMMER WT. 140 lb FALL 30"

SURFACE EL. _____ CASING SIZE _____ HAMMER WT. _____ FALL _____

DRILL RECORD							VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.	LAB. MOISTURE CONTENT (%)	GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	11A	SS	N/A				Silty Soil w/debris	Brn	loose	damp .3	
							Clay w/some silt	Brn-Grey	Soft	Moist	
2	11B	SS									
3	11C	SS								3.0	

DRILLING CO. FSI DRILLER K. Holm MBJ REP. M. Benrill

BORING NO. B-11 SHEET 1 of 1

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-12

PROJECT Van Tran

LOCATION Vandalia Ill. S.O. NO. 15099

REMARKS Shovel Sample taken to 1.0 ft due to proximity of underground utility lines

DATE	PROGRESS	WEATHER	WATER DEPTH

STATION _____ RIG _____ AUGER SIZE _____

OFFSET _____ SAMPLER SIZE _____ HAMMER WT. _____ FALL _____

SURFACE EL. _____ CASING SIZE _____ HAMMER WT. _____ FALL _____

DRILL RECORD						LAB. MOISTURE CONTENT (%)	VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC. (FT.)	CASING BLOWS/FT.		GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	12A	Grab	N/A				Brn Silty Soil	Brn.	Loose		
							Shovel Sample				

DRILLING CO. _____ DRILLER _____ MBJ REP. M. Rumrill

BORING NO. _____ SHEET ____ of ____

2-82

MICHAEL BAKER, JR., INC.

Baker Engineers

FIELD TEST BORING RECORD

BORING NO. B-13

PROJECT Van Tran Elec.

LOCATION Vandalia Illinois S.O. NO. 15099

REMARKS

DATE	PROGRESS	WEATHER	WATER DEPTH
10/16/85	0-3.0	Clear & Warm	

STATION

RIG CME-45

AUGER SIZE 4" OD

OFFSET

SAMPLER SIZE 3" OD HAMMER WT. 140 lb FALL 30"

SURFACE EL.

CASING SIZE HAMMER WT. FALL

DRILL RECORD							VISUAL DESCRIPTION — SOIL				
DEPTH (FT.)	SAMPLE NO.	SAMPLE TYPE	SPT/BLOWS/0.5 FT.	SAMPLE REC.(FT.)	CASING BLOWS/FT.	LAB. MOISTURE CONTENT(%)	GRADATION	COLOR	CONSISTENCY OR DENSITY	MOISTURE CONTENT ORGANIC CONTENT PLASTICITY AND OTHER OBSERVATIONS	ELEVATION
1	13A	SS					Silty Soil	Brn	loose	damp .5	
2	13B						Clay, w/ Some Silt	Gray-Brn	Stiff	damp	
3	13C									3.0	

DRILLING CO. PSI DRILLER K. Holm MBJ REP. M. Rowell

BORING NO. B-13 SHEET ___ of ___

2-82

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MPLE NUMBER : D543282
AMPLING POINT DESC. : VANDALIA X101

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 851003 TIME COLLECTED : 1435 SAMPLING PROGRAM :

COLLECTED BY : SMM DELIVERED BY : J B
COMMENTS : ORGANIC SCAN W/SW-846
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 851004 TIME RECEIVED : 1000 RECEIVED BY : J C
LAB OBSERVATIONS : 6 OZ. SOIL REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39519 TOTAL PCB'S	UG/G	: 2.0
1,2-DICHLOROBENZENE	UG/G	: 1.0K
BIS-(2-CHLOROETHYL)ETHER	UG/G	: 1.0K
NITROBENZENE	UG/G	: 1.0K
HEXACHLOROCYCLOPENTADIENE	UG/G	: 1.0K
1,2,4-TRICHLOROBENZENE	UG/G	: 1.0K
ISOPHORONE	UG/G	: 1.0K
NAPHTHALENE	UG/G	: 1.0
METHYL NAPHTHALENE	UG/G	: 1.0K
DIMETHYL NAPHTHALENE	UG/G	: 1.0K
TRIMETHYL NAPHTHALENE	UG/G	: 1.0K
HEXACHLOROCYCLOPENTADIENE	UG/G	: 1.0K
ACENAPHTHYLENE	UG/G	: 1.0K
ACENAPHTHENE	UG/G	: 1.0K
DIBENZOFURAN	UG/G	: 1.0K
FLUORENE	UG/G	: 1.0K
2,4-DINITROTOLUENE	UG/G	: 1.0K
PHENANTHRENE	UG/G	: 1.0K
ANTHRACENE	UG/G	: 1.0K
FLUORANTHENE	UG/G	: 1.0K
PYRENE	UG/G	: 1.0K
BENZIDINE	UG/G	: 1.0K
CHRYSENE	UG/G	: 1.0K
BENZO(A)ANTHRACENE	UG/G	: 1.0K
3,3'-DICHLOROBENZIDINE	UG/G	: 1.0K
2-CHLOROPHENOL	UG/G	: 1.0K
2-NITROPHENOL	UG/G	: 1.0K
PHENOL	UG/G	: 1.0K
METHYLPHENOLS	UG/G	: 1.0K
,4-DICHLOROPHENOL	UG/G	: 1.0K
2,4,6-TRICHLOROPHENOL	UG/G	: 1.0K
4-CHLORO-3-METHYLPHENOL	UG/G	: 1.0K
2,4-DINITROPHENOL	UG/G	: 1.0K
2-METHYL-4,6-DINITROPHENOL	UG/G	: 1.0K

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LE NUMBER : D543282

NITROPHENOL	UG/G	: 1.0K
NYL CHLORIDE	UG/G	: 1.0K
CHLOROETHANE	UG/G	: 1.0K
METHYLENE CHLORIDE	UG/G	: 1.0K
BROMOCHLOROMETHANE	UG/G	: 1.0K
1,1-DICHLOROETHYLENE	UG/G	: 1.0K
1,1-DICHLOROETHANE	UG/G	: 1.0K
1,2-DICHLOROETHYLENE	UG/G	: 1.0K
CHLOROFORM	UG/G	: 1.0K
1,2-DICHLOROETHANE	UG/G	: 1.0K
1,1,1-TRICHLOROETHANE	UG/G	: 1.0K
CARBON TETRACHLORIDE	UG/G	: 1.0K
BROMODICHLOROMETHANE	UG/G	: 1.0K
1,2-DICHLOROPROPANE	UG/G	: 1.0K
TRICHLOROETHYLENE	UG/G	: 1.0K
BENZENE	UG/G	: 1.0K
DIBROMOCHLOROMETHANE	UG/G	: 1.0K
BROMOFORM	UG/G	: 1.0K
TETRACHLOROETHYLENE	UG/G	: 1.0K
TOLUENE	UG/G	: 5.0
CHLOROBENZENE	UG/G	: 1.0K
ETHYL BENZENE	UG/G	: 3.0
XYLENES	UG/G	: 20

023 : THE FOLLOWING QUANTITATIONS ARE APPROXIMATE :

024 : C4-SUBSTITUTED BENZENES	UG/G	: 3.0
025 : C5-SUBSTITUTED BENZENES	UG/G	: 2.0
026 : ALIPHATIC HYDROCARBONS	UG/G	: 6.0
027 : DIOCTYL PHTHALATE	UG/G	: 10
028 : ALIPHATIC ACID ESTERS	UG/G	: 20
029 : OTHER ORGANIC COMPOUNDS	UG/G	: 5.0 (TOTAL)

J Hurley

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MPLE NUMBER : D543283
PLING POINT DESC. : VANDALIA / VAN TRAN ELECTRIC X104

SUBMITTING SOURCE # : SITE # :
DATE COLLECTED : 851003 TIME COLLECTED : 1440 SAMPLING PROGRAM :

