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STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

RUSSELL J. HARDING, Director

REPLY TO:

ENVIRONMENTAL RESPONSE DIVISION
KNAPPS CENTRE
PO BOX 30426
LANSING MI 48909-7926

October 30, 1996

Ms. Diane Hazen, Director
Romulus Public Library
(Repository)
11121 Wayne Rd.
Romulus, MI 48174

Mr. Eric C. Anderson, Geologist
Wayne County Department of Environmental
Land Resource Management Division
5454 S. Venoy
Wayne, MI 48184

Ms. Margaret A. Leduc
Emergency Management
City of Romulus
28777 Eureka Rd.
Romulus, MI 48174

Dr. William Bedell, Superintendent
City of Romulus Community Schools
36450 Grant Rd.
Romulus, MI 48174

Mr. Ralph Dollhopf
U.S. EPA Agency
Emergency Response #1
9311 Groh Road
Gross Isle, MI 48138

SUBJECT: Dump Near Wick Elementary School Site, Romulus, MI, Wayne County
Interim Response II (Drum Removal) Activities

Enclosed is a copy of the Final Drum Removal Program Technical Memorandum #1 and Perimeter Air Monitoring Report dated September 1996 under the Interim Response Phase II Activities, for the above referenced site. The report has been prepared by ABB Environmental Services, Inc. for the Michigan Department of Environmental Quality and summarizes the field investigations and laboratory data pertaining to the drum removal that was completed at the site. This report has been reviewed and approved by the MDEQ and is for your records. If you have any questions, I can be contacted at 313-953-1462.

Sincerely,

Karen D. Thomas

Karen D. Thomas, Project Manger

Enclosure

cc: Mr. Daniel Argentati, ABB
Mr. Oladipo Oyinsan, ERD, MDEQ
Ms. Mary Vanderlaan, ERD, MDEQ

EQP 0100e
(10/95)

DRUM REMOVAL PROGRAM
TECHNICAL MEMORANDUM NO. 1
AND
PERIMETER AIR MONITORING REPORT

INTERIM RESPONSE PHASE II
DUMP NEAR WICK ELEMENTARY SCHOOL
Romulus, Michigan

RECEIVED ERD S.E. MICH.
OCT 28 1996
FILE
COUNTY

Prepared For:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

CONTRACT NUMBER ERD-9477
PROJECT NUMBER 9252-01

SEPTEMBER 1996

ABB Environmental Services, Inc.

DRUM REMOVAL PROGRAM
TECHNICAL MEMORANDUM NO. 1

RECEIVED ERD S.E. MICH.
OCT 28 1996
FILE
COUNTY

DUMP NEAR WICK ELEMENTARY SCHOOL
ROMULUS, MICHIGAN

PROJECT NO. 9252-01

SEPTEMBER 1996

TECHNICAL MEMORANDUM NO. 1

PROJECT: Interim Response Phase II - Dump Near Wick Elementary School

SUBJECT: Drum Removal Program

PREPARED BY: Dan Argentati/ABB Environmental Services of Michigan, Inc.

INTRODUCTION

The purpose of this technical memorandum is to describe the drum removal activities conducted by ABB Environmental Services of Michigan, Inc. (ABB), as an interim response measure, at the Dump Near Wick Elementary School (Wick) site. This work was conducted through Contract No. ERD #9477 with the State of Michigan under the direction of the Michigan Department of Environmental Quality (MDEQ). This task was performed as described in the approved project Work Plan (August 1995) under Contract Order Number Y-50096, unless otherwise noted. The overall project objective for the project is to remove and dispose of drums observed at the surface and within test pit area TP-16.

SCHEDULE

Site facilities (a trailer and portable toilet) were delivered to the site the week of November 20, 1995. Drum removal, staging, and sampling was conducted from December 28, 1995 through January 6, 1996. Background air monitoring and site perimeter air monitoring were conducted from December 26, 1995 through January 6, 1996. Transport of the drums to an off-site facility for disposal was conducted on May 2, 1996.

PERSONNEL

Personnel from ABB and the MDEQ were on-site to oversee the drum removal program. City Environmental Contracting, Inc., (CEC) from Detroit, Michigan, provided personnel and equipment to perform the drum removal, staging, sampling, and transport and disposal of the wastes. Andre Casavant from ARC Consulting performed the background and perimeter air monitoring. The following is a list of individual names and functional titles for the personnel.

ABB

Dan Argentati	Site Manager
Dave Belan	Field Operations Leader (FOL)
Mike Zack	Field Operations Assistant
John Panco	Field Operations Assistant

MDEQ

Karen Thomas	Project Manager
Steve Hoin	Project Geologist

CEC

Mark Lombardi	Site Superintendent
Syed Masood Rizvi	Site Manager
Francis Castellano	Field Supervisor
Robert Houston	Back-Hoe Operator
Chris Lombardi	Back-Hoe Operator
Terry Fable	Loader Operator
Rich Smith	Sampling Technician
Bob Wayne	Sampling Technician
Amy Bellas	Waste Disposal Coordinator

ARC

Andre Casavant	Perimeter Air Monitoring

FIELD PROCEDURES

Prior to conducting the drum removal program, ABB retained the state-licensed surveying firm of Atwell-Hicks, Inc., to re-survey and replace grid node markers that are were missing from the original grid established in February 1994. The grid consists of a 100-by-100-foot staked area covering approximately 70 acres. Wooden stakes numbered sequentially were placed along east/west lines every 100 feet. The

numbering system marked on the stakes was subsequently used to identify and locate on a map and in the field areas where surface drums were present.

In addition to re-establishing the grid, the surveyor identified and set property corners for Wick site boundary (City of Romulus Property) and the two adjacent properties situated along the northeastern edge of the Wick site boundary. The surveyor prepared a scaled map of the property survey illustrating property boundaries for the parcels of interest.

After the grid was re-established, the MDEQ and ABB met on-site to mark the areas where empty drums, and also those with partial contents, were located. In addition, an approximate 20-by-20-foot area was also staked at test pit location TP-16 where buried drums were identified during the Phase I field program conducted in February 1995. The staking of these areas prior to the drum removal activities allowed ABB to plot the scattered drum locations on a map to develop a systematic approach to removing the drums (Plate 1).

The surface drum removal began along the southern portion of the site and progressed to the north. In addition, buried drums were removed from test pit TP-16 during the same field event. As the surface drums were removed, CEC transported them with a loader to the drum staging area. Drums found with partial contents were then sampled and placed into overpack containers at the drum staging area. Empty drums were crushed and placed into rolloff boxes located at the temporary staging area. The buried drums removed from the test pit location were sampled and placed into overpacks adjacent to the test pit, and then transported by CEC with a loader to the drum staging area.

ARC's perimeter air monitoring and meteorological data collected during the drum removal program are presented in a related document submitted by ABB entitled, "Perimeter Air Monitoring Report," May 1996.

Test Pit - During the test pitting activity, an exclusion zone was established. Outside the exclusion zone, a support area was established where support equipment including a decontamination station (for personnel and small equipment), breathing air, drum sampling equipment and sample bottles were staged. Ambient conditions within the exclusion zone were monitored by the FOL for the following parameters:

- Total volatile organic compounds (VOCs) using an HNu Model P-101 photoionization detector (PID) equipped with a 10.2 electron volt lamp;

- Lower explosive limit, percent oxygen, and hydrogen sulfide using a Neotronics Exotox Model 50;

- Hydrogen cyanide using an MDA Monitox Personal Alarm; and

- Radiation using a Radiation Alert Monitor 4 detector.

In addition, high-risk personnel (i.e., those inside the exclusion zone) were outfitted daily with a 3M Passive Air Sampling Badge to monitor for exposure to selected organic compounds.

The test pit was excavated using a backhoe. Upon starting the test pit, the track-hoe scraped the ground surface lightly to assess whether drums were present near the surface and to remove the existing landfill cover. The existing cover was segregated from the other excavated materials. Stockpiled material was sequentially replaced into the excavation with the segregated cover material at the surface.

When removing a drum, the track-hoe bucket was first used to unearth the drum and remove it from the test pit. Sampling of the drums was conducted after all the drums from the test pit were removed.

The samples were collected using stainless-steel spoons and placed directly into laboratory containers at the test pit location. Filled sample containers were decontaminated and placed on ice in a cooler for laboratory pick up the following day.

Personal Protective Equipment (PPE) and plastic sheeting used during the test pitting activities were placed into overpack drums and labeled as such. All drums removed from the test pit were placed into labeled overpack containers and temporally staged to the side of the test pit. Prior to demobilizing from the test pit area, all overpack containers were transported to the temporary drum staging area.

Surface Drum Removal - In addition to conducting the test pit, exposed surface drums that were scattered throughout the site were removed, sampled, and staged during the field program. Prior to conducting the

surface drum removal, the MDEQ and ABB conducted a site walkover (on December 14 and 18, 1995) to identify surface drum locations. During the walkover, the drums were visually inspected (when possible depending on the position of the drum) to assess whether they were empty or may contain waste material. The locations of the drums were marked in the field with flagging and recorded in the field book.

Surface drums that were identified as being empty were removed first. The empty drums were placed into a front-end loader and transported to an on-site rolloff box for subsequent disposal. Following the removal of the empty drums, the field crews began removing drums identified as having partial contents, starting at the south end of the site and working towards the north end. Generally, a backhoe and a front-end loader were used to remove and transport the drums to the staging area. A backhoe was used to lift the surface drum off of the ground and place it in an adjacent front-end loader to transport it to the staging area.

Samples of the drums contents were collected at the staging area. In cases where several drums appeared to contain the same type of waste, (based on visual observations), a composite sample was collected. After a sample was collected, the drum was placed into an overpack container. The overpack was labeled with the sample designation and a description of the drums contents (i.e., solid, liquid, sludge, color, etc.).

Waste Disposal - Based on the analytical results, the overpacks were transported to either CEC's Frederick Street facility in Detroit, Michigan, or to Michigan Recovery Systems, Inc. (MRS) in Romulus, Michigan, by CEC and Davison Disposal Services, Inc., respectively. MRS received the wastes that were found to be flammable under the Hazardous Waste Characteristics analysis. All other overpacks, including those which were hazardous for Toxicity Characteristic Leaching Procedures (TCLP) metals, were transported to CEC's Frederick Street facility. The rolloff boxes containing the empty drums were also transported by CEC to their Frederick Street facility.

RESULTS

Plate 1 illustrates the location of test pit TP-16 and the approximate locations where surface drums with partial contents were removed.

A total of 160 five-gallon cans with partial contents were removed from test pit TP-16. The excavation measured approximately 20-by-20-feet square by 6 feet deep. Of the 160 cans, 122 of the cans contained a

paint-like waste that was semi-liquefied. The remaining 38 cans contained a translucent brown gel substance. Two composite samples of the paint-like waste were collected, and one sample plus a duplicate of the gel substance were collected and submitted for laboratory analysis.

A total of 513 empty surface drums were removed from the site and temporarily placed into rolloff boxes. A total of 159 surface drums with partial contents, ranging in size from 5-gallons to 55-gallons, were removed from the site.

Sample analyses were conducted by Trimatrix Analytical Services, Inc., in Grand Rapids, Michigan. Table TM1-1 presents the general observations of each of the drums with partial contents that were removed. Table TM1-2 (TM1-2A through TM1-2E) presents the analytical results for the drums contents.

TABLE TM1-1
DRUM SAMPLE OBSERVATIONS
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
(DECEMBER 1995 THROUGH JANUARY 1996)

DRUM ID			OBSERVATIONS
DR-106-01			Brown soil-like substance
DR-141-01			Green, paint-like substance
DR-141-02			Black, wood-ash material
DR-141-03			Black oil-like liquid
DR-141-04			Yellow grease-like substance, translucent
DR-141-05			Similar to dried paint, rubber-like, yellow
DR-141-06	DR-141-08	DR-141-09A	Black, grease-like gel
DR-141-09B	DR-141-10	DR-141-11	
DR-141-12	DR-141-13	DR-141-16	
DR-141-07			Black, solid substance, layered-like schist
DR-141-14			Yellow to brown grease-like substance
DR-141-15			Reddish-black, semi-wet paint-like substance
DR-141-17	DR-141-19	DR-287-01	Black, semi-liquid, paint-like substance
DR-287-02	DR-287-03	DR-287-04	
DR-287-05	DR-287-06	DR-287-07	
DR-287-08			
DR-141-18			Solid substance, tan
DR-141-20			Solid substance, white and yellow
DR-163-01			Dark brown soil-like substance
DR-163-02			Paint-like substance
DR-163-03			
DR-163-04			
DR-171-01			Dark brown rubber-like material
DR-265-12			
DR-265-13			
DR-181-01			Soil mixture with brown to black staining
DR-263-02	DR-263-01	DR-263-04	White powder substance, dry, some reddish staining
DR-263-05	DR-263-06	DR-263-07	
DR-263-08	DR-263-09	DR-263-10	
DR-263-11	DR-263-12	DR-263-13	
DR-263-14	DR-263-29	DR-263-31	
DR-263-32	DR-263-33	DR-263-34	
DR-263-35	DR-263-36	DR-263-37	
DR-263-38	DR-263-39	DR-263-40	
DR-263-41	DR-263-42	DR-263-43	
DR-263-44	DR-265-01	DR-265-02	
DR-265-03	DR-265-04		

TABLE TM1-1
DRUM SAMPLE OBSERVATIONS
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
(DECEMBER 1995 THROUGH JANUARY 1996)

DRUM ID			OBSERVATIONS
DR-263-03	DR-348-01	DR-431-01	Soft, brown, rubber-like waste
DR-335-01	DR-348-02	DR-431-02	
DR-342-01	DR-391-01	DR-N-01	
DR-342-02	DR-426-01	DR-N-02	
DR-300-01			
DR-263-17			Black oil-like liquid
DR-263-18			Soft, putty-like substance, tan
DR-263-20	DR-263-15	DR-263-16	Soft, putty-like substance, black
DR-263-21	DR-263-22	DR-263-23	
DR-263-25	DR-265-06	DR-265-07	
DR-265-08	DR-265-09	DR-265-10	
DR-265-14	DR-265-16	DR-265-17	
DR-265-19	DR-265-20	DR-265-21	
DR-265-23	DR-265-24	DR-265-25	
DR-287-09	DR-287-10	DR-383-01	
DR-383-02	DR-388-01	DR-390-01	
DR-390-02	DR-390-03	DR-390-04	
DR-390-05	DR-N-04		
DR-263-24			Soft, putty-like substance, grey to brown
DR-263-28			
DR-263-30			
DR-265-15			
DR-263-26			Brown, oily-like waste
DR-263-27			Grey, paste-like substance
DR-265-05			Green powder, dry
DR-265-11			Black powder, dry
DR-265-18			Soft, putty-like substance, black
DR-265-22			Black and white mixed powder, coagulated
DR-291-01			Grey, layered, dry, powder
DR-335-02			Solidified paint-like material, red
DR-335-03			
DR-341-01			Grey powder
DR-370-01			Putty-like substance, red
DR-377-01			
DR-397-03			Grey, semi-solid material
DR-397-01			
DR-397-02			

TABLE TM1-1
DRUM SAMPLE OBSERVATIONS
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
(DECEMBER 1995 THROUGH JANUARY 1996)

DRUM ID			OBSERVATIONS
DR-410-06	DR-410-02	DR-395-01	Green, paint-like liquid
DR-409-01	DR-410-03	DR-410-07	
DR-409-02	DR-410-04	DR-417-01	
DR-410-01	DR-410-05		
DR-TONG-01			Solid, black, glassy, slag-like
DR-TONG-02			
DR-TONG-03			
DR-TONG-04			Bright green powder
DR-TONG-05			
DR-395-02			
DR-N-03			Grey, putty-like, some fiber texture
DR-424-01			
TP-16-96-01			Rubber to gel-like material, brown
TP-16-96-02			Paint-like liquid, red, green, blue, black, white, yellow
TP-16-96-03			

- Shading indicates sample that was submitted for laboratory analysis.