COLLECTED BY : SMM DELIVERED BY : J B
COMMENTS : ORGANIC SCAN W/SW-846
FUNDING CODE : LP41 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 851004 TIME RECEIVED : 1000 RECEIVED BY : J C
LAB OBSERVATIONS : 6 OZ. SOIL REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P39519 TOTAL PCB'S	UG/G	: 30
1,2-DICHLOROBENZENE	UG/G	: 1.0K
BIS-(2-CHLOROETHYL)ETHER	UG/G	: 1.0K
NITROBENZENE	UG/G	: 1.0K
HEXACHLOROCYCLOPENTADIENE	UG/G	: 1.0K
1,2,4-TRICHLOROBENZENE	UG/G	: 1.0K
ISOPHORONE	UG/G	: 1.0K
NAPHTHALENE	UG/G	: 7.0
METHYL NAPHTHALENE	UG/G	: 2.0
DIMETHYL NAPHTHALENE	UG/G	: 1.0K
TRIMETHYL NAPHTHALENE	UG/G	: 1.0K
HEXACHLOROCYCLOPENTADIENE	UG/G	: 1.0K
ACENAPHTHYLENE	UG/G	: 1.0K
ACENAPHTHENE	UG/G	: 1.0K
DIBENZOFURAN	UG/G	: 1.0K
FLUORENE	UG/G	: 1.0K
2,4-DINITROTOLUENE	UG/G	: 1.0K
PHENANTHRENE	UG/G	: 1.0K
ANTHRACENE	UG/G	: 1.0K
FLUORANTHENE	UG/G	: 1.0K
PYRENE	UG/G	: 1.0K
BENZIDINE	UG/G	: 1.0K
CHRYSENE	UG/G	: 1.0K
BENZO(A)ANTHRACENE	UG/G	: 1.0K
3,3'-DICHLOROBENZIDINE	UG/G	: 1.0K
2-CHLOROPHENOL	UG/G	: 1.0K
2-NITROPHENOL	UG/G	: 1.0K
PHENOL	UG/G	: 1.0K
DIMETHYLPHENOLS	UG/G	: 1.0K
4-DICHLOROPHENOL	UG/G	: 1.0K
2,4,6-TRICHLOROPHENOL	UG/G	: 1.0K
4-CHLORO-3-METHYLPHENOL	UG/G	: 1.0K
2,4-DINITROPHENOL	UG/G	: 1.0K
2-METHYL-4,6-DINITROPHENOL	UG/G	: 1.0K

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E NUMBER : D543283

NITROPHENOL	UG/G	: 1.0K
NYL CHLORIDE	UG/G	: 1.0K
CHLOROETHANE	UG/G	: 1.0K
METHYLENE CHLORIDE	UG/G	: 1.0K
BROMOCHLOROMETHANE	UG/G	: 1.0K
1,1-DICHLOROETHYLENE	UG/G	: 1.0K
1,1-DICHLOROETHANE	UG/G	: 1.0K
1,2-DICHLOROETHYLENE	UG/G	: 1.0K
CHLOROFORM	UG/G	: 1.0K
1,2-DICHLOROETHANE	UG/G	: 1.0K
1,1,1-TRICHLOROETHANE	UG/G	: 1.0K
CARBON TETRACHLORIDE	UG/G	: 1.0K
BROMODICHLOROMETHANE	UG/G	: 1.0K
1,2-DICHLOROPROPANE	UG/G	: 1.0K
TRICHLOROETHYLENE	UG/G	: 1.0K
BENZENE	UG/G	: 1.0K
DIBROMOCHLOROMETHANE	UG/G	: 1.0K
BROMOFORM	UG/G	: 1.0K
TETRACHLOROETHYLENE	UG/G	: 1.0K
TOLUENE	UG/G	: 15
CHLOROBENZENE	UG/G	: 1.0K
ETHYL BENZENE	UG/G	: 25
XYLENES	UG/G	: 270

023 : THE FOLLOWING QUANTITATIONS ARE APPROXIMATE :

024 :	C3-SUBSTITUTED BENZENES	UG/G	: 5.0
025 :	C4-SUBSTITUTED BENZENES	UG/G	: 30
026 :	C5-SUBSTITUTED BENZENES	UG/G	: 10
027 :	METHYL INDENES	UG/G	: 3.0
028 :	ALIPHATIC HYDROCARBONS	UG/G	: 10
029 :	DIOCTYL PHTHALATE	UG/G	: 30
030 :	ISOBENZOFURANDIONE	UG/G	: 3.0
031 :	OTHER ORGANIC COMPOUNDS	UG/G	: 10 (TOTAL)

J Hurley

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Project VanTran Electric Company

Boring No. MW-2 Ground Elev.

S.O. No. 15099-04-SRZ

Date Started 10/15/85 Date Completed 10/15/85

Remarks Stickup = 2.65 ft.

Michael Baker, Jr., Inc.
Test Boring Record

Baker Engineers

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample Type	SPT Blows	Description	Well Installation Detail	Notes
				SILT - brown, dry	Protective steel cover	
				CLAY - silty to fine sand, brown, moist		
	5		5/8/9		Cement Grout	
	10		6/7/6		Bentonite seal	
				SAND - fine to medium, brown, moist, dense		
	15		6/5/7			
					Silica sand and caved materials	
	20		9/9/11			Water level 19.5 feet below ground surface 10/15/85
				Sand - medium, brown, dense, wet		
	25		7/14/11		24.8	
					2 inch diameter Sch. 40 PVC Screen .010 in.	
	30		9/11/14		29.8	PVC Screen Bottom
				E.O.B. @ 30.0 feet Drilled using 3¼ I.D. hollow stem augers		
	35					
	40					

DRILLING CO. Professional Service Industries

GEOLOGIST/ ENGINEER M. P. Rumrill

Project VanTran Electric Company

Boring No. MW-3 Ground Elev.

J.O. No. 15099-04-SRZ

Date Started 10/15/85 Date Completed 10/15/85

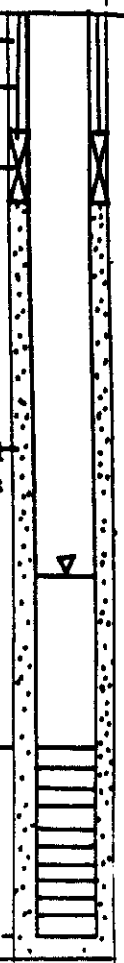
Remarks Stickup = 3.30 ft.

Michael Baker, Jr., Inc.
Test Boring Record

Baker Engineers

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample Type	SPT Blows	Description	Well Installation Detail	Notes
				3" Gravel Parking Lot	Cement Grout	
				CLAY - Silty, brown, moist, dense	Protective steel cover	
	5		2/5/7		Bentonite seal	
				CLAY - Silty, gray, moist, dense		
	10		2/3/3			
				SAND - fine, brown, dense, moderate plasticity, wet	Silica sand and caved materials	
	15		2/3/4			Water level 15.02 feet below ground surface 10/15/85
	20		2/3/3		19.5	
					2 inch diameter Sch. 40 PVC Screen .010 in.	
	25		24/25	SAND with GRAVEL	24.5	PVC Screen bottom
	30					
	35					
	40					



DRILLING CO. Professional Service Industries

GEOLOGIST/ENGINEER M. P. Rumrill

Project VanTran Electric Company

ring No. MW-1 Ground Elev.

S.O. No. 15099-04-SRZ

Date Started 10/15/85 Date Completed 10/15/85

Remarks Stickup = 2.50 ft.

Michael Baker, Jr., Inc.
Test Boring Record

Baker Engineers

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample Type	SPT Blows	Description	Well Installation Detail	Notes
				SILT - brown, dry	Cement Grout	
				CLAY - silty to fine sandy, gray, moist	Protective steel cover	
	5		5/6/8		Bentonite Seal	
	10		5/7/9			
				SAND - fine, med., brown moist to wet, dense	Silica sand and caved materials	Water level 15.25 feet below ground surface 10/15/85
	15		4/6/7	SAND - medium grained, brown, wet, medium dense		
	20		7/9/8		19.6 2 inch diameter Sch. 40 PVC Screen .010 in.	
	25		8/10/22		24.6	PVC Screen Bottom
				E.O.B. @ 25.0 feet Drilled using 3¼" I.D. hollow stem augers		
	30					
	35					
	40					

DRILLING CO. Professional Service Industries

GEOLOGIST/ ENGINEER M. P. Rumrill

Project VanTran Electric Company

Boring No. MW-4 Ground Elev.

S.O. No. 15099-04-SRZ

Date Started 10/16/85 Date Completed 10/16/85

Remarks Stickup = 3.10 ft.

Michael Baker, Jr., Inc.

Baker Engineers

Test Boring Record

SHEET 1 OF 1

Elevation (ft.)	Depth (ft.)	Sample Type	SPT Blows	Description	Well Installation Detail	Notes
				SILT - brown, organic	Protective steel cover	
				CLAY - gray, moist, dense	Cement Grout	
	5		3/5/7			
					Bentonite Seal	
	10		2/3/5		Silica sand and caved materials	Water level 11.43 feet below ground surface 10/16/85
				SAND - brown, wet, fine, dense		
	15		2/4/6		14.8	
					2 inch diameter Sch. 40 PVC Screen .010 in.	
	20		5/9/20		19.8	PVC Screen Bottom
				E.O.B. @ 20.0 feet Drilled using 3¼" I.D. hollow stem augers		
	25					
	30					
	35					
	40					

DRILLING CO. Professional Service Industries

GEOLOGIST/ ENGINEER M. P. Rumrill

Baker/TSA, Inc.
020-55029-01

	Soil Borings			
	13A, 1'	13B, 2'	13C, 3'	Detection Limit
PCB's				
PCB 1016, ppm	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	2	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	2
PCB 1260, ppm	5.5	BDL	BDL	2
Volatiles				
Benzene, ppm	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	43	10
Xylene, ppm	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	100
Metals				
Lead, ppm	22	19	13	
Zinc, ppm	20	40	26	
Cadmium, ppm	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	11A,1'	11B,2'	11C,3'	B-12A,1'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	410	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	73	BDL	BDL	BDL	1
Toluene, ppm	BDL	43	280	550	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	21	22	15	106	
Zinc, ppm	25	27	22	116	
Cadmium, ppm	< 1	< 1	< 1	2.4	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	9C, 3'	10A,1'	10B,2'	10C,3'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	320	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	6.5	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	12	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	9.8	1260	13	11	
Zinc, ppm	13	570	23	19	
Cadmium, ppm	< 1	4.2	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	8G, 7'	8H, 8'	9A, 1'	9B, 2'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	3.8	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	9	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	11	7.4	16	10	
Zinc, ppm	23	20	30	18	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	8C, 3'	8D, 4'	8E, 5'	8F, 6'	Detection Limit
PCB's					
PCB 1016, ppm	21	15	10	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	16	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	5	1
Toluene, ppm	30	180	160	340	10
Xylene, ppm	190	1600	BDL	8800	30
Methyl Ethyl Ketone, ppm	1500	40*	BDL	BDL	100
Metals					
Lead, ppm	8.4	12	25	7.6	
Zinc, ppm	25	19	15	15	
Cadmium, ppm	< 1	< 1	< 1	< 1	

* Even though our published detection limit for M.E.K. is 100 ppm in soil samples by this method, we observed what we feel could bery likely be M.E.K. at the 40 ppm level.

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	7G, 7'	7H, 8'	8A, 1'	8B, 2'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	72	2
PCB 1248, ppm	BDL	BDL	330	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	3.4	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	550	30
Methyl Ethyl Ketone, ppm	30*	BDL	BDL	BDL	100
Metals					
Lead, ppm	10	5.4	190	14	
Zinc, ppm	21	23	380	150	
Cadmium, ppm	< 1	< 1	< 1	< 1	

* Even though our published detection limit for M.E.K. is 100 ppm in soil samples by this method, we observed what we feel could very likely be M.E.K. at the 30 ppm level.

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	7C, 3'	7D, 4'	7E, 5'	7F, 6'	Detection Limit
PCB's					
PCB 1016, ppm	46	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	15	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	8.1	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	4.0	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	14	13	10	11	
Zinc, ppm	6	32	21	23	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	6B, 2'	6C, 3'	7A, 1'	7B, 2'	Detection Limit
PCB's					
PCB 1016, ppm	25	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	1100	2
PCB 1254, ppm	BDL	BDL	2300	BDL	2
PCB 1260, ppm	BDL	BDL	440	BDL	2
Volatiles					
Benzene, ppm	BDL	BDL	BDL	BDL	1
Toluene, ppm	BDL	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	10	9.8	170	110	
Zinc, ppm	22	17	20	25	
Cadmium, ppm	< 1	< 1	< 1	2.2	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	5A, 1'	5B, 2'	5C, 3'	6A, 1'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	14	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	6	BDL	BDL	BDL	2
Volatiles					
Benzene, ppm	BDL	3	BDL	BDL	1
Toluene, ppm	25	BDL	BDL	BDL	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	30	12	11	15	
Zinc, ppm	39	21	24	35	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	3C, 3'	4A, 1'	4B, 2'	4C, 3'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	1730	BDL	BDL	2
PCB 1260, ppm	BDL	63	86	BDL	2
Volatiles					
Benzene, ppm	BDL	540	BDL	BDL	1
Toluene, ppm	BDL	180	BDL	36	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	13	1800	18	14	
Zinc, ppm	24	78	24	16	
Cadmium, ppm	< 1	6.6	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	2B, 2'	2C, 3'	3A, 1'	3B, 2'	Detection Limit
PCB's					
PCB 1016, ppm	BDL	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	470	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	260	BDL	2
Volatiles					
Benzene, ppm	33	BDL	BDL	BDL	1
Toluene, ppm	70	140	60	98	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	10	12	105	15	
Zinc, ppm	24	28	75	30	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Soil Borings				
	1A, 1'	1B, 2'	1C, 3'	2A, 1'	Detection Limit
PCB's					
PCB 1016, ppm	77	BDL	BDL	BDL	2
PCB 1221, ppm	BDL	BDL	BDL	BDL	2
PCB 1232, ppm	BDL	BDL	BDL	BDL	2
PCB 1242, ppm	BDL	BDL	BDL	BDL	2
PCB 1248, ppm	BDL	BDL	BDL	BDL	2
PCB 1254, ppm	BDL	BDL	BDL	BDL	2
PCB 1260, ppm	BDL	BDL	140	3	2
Volatiles					
Benzene, ppm	BDL	1	BDL	BDL	1
Toluene, ppm	270	110	13	3	10
Xylene, ppm	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppm	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	3.8	15	12	920	
Zinc, ppm	3.8	30	30	80	
Cadmium, ppm	< 1	< 1	< 1	< 1	

Baker/TSA, Inc.
020-55029-01

	Water Samples				
	1001	1002	1003	1004	Detection Limit
PCB's					
PCB 1016, ppb	BDL	BDL	BDL	BDL	2
PCB 1221, ppb	BDL	BDL	BDL	BDL	2
PCB 1232, ppb	BDL	BDL	BDL	BDL	2
PCB 1242, ppb	BDL	BDL	BDL	BDL	2
PCB 1248, ppb	BDL	BDL	BDL	BDL	2
PCB 1254, ppb	BDL	BDL	BDL	BDL	2
PCB 1260, ppb	BDL	BDL	BDL	BDL	2
Volatiles					
Benzene, ppb	BDL	BDL	BDL	BDL	1
Toluene, ppb	BDL	BDL	BDL	BDL	10
Xylene, ppb	BDL	BDL	BDL	BDL	30
Methyl Ethyl Ketone, ppb	BDL	BDL	BDL	BDL	100
Metals					
Lead, ppm	0.12	0.30	0.16	0.33	
Zinc, ppm	0.11	0.16	0.08	0.12	
Cadmium, ppm	< 0.04	< 0.04	< 0.04	< 0.04	
Misc.					
TOC, ppm	60	< 5	35	42	
TOX, ppm	< 0.010	0.040	0.036	0.029	

Methodology Employed: Items 9 - Combustion Infrared
Items 10 - Dohrman TOX Analyzer

Analytical Data

-Attached-

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.
ANALYTICAL SERVICES DIVISION

Norman H. Hanson

Norman H. Hanson
Division Manager

NHH/dew

Professional Service Industries, Inc.
Analytical Services Division

ANALYTICAL REPORT

FOR: Baker/TSA, Inc.
8315 Virginia St.
Merrillville, Indiana 46410

Attn: Ernie Brix

PROJECT: Baker Service Order 15099-03-SRI

November 12, 1985

OUR REPORT NO.: 020-55029-01 (214-53191-01)

RKS:

Report on four water and forty seven soil samples submitted 10-18-85 by our Springfield, Illinois office.

Analyses Requested:

Item	Water Samples	Soil Samples
1)	PCB	PCB
2)	Benzene	Benzene
3)	Toluene	Toluene
4)	Xylene	Xylene
5)	Methyl Ethyl Ketone	Methyl Ethyl Ketone
6)	Lead	Lead
7)	Zinc	Zinc
8)	Cadmium	Cadmium
9)	TOC	
10)	TOX	

Methodology Employed:

Item 1 - GC/EC

Items 2 to 5 - GC/MS PUrge and Trap

Items 6 to 8 - Atomic Absorption

Analytical Services Offices

BioSearch Laboratories
1178 Corporate Dr. West
Arlington, TX 76011

Omaha Testing
2917 Douglas Street
Omaha, NE 68131

Shilstone Laboratories
1714 Memorial Drive
Houston, TX 77007

Shilstone Laboratories
814 Conti Street
New Orleans, LA 70112

Shilstone Laboratories
Three Burwood Lane
San Anionio, TX 78216

REPORT 020-55029-01

FOR

BAKER/TSA, INC.
8315 VIRGINIA STREET
MERRILLVILLE, INDIANA 46410

ATTN: ERNIE BRIX

REPORT ON

ANALYTICAL RESULTS ON
SERVICE ORDER 15099-03-SRI

PREPARED ON

NOVEMBER 12, 1985

Professional Service Industries, Inc.
Analytical Services Division

A.3.5

xc FOS Chuck Reeter
xc USEPA Regv
then Kenn Li SS

817
772-9740

Vantran ELECTRIC CORPORATION
7711 IMPERIAL DRIVE • P.O. BOX 20128 • WACO, TEXAS 76702-0128

October 19, 1988

Angela Aye Tin
Compliance Section
Division of Land Pollution Control
Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

0510350014 - Fayette
Van Tran Electric
Subpart F

Subject: VAN TRAN MANUFACTURING FACILITY
VANDALIA, ILLINOIS

Dear Ms. Tin:

Per your written request dated May 3, 1988, attached are boring logs, well construction diagrams, and well development information for newly installed monitoring wells MW-E and MW-F, located at the subject facility. These wells were installed according to the specifications stated in your May 3, 1988 correspondence.