TABLE TM1-2A
ANALYTICAL RESULTS FOR WASTE
(TP-16-96-01 through DR-141-05)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		TP-16-96-01	TP-16-96-100 duplicate of TP-16-01	TP-16-96-02	TP-16-96-03	DR-106-01	DR-141-01	DR-141-02	DR-141-03	DR-141-04	DR-141-05
Sample Description:		Rubber to gel like material, brown		Paint like liquid, red, green, blue, black, white, yellow	Paint like liquid red, green, blue, black, white, yellow	Brown soil like substance	Green, paint like substance	Black, wood-ash like material	Black oil like liquid	Yellow grease like substance, translucent	Similar to dried paint, rubber like, yellow
Volatile 8260	**Units**										
Acetone	mg/kg	100,000 U	100,000 U	50,000 U	50,000 U	1,000 U	130 U	50 U	130 U	50 U	50 U
Benzene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Bromodichloromethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Bromoform	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Bromomethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
2-Butanone (MEK)	mg/kg	100,000 U	100,000 U	50,000 U	50,000 U	1,000 U	130 U	50 U	130 U	50 U	50 U
Carbon Disulfide	mg/kg	4,000 U	4,000 U	2,000 U	2,000 U	40 U	5.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Carbon Tetrachloride	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Chlorobenzene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Chloroethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
2-Chloroethyl Vinyl Ether	mg/kg	20,000 U	20,000 U	10,000 U	10,000 U	200 U	25 U	10 U	25 U	10 U	10 U
Chloroform	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Chloromethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Dibromochloromethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,1-Dichloroethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,2-Dichloroethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,1-Dichloroethylene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,2-Dichloroethylene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,2-Dichloropropane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
cis-1,3-Dichloropropylene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Ethylbenzene	mg/kg	**63,000**	**55,000**	**28,000**	**37,000**	**720**	**7.2**	1.0 U	**28**	**2.1**	**2.1**
2-Hexanone	mg/kg	100,000 U	100,000 U	50,000 U	50,000 U	1,000 U	130 U	50 U	130 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)	mg/kg	100,000 U	100,000 U	50,000 U	50,000 U	1,000 U	130 U	50 U	130 U	50 U	50 U
Methylene Chloride	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Styrene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Tetrachloroethene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,1,1-Trichloroethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	**21**	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
1,1,2-Trichloroethane	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Trichloroethene	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Toluene	mg/kg	**2,600**	**2,400**	**1,500**	**1,500**	**260**	**5,700**	**1.1**	**20**	**1.8**	1.0 U
Vinyl Acetate	mg/kg	4,000 U	4,000 U	2,000 U	2,000 U	40 U	5.0 U	2.0 U	5.0 U	2.0 U	2.0 U
Vinyl Chloride	mg/kg	2,000 U	2,000 U	1,000 U	1,000 U	20 U	2.5 U	1.0 U	2.5 U	1.0 U	1.0 U
Xylenes, Total	mg/kg	**360,000**	**320,000**	**180,000**	**210,000**	**5,900**	**43**	**8.0**	**230**	**21**	**20**
TCLP Volatile Organic Compounds											
Benzene	mg/L	**0.12 J**	0.10 UJ	0.10 U	0.10 U	0.001 U	**0.11**	0.001 U	0.50 U	**0.001**	**0.001**
Carbon Tetrachloride	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	0.001 U	0.001 U
Chloroform	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	**0.001**	**0.001**
1,2-Dichloroethane	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	0.001 U	0.001 U
1,1-Dichloroethylene	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	0.001 U	0.001 U
2-Butanone (MEK)	mg/L	5.0 U	5.0 U	5.0 U	**5.1**	0.050 U	5.0 U	0.050 U	25 U	0.050 U	0.050 U
Tetrachloroethene	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.001 U	0.10 U	0.001 U	0.50 U	0.001 U	0.001 U
TCLP Semi-Volatile Compounds											
1,4-Dichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
2,4-Dinitrotoluene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
Hexachlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
Hexachlorobutadiene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
Hexachloroethane	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
Nitrobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
Pentachlorophenol	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
2,4,6-Trichlorophenol	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
2,4,5-Trichlorophenol	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U
2-Methylphenol	mg/L	**0.019**	**0.015**	**0.020**	**0.017**	0.010 U	**0.15**	0.010 U	4.5 U	0.010 U	5.0 U
3 & 4 Methylphenol	mg/L	0.005 U	0.005 U	**0.043**	**0.014**	0.010 U	**0.15**	0.010 U	4.5 U	**0.016**	5.0 U
Pyridine	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.010 U	0.010 U	0.010 U	4.5 U	0.010 U	5.0 U

TABLE TM1-2A
ANALYTICAL RESULTS FOR WASTE
(TP-16-96-01 through DR-141-05)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		TP-16-96-01	TP-16-96-100 duplicate of TP-16-01	TP-16-96-02	TP-16-96-03	DR-106-01	DR-141-01	DR-141-02	DR-141-03	DR-141-04	DR-141-05
Sample Description:		Rubber to gel like material, brown		Paint like liquid, red, green, blue, black, white, yellow	Paint like liquid red, green, blue, black, white, yellow	Brown soil like substance	Green, paint like substance	Black, wood-ash like material	Black oil like liquid	Yellow grease like substance, translucent	Similar to dried paint, rubber like, yellow
Base Neutral Compounds											
Acenaphthene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Acenaphthylene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Anthracene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Benzo (a) Anthracene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Benzo (a) Pyrene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Benzo (b&k) Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Benzo (g,h,i) Perylene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Benzoic Acid	mg/kg	500 U	500 U	500 U	500 U	5,000 U	500 U	500 U	500 U	500 U	2,500 U
Benzyl Alcohol	mg/kg	500 U	500 U	500 U	500 U	5,000 U	500 U	500 U	500 U	500 U	2,500 U
Bis (2-Chloroethoxy) Methane	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Bis (2-Chloroethyl) Ether	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Bis (2-Chloroisopropyl) Ether	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Bis (2-ethylhexyl) Phthalate	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	**170**
4-Bromophenyl Phenylether	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	**130** U
Butyl Benzyl Phthalate	mg/kg	25 U	25 U	25 U	25 U	**610**	25 U	25 U	25 U	25 U	**150**
4-Chloro-3-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
4-Chloroaniline	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2-Chloronaphthalene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2-Chlorophenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
4-Chlorophenylphenyl-Ether	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Chrysene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Di-n-Butylphthalate	mg/kg	**99**	**110**	**480**	25 U	250 U	25 U	25 U	25 U	25 U	**7,500**
Di-n-Octylphthalate	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Dibenzo (a,h) Anthracene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Dibenzofuran	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
1,2-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
1,3-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
1,4-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
3,3'-Dichlorobenzidine	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2,4-Dichlorophenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2,4-Dimethylphenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
4,6-Dinitro-2-Methylphenol	mg/kg	200 U	200 U	200 U	200 U	2,000 U	200 U	200 U	200 U	200 U	1,000 U
2,4-Dinitrophenol	mg/kg	200 U	200 U	200 U	25 U	2,000 U	200 U	200 U	200 U	200 U	1,000 U
2,4-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2,6-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Fluorene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Hexachlorobenzene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Hexachlorobutadiene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Hexachlorocyclopentadiene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Hexachloroethane	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Indeno (1,2,3-cd) Pyrene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Isophorone	mg/kg	25 U	25 U	25 U	25 U	**1,600**	25 U	25 U	25 U	25 U	130 U
2-Methylnaphthalene	mg/kg	25 U	25 U	**80**	**58**	250 U	25 U	**85**	**770**	**290**	**270**
2-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
4-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
N-Nitrosodi-n-Propylamine	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
N-Nitroso-di-Phenylamine	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Naphthalene	mg/kg	25 U	25 U	**1,400**	**1,500**	250 U	25 U	**53**	**820**	25 U	130 U
2-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
3-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
4-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Nitrobenzene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2-Nitrophenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
4-Nitrophenol	mg/kg	200 U	200 U	200 U	200 U	2,000 U	200 U	200 U	200 U	200 U	1,000 U
Pentachlorophenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Phenanthrene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	**94**	**62**	**280**	130 U
Phenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Pyrene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
1,2,4-Trichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Diethylphthalate	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
Dimethylphthalate	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2,4,5-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U
2,4,6-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	250 U	25 U	25 U	25 U	25 U	130 U

TABLE TM1-2A
ANALYTICAL RESULTS FOR WASTE
(TP-16-96-01 through DR-141-05)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		TP-16-96-01	TP-16-96-100 duplicate of TP-16-01	TP-16-96-02	TP-16-96-03	DR-106-01	DR-141-01	DR-141-02	DR-141-03	DR-141-04	DR-141-05
Sample Description:		Rubber to gel like material, brown		Paint like liquid, red, green, blue, black, white, yellow	Paint like liquid red, green, blue, black, white, yellow	Brown soil like substance	Green, paint like substance	Black, wood-ash like material	Black oil like liquid	Yellow grease like substance, translucent	Similar to dried paint, rubber like, yellow
Scan 3 Compounds	**Units**										
Aldrin	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Alpha-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Beta-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Delta-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
g-BHC (Lindane)	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
4,4'-DDD	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
4,4'-DDE	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
4,4'-DDT	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Dieldrin	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 UJ
Endosulfan I	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Endosulfan II	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Endosulfan Sulfate	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Endrin	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 UJ
Endrin Aldehyde	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Heptachlor	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	**0.89**	0.080 UJ
Heptachlor Epoxide	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Methoxychlor	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.23 U	0.25 U	0.23 U	0.080 U	0.080 U
Chlordane	mg/kg	0.34 U	0.080 U	0.36 U	0.38 U	0.080 U	0.080 U	0.080 U	0.15 U	0.79 U	0.080 U
Toxaphene	mg/kg	1.4 U	0.33 U	1.5 U	1.6 U	0.33 U	0.33 U	0.33 U	0.63 U	3.3 U	0.33 U
Aroclor 1016 (PCB)	mg/kg	2.1 U	0.50 U	2.3 U	2.4 U	0.50 U	0.50 U	0.50 U	0.95 U	5.0 U	0.50 U
Aroclor 1221 (PCB)	mg/kg	2.1 U	0.50 U	2.3 U	2.4 U	0.50 U	0.50 U	0.50 U	0.95 U	5.0 U	0.50 U
Aroclor 1232 (PCB)	mg/kg	2.1 U	0.50 U	2.3 U	2.4 U	0.50 U	0.50 U	0.50 U	0.95 U	5.0 U	0.50 U
Aroclor 1242 (PCB)	mg/kg	2.1 U	0.50 U	2.3 U	2.4 U	0.50 U	0.50 U	0.50 U	0.95 U	5.0 U	0.50 U
Aroclor 1248 (PCB)	mg/kg	2.1 U	0.50 U	2.3 U	2.4 U	0.50 U	0.50 U	0.50 U	0.95 U	5.0 U	0.50 U
Aroclor 1254 (PCB)	mg/kg	2.1 U	0.50 U	2.3 U	2.4 U	0.50 U	0.50 U	0.50 U	0.95 U	5.0 U	0.50 U
Aroclor 1260 (PCB)	mg/kg	2.1 U	0.50 U	2.3 U	2.4 U	0.50 U	0.50 U	**0.56**	**11**	5.0 U	0.50 U
Inorganics	**Units**										
Barium, Total	mg/kg	**1.9 J**	1.0 UJ	**10.0**	**38.0**	**1,720**	**705**	**12**	**1.5**	**1.6**	**172**
Cadmium, Total	mg/kg	0.50 U	0.50 U	0.50 U	**0.56**	**3.5**	0.50 U	0.50 U	0.50 U	0.50 U	**2.5**
Chromium, Total	mg/kg	4.0 U	4.0 U	**4.8**	4.0 U	**31**	**21,900**	4.0 U	4.0 U	4.0 U	**45**
Copper, Total	mg/kg	**0.95**	**0.90**	**20.0**	**273.0**	**12**	**30**	**3.6**	**0.93**	**1.5**	**176**
Lead, Total	mg/kg	**7.7**	**6.8**	**23.0**	**67.0**	**576**	**56,700**	**6.8**	**3.4**	**3.8**	**40**
Mercury, Total	mg/kg	0.10 U	0.10 U	0.10 U	0.10 U	**0.17**	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Silver, Total	mg/kg	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.77**	0.20 U	0.20 U	0.20 U	0.20 U
Zinc, Total	mg/kg	**5.2**	5.0 U	**31.0**	**472.0**	**696**	**14,100**	**16**	5.0 U	**1140**	**79**
pH	pH units	5.5	5.5	5.0	5.5	5	6.5	6.0	6.5	6.5	4.5
Cyanide Reactivity	mg/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Sulfide Reactivity	mg/kg	10 U	10 U	10 U	**50.0**	10 U	10 U	10 U	10 U	10 U	10 U
Flash Point, cl-cup	deg. F	76	79	78	80	>200	97	>200	172	>200	>200
Arsenic, Total	mg/kg	0.1 U	0.1 U	**0.78**	**0.26**	**2.6**	**0.24**	**0.21 J**	0.1 U	0.1 U	**0.51**
Selenium, Total	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	**2.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic by TCLP	mg/L	0.0010 U	0.0010 U	0.0010 U	0.0010 U	**0.015**	0.0010 U	**0.0068**	0.046 U	0.0010 U	0.0010 U
Barium by TCLP	mg/L	**0.64**	**0.73**	**0.86**	**0.8**	**0.76**	**0.14**	**0.51**	0.91 U	**0.56**	**1.55**
Cadmium by TCLP	mg/L	**0.0003**	**0.0005**	**0.0004 J**	**0.0004 J**	**0.0009 J**	**0.0010 J**	**0.0015 J**	0.0091 U	**0.0007 J**	**0.0011 J**
Chromium by TCLP	mg/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	3.62 U	0.08 U	**0.22**
Copper by TCLP	mg/L	**0.023**	**0.023**	**0.17**	0.02 U	**0.022**	0.02 U	**0.032**	0.91 U	0.02 U	**0.87**
Lead by TCLP	mg/L	**0.032**	**0.041**	**0.55**	**0.026**	**14.9**	**41.9**	**0.064**	**0.050**	**0.046**	**0.18**
Mercury by TCLP	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.091 U	0.0004 U	0.0004 U
Selenium by TCLP	mg/L	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.091 U	0.0020 U	0.0020 U
Silver by TCLP	mg/L	0.0002 UDM	0.0002 U	0.0002 UDM	**0.0008 DM**	0.0002 U	**0.0008 J**	**0.0004 J**	0.0091 U	**0.0006 J**	0.2 U
Zinc by TCLP	mg/L	**0.37**	**0.43**	**0.58**	**0.5**	**0.9**	**11.2**	**0.48**	**1.22**	**1.79**	**2.19**
Cyanide, Total	mg/kg	0.50 U	0.50 U	**1.2**	0.50 U	**0.95**	0.50 U	**4.0**	0.50 U	**0.5**	0.50 U

Notes:

U - Undetected. The analyte was analyzed for but not detected; the value shown is the Practical Quantitation LImit (PQL).

[ ] - Analytes detected are shaded and boxed.

J - Estimated value or value not accurate.

T - Value reported is less than criteria of detection.

DM - Sample matrix interference resulted in dilution of the sample extract.

RB - Reagent blank. The level of reagent blank contamination has been reported and subtracted from the analyte value.

E - Elevated reporting limit due to analytical interference.

TABLE TM1-2B
ANALYTICAL RESULTS FOR WASTE
(DR-141-06 through DR-163-02)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-141-06	DR-141-07	DR-141-14	DR-141-15	DR-141-17	DR-141-18	DR-141-20	DR-163-01	DR-163-02
Sample Description:		Black, grease like gel	Black, solid substance, layered like schist	Yellow to brown grease like substance	Reddish-black, semi-wet paint like substance	Black, semi-liquid, paint like substance	Solid substance tan	Solid substance white and yellow	Dark brown soil like substance	Paint like substance
Volatile 8260	**Units**									
Acetone	mg/kg	50 U	130 U	50 U	50 U	200 U	200 U	400 U	200 U	200 U
Benzene	mg/kg	1.0 U	2.5 U	1.0 U	1.7	4 U	4 U	8 U	4.0 U	4.0 U
Bromodichloromethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Bromoform	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Bromomethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
2-Butanone (MEK)	mg/kg	50 U	130 U	50 U	50 U	200 U	200 U	400 U	200 U	200 U
Carbon Disulfide	mg/kg	2.0 U	5.0 U	2.0 U	2.0 U	8 U	8 U	16 U	8.0 U	8.0 U
Carbon Tetrachloride	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Chlorobenzene	mg/kg	1.0 UJ	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Chloroethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
2-Chloroethyl Vinyl Ether	mg/kg	10 U	25 U	10 U	10 U	40 U	40 U	80 U	40 U	40 U
Chloroform	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Chloromethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Dibromochloromethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
1,1-Dichloroethane	mg/kg	1.0 U	2.5 U	1.0 U	7.1	9.3	4 U	8 U	4.0 U	4.0 U
1,2-Dichloroethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
1,1-Dichloroethylene	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
1,2-Dichloroethylene	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
1,2-Dichloropropane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
cis-1,3-Dichloropropylene	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
trans-1,3-Dichloropropene	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Ethylbenzene	mg/kg	1.0 U	6.7	1.0 U	3.0	13	4 U	8 U	4.0 U	4.0 U
2-Hexanone	mg/kg	50 U	2.5 U	50 U	50 U	200 U	200 U	400 U	200 U	200 U
4-Methyl-2-pentanone (MIBK)	mg/kg	50 U	2.5 U	50 U	50 U	200 U	200 U	400 U	200 U	200 U
Methylene Chloride	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Styrene	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
1,1,2,2-Tetrachloroethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Tetrachloroethene	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
1,1,1-Trichloroethane	mg/kg	1.0 U	21	1.0 U	31	46	4 U	8 U	4.0 U	4.0 U
1,1,2-Trichloroethane	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Trichloroethene	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Toluene	mg/kg	1.0 U	11	1.2	2.4	8.8	4 U	9.8	4.0 U	4.0 U
Vinyl Acetate	mg/kg	2.0 U	5.0 U	2.0 U	2.0 U	8 U	8 U	16 U	8.0 U	8.0 U
Vinyl Chloride	mg/kg	1.0 U	2.5 U	1.0 U	1.0 U	4 U	4 U	8 U	4.0 U	4.0 U
Xylenes, Total	mg/kg	4.5	120	3.0 U	21	100	30	24 U	12	12 U
TCLP Volatile Organic Compounds										
Benzene	mg/L	0.002	0.004	0.004	0.011	0.004	0.001	0.019	0.001 U	0.001 U
Carbon Tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.017	0.001 U	0.001 U	0.001 U	0.001 UD	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform	mg/L	0.001 U	0.001 U	0.002	0.001	0.001	0.001	0.001	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.004	0.001 U	0.003	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethylene	mg/L	0.001 U	0.001 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (MEK)	mg/L	0.050 U	0.095	0.077	0.050 U	0.05 U	0.051	0.050 U	0.050 U	0.050 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
TCLP Semi-Volatile Compounds										
1,4-Dichlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4-Dinitrotoluene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachlorobutadiene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachloroethane	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Nitrobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Pentachlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4,6-Trichlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4,5-Trichlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2-Methylphenol	mg/L	0.010 U	0.010 U	0.010 U	0.031	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
3 & 4 Methylphenol	mg/L	0.010 U	0.028	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Pyridine	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