We trust that the attached well installation information meets your needs. If there are any questions or comments please call me at 1-800-433-3346.

Very truly yours,

VANTRAN ELECTRIC CORPORATION

Steve Parke

Steve Parke
Vice-President

RECEIVED
OCT 24 1988
IEPA-DLPC

SP/cjr

Attachments

M E M O R A N D U M

DATE: July 26, 1988

TO: Division File, DLPC

FROM: Chuck Reeter, DLPC, Collinsville

Chuck Reeter

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IEPA-DLPC

SUBJECT: 0510350004 - Fayette County - Vandalia/Van Tran
ILD981093628
Subpart F Inspection

An annual Subpart F (CME) inspection was conducted at the Van Tran Electric Corporation facility on July 12, 1988. I was accompanied by Mike Grant of the IEPA-Collinsville office, who was there to do an annual CEI inspection, and Jonathan Adenuga, of the USEPA-Region 5, RCRA Enforcement, who was present to conduct an oversight inspection. The plant has been closed down and not operating since September 1987, and the property is for sale or lease. We were met by Rich Christensen, Hydrogeologist for Baker Engineers, environmental consultants for Van Tran, who was at the site with the drill rig crew to install 2 additional RCRA downgradient wells.

Prior to the inspection, a copy of the new version of the Interim Status Subpart F groundwater regulations was handed to Rich for his reference. Also, as I had recommended to Steve Parke, Compliance Officer for Van Tran, in previous inspections, I suggested to Rich that he obtain a copy of the RCRA Groundwater Monitoring Technical Enforcement Guidance Document (TEGD). Rich said that he already had a copy, and that he was familiar with its contents.

A number of issues were discussed prior to completing the CME worksheet. Initially, the ISS Subpart F groundwater regulations, 725.190 through 725.194, were briefly explained to Rich, as they applied to Van Tran, which operated a surface impoundment "pit" for waste disposal. The closure/post-closure requirements were also discussed, and the options of a "clean" or "dirty" closure of the surface impoundment. I informed Rich that the Permit Section of the IEPA would soon be sending a letter to Van Tran describing the procedures for closure of the impoundment, and that it would contain clean-up levels established by a committee in the headquarters office. Also, instructions were previously and again would be provided in the letters concerning the implementation of a groundwater program for closure (see attached letters). I indicated to Rich that Van Tran would most likely be required to sample for Appendix IX or HSL priority pollutant constituents, similar to what was collected and analyzed for at the facility in 1987 for the Superfund Remedial Investigation. I emphasized to Rich that a Sampling and Analysis Plan would need to be developed for the facility, according to the guidance provided in the TEGD, and implemented to comply with the Subpart F regulations. It was the intent of the Agency to have Van Tran implement a RCRA groundwater monitoring program prior to closure certification, in order to identify if there was any groundwater contamination associated with the waste disposal activities.

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The CME worksheet was completed at the site in its draft form. Since the facility has not yet implemented a RCRA groundwater program, portions of the checklist could not be utilized. However, much of the previous work done at the facility for the Superfund Remedial Investigation, such as the installation of 8 wells, soil and geologic studies, and aquifer characterization could be used in the preparation of a RCRA groundwater program. Since there was a discrepancy in the groundwater flow directions identified at the facility with Baker's results and IEPA's contractor (Envirodyne), it was suggested that Baker further characterize and describe the situation, and resolve the difference. Rich said that this had already been done, and that a lengthy hydrogeologic report had been recently submitted to the Superfund Section of the IEPA. I asked Rich to send me a copy, since I had not seen it or was aware that it existed. He acknowledged my request, and said that it would be sent sometime in the next 2 weeks.

Since a RCRA groundwater program has not yet been implemented at Van Tran, the CME checklist cannot be completed in its entirety. After the additional RCRA wells are installed and the Sampling and Analysis Plan is developed, it is recommended that a Subpart F inspector return to the facility to observe the sampling techniques and split samples, when the Sampling Plan is implemented. It is also recommended that another CME inspection be conducted in the next fiscal year, once the facility has an approved groundwater monitoring program.

After these discussions, the drill rig crew (PSI from Chicago) was observed installing the shallow well downgradient of the surface impoundment. Monitoring wells A, B, C, and D were inspected for integrity. No problems were encountered during the field inspection of the wells or with the drilling procedures. Photographs were taken of the surface impoundment, wells, and drill rig.

As was explained to Steve Parke over the phone and Rich Christensen during the inspection, the previously charged apparent Subpart F violations would continue, until the facility implemented a RCRA groundwater monitoring program and it was approved by the Agency. The continuing violations remain unresolved and are identified as 725.190 through 725.194, and subparts therein. The facility has already been referred for enforcement action concerning these High Priority Violations, and circuit court and appellate court orders were issued in 1986-1987.

Following are the Comments from the CME worksheet.

COMMENTS

Appendix A-1

2. A RCRA groundwater monitoring program has not yet been implemented at the Van Tran facility at the time of this inspection. Guidance has been provided in previous inspections and in letters sent by the Agency.

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3. As was indicated in a letter dated May 3, 1988 sent by the Agency, Well MW-D appears to satisfy the requirements for an upgradient well, unless the groundwater flow direction is found to be incorrectly determined.

4. It appears that Well MW-A may satisfy the requirement of a downgradient well of the surface impoundment. However, 2 additional RCRA downgradient wells are needed to meet the minimum requirements for 3 monitoring wells to ensure prompt detection of groundwater contamination.

7. Wells MW-A, B, C, and D were installed according to Agency specifications and procedures for the Superfund Remedial Investigation. Two of these wells will apparently be used in the RCRA groundwater program.

8.
& 9. A RCRA Sampling and Analysis Plan has not been developed or implemented by the facility. The TEGD should be used for guidance in the development of a Plan and it should be implemented according to the RCRA Closure letter to Van Tran dated July 18, 1988.

10. As indicated in previous inspections and in the July 18, 1988 letter, an outline and report should be prepared for a water quality assessment program, and implemented if contamination is present in the groundwater.

12.
&13. Although records have been kept of the groundwater elevations from wells at the facility, they have not been the result of required sampling from the RCRA regulations, 725.192 & 725.194.

Appendix A-2

At this time it is unknown whether the facility may be affecting groundwater quality. Additional sampling for hazardous constituents identified in the July 18, 1988 letter should indicate whether groundwater contamination is present.

Appendix A - CME Worksheet

I.A.1.a.
& b. Van Tran was initially a non-notifier facility and later filed for small quantity generator status. No RCRA Part A and Part B applications were filed.

I.A.1.e. The Superfund Remedial Investigation reports were reviewed prior to the inspection. However, it was learned at the inspection that a recently completed hydrogeologic report by Baker Engineers existed for the Superfund RI, but was unknown and unavailable to the RCRA program at the time of the inspection.

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I.A.1.f., g. & h. No RCRA Sampling and Analysis Plan, Groundwater Assessment Program Outline, or regional hydrogeologic reports exist for the facility.

I.B.1.b & c. They do not exist for the old wells, but these techniques were used for the 2 new RCRA wells being installed at the time of inspection.

I.B.1.f. The soil samples at the facility were analyzed for the Agency Hazardous Substance List (HSL) in the previous borings MW-A, B, C, and D and the 2 new RCRA wells currently being installed.

I.B.5. Hydrogeologic characteristics of the site need to be submitted for RCRA program review.

I.B.6.&7. Regional hydrogeologic characteristics need to be acquired and used to assist in verifying the locally observed hydrogeology. If differences exist, for instance, as has been indicated in groundwater flow directions, then reasons for this occurrence should be described in the narrative of the report.

I.C.1.c. One soil boring was drilled to the top of bedrock during the Superfund Remedial Investigation.

I.C.1.h. Although much of this information is not present on the field boring logs, it is described in the narrative that has accompanied the Remedial Investigation report.

I.E. Geologic cross sections of the site using the existing soil boring characteristics should be developed for the RCRA groundwater program. A topographic map from the surveys that were conducted at Van Tran should also be developed for the site.

I.F.1.b. Water level measurements were taken during the Remedial Investigation and at the Agency's request to verify groundwater flow direction.

I.F.1.i. & k. Potentiometric contour maps need to be constructed for the site, along with groundwater flow directions. Apparently, Rich Christensen of Baker Engineers indicated that much of the work has been accomplished and is contained in the recent hydrogeologic report, which the RCRA program has not yet received or reviewed.

I.F.2.b. & c. Groundwater flow direction documentation, as contained in the Baker report, has not been received or reviewed in the RCRA program.

I.F.3. Slug tests or pump tests have not yet been conducted at the facility. It has been indicated that these tests will be accomplished later this summer.

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I.F.4.a. The initial Superfund Remedial Investigation provided a basis for characterizing the uppermost aquifer for the facility property. The RCRA program has required additional characterization in relation to the surface impoundment.

I.G. There are currently 8 wells used for the Superfund Remedial Investigation on site. Two of these wells (MW-A and MW-D) will be allowed for use in establishing a RCRA groundwater program for the surface impoundment. Two new RCRA downgradient wells were being installed at the time of this inspection, in order to satisfy the minimum requirements.

I.H.1.c. The previous wells at the facility were installed as a result of a consent decree and court order. The new wells are being installed under Agency direction.

I.I. An assessment outline or plan has not been developed or implemented at the Van Tran facility. This section of the checklist is not applicable.

I.J.1.&3. Additional characterization of the subsurface geology and of the uppermost aquifer with relation to the RCRA regulation of the surface impoundment is required at Van Tran. Apparently, a recent hydrogeologic report was completed by Baker Engineers as a part of the Remedial Investigation for the site. However, this report was unknown and unavailable to the RCRA program at the time of this inspection.

I.J.2. Apparently, a groundwater flow direction discrepancy existed for the site with Baker results and the Agency contractor (Envirodyne). Although Baker Engineering claims that the problem has been resolved, reasons and documentation should be submitted to the RCRA program for review and approval.

I.J.4.b. RCRA groundwater samples have not yet been collected or analyzed. It is unknown if they will be representative of the groundwater quality until a Sampling and Analysis Plan has been implemented for the facility, and the Agency has an opportunity to observe the sampling techniques and review the results.

I.J.6. The detection monitoring system for the impoundment is not adequate to determine if assessment monitoring will be required. Additional detection monitoring wells were being installed at the time of inspection.

II. A field evaluation was conducted of the 8 existing Remedial Investigation wells on the site.

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III.,IV.,
V.,&VI. These are field related sections that will be completed from observations and evaluations made when Van Tran implements its Sampling and Analysis Plan. No RCRA sampling has yet occurred at the facility.

VIII. The facility does not currently have an Agency approved RCRA groundwater monitoring program or Sampling and Analysis Plan. The Agency has transmitted a letter to Van Tran on July 18, 1988 and in previous inspections specifically explaining what will be required in developing a RCRA groundwater program, prior to closure certification of the surface impoundment.

CVR:cas/0191L
Attachments

cc: DLPC - Collinsville
cc: Kenn Liss
cc: Bruce Carlson
cc: G. Tod Rowe

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

217/782-6761

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Refer to: LPC #0510350004 -- Fayette County
Vandalia/Van Tran Electric Corporation
ILD981093628
Subpart F

May 3, 1988

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MAY 05 1988
COLLINSVILLE OFFICE

Mr. Steve Parke
Van Tran Electric Corporation
7711 Imperial Drive
P.O. Box 20128
Waco, TX 76702-0128

Dear Mr. Parke:

This letter is in reference to the groundwater monitoring requirements of 35 Ill. Adm. Code, Part 725, Subpart F and the applicability of those regulations to the solvent pit located at the above referenced site. The solvent pit is accurately described by the definition of "surface impoundment" as listed in Section 720.110 and is herein referred to as the regulated unit.

Generally, Section 725.190 requires that the owner or operator of a regulated unit implement and maintain a groundwater monitoring program capable of determining an adverse impact to groundwater quality in the uppermost aquifer underlying the facility. Section 725.191 requires that the groundwater monitoring system include at least one well hydraulically upgradient and at least three wells hydraulically downgradient of the regulated unit. The downgradient wells must be installed at the limit of the waste management area.

Four wells designated MW-A through MW-D were installed at the site during April of 1987 in accordance with the conditions set forth in the Consent Plan dated March 1, 1987. Well MW-D appears to satisfy the requirements for an upgradient well as defined in Section 725.191(a). Well MW-A and the installation of at least two additional wells should satisfy the minimum requirements of Section 725.191(a)(2). With respect to well construction and placement of the new wells, the Agency recommends the following:

1) At least one well installed immediately downgradient of the regulated unit, but no greater than 30 feet from the limit of the waste management area. The well screen should be 10 feet in length and placed to allow two feet of screen above the water table surface.

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2) At least one well installed immediately downgradient of the regulated unit no less than 30 feet and no greater than 40 feet from the limit of the waste management area. The boring for this well, or wells, should extend to the top of the first clay unit beneath the saturated sand. The unit was described in earlier reports as a dark gray or blue, to light gray dense clay. The estimated depth to the clay unit is 35 to 40 feet below ground surface. The bottom of the screen in this zone should begin at the top of the clay unit and extend upwards for 10 feet. If the clay unit is not encountered, the bottom of the screen should be at an elevation that is no greater than 30 feet below the water table.

3) All new monitoring wells should be installed and constructed in accordance with the procedures and materials outlined on pages 3 and 4, Well Installation, of the January 1987 Envirodyne Engineers, Inc. submittal.

4) Well development should include the removal of a sufficient volume of groundwater from each well until the temperature, pH, and specific conductance readings have stabilized. Well development should be conducted no sooner than 48 hours after well completion.

5) The boring logs, well construction diagrams, and development information should be submitted to the Agency within 60 days of final well completion.

In addition to the above, the Agency requests that the owner or operator submit a sampling and analysis proposal for determining whether or not hazardous wastes or hazardous waste constituents from the regulated unit have entered the groundwater.

If you have any questions, please contact Kenneth W. Liss of my staff at 217/782-9890.

Sincerely,

Angela Aye Tin

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Division of Land Pollution Control

AAT:KWL:tk:2/17/11-2

cc: Division File
Chuck Reeter, Collinsville Region
Dennis Newman, RPMS
Tod Rowe, Permit Section
Kenn Liss
Nancy Mackiewicz, AGO
USEPA, Region V

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c. All new monitoring wells shall be installed and constructed in accordance with the procedures and materials outlined on pages 3 and 4, Well Installation, of the January 1987 Envirodyne Engineers, Inc. submittal.

d. Well development shall include the removal of a sufficient volume of groundwater from each well until the temperature, pH, and specific conductance readings have stablilized. Well development shall be conducted no sooner than 48 hours after well completion.

e. The boring logs, well completion diagrams, and development information shall be submitted to the Agency within 60 days of final well construction. Van Tran shall submit the attached "Well Completion Report" form (Attachment 3) for each well.

f. Within 15 days of well development as described in (d) above, monitoring wells MW-A, MW-D and all new wells installed in accordance with this closure plan must be sampled and analyzed for the parameters listed in Attachment 4, the Hazardous Substance List (HSL).

g. Within 45 days of the initial sampling required in (f) above, the groundwater monitoring wells will be resampled for the parameters listed in Attachment 4, the Hazardous Substance List (HSL).

h. The analytical results of all groundwater sampling events shall be submitted to the Agency within 15 days of the laboratory reporting date to the facility.

i. Within 90 days of the initial sampling event required in (f) above Van Tran must submit a groundwater assessment report which at a minimum meets the requirements of 35 IAC Subpart F, Section 725.193(d)(4) and includes the appropriate determination required in 35 IAC Section 725.193(d)(6) or (d)(7),

j. Depending on the determination of groundwater quality in (i) above, Van Tran must submit within 90 days of the initial sampling event a groundwater monitoring plan for continued detection or assessment monitoring of the regulated unit, to include at a minimum four quarterly sampling events.

k. If Van Tran cannot demonstrate "clean" closure (35 Ill. Adm. Code 725.328(a)(1)) for the surface impoundment, Van Tran shall provide post-closure care in accordance with 35 Ill. Adm. Code 725.328(a)(2) and (b) until such time that a 35 Ill. Adm. Code Part 724 post-closure care permit is effective that addresses the surface impoundment.