TABLE TM1-2B
ANALYTICAL RESULTS FOR WASTE
(DR-141-06 through DR-163-02)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-141-06	DR-141-07	DR-141-14	DR-141-15	DR-141-17	DR-141-18	DR-141-20	DR-163-01	DR-163-02
Sample Description:		Black, grease like gel	Black, solid substance, layered like schist	Yellow to brown grease like substance	Reddish-black, semi-wet paint like substance	Black, semi-liquid, paint like substance	Solid substance tan	Solid substance white and yellow	Dark brown soil like substance	Paint like substance
Base Neutral Compounds										
Acenaphthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Acenaphthylene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	**64**	25 U
Benzo (a) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Benzo (a) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Benzo (b&k) Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Benzo (g,h,i) Perylene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Benzoic Acid	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	25,000 U	500 U	500 U
Benzyl Alcohol	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	25,000 U	500 U	500 U
Bis (2-Chloroethoxy) Methane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Bis (2-Chloroethyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Bis (2-Chloroisopropyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Bis (2-ethylhexyl) Phthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4-Bromophenyl Phenylether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Butyl Benzyl Phthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4-Chloro-3-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4-Chloroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2-Chloronaphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2-Chlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4-Chlorophenylphenyl-Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Chrysene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Di-n-Butylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**39,000**	25 U	25 U
Di-n-Octylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Dibenzo (a,h) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Dibenzofuran	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
1,2-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
1,3-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
1,4-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
3,3'-Dichlorobenzidine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2,4-Dichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2,4-Dimethylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4,6-Dinitro-2-Methylphenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	10,000 U	200 U	200 U
2,4-Dinitrophenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	10,000 U	200 U	200 U
2,4-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2,6-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Fluorene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Hexachlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Hexachlorobutadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Hexachlorocyclopentadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Hexachloroethane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Indeno (1,2,3-cd) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Isophorone	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2-Methylnaphthalene	mg/kg	**31**	**230**	**75**	**160**	**560**	25 U	1,300 U	25 U	25 U
2-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
N-Nitrosodi-n-Propylamine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
N-Nitroso-di-Phenylamine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Naphthalene	mg/kg	25 U	**400**	25 U	25 U	**170**	25 U	1,300 U	25 U	25 U
2-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
3-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Nitrobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2-Nitrophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
4-Nitrophenol	mg/kg	200 U	200 U	25 U	200 U	200 U	200 U	10,000 U	200 U	200 U
Pentachlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Phenanthrene	mg/kg	**110**	25 U	**200**	**84**	**28**	25 U	1,300 U	**160**	25 U
Phenol	mg/kg	**88**	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
1,2,4-Trichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Diethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
Dimethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2,4,5-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U
2,4,6-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	1,300 U	25 U	25 U

TABLE TM1-2B
ANALYTICAL RESULTS FOR WASTE
(DR-141-06 through DR-163-02)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-141-06	DR-141-07	DR-141-14	DR-141-15	DR-141-17	DR-141-18	DR-141-20	DR-163-01	DR-163-02
Sample Description:		Black, grease like gel	Black, solid substance, layered like schist	Yellow to brown grease like substance	Reddish-black, semi-wet paint like substance	Black, semi-liquid, paint like substance	Solid substance tan	Solid substance white and yellow	Dark brown soil like substance	Paint like substance
Scan 3 Compounds	**Units**									
Aldrin	mg/kg	0.23 U	0.24 U	**0.29**	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Alpha-BHC	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Beta-BHC	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Delta-BHC	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
g-BHC (Lindane)	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
4,4'-DDD	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	**13**
4,4'-DDE	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	**1.7**
4,4'-DDT	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	**0.82**	**4.5**
Dieldrin	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Endosulfan I	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Endosulfan II	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Endosulfan Sulfate	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Endrin	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Endrin Aldehyde	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Heptachlor	mg/kg	0.23 U	**0.25**	**1.5**	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Heptachlor Epoxide	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Methoxychlor	mg/kg	0.23 U	0.24 U	0.23 U	0.25 U	0.24 U	0.080 U	0.080 U	0.20 U	0.46 U
Chlordane	mg/kg	0.38 U	0.80 U	0.75 U	0.80 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Toxaphene	mg/kg	1.6 U	3.3 U	3.1 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aroclor 1016 (PCB)	mg/kg	2.4 U	5.0 U	4.7 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1221 (PCB)	mg/kg	2.4 U	5.0 U	4.7 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1232 (PCB)	mg/kg	2.4 U	5.0 U	4.7 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1242 (PCB)	mg/kg	2.4 U	5.0 U	4.7 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1248 (PCB)	mg/kg	2.4 U	5.0 U	4.7 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1254 (PCB)	mg/kg	2.4 U	5.0 U	4.7 U	**5.1**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor 1260 (PCB)	mg/kg	**16**	5.0 U	4.7 U	**3.9**	**5.3**	0.50 U	0.50 U	0.50 U	0.50 U
Inorganics	**Units**									
Barium, Total	mg/kg	**4,410**	**11**	**13**	**1,720**	**1,830 DM**	**4.2**	**2.5**	**124**	**518**
Cadmium, Total	mg/kg	0.50 U	**2.2**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**5**	**4.6**
Chromium, Total	mg/kg	**79**	**112**	4.00 U	**10,800**	**372**	4.0 U	4.0 U	**27**	**103**
Copper, Total	mg/kg	**2.0**	**11**	**0.86**	**2,950**	**1,170**	**0.60**	**1.9**	**86**	**608**
Lead, Total	mg/kg	**9.4**	**29**	**35**	**37,200**	**2,960 DM**	**6.1**	2.0 U	**72**	**870**
Mercury, Total	mg/kg	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	**0.19**	**0.12**
Silver, Total	mg/kg	0.20 U	0.20 U	0.20 U	**0.53**	0.20 U	0.20 U	0.20 U	**2**	0.20 U
Zinc, Total	mg/kg	**16**	**109**	5.0 U	**933**	**4,110**	**5.6**	**31**	**236**	**1,490**
pH	pH units	6.5	5.5	5.0	6.0	6.5	6.5	7	7	6.5
Cyanide Reactivity	mg/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Sulfide Reactivity	mg/kg	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Flash Point, cl-cup	deg. F	>200	141	>200	>200	>200	>200	>200	>200	>200
Arsenic, Total	mg/kg	0.1 U	**1.4**	0.1 U	**0.11**	0.1 UJ	0.1 U	**0.18**	**0.71**	**2**
Selenium, Total	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.1**
Arsenic by TCLP	mg/L	0.0010 U	0.0010 UJ	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Barium by TCLP	mg/L	**0.88**	**0.72**	**0.78**	**0.85**	**0.15**	**0.74**	**1.13**	**1.86**	**2.13 J**
Cadmium by TCLP	mg/L	**0.0004 J**	**0.0031 J**	**0.0007 J**	**0.0004 J**	**0.0008 J**	**0.0003 J**	**0.0009 J**	**0.029**	**0.0053**
Chromium by TCLP	mg/L	0.08 U	0.08 U	0.08 U	**0.29**	0.08 U	0.08 U	0.08 U	0.08 U	**0.15 J**
Copper by TCLP	mg/L	0.02 U	**0.030**	0.02 U	0.02 U	0.02 U	**0.024**	**0.033**	**0.99**	**0.055 J**
Lead by TCLP	mg/L	**0.0078**	**0.11**	**0.0096**	**8.41**	**1.37**	**0.0073**	**0.035**	**0.18**	**2.79**
Mercury by TCLP	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	**0.0011**	0.0004 U
Selenium by TCLP	mg/L	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Silver by TCLP	mg/L	**0.0013 J**	**0.0002 J**	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Zinc by TCLP	mg/L	**0.35**	**0.97**	**0.36**	**0.41**	**0.22**	**0.46**	**0.63**	**4.82**	**3.69**
Cyanide, Total	mg/kg	**246**	**1.7**	**0.75**	**33**	**34**	0.50 U	0.50 U	**1**	**134**

Notes:

U - Undetected. The analyte was analyzed for but not detected; the value shown is the Practical Quantitation LImit (PQL).

[ ] - Analytes detected are shaded and boxed.

J - Estimated value or value not accurate.

T - Value reported is less than criteria of detection.

DM - Sample matrix interference resulted in dilution of the sample extract.

RB - Reagent blank. The level of reagent blank contamination has been reported and subtracted from the analyte value.

E - Elevated reporting limit due to analytical interference.

TABLE TM1-2C
ANALYTICAL RESULTS FOR WASTE
(DR-171-01 through DR-263-26)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-171-01	DR-181-01	DR-263-02	DR-263-101 duplicate of DR-263-02	DR-263-03	DR-263-17	DR-263-18	DR-263-20	DR-263-24	DR-263-26
Sample Description:		Dark brown rubber like material	Soil mixture with brown to black staining	White powder substance, dry, some reddish staining		Soft, brown, rubber like waste	Black oil like liquid	Soft, putty like substance, tan	Soft, putty like substance, black	Soft, putty like substance, grey to brown	Brown, oily like waste
Volatile 8260	**Units**										
Acetone	mg/kg	200 U	200 U	200 U	2.5 U	200 U	200 U	200 U	200 U	200 U	200 U
Benzene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bromodichloromethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bromoform	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bromomethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
2-Butanone (MEK)	mg/kg	200 U	200 U	200 U	2.5 U	200 U	200 U	200 U	200 U	200 U	200 U
Carbon Disulfide	mg/kg	8.0 U	8.0 U	8.0 U	0.10 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Carbon Tetrachloride	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chlorobenzene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chloroethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
2-Chloroethyl Vinyl Ether	mg/kg	40 U	40 U	40 U	0.50 U	40 U	40 U	40 U	40 U	40 U	40 U
Chloroform	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chloromethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Dibromochloromethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethylene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloroethylene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloropropane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
cis-1,3-Dichloropropylene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
trans-1,3-Dichloropropene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Ethylbenzene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	**19**	4.0 U	4.0 U
2-Hexanone	mg/kg	200 U	200 U	200 U	2.5 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Methyl-2-pentanone (MIBK)	mg/kg	200 U	200 U	200 U	2.5 U	200 U	200 U	200 U	200 U	200 U	200 U
Methylene Chloride	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Styrene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1,2,2-Tetrachloroethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Tetrachloroethene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1,1-Trichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1,2-Trichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Trichloroethene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Toluene	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	**110**	4.0 U	**14**	4.0 U	**4.3**
Vinyl Acetate	mg/kg	8.0 U	8.0 U	8.0 U	0.10 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Vinyl Chloride	mg/kg	4.0 U	4.0 U	4.0 U	0.050 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Xylenes, Total	mg/kg	12 U	12 U	12 U	0.15 U	12 U	12 U	12 U	**160**	12 U	12 U
TCLP Volatile Organic Compounds											
Benzene	mg/L	**0.001**	0.001 U	0.001 U	0.001 U	0.005 U	**0.001**	**0.001**	0.001 U	0.001 U	0.001 U
Carbon Tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	**0.001**	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethylene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (MEK)	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.25 U	0.050 U	**0.18**	0.050 U	0.050 U	0.050 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
TCLP Semi-Volatile Compounds											
1,4-Dichlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4-Dinitrotoluene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachlorobutadiene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachloroethane	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Nitrobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Pentachlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4,6-Trichlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4,5-Trichlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2-Methylphenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
3 & 4 Methylphenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	**0.057**	0.010 U	0.010 U	**0.023**	**0.041**
Pyridine	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.20 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

TABLE TM1-2C
ANALYTICAL RESULTS FOR WASTE
(DR-171-01 through DR-263-26)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-171-01	DR-181-01	DR-263-02	DR-263-101 duplicate of DR-263-02	DR-263-03	DR-263-17	DR-263-18	DR-263-20	DR-263-24	DR-263-26
Sample Description:		Dark brown rubber like material	Soil mixture with brown to black staining	White powder substance, dry, some reddish staining		Soft, brown, rubber like waste	Black oil like liquid	Soft, putty like substance, tan	Soft, putty like substance, black	Soft, putty like substance, grey to brown	Brown, oily like waste
Base Neutral Compounds											
Acenaphthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthylene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzo (a) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzo (a) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzo (b&k) Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	25 U	**55**	25 U	25 U	25 U	25 U
Benzo (g,h,i) Perylene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzoic Acid	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benzyl Alcohol	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Bis (2-Chloroethoxy) Methane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bis (2-Chloroethyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bis (2-Chloroisopropyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bis (2-ethylhexyl) Phthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	**220**	**1,700**	25 U	**630**	**37**
4-Bromophenyl Phenylether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Butyl Benzyl Phthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	**85**	25 U	25 U	25 U	**32**
4-Chloro-3-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Chloroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chlorophenol	mg/kg	25 U	25 U	25 U	25 U	**32**	25 U	25 U	25 U	25 U	25 U
4-Chlorophenylphenyl-Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Chrysene	mg/kg	25 U	25 U	25 U	25 U	25 U	**27**	25 U	25 U	25 U	25 U
Di-n-Butylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Di-n-Octylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**100**	25 U	25 U	25 U
Dibenzo (a,h) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,2-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,3-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,4-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
3,3'-Dichlorobenzidine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dimethylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-Methylphenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2,4-Dinitrophenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2,4-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,6-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	25 U	**110**	25 U	25 U	25 U	25 U
Fluorene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachlorobutadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachlorocyclopentadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachloroethane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Indeno (1,2,3-cd) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Isophorone	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Methylnaphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodi-n-Propylamine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitroso-di-Phenylamine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Naphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**90**	25 U	25 U
2-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
3-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Nitrobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Pentachlorophenol	mg/kg	25 U	25 U	25 U	25 U	**290**	25 U	25 U	25 U	25 U	25 U
Phenanthrene	mg/kg	25 U	25 U	25 U	25 U	25 U	**92**	25 U	25 U	25 U	25 U
Phenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	**71**	25 U	25 U	25 U	25 U
1,2,4-Trichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Diethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,5-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U