DATE: July 12, 1988

TIME: 12:58 p.m.

I.D. 0510350004 FOS

Fayette County

Vandalia/Van Tran Electric

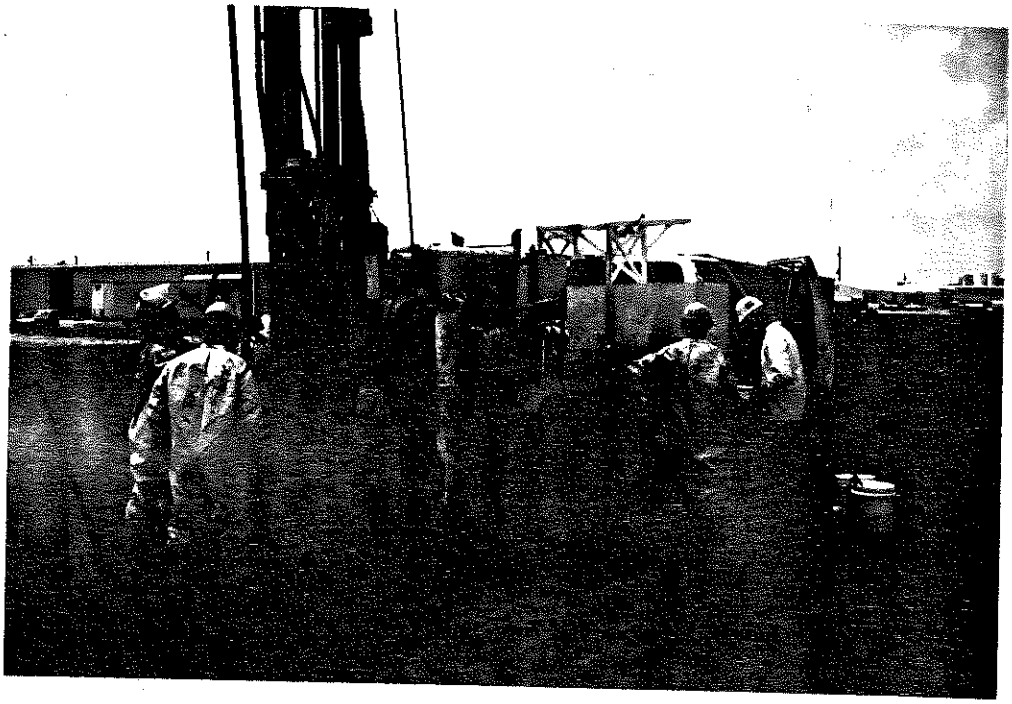
PHOTOGRAPH TAKEN TOWARD THE:

Southwest

ROLL# 892 PHOTO# 6

PHOTOGRAPH BY:

Charles Reeter



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AUG 0 1 1988

IEPA-DLPC

DATE: July 12, 1988

TIME: 1:02 p.m.

I.D. 0510350004 FOS

Fayette County

Vandalia/Van Tran Electric

PHOTOGRAPH TAKEN TOWARD THE:

South Southwest

ROLL# 892 PHOTO# 7

PHOTOGRAPH BY:

Charles Reeter

IL 532-0603
L/NPC 24 (Rev. 4/87)

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AUG 0 1 1988

IEPA-DLPC

DATE: July 12, 1988

TIME: 1:06 p.m.

I.D. 0510350004 FOS

Fayette County

Vandalia/Van Tran Electric

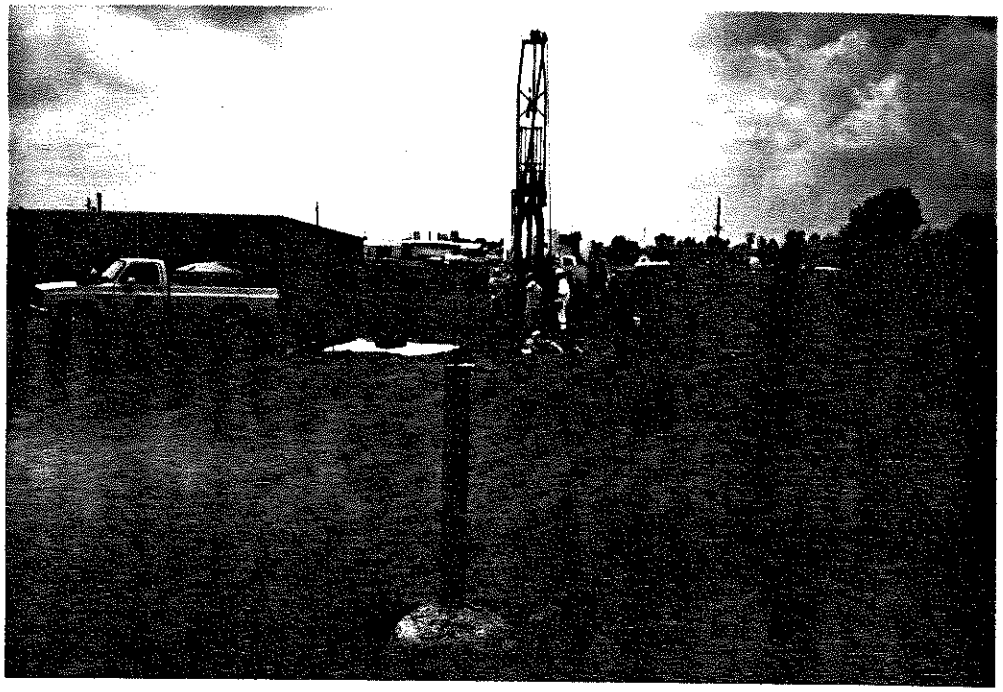
PHOTOGRAPH TAKEN TOWARD THE:

West Southwest

ROLL# 892 PHOTO# 8

PHOTOGRAPH BY:

Charles Reeter



DATE: July 12, 1988

TIME: 1:12 p.m.

I.D. 0510350004 FOS

Fayette County

Vandalia/Van Tran Electric

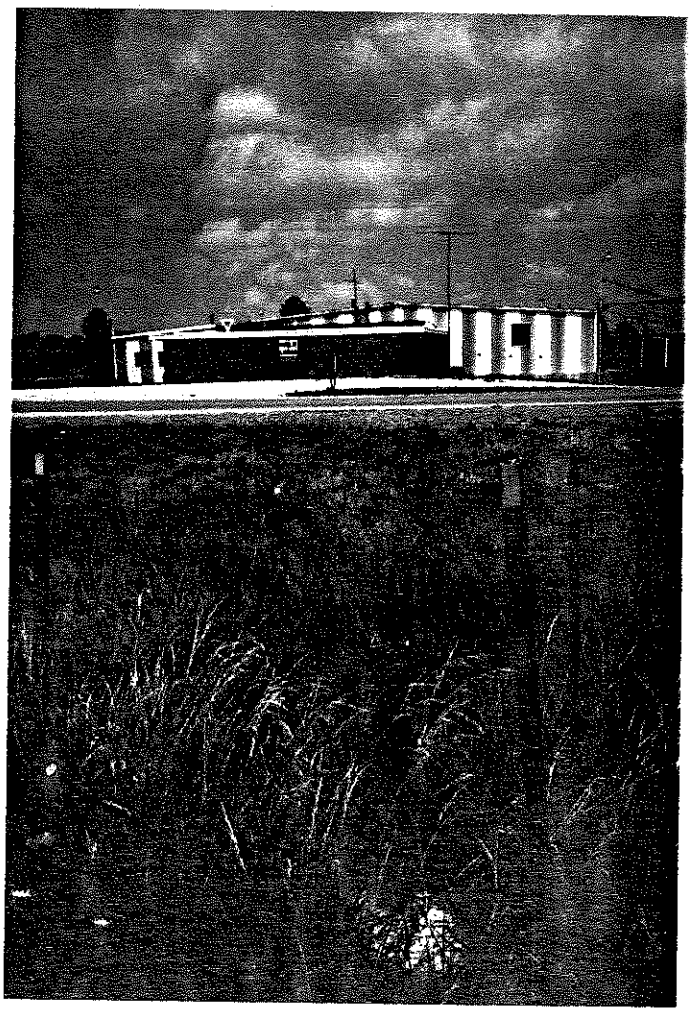
PHOTOGRAPH TAKEN TOWARD THE:

North

ROLL# 892 PHOTO# 9

PHOTOGRAPH BY:

Charles Reeter



IL 532-0603
L/NPC 24 (Rev. 4/87)

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AUG 0 1 1988

IEPA-DLPC

TE: July 12, 1988

ME: 1:15 p.m.

D. 0510350004 FOS

Fayette County

Vandalia/Van Tran Electric

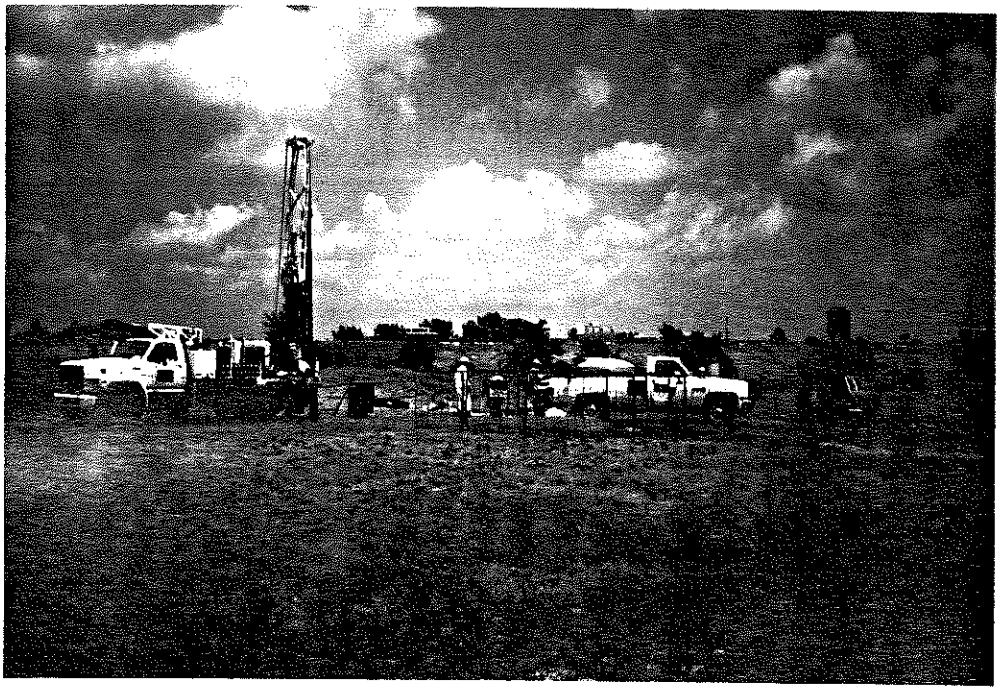
OTOGRAPH TAKEN TOWARD THE:

Northeast

LL# 892 PHOTO# 10

OTOGRAPH BY:

Charles Reeter



'E: July 12, 1988

IE: 1:17 p.m.

'. 0510350004 FOS

Fayette County

Vandalia/Van Tran Electric

TOGRAPH TAKEN TOWARD THE:

Southeast

L# 892 PHOTO# 11

TOGRAPH BY:

Charles Reeter

IL 532-0603
L/NPC 24 (Rev. 4/87)

ATE: July 12, 1988

IME: 1:18 p.m.

.D. 0510350004 FOS

Fayette County

Vandalia/Van Tran Electric

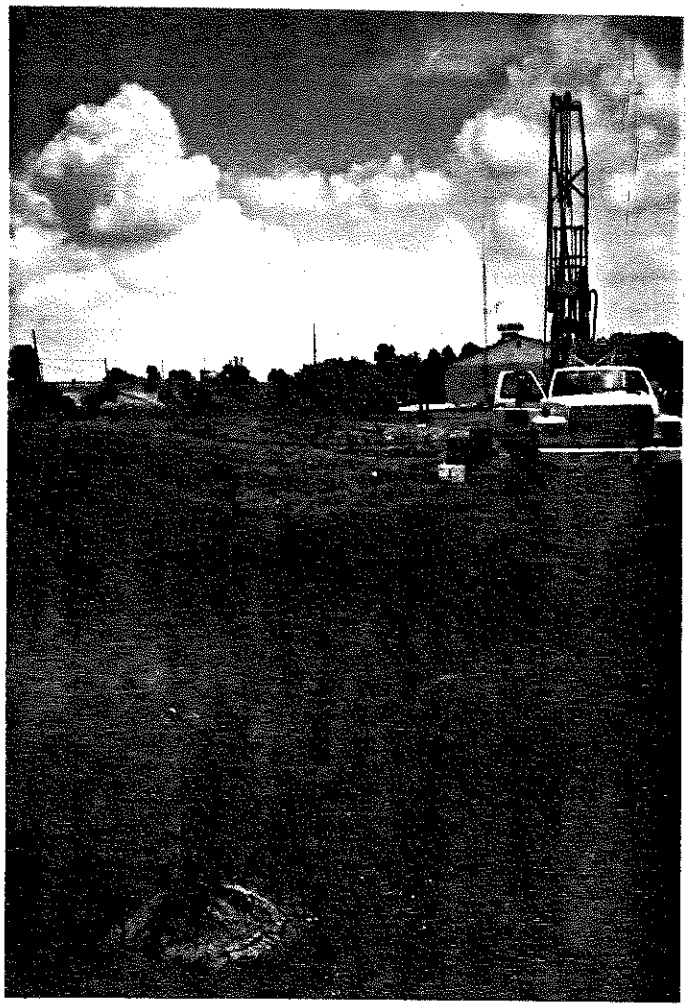
HOTOGRAPH TAKEN TOWARD THE:

East

OLL# 892 PHOTO# 12

HOTOGRAPH BY:

Charles Reeter



ATE:

IME:

.D.

County

HOTOGRAPH TAKEN TOWARD THE:

OLL# PHOTO#

HOTOGRAPH BY:

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L/NPC 24 (Rev. 4/87)

USEPA

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to: LPC #0510350004 -- Fayette County
Vandalia/Van Tran Electric Corporation
ILD981093628
Subpart F

May 3, 1988

Mr. Steve Parke
Van Tran Electric Corporation
7711 Imperial Drive
P.O. Box 20128
Waco, TX 76702-0128

Dear Mr. Parke:

This letter is in reference to the groundwater monitoring requirements of 35 Ill. Adm. Code, Part 725, Subpart F and the applicability of those regulations to the solvent pit located at the above referenced site. The solvent pit is accurately described by the definition of "surface impoundment" as listed in Section 720.110 and is herein referred to as the regulated unit.

Generally, Section 725.190 requires that the owner or operator of a regulated unit implement and maintain a groundwater monitoring program capable of determining an adverse impact to groundwater quality in the uppermost aquifer underlying the facility. Section 725.191 requires that the groundwater monitoring system include at least one well hydraulically upgradient and at least three wells hydraulically downgradient of the regulated unit. The downgradient wells must be installed at the limit of the waste management area.

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2) At least one well installed immediately downgradient of the regulated unit no less than 30 feet and no greater than 40 feet from the limit of the waste management area. The boring for this well, or wells, should extend to the top of the first clay unit beneath the saturated sand. The unit was described in earlier reports as a dark gray or blue, to light gray dense clay. The estimated depth to the clay unit is 35 to 40 feet below ground surface. The bottom of the screen in this zone should begin at the top of the clay unit and extend upwards for 10 feet. If the clay unit is not encountered, the bottom of the screen should be at an elevation that is no greater than 30 feet below the water table.

3) All new monitoring wells should be installed and constructed in accordance with the procedures and materials outlined on pages 3 and 4, Well Installation, of the January 1987 Envirodyne Engineers, Inc. submittal.

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5) The boring logs, well construction diagrams, and development information should be submitted to the Agency within 60 days of final well completion.

In addition to the above, the Agency requests that the owner or operator submit a sampling and analysis proposal for determining whether or not hazardous wastes or hazardous waste constituents from the regulated unit have entered the groundwater.

If you have any questions, please contact Kenneth W. Liss of my staff at 217/782-9890.

Sincerely,

Angela Aye Tin

Angela Aye Tin, Manager
Technical Compliance Unit
Compliance Section
Division of Land Pollution Control

AAT:KWL:tk:2/17/11-2

cc: Division File
Chuck Reeter, Collinsville Region
Dennis Newman, RPMS
Tod Rowe, Permit Section
Kenn Liss
Nancy Mackiewicz, AGO
USEPA, Region V

M E M O R A N D U M

DATE: July 27, 1987

TO: Division File, DLPC

FROM: Chuck Reeter, DLPC, Collinsville

Chuck Reeter

SUBJECT: 0510350004 - Fayette County - Vandalia/Van Tran Electric
ILD981093628
Subpart F GWM Inspection

An annual Subpart F groundwater monitoring inspection (CME) was conducted at the Van Tran Electric Corporation facility on July 23, 1987. I was accompanied by Randy Ballard of the IEPA-Collinsville Office during the inspection. Upon our arrival at the facility at about 12:50 p.m., we were met by Van Tran representative Steve Parke from Waco, Texas, Vice-President and Compliance Officer, Bob Smith, Plant Supervisor, and Jerry Little, Office Manager.