TABLE TM1-2C
ANALYTICAL RESULTS FOR WASTE
(DR-171-01 through DR-263-26)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-171-01	DR-181-01	DR-263-02	DR-263-101 duplicate of DR-263-02	DR-263-03	DR-263-17	DR-263-18	DR-263-20	DR-263-24	DR-263-26
Sample Description:		Dark brown rubber like material	Soil mixture with brown to black staining	White powder substance, dry, some reddish staining		Soft, brown, rubber like waste	Black oil like liquid	Soft, putty like substance, tan	Soft, putty like substance, black	Soft, putty like substance, grey to brown	Brown, oily like waste
Scan 3 Compounds	**Units**										
Aldrin	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Alpha-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Beta-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Delta-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
g-BHC (Lindane)	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
4,4'-DDD	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
4,4'-DDE	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
4,4'-DDT	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	**3.5**	8.1 U	0.080 U	0.080 U	**0.60**
Dieldrin	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Endosulfan I	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Endosulfan II	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Endosulfan Sulfate	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Endrin	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Endrin Aldehyde	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Heptachlor	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Heptachlor Epoxide	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Methoxychlor	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.40 U	8.1 U	0.080 U	0.080 U	0.48 U
Chlordane	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.76 U	0.080 U	0.080 U
Toxaphene	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	3.1 U	0.33 U	0.33 U
Aroclor 1016 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.8 U	0.50 U	0.50 U
Aroclor 1221 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.8 U	0.50 U	0.50 U
Aroclor 1232 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.8 U	0.50 U	0.50 U
Aroclor 1242 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.8 U	0.50 U	0.50 U
Aroclor 1248 (PCB)	mg/kg	0.50 U	**1.6**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.8 U	0.50 U	0.50 U
Aroclor 1254 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**12**	0.50 U	**8.0**	0.50 U	**4.1**
Aroclor 1260 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.8 U	0.50 U	0.50 U
Inorganics	**Units**										
Barium, Total	mg/kg	**35**	**16**	**6.4**	**6.4**	**18**	**329**	**2.1**	**80**	**2,500**	**3,510**
Cadmium, Total	mg/kg	0.50 U	**24**	**6.7**	**7.3**	0.50 U	**15**	0.50 U	0.50 U	**210**	**13**
Chromium, Total	mg/kg	4.0 U	**41**	**99**	**104**	4.0 U	**147**	4.0 U	**125**	**522**	**185**
Copper, Total	mg/kg	**4.3**	**35**	**6.4**	**8.8**	**117**	**2,520**	0.60 U	**1.8**	**147**	**1,400**
Lead, Total	mg/kg	**13**	**226**	**204**	**218**	**6.6**	**13,100**	**3,980**	**9.0**	**2,710**	**20,300**
Mercury, Total	mg/kg	0.10 U	0.10 U	0.10 U	0.10 U	**0.16**	**0.66**	0.10 U	0.10 U	0.10 U	**0.47**
Silver, Total	mg/kg	0.20 U	**0.58**	**0.83**	**0.92**	0.20 U	**7.4**	**0.38**	0.20 U	**0.48**	**16**
Zinc, Total	mg/kg	**20**	**13,400**	**17**	**16**	**92**	**9,160**	**7.8**	**608**	**367**	**2,260**
pH	pH units	6.5	5	13	13.0	7	6.5	7.5	7.0	10	7
Cyanide Reactivity	mg/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Sulfide Reactivity	mg/kg	10 U	10 U	10 UJ	**18 J**	10 U	10 U	10 U	10 U	10 U	10 U
Flash Point, cl-cup	deg. F	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
Arsenic, Total	mg/kg	**1.4**	**1.1**	**2.3**	**1.6**	0.1 U	**143**	0.1 U	**0.64**	**0.81**	**33**
Selenium, Total	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**49**	0.5 U
Arsenic by TCLP	mg/L	0.0010 U	0.0010 U	**0.070**	**0.053**	**0.0034 J**	**0.010**	0.0010 U	**0.0044**	**0.0019**	**0.020**
Barium by TCLP	mg/L	**1.60**	**0.45**	0.10 UJ	**0.71 J**	**0.47**	**0.078**	**0.87**	**0.79**	**0.99**	**0.79**
Cadmium by TCLP	mg/L	**0.0019**	**0.025**	**0.0015 J**	0.0002 UJ	**0.0026**	**0.070**	**0.0003 J**	**0.0004 J**	**0.19**	**0.0087**
Chromium by TCLP	mg/L	0.08 U	0.08 U	0.40 UJ	0.40 UJ	0.08 U	0.08 U	0.08 U	0.08 U	**0.52**	0.08 U
Copper by TCLP	mg/L	**0.072**	**0.030**	0.10 UJ	0.10 UJ	**1.80**	**5.32**	0.02 U	0.02 U	**0.20**	**0.16**
Lead by TCLP	mg/L	**0.076**	**0.0052**	**0.032**	**0.025**	**0.050**	**380**	**5.79**	**0.082**	**3.83**	**398**
Mercury by TCLP	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	**0.0005**	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Selenium by TCLP	mg/L	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 UJ	**0.0028**	0.0020 U	0.0020 U	**0.014**	0.0020 U
Silver by TCLP	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.0003**	0.0002 U	0.0002 U
Zinc by TCLP	mg/L	**1.22**	**16.9**	**0.070 J**	**0.53 J**	**2.14**	**74.4**	**0.55**	**1.07**	**2.17**	**11.7**
Cyanide, Total	mg/kg	**1.2**	0.50 U	**0.50 J**	0.50 UJ	**0.8**	**1.1**	0.50 U	0.50 U	**0.95**	**0.70**

Notes:

U - Undetected. The analyte was analyzed for but not detected; the value shown is the Practical Quantitation Limit (PQL).

[ ] - Analytes detected are shaded and boxed.

J - Estimated value or value not accurate.

T - Value reported is less than criteria of detection.

DM - Sample matrix interference resulted in dilution of the sample extract.

RB - Reagent blank. The level of reagent blank contamination has been reported and subtracted from the analyte value.

E - Elevated reporting limit due to analytical interference.

TABLE TM1-2D
ANALYTICAL RESULTS FOR WASTE
(DR-263-27 through DR-291-01)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-263-27	DR-265-05	DR-265-102 duplicate of DR-265-05	DR-265-11	DR-265-18	DR-265-22	DR-291-01
Sample Description:		Grey, paste like substance	Green powder, dry		Black powder, dry	Soft, putty like substance, black	Black and white mixed powder, coagulated	Grey, layered, dry, powder
Volatile 8260	**Units**							
Acetone	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Benzene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bromodichloromethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bromoform	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bromomethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
2-Butanone (MEK)	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Carbon Disulfide	mg/kg	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Carbon Tetrachloride	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chlorobenzene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chloroethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
2-Chloroethyl Vinyl Ether	mg/kg	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Chloroform	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chloromethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Dibromochloromethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1-Dichloroethylene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloroethylene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,2-Dichloropropane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
cis-1,3-Dichloropropylene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
trans-1,3-Dichloropropene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Ethylbenzene	mg/kg	**260**	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
2-Hexanone	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Methyl-2-pentanone (MIBK)	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Methylene Chloride	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Styrene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1,2,2-Tetrachloroethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Tetrachloroethene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1,1-Trichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
1,1,2-Trichloroethane	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Trichloroethene	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Toluene	mg/kg	**290**	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Vinyl Acetate	mg/kg	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Vinyl Chloride	mg/kg	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Xylenes, Total	mg/kg	**800**	12 U	12 U	12 U	12 U	12 U	**18**
TCLP Volatile Organic Compounds								
Benzene	mg/L	**0.004**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon Tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform	mg/L	**0.004**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethylene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (MEK)	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
TCLP Semi-Volatile Compounds								
1,4-Dichlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4-Dinitrotoluene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachlorobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachlorobutadiene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Hexachloroethane	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Nitrobenzene	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Pentachlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4,6-Trichlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2,4,5-Trichlorophenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
2-Methylphenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
3 & 4 Methylphenol	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Pyridine	mg/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

TABLE TM1-2D
ANALYTICAL RESULTS FOR WASTE
(DR-263-27 through DR-291-01)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-263-27	DR-265-05	DR-265-102 duplicate of DR-265-05	DR-265-11	DR-265-18	DR-265-22	DR-291-01
Sample Description:		Grey, paste like substance	Green powder, dry		Black powder, dry	Soft, putty like substance, black	Black and white mixed powder, coagulated	Grey, layered, dry, powder
Base Neutral Compounds								
Acenaphthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthylene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzo (a) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzo (a) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	**96**	25 U
Benzo (b&k) Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	25 U	**71**	25 U
Benzo (g,h,i) Perylene	mg/kg	25 U	25 U	25 U	25 U	25 U	**74**	25 U
Benzoic Acid	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Benzyl Alcohol	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Bis (2-Chloroethoxy) Methane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bis (2-Chloroethyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bis (2-Chloroisopropyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bis (2-ethylhexyl) Phthalate	mg/kg	25 U	**40**	**35**	**340**	**490**	**56**	25 U
4-Bromophenyl Phenylether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Butyl Benzyl Phthalate	mg/kg	25 U	**30**	**38**	25 U	25 U	**77**	25 U
4-Chloro-3-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Chloroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Chlorophenylphenyl-Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Chrysene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Di-n-Butylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Di-n-Octylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzo (a,h) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,2-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,3-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,4-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
3,3'-Dichlorobenzidine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4-Dimethylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-Methylphenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2,4-Dinitrophenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2,4-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,6-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Fluorene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachlorobutadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachlorocyclopentadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Hexachloroethane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Indeno (1,2,3-cd) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	**76**	25 U
Isophorone	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Methylnaphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodi-n-Propylamine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitroso-di-Phenylamine	mg/kg	**25** U	25 U	25 U	25 U	25 U	25 U	25 U
Naphthalene	mg/kg	**270**	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
3-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Nitrobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitrophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Pentachlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,2,4-Trichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Diethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,5-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,6-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	25 U

TABLE TM1-2D
ANALYTICAL RESULTS FOR WASTE
(DR-263-27 through DR-291-01)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-263-27	DR-265-05	DR-265-102 duplicate of DR-265-05	DR-265-11	DR-265-18	DR-265-22	DR-291-01
Sample Description:		Grey, paste like substance	Green powder, dry		Black powder, dry	Soft, putty like substance, black	Black and white mixed powder, coagulated	Grey, layered, dry, powder
Scan 3 Compounds	**Units**							
Aldrin	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Alpha-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Beta-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Delta-BHC	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
g-BHC (Lindane)	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
4,4'-DDD	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
4,4'-DDE	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
4,4'-DDT	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Dieldrin	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Endosulfan I	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Endosulfan II	mg/kg	**0.15**	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Endosulfan Sulfate	mg/kg	0.080 U	0.080 U	0.080 U	**0.91**	0.080 U	**0.16**	0.080 U
Endrin	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Endrin Aldehyde	mg/kg	**0.11**	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Heptachlor	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Heptachlor Epoxide	mg/kg	0.080 U	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Methoxychlor	mg/kg	**0.13**	0.080 U	0.080 U	0.37 U	0.080 U	0.080 U	0.080 U
Chlordane	mg/kg	0.37 U	0.62 U	0.72 U	0.30 U	0.080 U	0.080 U	0.080 U
Toxaphene	mg/kg	1.5 U	2.6 U	3.0 U	1.2 U	0.33 U	0.33 U	0.33 U
Aroclor 1016 (PCB)	mg/kg	2.3 U	3.9 U	4.5 U	1.9 U	0.50 U	0.50 U	0.50 U
Aroclor 1221 (PCB)	mg/kg	2.3 U	3.9 U	4.5 U	1.9 U	0.50 U	0.50 U	0.50 U
Aroclor 1232 (PCB)	mg/kg	2.3 U	3.9 U	4.5 U	1.9 U	0.50 U	0.50 U	0.50 U
Aroclor 1242 (PCB)	mg/kg	2.3 U	3.9 U	4.5 U	1.9 U	0.50 U	0.50 U	0.50 U
Aroclor 1248 (PCB)	mg/kg	2.3 U	3.9 U	4.5 U	1.9 U	0.50 U	0.50 U	0.50 U
Aroclor 1254 (PCB)	mg/kg	2.3 U	**35**	**37**	**15**	0.50 U	**0.65**	0.50 U
Aroclor 1260 (PCB)	mg/kg	2.3 U	3.9 U	4.5 U	1.9 U	0.50 U	0.50 U	0.50 U
Inorganics	**Units**							
Barium, Total	mg/kg	**115**	**596** J	**488**	**758**	**42**	**34**	**7.6**
Cadmium, Total	mg/kg	0.50 U	**14**	**14**	**250**	**3.0**	**4.3**	**2.0**
Chromium, Total	mg/kg	**127**	**9,700** DM	**7,830**	**180**	**4,720**	**33**	**17**
Copper, Total	mg/kg	**1.6**	**334**	**270**	**349**	**193,000**	**55**	**86**
Lead, Total	mg/kg	**30**	**14,300** DM	**19,700**	**11,100**	**448**	**262**	**62**
Mercury, Total	mg/kg	0.10 U	**0.45**	**0.61**	**0.33**	0.10 U	0.10 U	0.10 U
Silver, Total	mg/kg	**0.38**	**7.5** J	**4.4** J	**2.6**	**19**	**0.25**	**0.30**
Zinc, Total	mg/kg	**258**	**25,900** DM	**26,400**	**3,000**	**118,000**	**145**	**616**
pH	pH units	6.5	7.0	7.0	7.0	7.5	6.5	6.5
Cyanide Reactivity	mg/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Sulfide Reactivity	mg/kg	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Flash Point, cl-cup	deg. F	105	>200	>200	>200	>200	>200	>200
Arsenic, Total	mg/kg	**0.13**	**185**	**182**	**81**	**0.91**	**2.3**	1.25 UE
Selenium, Total	mg/kg	0.5 U	1.0 UE	0.5 U	0.5 U	**7.4**	0.5 U	1.0 UE
Arsenic by TCLP	mg/L	0.0010 U	**0.0094**	**0.0093**	**0.0028**	**0.0081**	0.0010 U	0.0010 U
Barium by TCLP	mg/L	**1.76**	**0.71**	**0.72**	**0.91**	**0.56**	**0.16**	**2.28**
Cadmium by TCLP	mg/L	0.0002 U	**0.018**	**0.013**	**0.91**	**0.031**	**0.0080**	**0.0011**
Chromium by TCLP	mg/L	0.08 U	0.08 U	0.08 U	0.08 U	**0.36**	0.08 U	0.08 U
Copper by TCLP	mg/L	0.02 U	**0.16**	**0.21**	**0.49**	**0.42**	**0.034**	**0.033**
Lead by TCLP	mg/L	**0.26**	**4.89**	**5.16**	**49.2** DM	**0.24**	**0.62**	**0.13**
Mercury by TCLP	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Selenium by TCLP	mg/L	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Silver by TCLP	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Zinc by TCLP	mg/L	**0.53**	**60.8**	**66.0**	**14.6**	**59.3**	**0.99**	**1.17**
Cyanide, Total	mg/kg	0.50 U	**1.5**	**1.4** J	**1.0**	**0.85**	**0.65**	0.50 U

Notes:

U - Undetected. The analyte was analyzed for but not detected; the value shown is the Practical Quantitation Limit (PQL).

[ ] - Analytes detected are shaded and boxed.

J - Estimated value or value not accurate.

T - Value reported is less than criteria of detection.

DM - Sample matrix interference resulted in dilution of the sample extract.

RB - Reagent blank. The level of reagent blank contamination has been reported and subtracted from the analyte value.

E - Elevated reporting limit due to analytical interference.

TABLE TM1-2E
ANALYTICAL RESULTS FOR WASTE
(DR-335-02 through DR-N-03)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-335-02	DR-341-01	DR-370-01	DR-397-03	DR-410-06	DR-TONG-01	DR-TONG-04	DR-N-03
Sample Description:		Solidified paint like material, red	Grey powder	Putty like substance, red	Grey, semi-solid material	Green, paint like liquid	Solid, black, glassy like, slag like	Bright green powder	Grey, putty like, some fiber like texture
Volatile 8260	**Units**								
Acetone	mg/kg	4,000 U	200 U	20,000 U	200 U	200 U	200 U	200 U	0.370 U
Benzene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Bromodichloromethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Bromoform	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Bromomethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.075 U
2-Butanone (MEK)	mg/kg	4,000 U	200 U	20,000 U	200 U	200 U	200 U	200 U	0.075 U
Carbon Disulfide	mg/kg	160 U	8.0 U	800 U	8.0 U	8.0 U	8.0 U	8.0 U	0.075 U
Carbon Tetrachloride	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Chlorobenzene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Chloroethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.075 U
2-Chloroethyl Vinyl Ether	mg/kg	800 U	40 U	4,000 U	40 U	40 U	40 U	40 U	NA
Chloroform	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Chloromethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.075 U
Dibromochloromethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
1,1-Dichloroethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
1,2-Dichloroethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
1,1-Dichloroethylene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037
1,2-Dichloroethylene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	NA
1,2-Dichloropropane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
cis-1,3-Dichloropropylene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
trans-1,3-Dichloropropene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Ethylbenzene	mg/kg	**1,100**	**6.6**	**1,000**	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
2-Hexanone	mg/kg	4,000 U	200 U	20,000 U	200 U	200 U	200 U	200 U	0.075 U
4-Methyl-2-pentanone (MIBK)	mg/kg	4,000 U	200 U	20,000 U	200 U	200 U	200 U	200 U	0.075 U
Methylene Chloride	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.075 U
Styrene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
1,1,2,2-Tetrachloroethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Tetrachloroethene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
1,1,1-Trichloroethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
1,1,2-Trichloroethane	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Trichloroethene	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Toluene	mg/kg	**310**	**6.7**	**23,000**	4.0 U	4.0 U	4.0 U	4.0 U	0.037 U
Vinyl Acetate	mg/kg	160 U	8.0 U	800 U	8.0 U	8.0 U	8.0 U	8.0 U	NA
Vinyl Chloride	mg/kg	80 U	4.0 U	400 U	4.0 U	4.0 U	4.0 U	4.0 U	0.075 U
Xylenes, Total	mg/kg	**9,000**	**510**	**8,600**	12 U	12 U	12 U	12 U	NA
TCLP Volatile Organic Compounds									
Benzene	mg/L	0.001 U	0.001 U	**0.085**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon Tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethylene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (MEK)	mg/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
TCLP Semi-Volatile Compounds									
1,4-Dichlorobenzene	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
2,4-Dinitrotoluene	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Hexachlorobenzene	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Hexachlorobutadiene	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Hexachloroethane	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Nitrobenzene	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
Pentachlorophenol	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
2,4,6-Trichlorophenol	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
2,4,5-Trichlorophenol	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA
2-Methylphenol	mg/L	0.010 U	0.010 U	**0.042**	0.010 U	0.010 U	0.010 U	0.010 U	NA
3 & 4 Methylphenol	mg/L	**0.015**	**0.19**	**0.022**	0.010 U	0.010 U	0.010 U	0.010 U	NA
Pyridine	mg/L	0.010 U	0.010 U	0.005 U	0.010 U	0.010 U	0.010 U	0.010 U	NA

TABLE TM1-2E
ANALYTICAL RESULTS FOR WASTE
(DR-335-02 through DR-N-03)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-335-02	DR-341-01	DR-370-01	DR-397-03	DR-410-06	DR-TONG-01	DR-TONG-04	DR-N-03
Sample Description:		Solidified paint like material, red	Grey powder	Putty like substance, red	Grey, semi-solid material	Green, paint like liquid	Solid, black, glassy like, slag like	Bright green powder	Grey, putty like, some fiber like texture
Base Neutral Compounds									
Acenaphthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Acenaphthylene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**650**	**0.120 T**
Benzo (a) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**4,300**	0.390 U
Benzo (a) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**4,500**	0.780 U
Benzo (b&k) Fluoranthene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**7,300**	0.780 U
Benzo (g,h,i) Perylene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**2,800**	2.000 U
Benzoic Acid	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	NA
Benzyl Alcohol	mg/kg	500 U	500 U	500 U	500 U	500 U	500 U	5,000 U	NA
Bis (2-Chloroethoxy) Methane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
Bis (2-Chloroethyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Bis (2-Chloroisopropyl) Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Bis (2-ethylhexyl) Phthalate	mg/kg	25 U	**51**	25 U	25 U	25 U	**28**	250 U	**2.650 RB**
4-Bromophenyl Phenylether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
Butyl Benzyl Phthalate	mg/kg	25 U	25 U	**41**	25 U	25 U	25 U	250 U	**1.260 RB**
4-Chloro-3-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
4-Chloroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
2-Chloronaphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
2-Chlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
4-Chlorophenylphenyl-Ether	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
Chrysene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**4,400**	0.390 U
Di-n-Butylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	**137.900 JRB**
Di-n-Octylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
Dibenzo (a,h) Anthracene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**690**	2.000 U
Dibenzofuran	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
1,2-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
1,3-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
1,4-Dichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
3,3'-Dichlorobenzidine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	9.800 U
2,4-Dichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
2,4-Dimethylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
4,6-Dinitro-2-Methylphenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	NA
2,4-Dinitrophenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	NA
2,4-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	2.000 U
2,6-Dinitrotoluene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	2.000 U
Fluoranthene	mg/kg	25 U	25 U	25 U	**42**	25 U	25 U	**9,400**	**0.450**
Fluorene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Hexachlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Hexachlorobutadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
Hexachlorocyclopentadiene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
Hexachloroethane	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Indeno (1,2,3-cd) Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**2,400**	2.000 U
Isophorone	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
2-Methylnaphthalene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
2-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
4-Methylphenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
N-Nitrosodi-n-Propylamine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
N-Nitroso-di-Phenylamine	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	2.000 U
Naphthalene	mg/kg	**64**	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
2-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
3-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
4-Nitroaniline	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
Nitrobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
2-Nitrophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
4-Nitrophenol	mg/kg	200 U	200 U	200 U	200 U	200 U	200 U	2,000 U	NA
Pentachlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 UJ	250 U	NA
Phenanthrene	mg/kg	**62**	25 U	25 U	**36**	25 U	25 U	**3,500**	**0.390**
Phenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
Pyrene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	**6,400**	**0.370 T**
1,2,4-Trichlorobenzene	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
Diethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.390 U
Dimethylphthalate	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	0.780 U
2,4,5-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA
2,4,6-Trichlorophenol	mg/kg	25 U	25 U	25 U	25 U	25 U	25 U	250 U	NA

TABLE TM1-2E
ANALYTICAL RESULTS FOR WASTE
(DR-335-02 through DR-N-03)
DUMP NEAR WICK ELEMENTARY - INTERIM RESPONSE PHASE II
FEBRUARY 1996

Sample Number:		DR-335-02	DR-341-01	DR-370-01	DR-397-03	DR-410-06	DR-TONG-01	DR-TONG-04	DR-N-03
Sample Description:		Solidified paint like material, red	Grey powder	Putty like substance, red	Grey, semi-solid material	Green, paint like liquid	Solid, black, glassy like, slag like	Bright green powder	Grey, putty like, some fiber like texture
Scan 3 Compounds	**Units**								
Aldrin	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	0.190 U
Alpha-BHC	mg/kg	0.080 U	**0.50**	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Beta-BHC	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Delta-BHC	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
g-BHC (Lindane)	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	0.190 U
4,4'-DDD	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	0.190 U
4,4'-DDE	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	0.190 U
4,4'-DDT	mg/kg	0.080 U	**0.30**	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	0.190 U
Dieldrin	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Endosulfan I	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Endosulfan II	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Endosulfan Sulfate	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Endrin	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Endrin Aldehyde	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	NA
Heptachlor	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	0.190 U
Heptachlor Epoxide	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	0.41 U	0.190 U
Methoxychlor	mg/kg	0.080 U	0.080 U	0.45 U	0.080 U	0.080 U	0.080 U	**1.2**	NA
Chlordane	mg/kg	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.190 U
Toxaphene	mg/kg	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.900 U
Aroclor 1016 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.900 U
Aroclor 1221 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.900 U
Aroclor 1232 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.900 U
Aroclor 1242 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.900 U
Aroclor 1248 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.900 U
Aroclor 1254 (PCB)	mg/kg	0.50 U	**1.2**	0.50 U	0.50 U	0.50 U	**6.8**	0.50 U	1.900 U
Aroclor 1260 (PCB)	mg/kg	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.900 U
Inorganics	**Units**								
Barium, Total	mg/kg	**2,410**	**29**	**1,050**	**109**	**1,190**	**1,440**	**23**	**20**
Cadmium, Total	mg/kg	0.50 U	**233**	**1.2**	**6.2**	**6.7**	**41**	**2.5**	2 U
Chromium, Total	mg/kg	**21,500**	**6.0**	**34**	**16**	**6,220**	**126**	**34**	**6.8**
Copper, Total	mg/kg	**23**	**27**	**44**	**29**	**99**	**85**	**700**	**16**
Lead, Total	mg/kg	**67,100**	**231**	**7.5**	**41**	**1,790**	**537**	**118**	**12,700**
Mercury, Total	mg/kg	**0.64**	**0.63**	**0.31**	0.10 U	**0.13**	**0.12**	0.10 U	**0.37**
Silver, Total	mg/kg	**0.65**	0.20 U	0.20 U	0.20 U	0.20 U	**0.28**	0.20 U	**0.8**
Zinc, Total	mg/kg	**213**	**672,000**	**1,480**	**176**	**25,900**	**9,000**	**551**	**904**
pH	pH units	6.5	6.5	6.5	6.5	6.5	7.5	6.5	7.15
Cyanide Reactivity	mg/kg	250 U	250 U	250 U	250 U	250 U	250 U	250 U	NA
Sulfide Reactivity	mg/kg	10 U	10 U	10 U	**39**	10 U	10 U	10 U	NA
Flash Point, cl-cup	deg. F	>200	>200	68	>200	>200	>200	>200	NA
Arsenic, Total	mg/kg	**0.78**	**0.39**	**0.41**	**9.0**	**3.2 J**	**2.5**	**3.5**	INT
Selenium, Total	mg/kg	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**	**4.7**	0.5 U
Arsenic by TCLP	mg/L	**0.0020**	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.001 U	**0.0014**	0.010 U
Barium by TCLP	mg/L	**0.7O**	**1.56**	**0.86**	**0.45**	**3.54**	**0.66**	**0.81**	0.001 U
Cadmium by TCLP	mg/L	**0.0072**	**0.0095**	**0.0010**	0.0002 U	**0.0055**	**0.022**	**0.010**	**0.0099**
Chromium by TCLP	mg/L	**0.23**	0.08 U	0.08 U	**0.091**	**7.63**	0.08 U	0.08 U	0.001 U
Copper by TCLP	mg/L	**0.4O**	**0.020**	**0.036**	**0.022**	**0.022**	**97.1**	**2.6**	0.016 U
Lead by TCLP	mg/L	**12.3**	**0.039**	**0.044**	**0.038**	**0.35**	**0.78**	**0.37**	**120**
Mercury by TCLP	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Selenium by TCLP	mg/L	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	**0.0041**	0.0020 U	0.005 U
Silver by TCLP	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.0005**	**0.0003**	0.005 U
Zinc by TCLP	mg/L	**2.41**	**620**	**4.18**	**0.15**	**21.2**	**792**	**3.22**	**6.7**
Cyanide, Total	mg/kg	**4.2**	**0.55**	**0.6O**	0.50 U	**24**	0.5 U	**222**	4 UNH

Notes:

U - Undetected. The analyte was analyzed for but not detected; the value shown is the Practical Quantitation Limit (PQL).
[ ] - Analytes detected are shaded and boxed.
J - Estimated value or value not accurate.
T - Value reported is less than criteria of detection.
DM - Sample matrix interference resulted in dilution of the sample extract.
RB - Reagent blank. The level of reagent blank contamination has been reported and subtracted from the analyte value.
E - Elevated reporting limit due to analytical interference.
NH - Non-homogeneous sample made analysis of a representative sample questionable.
INT - Interference encountered during analysis resulted in no obtainable value.
NA - Not analyzed.

PERIMETER AIR MONITORING REPORT

DUMP NEAR WICK ELEMENTARY SCHOOL
ROMULUS, MICHIGAN

Prepared for:

MICHIGAN DEPARTMENT
OF ENVIRONMENTAL QUALITY

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DUMP NEAR WICK ELEMENTARY SCHOOL
DRUM REMOVAL PROGRAM
PERIMETER AIR MONITORING REPORT

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DUMP NEAR WICK ELEMENTARY SCHOOL
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1. INTRODUCTION

The final Work Plan for "Interim Response - Phase II" at the Michigan Department of Environmental Quality (MDEQ) Dump Near Wick Elementary School site included provisions for conducting an ambient air monitoring program. The air monitoring program was implemented to determine if any of the drum-removal activities significantly increased the concentrations of volatile organic compounds (VOCs) at the site perimeter. The program included the use of an on-site meteorological station, real-time monitoring for total VOCs in ambient air, and ambient air sampling for off-site VOC analysis by a contracted laboratory.

2. OBJECTIVES

The main objective of the air monitoring program was to evaluate whether on-site drum removal activities significantly impacted the air quality at the site perimeter. Detected compounds were evaluated relative to several factors including: prevailing wind direction, background air data results, real-time monitoring results, and sample location with respect to site activity. An evaluation was made for each compound detected to assess the likelihood that the increased VOC concentration resulted from site activities. Finally, if the evaluation indicated that the VOC concentration in air was likely due to site activity, then the concentration detected was compared with the Permissible Exposure Limits (PELs) published in the National Institute of Occupational Safety and Health (NIOSH) Pocket Guide.

Additionally, real-time monitors were used to evaluate if air emissions from drum-removal activities needed to be controlled.

3. SITING AND SAMPLING PROCEDURES

To facilitate this evaluation, canister sampler siting criteria were established to conservatively assess the air quality at the nearest off-site receptor location. Each day, several factors were evaluated to select downwind canister locations that would have the greatest potential impact from on-site activity. Conversely, an evaluation was made to select an upwind canister location least likely to be impacted

from on-site activity. The canister sampling siting criteria for this air monitoring program were identical to the canister sampling siting criteria in the previous air monitoring program conducted in February 1995 during the "Interim Response - Phase I."

A remote area with minimum aerometric obstruction was located to site the meteorological monitoring station. Additional criteria included ease of access and low possibility of theft or vandalism. The meteorological station was instrumental in the daily siting of upwind and downwind canister samplers. Additionally, these data were used to evaluate whether downwind canisters should be relocated because of a change in wind direction.

Real-time monitoring for total VOCs was performed with a hand-held photoionization detector (PID). These data were used to correlate real-time VOC readings at the exclusion zone perimeter with fenceline VOC concentrations detected during sample analysis.

3.1 SAMPLE SITING

An evaluation was conducted on a daily basis to identify one upwind sample location that would least likely be impacted from site activity and two downwind locations that would have the greatest potential impact from site activity. Factors used in this evaluation included:

- The weather forecast and predicted wind direction.
- The wind direction indicated with the on-site meteorological station.
- The location of on-site activity.
- Communicating with the Project Manager to determine which work areas for that sampling day would likely create the highest VOC emissions.

Upon making this evaluation, samples were placed in predetermined locations prior to the start of any site activity. The sample locations for each sampling event are indicated on separate site maps included in Appendix A. All sample locations are indicated by a circle with an "x" inside.

3.2 METEOROLOGICAL STATION SITING

The meteorological station was sited in an area with the least aerometric obstruction, easy access, and low possibility of vandalism. The meteorological station was checked at least twice during each sampling event to evaluate whether a change in wind direction justified sample relocation.

The portable meteorological station was installed on the corner of the Wick Elementary School parking lot. The tripod securing the meteorological equipment was situated on level ground approximately 300 feet from the corner of the Wick Elementary School. The location of the meteorological station is indicated on Figure 1. Wind speed and wind direction were monitored at 10 feet above ground level (AGL), and temperature was monitored at 5 feet AGL.

3.3 INDIVIDUAL SAMPLING EVENTS

The VOC sampling events consisted of one upwind sample, one downwind sample, and downwind co-located samples to evaluate method accuracy.

The first three sampling events constituted the background air sampling program. These events were conducted in the same way as the other events except that they occurred when no site activity took place. Data from these sampling events were used to evaluate whether on-site activity was the likely cause of increased VOC concentration in ambient air at the site perimeter.

Event #1. The sampling for Event 1 was conducted on Tuesday, December 26, 1995. This event was the first of the three background sampling events. According to the on-site meteorological data, the wind prevailed from the west-southwest direction during the sampling event. The downwind co-located samples, DW1 and DW1CO (can #00026 and can #00088), were located 100 feet northeast of the site trailer. The other downwind sample, DW2 (can #00385), was located 15 feet west of the railroad tracks where the power line and tracks intersect. The upwind sample, UW3 (can #00388), was located 50 feet south of Grid #114 along the fenceline.

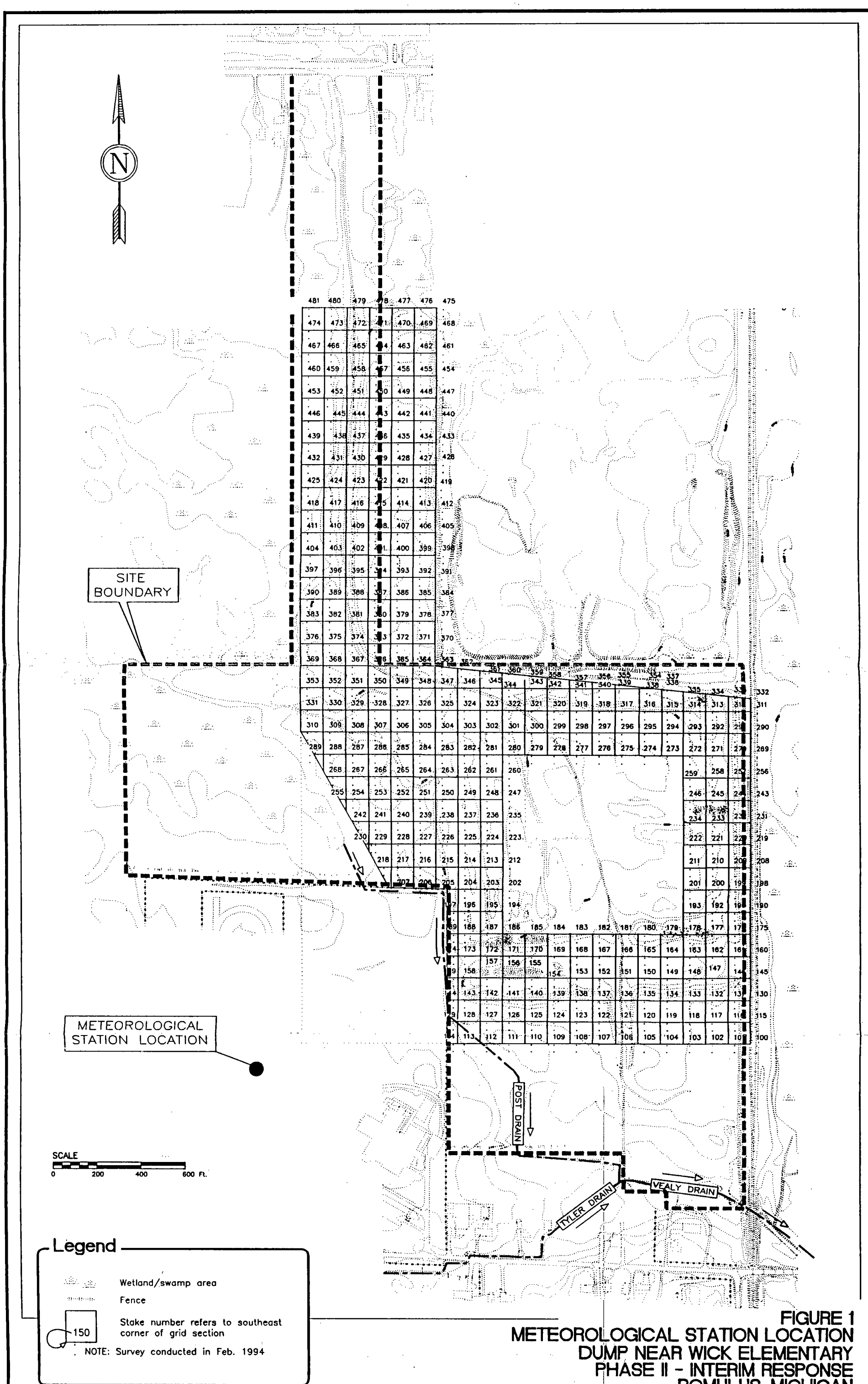


FIGURE 1
METEOROLOGICAL STATION LOCATION
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

The canisters collected ambient air samples between hours 14:00 and 20:00. The processing of on-site meteorological data was conducted during this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #2. The sampling for Event 2 was conducted on Wednesday, December 27, 1995. This was the second background sampling event. According to the on-site meteorological data, the wind consistently prevailed from the northwest direction during the sampling event. The downwind sample, DW4 (can #321), was located at Grid #290. The upwind sample, UW5 (can #00271), was located 30 feet west of the site access road and 50 feet south of Ecorse Road. The downwind co-located samples, DW6 and DW6CO (can #305 and can #939188), were located at the end of the southern fenceline near the Tyler Drain and Vealy Drain intersection.