Prior to the discussion, I handed Mr. Parke new versions of the Illinois Environmental Protection Act and Subtitle G, waste disposal regulations. I asked Mr. Parke to briefly describe the current waste management practice at the facility, since the surface impoundment pit is no longer utilized. Mr. Parke explained that only xylene solvents were being used for paint booth and transformer cleaning and that the majority of the solvent was being recycled. That which was disposed of was accumulated in a drum for disposal or reclaiming. Mr. Parke explained that since they have small quantities it would be difficult to reclaim the solvents and consequently, the wastes had been stored at the facility for much longer than 90 days. I told Mr. Parke that these issues would be discussed in greater detail at the upcoming annual ISS inspection.

I asked Mr. Parke about the Superfund Remedial Investigation (RI) that was occurring at the facility. Mr. Parke said that 4 new wells had been installed, 3 of which were considered downgradient on the North side of the property and 1 on the South side which was considered upgradient. I and everyone at the inspection found it unusual that the groundwater flow went from South to North, which was contrary to the topographic drainage and regional groundwater flow patterns. Since groundwater flow at the facility was established from only 1 measurement of the water levels in the original 4 perimeter wells (legal) installed in 1985, I strongly recommended that Van Tran take periodic measurements of the water levels in the 8 wells at the facility either once every 2 weeks or monthly. Accurate groundwater flow information would be needed to be able to meet the RCRA Subpart F requirements of 1 upgradient and 3 downgradient wells, immediately adjacent to the disposal pit. Refer to the attached diagram for well locations.

Apparently, the Remedial Investigation wells had been sampled only once for PCB's and metals. No solvents that were previously handled at the facility and that were listed on the Part A were sampled for in the wells. No groundwater records or data were kept at the facility.

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The RCRA Subpart F groundwater regulations were discussed at length with the Van Tran representatives, and it was suggested to Mr. Parke that he obtain a copy of the USEPA Groundwater Technical Enforcement Guidance Document (TEGD) for future reference. A copy of the Agency well construction diagram was given to Mr. Parke. Much of the work done for the Remedial Investigation, such as soil and geologic studies, aquifer characterization, well installation, etc. could be used for the preparation of a RCRA groundwater monitoring plan. However, not all of the apparent violations of regulations would be resolved, because many of the requirements would not be fulfilled. For instance, although 8 wells currently exist at the facility, 3 are not located immediately adjacent to the waste management (pit) boundary, as required by the regulations. Nor have the wells been sampled for background analyses or any organic constituents other than PCB's, which were found at the facility in the soil and waste (Benzene, Toluene, Xylene, Alcohols, MEK, etc.)

The inspection checklist was explained to Mr. Parke and a "blank" one was given to him to use as a guide in the preparation of a GWM program at his facility.

The groundwater deficiencies identified in the Closure Plan denial letter from the Agency dated June 4, 1986 were discussed with Mr. Parke. Item #9 specifically states that "A groundwater monitoring and assessment program to detect any contaminants emanating from the surface impoundment must be proposed and implemented upon approval by the Agency."

After the office discussions, we continued on with a field inspection of the site and the RI groundwater wells. The 4 original Van Tran wells appeared to be intact with protective steel casing and PVC well casing. No PVC caps were on the wells, and I recommended that vented PVC caps be placed on the casing to prevent rust from entering the well. The surface seals on the 4 new RI wells (A, B, C & D) were severely cracked and I recommended to Mr. Parke that they be re-cemented to prevent surface or overland flow from entering the borehole. I also told Mr. Parke that he should notify the Superfund project manager or those conducting the RI prior to taking such action. The new wells were constructed of stainless steel. Photos were taken at each of the wells at the facility.

Prior to departing the facility at about 3:15 p.m., Mr. Parke was informed that the previously charged apparent Subpart F violations would remain in effect until Van Tran proposes and implements a RCRA groundwater program, according to the regulations. Mr. Parke said that he would have his consultants, Baker Engineering, work on a RCRA Groundwater Plan and Sampling and Analysis Plan. Assuming that Van Tran follows through with those submittals, some or many of the previously charged Subpart F violations can be resolved.

CVR:cas/0219L
Attachment
cc: DLPC - Collinsville
cc: Steve Davis
cc: Bruce Carlson
cc: Gary King, EDG
cc: Chris Liebman

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AUG - 3 1987
IEPA/DLPC

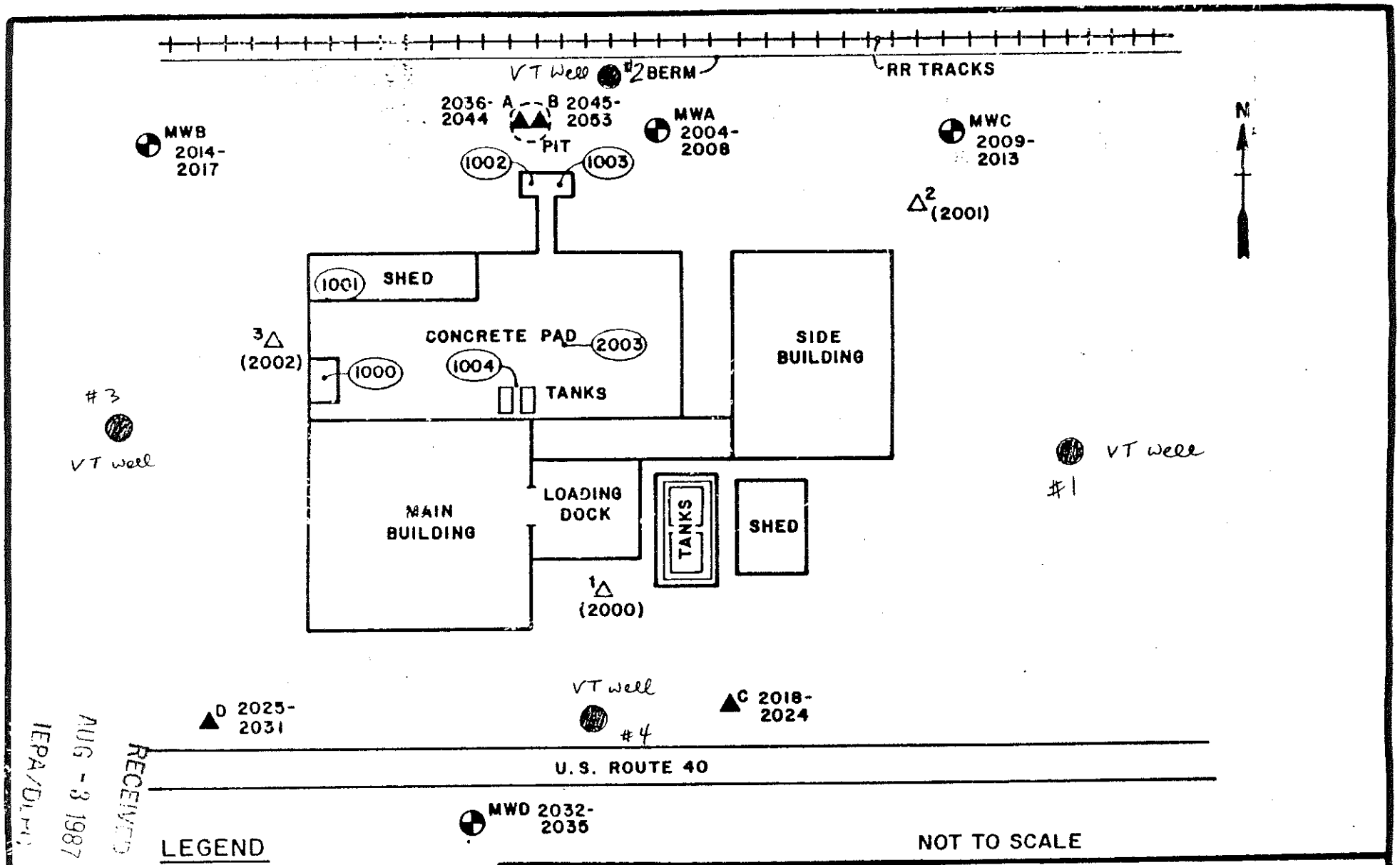

FIGURE I

Approximate Sample Collection Locations

VAN TRAN ELECTRIC

RECEIVED AUG -3 1987 IEPA/DLPC