The canisters collected ambient air samples between hours 6:00 and 13:00. The processing of the on-site meteorological data included this time period and the time period for the third sampling event which occurred immediately after the second event. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #3. The sampling for Event 3 was also conducted Wednesday, December 27, 1995. This was the last event for the background sampling program. According to the on-site meteorological data, the wind consistently prevailed from the northwest direction during the sampling event. All canister locations were identical to the locations described in Event 2. The downwind sample, DW7 (can #00167), was located at Grid #290. The upwind sample, UW8 (can #00288), was located 30 feet west of the site access road and 50 feet south of Ecorse Road. The downwind co-located samples, DW9 and DW9CO (can #00109 and can #00423), were located at the end of the southern fenceline near the Tyler Drain and Vealy Drain intersection. A field blank, UW8FB (can #00344), was taken at the upwind sample location using the upwind flow meter at the end of this sampling event.

The canisters collected ambient air samples between hours 12:00 and 19:00. The processing of the on-site meteorological data included this time period. The wind rose generated includes the hours for the second and third sampling events (6:00 through 19:00). The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #4. The sampling for Event 4 was conducted on Thursday, December 28, 1995 and commenced the air sampling program during site activities. According to on-site meteorological data, the wind prevailed from the northwest direction during the sampling event. The upwind sample, UW10 (can #00181), was located 30 feet west of the site access road and 50 feet south of Ecorse Road. The downwind location, DW11 (can #00247), was located 10 feet west of Grid #100. The downwind co-located samples, DW12 and DW12CO (can #00272 and can #00614), were located at the end of the southern fenceline near the Tyler Drain and Vealy Drain intersection.

The canisters collected ambient air samples between hours 9:00 and 16:00. The processing of on-site meteorological data included this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

All canister flow meters were recalibrated after this sampling event due to the low sample times observed during the previous sampling events. Calibration data is included in the field notes (see Appendix B).

Event #5. The sampling for Event 5 was conducted on Friday, December 29, 1995. According to the on-site meteorological data, the wind consistently prevailed from the southwest direction during the sampling event. The downwind sample, DW13 (can #00286), was located at Grid #398. The downwind co-located samples, DW14 and DW14CO (can #00158 and can #00425), were located at Grid #357. The upwind sample, UW15 (can #00576), was located 50 feet south of Grid #114 along the fenceline. A field blank, UW15FB (can #00264), was taken at the upwind sample location using the upwind flow meter at the end of this sampling event.

The canisters collected ambient air samples between hours 8:00 and 17:00. The processing of on-site meteorological data included this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #6. The sampling for Event 6 was conducted on Saturday, December 30, 1995. According to the on-site meteorological data, the wind prevailed from the southwest direction during the sampling event. The upwind sample, UW16 (can #00351), was located 50 feet south of Grid #114 along the fenceline. The downwind sample, DW17 (can #00129), was located at Grid #358. The downwind co-located samples, DW18 and DW18CO, were located at Grid #232.

The canisters collected ambient air samples between hours 8:00 and 17:00. The processing of on-site meteorological data included this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #7. The sampling for Event 7 was conducted on Tuesday, January 2, 1996. According to the on-site meteorological data, there were strong winds consistently prevailing from the northeast. The upwind sample, UW19 (can #00267), was located 30 feet east of the site access road and 30 feet south of Ecorse Road. The downwind sample, DW20 (can #00177), was located at Grid #207. The downwind co-located samples, DW21 and DW21CO (can #00147 and can #00276), were located 185 feet west of Grid #207.

The canisters collected ambient air samples between hours 8:00 and 17:00. The processing of on-site meteorological data included this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #8. The sampling for Event 8 was conducted on Wednesday, January 3, 1996. According to the on-site meteorological data, the wind was consistently prevailing from the north direction during the

sampling event. The upwind sample, UW22 (can #00339), was located 30 feet east of the site access road and 30 feet south of Ecorse Road. The co-located downwind samples, DW23 and DW23CO (can #00216 and can #00148), were located 50 feet south of Grid # 205. The downwind sample, DW24 (can #00609), was located at Grid #242. A field blank, UW22FB (can #00606), was taken at the upwind sample location using the upwind flow meter at the end of this sampling event.

The canisters collected ambient air samples between hours 8:00 and 17:00. The processing of on-site meteorological data included this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #9. The sampling for Event 9 was conducted on Thursday, January 4, 1996. According to the on-site meteorological data, the wind was consistently prevailing from the southwest direction. The upwind sample, UW25 (can #00265), was located 185 feet west of Grid #207. The downwind sample, DW26 (can #00623), was located 15 feet southeast of Grid #398. The downwind co-located samples, DW27 and DW27CO (can #00341 and can #00320), were located 20 feet northwest of Grid #359.

The canisters collected ambient air samples between hours 8:00 and 18:00. The processing of on-site meteorological data included this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

Event #10. The sampling for Event 10 was conducted on Friday, January 5, 1996. According to the on-site meteorological data, the wind prevailed from the northwest direction during the sampling event. The upwind sample, UW28 (can #00274), was located 30 feet west of the site access road and 30 feet south of Ecorse Road. The downwind co-located samples, DW29 and DW29CO (can #00410 and can #00413), were located 35 south of Grid #398. The downwind sample, DW30 (can #358), was located at Grid #358.

During the sampling event the wind shifted from west to north-northwest. Consequently, samples DW29 and DW29CO were moved to 30 feet south of Grid #391. The other downwind sample, DW30, was not relocated as it was still downwind of an expected emission source.

The canisters collected ambient air samples between hours 8:00 and 17:00. The processing of on-site meteorological data included this time period.

Event #11. The sampling for Event 11 was conducted on Saturday, January 6, 1996. According to the on-site meteorological data, the wind prevailed from the east direction during the sampling event. The upwind sample, UW31 (can #00445), was located 30 feet east of the site access road and 30 feet south of Ecorse Road. The downwind co-located samples, DW32 and DW32CO (can #00291 and can #00134), were located 50 feet south of Grid #205. The downwind sample, DW33 was located 185 feet west of Grid #207. A field blank, DW33FB (can #00257), was taken at the downwind sample location using the downwind flow meter at the end of this sampling event.

The canisters collected ambient air samples between hours 8:00 and 17:00. The processing of on-site meteorological data included this time period. The meteorological conditions during this sampling event did not necessitate sample relocation; consequently all samples were collected at their respective locations throughout the sampling event.

3.4 METEOROLOGICAL MONITORING

A Climatronics model Windmark III portable meteorological station was used to monitor wind speed, wind direction, and temperature. The scale ranges were 0 to 50 mph, 0 to 540 degrees, and -40 degrees F to 60 degrees F, respectively. The battery-operated station records data on pressure-sensitive chart paper using Miniservo chart recorders. A pocket compass was used to verify that the wind direction was recording accurately. A 5-degree declination adjustment was used to account for magnetic north when the instrument was installed.

The data was manually digitized and entered into a database for wind rose generation. Only the meteorological data collected concurrently with the air samples were digitized. Data was digitized in half-hour increments if any sample was collected in that half hour block. For example, the data was digitized from 6:30 to 7:00 if an air sample was started at 6:53. The average wind direction, wind speed and temperature for each sampling event are indicated in Table 1.

Table 1 - Meteorological Data Summary During Sampling Events (December 1995 through January 1996)

Sample Date	Event Number	Average Wind Direction (degrees)	Average Wind Speed (mph)	Average Temperature (Fahrenheit)
December 26	1	254	2.8	20.4
December 27	2 & 3	310	6.1	17.0
December 28	4	6	6.1	24.2
December 29	5	231	6.8	29.4
December 30	6	224	4.3	26.3
January 2	7	45	10.0	23.3
January 3	8	359	5.0	20.1
January 4	9	230	4.1	14.7
January 5	10	307	4.9	16.9
January 6	11	77	3.6	17.6

A copy of the chart during each sampling event is included in Appendix C. Chart digitized data in 30-minute intervals are included in Appendix D, and a summary of meteorological data during each sampling event is shown in Table 1. Individual wind roses during each sampling event are illustrated in Appendix E.

3.5 REAL-TIME MONITORING

An HNu model PI-101 PID was used to determine the total VOC concentration at approximately eight locations around the site perimeter once every hour during the sampling event. This included taking

readings at each of the canister locations. The intent was to compare concentrations found prior to site activity and during drum removal activities. Additionally, all concentrations detected were to be correlated to the canister air samples.

Calibration of the PID included testing the PID with a 100 ppm isobutanol span gas and background air for zero gas. The PID was calibrated each morning prior to the start of the canister sampling event.

A majority of the site perimeter was inaccessible by vehicle and accessing the site perimeter in an alternative mode to obtain hourly readings would have been impractical. Consequently, many of the hourly real-time readings were taken within the site perimeter. The real-time monitoring results are discussed in Section 4.0.

3.6 TO-14 CANISTER VOC SAMPLING

Sampling and analysis for VOCs were in accordance with USEPA Method TO-14, found in the Compendium for the Determination of Toxic Organic Compounds in Ambient Air. The sampling system was comprised of an evacuated SUMMA, passivated stainless-steel canister, flow meter, and vacuum gauge. The canister arrived pre-evacuated from Ross Analytical Services, Inc. (ROSS) at a vacuum of approximately 30 inches of mercury. A flow controller or meter was pre-calibrated by ROSS prior to the first sampling event. The nominal flow rate allows for uninterrupted ambient air sampling for an 8-hour period.

Upon selection of the canister sampling location, the canister sampling assemblies were distributed at the start of the sampling event. The canisters were situated and secured using an aluminum tripod to obtain a sample between 4 to 6 feet AGL. For each sampling event, one upwind sample, one downwind sample, and two downwind co-located samples were collected. The co-located samples provided method accuracy.

At the start of sampling, the valve was opened and pertinent information was recorded including: start time, initial vacuum reading, and all serial numbers for each sampling apparatus. At the completion of

each of the sampling events, the valve was closed, and the end time and final vacuum reading was recorded. The canisters were shipped under chain-of-custody to ROSS for analysis.

Field blanks were taken for every 10 air samples taken. The fully evacuated canister was taken to one of the sampling locations, and the flow meter was attached and detached without opening the valve that allows air to enter the canister. The field blank canisters were shipped under chain-of-custody with the ambient air samples to ROSS for analysis.

Upon arrival at the laboratory, the chain-of-custody documentation was signed by a ROSS employee. The canisters, which were at slightly negative pressure, were pressurized with ultra-pure helium prior to analysis. The dilution ratio was recorded by ROSS as part of the analysis. The samples were analyzed by gas chromatography/mass spectroscopy (GC/MS) for the VOC target compound list identified in USEPA Method TO-14.

4. DISCUSSION OF SAMPLING EVENTS AND RESULTS

The sampling apparatus used during each event functioned properly and allowed air samples to be taken during an eight-hour time duration. The collection of air samples was intended to occur concurrently to the extent practical. A typical sampling event would start with setting up and starting the upwind sample, then the downwind sample, then the downwind co-located samples by driving directly from sample location to sample location.

After all canister samples were started, real-time sampling took place at locations within and around the site based on the location of site activity. A summary of the real-time monitoring results indicating date, time, concentration, and location is included in Table 2.

5. SUMMARY OF PROGRAM FINDINGS

The Estimated Quantification Limits (EQL's) and dilution ratios for each sample vary according to the amount of dilution gas used in sample preparation. The dilution ratios for the samples analyzed in this

Table 2 - Summary of Real-Time Monitoring Results
Dump Near Wick Elementary - Interim Response, Phase II
(December 1995 through January 1996)

Date	Time	Concentration (ppm)	Location
December 30, 1995	1252	0.3 - 0.9	Staging Area
	1353	0.3 - 0.9	Staging Area
January 3, 1996	1100	0.7 - 5.5	Staging Area
	1205	0.9 - 24.5	Staging Area
	1400	1.0 - 37.4	Grid 391 (TP-16)
	1458	2.5 - 55.7	Grid 391 (TP-16)
	1555	5.2 - 45.9	Grid 391 (TP-16)
January 4, 1996	1422	2.3	Grid 398
	1428	0.0 - 0.5	Staging Area
	1525	3.4	Grid 398
	1702	5.7	Grid 398
January 5, 1996	0912	0.0 - 1.2	Grid 398
	1006	0.0 - 0.3	Grid 398
	1112	0.0 - 0.6	Grid 398
	1130	0.0 - 1.4	Staging Area
	1250	0.0 - 3.0	Grid 391 (TP-16)
	1315	0.0 - 0.4	Staging Area
	1408	0.0 - 3.4	Grid 391 (TP-16)
	1432	0.0 - 0.6	Staging Area
	1503	0.0 - 1.0	Grid 391 (TP-16)
	1524	0.0 - 0.5	Staging Area

program varied from 3.834 to 5.160. The resulting EQLs ranged from 3.8 parts per billion by volume (ppbv) to 5.2 ppbv for most compounds. The EQLs ranged from 19 ppbv to 26 ppbv for the following compounds:

- Acetone
- 2-Butanone
- 2-Hexanone
- 4-Methyl-2-pentanone
- Vinyl acetate

Sample validation consisted of three surrogate compounds for each sample including: 1,2-dichloroethane-d4; toluene-d8; and 4-bromofluorobenzene. The percent recoveries for each sample analysis were within their respective limits.

VOCs were detected in nine of the ambient air samples submitted to the laboratory. A summary is included in Table 3. Laboratory reports are included in Appendix F.

Table 3 - Summary of Detected Compounds (December 1995 through January 1996)

Sample Date	Sample Number	Location	Compound	Concentration (ppbv)
December 27	DW4	Grid 290	Carbon Disulfide	34.0
December 27	DW8	50' S of Ecorse	Acetone	40.0
January 3	DW23	Grid 205	Acetone	21.0
January 4	DW26	Grid 398	Ethylbenzene	5.4
January 4	DW26	Grid 398	Xylenes (total)	29.0
January 5	UW28	50' S of Ecorse	Carbon Disulfide	18.6
January 5	UW28	50' S of Ecorse	Acetone	158.5
January 5	DW29	Grid 398	Xylenes (total)	18.3
January 5	DW29CO	Grid 398	Xylenes (total)	16.7

Background sampling events occurred the first two days of the program including all samples taken during December 26 and December 27. The carbon disulfide detected in air sample DW4 did not coincide with a real-time measurement from the PID. Similarly, the acetone detected in air sample DW8 did not coincide with a real-time measurement from the PID. Consequently, the compounds detected from the DW4 and DW8 air samples are either present in the sampling vicinity (without any increase from site activity) and below the detection limit of the real-time monitor or they were present in the laboratory. Due to the types of compounds detected, it is likely that these compounds were detected as a result of trace chemicals present in the laboratory.

The acetone detected at the Grid 205 location in the DW23 air sample did not coincide with any real-time measurement from the PID. As mentioned above, this compound is likely to be found in trace amounts in the laboratory. However, the prevailing wind direction was from the north, and there was site activity at the containment area which could have caused a potential increase to the background VOC concentration in air. The canister which obtained the air sample was located downwind of this site activity.

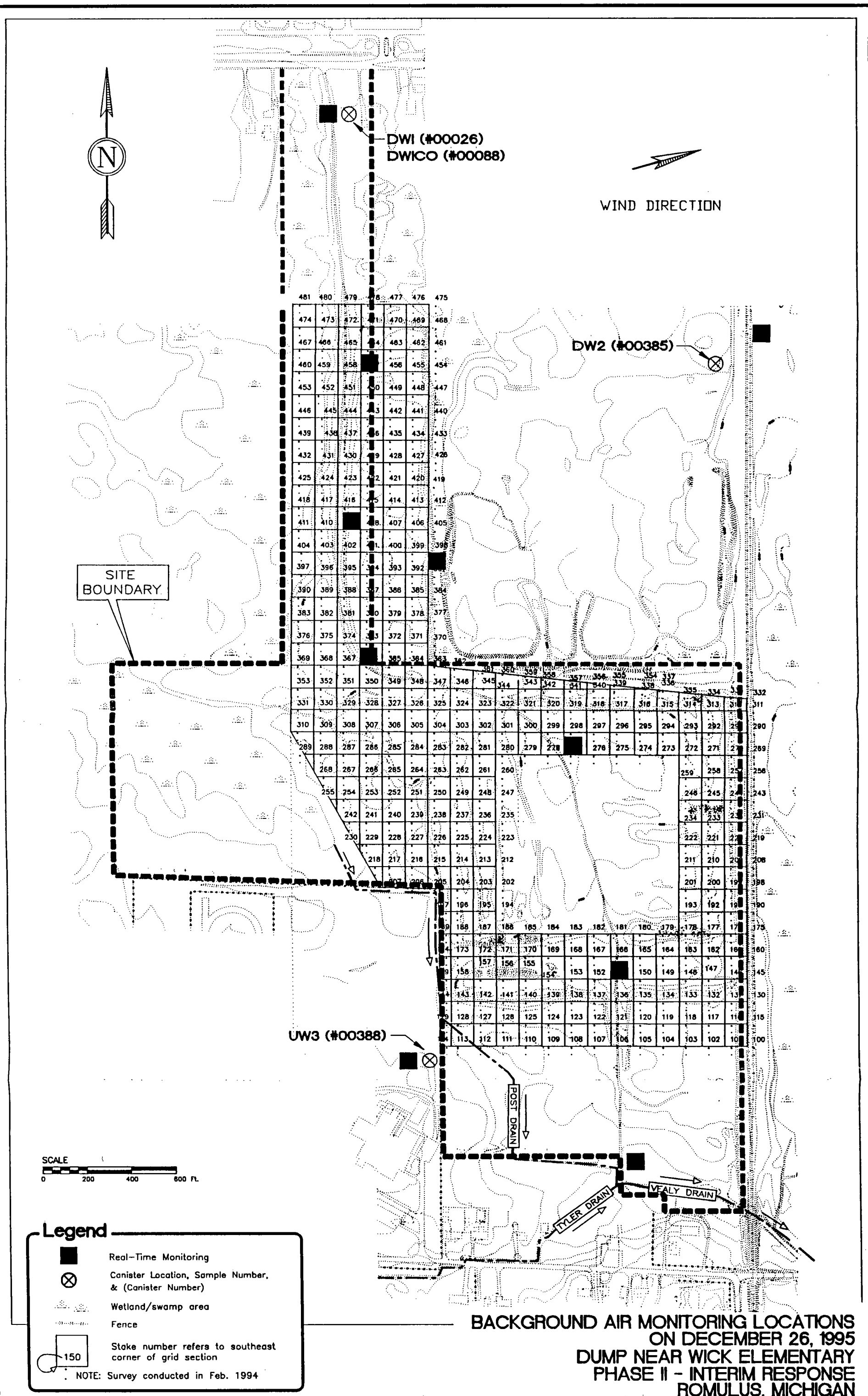
The compounds detected at the Grid 398 location in the DW26 air sample coincide with real-time measurements from the PID. The prevailing wind direction was from the southwest, and the canister that obtained the air sample was located immediately downwind of site activity requiring an exclusion zone. This sample was also approximately 20 feet from the fenceline. It is likely that off-site VOC concentrations in ambient air were increased above background concentration levels. Upon review of the NIOSH Pocket Guide, the concentrations indicated in Table 3 are below the respective PELs.

The compounds detected in the canister located 50 south of Ecorse Road, UW28, did not coincide with real-time measurements from the PID. The prevailing wind direction was from the northwest, and the canister was located upwind of site activity. The compounds detected from the UW28 air sample are either present in sampling vicinity (without any increase from site activity) and below the detection limit of the real-time monitor, or they were present in the laboratory. Due to the types of compounds detected, it is likely that these compounds were detected as a result of trace chemicals present in the laboratory.

The compounds detected at the Grid 398 location in the DW29 and DW29CO air samples do coincide with real-time measurements from the PID. The prevailing wind direction was from the northwest, and the canisters that obtained the air samples were located immediately downwind of site activity that required an exclusion zone the previous day. This sample was also approximately 20 feet from the fenceline. It is likely that off-site VOC concentrations were increased above background levels. Upon review of the NIOSH Pocket Guide, the concentrations indicated in Table 3 are below the respective PELs.

APPENDIX A

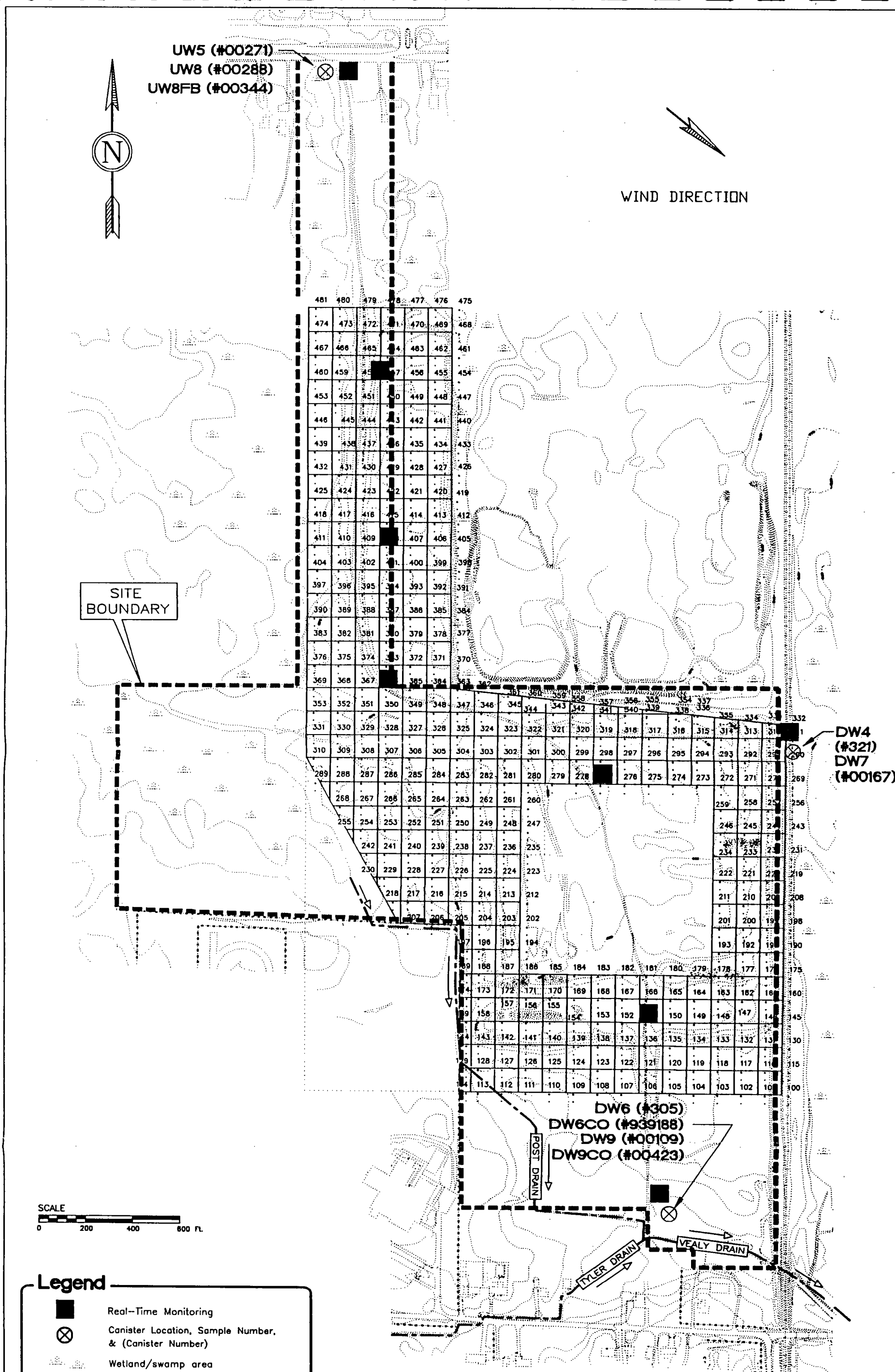
SITE MAPS



BACKGROUND AIR MONITORING LOCATIONS ON DECEMBER 26, 1995
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

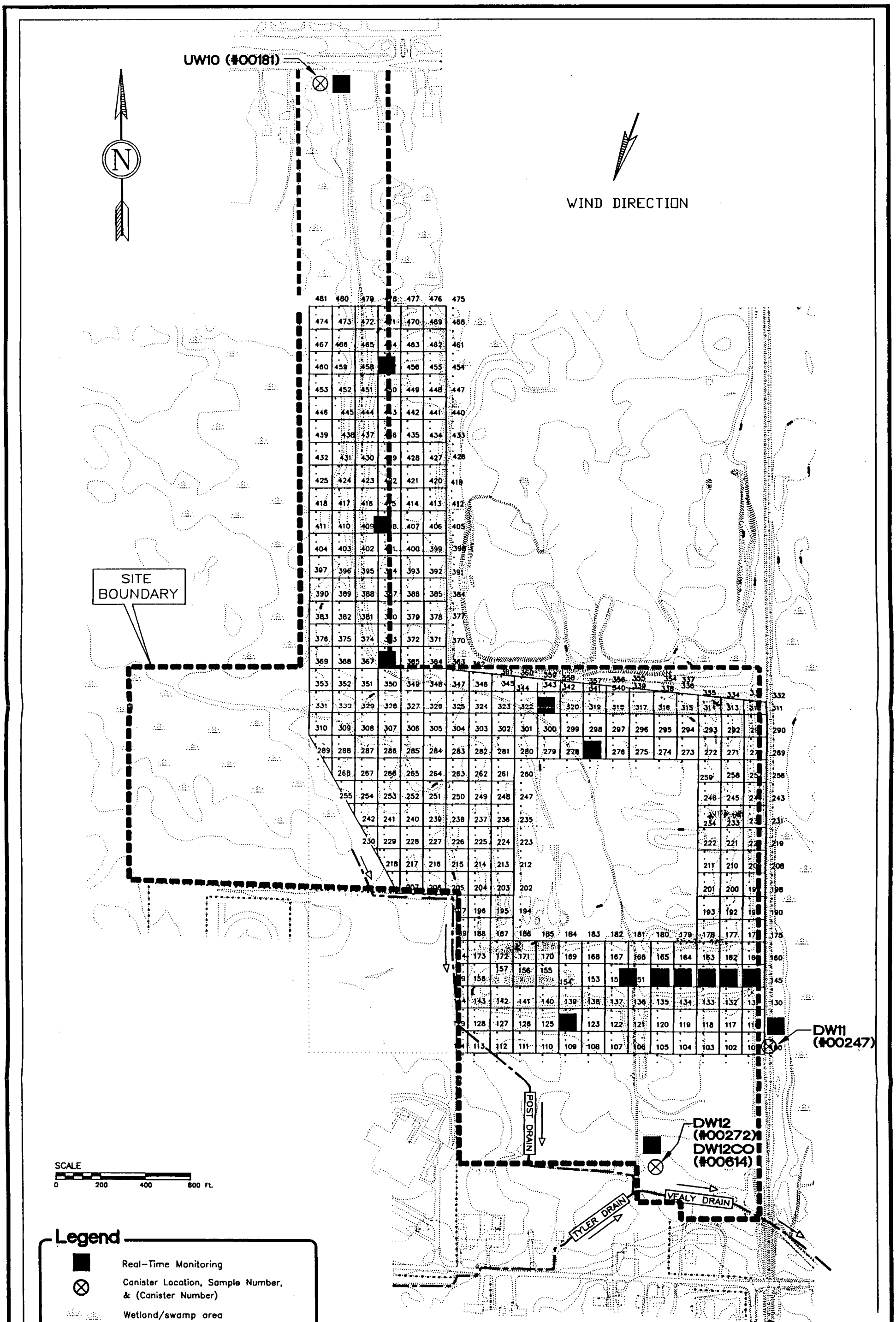
A9603001/9252-01/AC418 | Drawn: OS/DGH 12/15/94 | Rev: 03/04/96 By: MDC Chkd: DGA



BACKGROUND AIR MONITORING LOCATIONS ON DECEMBER 27,1995
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

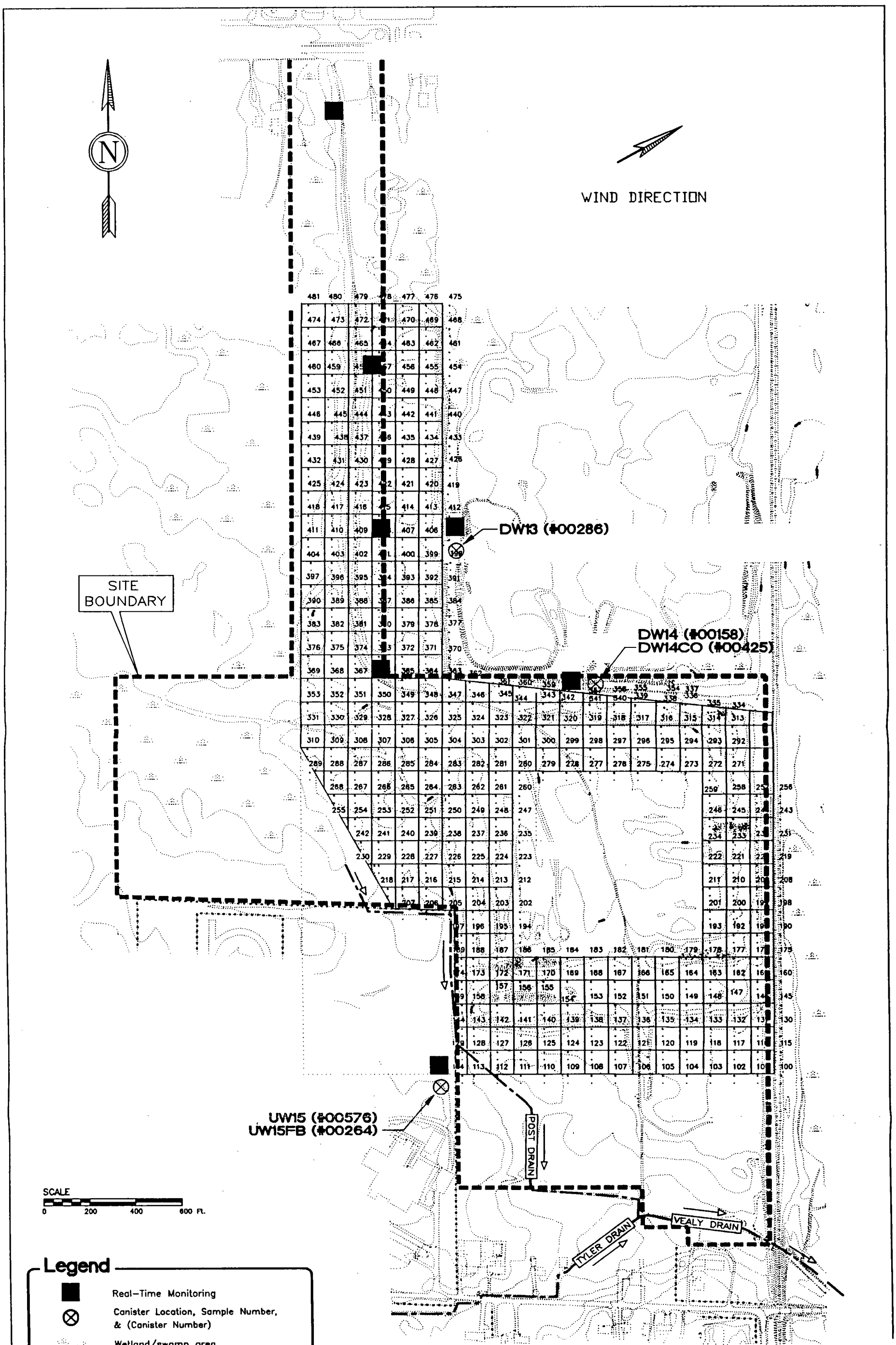
A9603002/9252-01/AC418 | Drawn: OS/DGH 12/15/94 | Rev: 03/26/96 By: SDM Chkd: DGA



AIR MONITORING LOCATIONS ON DECEMBER 28,1995
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

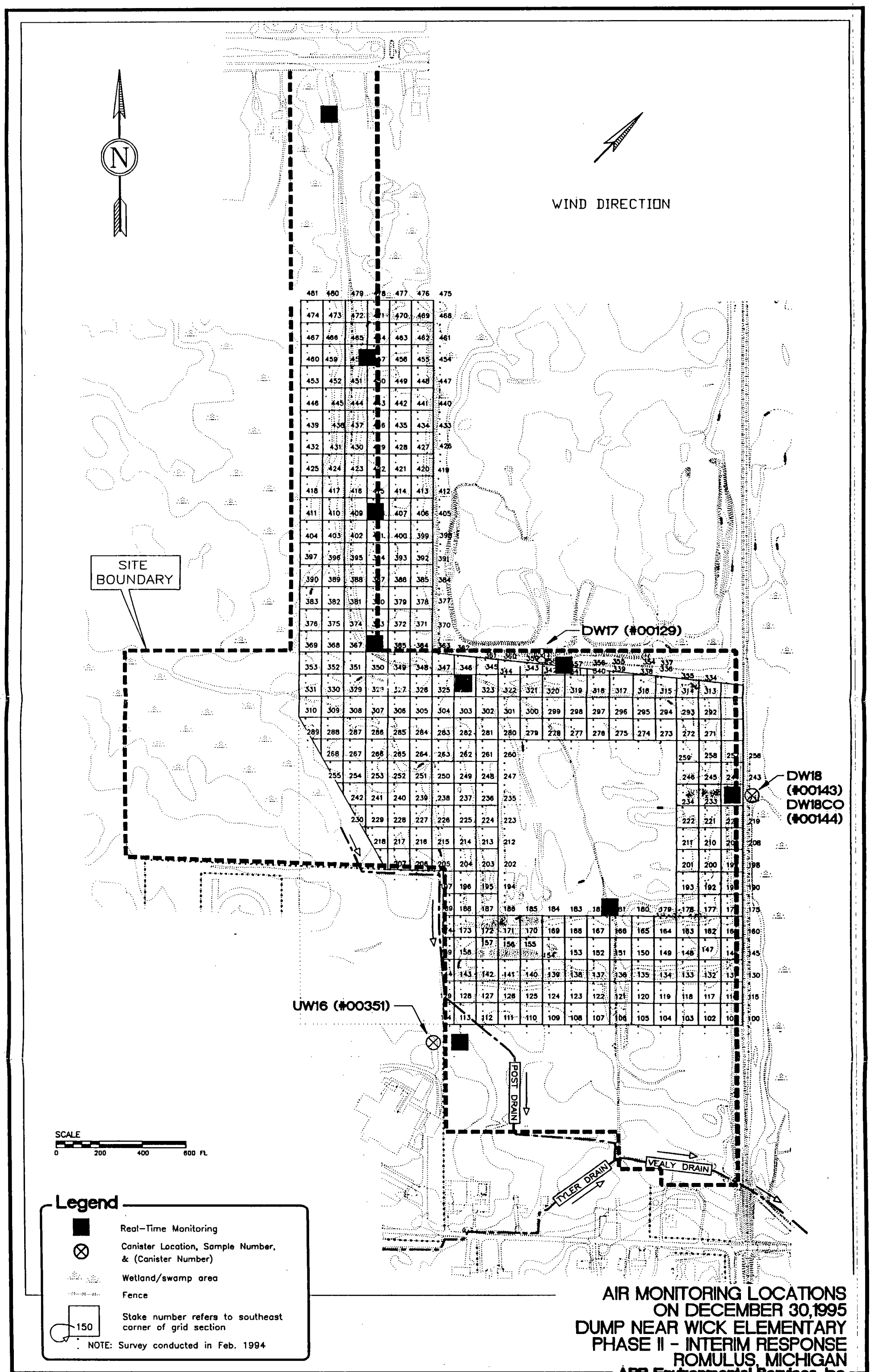
A9603003/9252-01/AC426 | Drawn: OS/DGH 12/15/94 | Rev: 03/26/96 By: SDM Chkd: DGA



AIR MONITORING LOCATIONS ON DECEMBER 29, 1995
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

A9603004/9252-01/AC427 | Drawn: OS/DGH 12/15/94 | Rev: 03/26/96 By: SDM Chkd: DGA



AIR MONITORING LOCATIONS ON DECEMBER 30,1995
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

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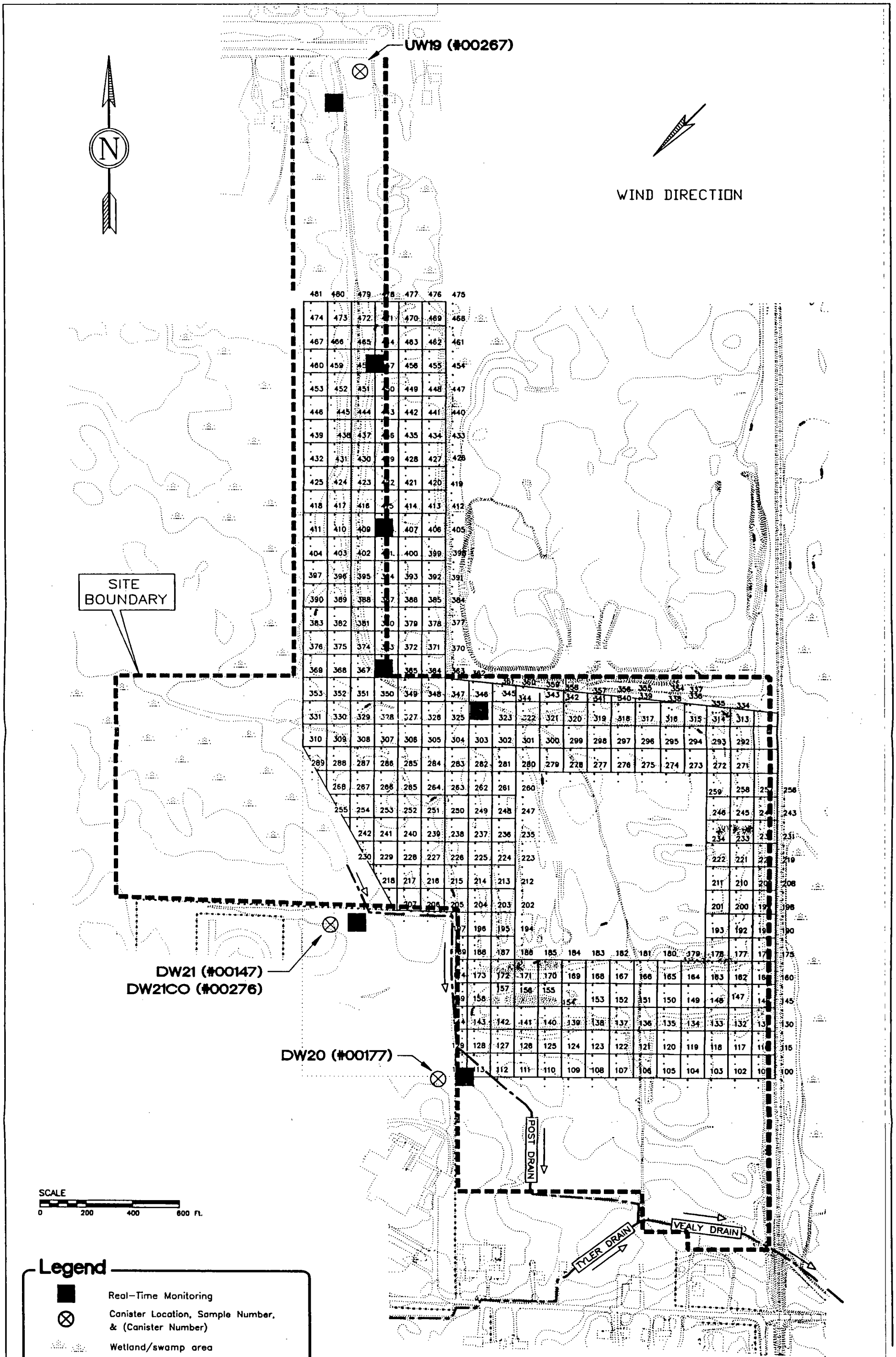
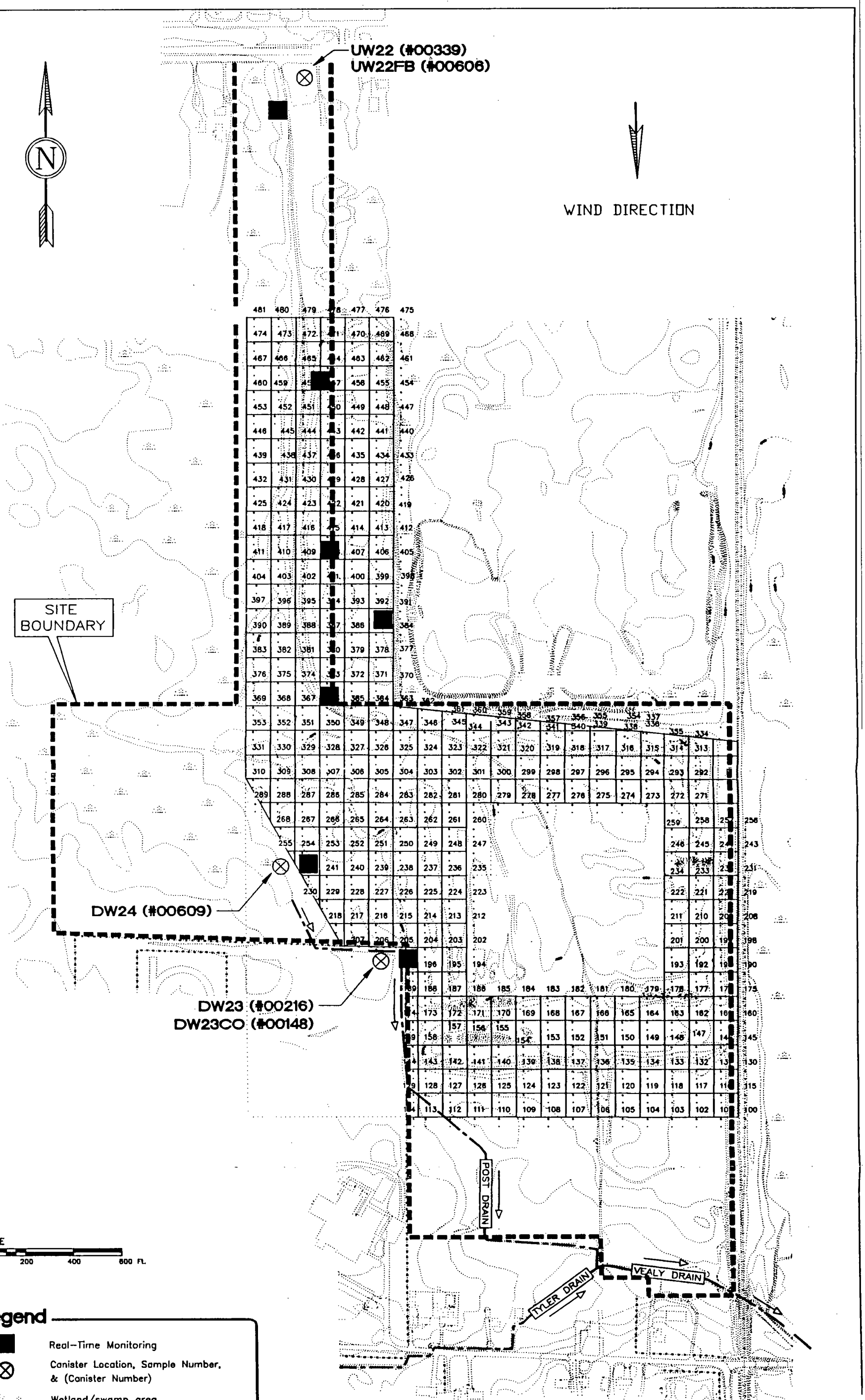


AIR MONITORING LOCATIONS ON JANUARY 2, 1996
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

A9603006/9252-01/AC426 | Drawn: OS/DGH 12/15/94 | Rev: 03/26/96 By: SDM Chkd: DGA



AIR MONITORING LOCATIONS ON JANUARY 3, 1996
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

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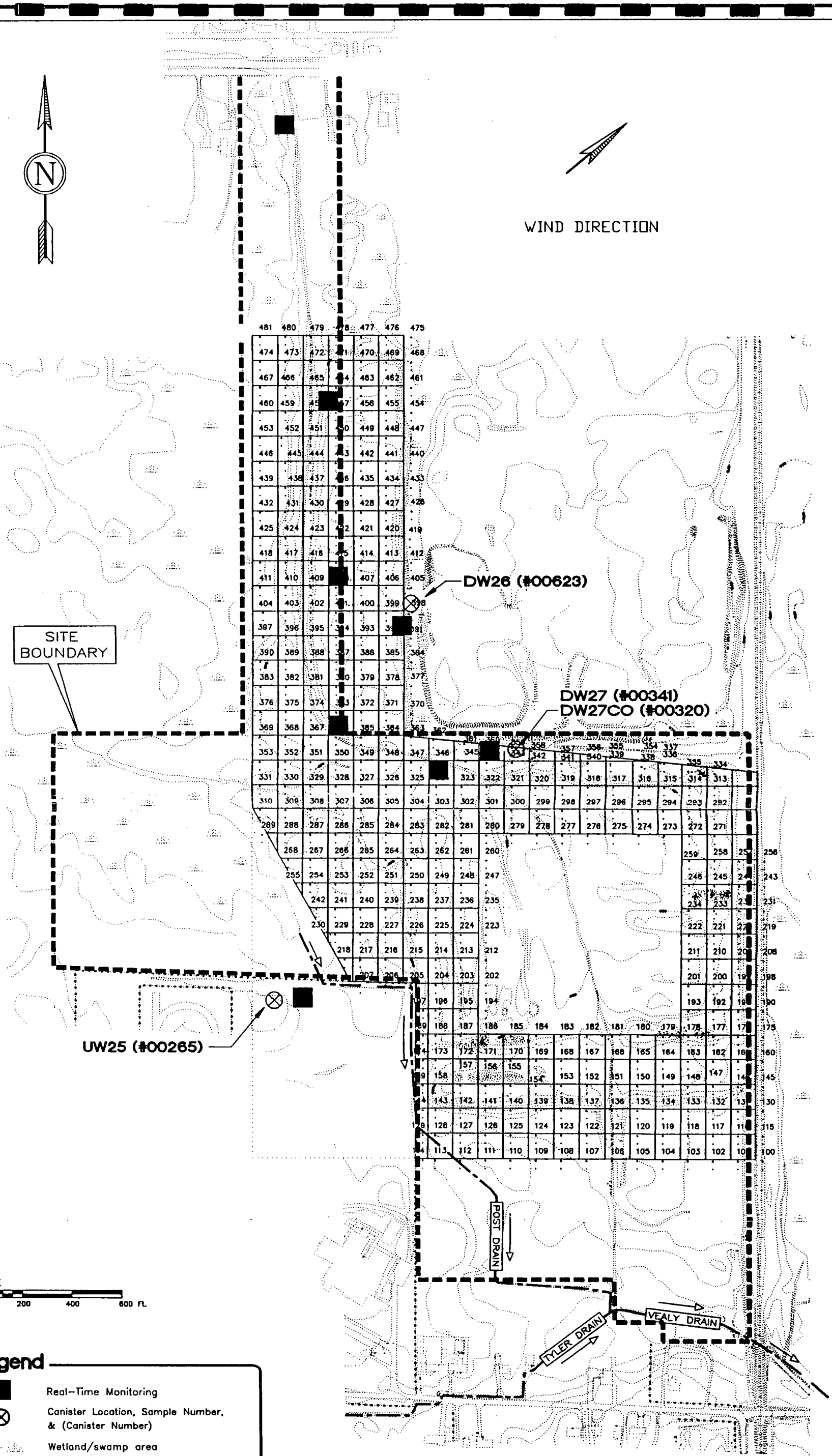


Legend

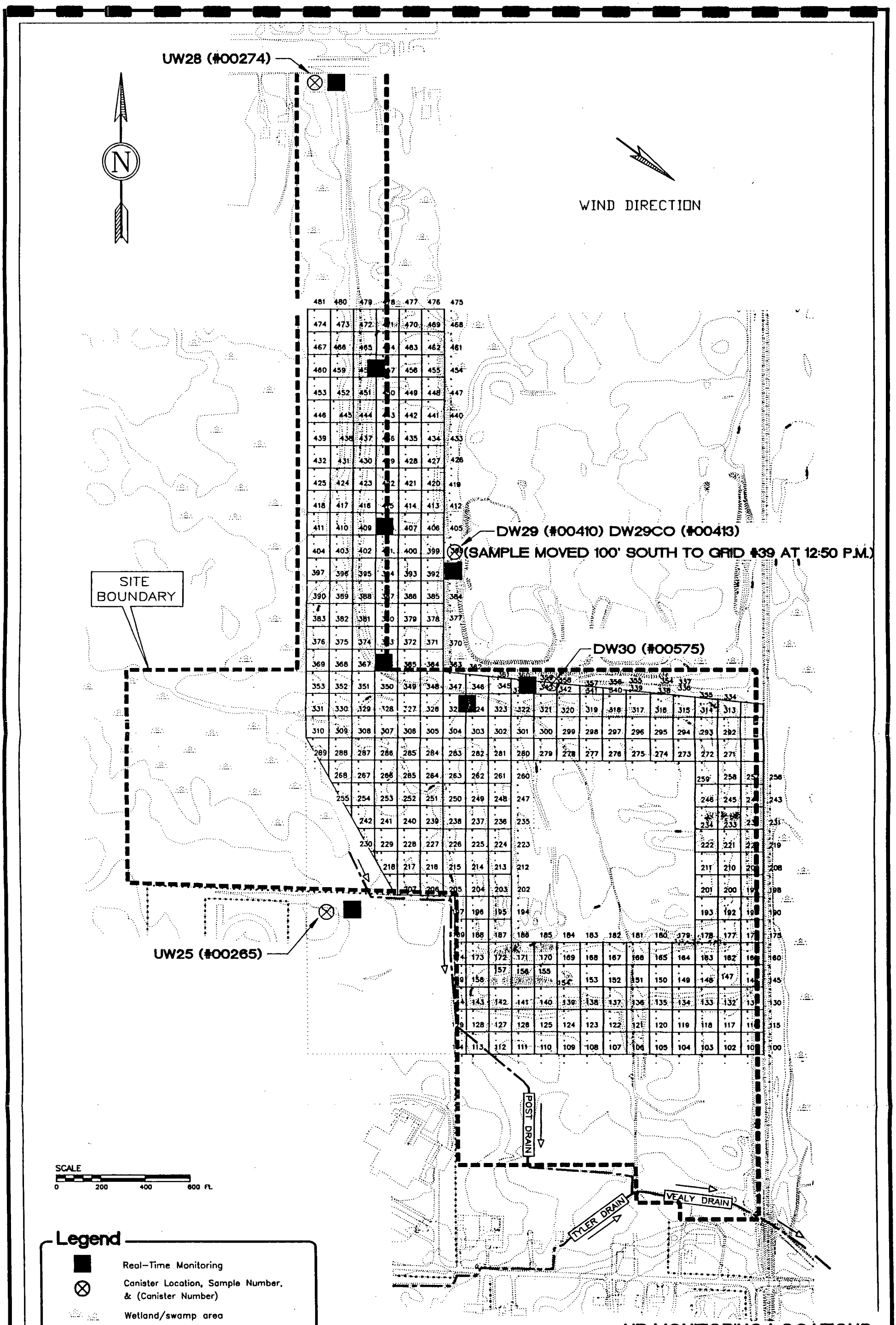
- Real-Time Monitoring
- Canister Location, Sample Number, & (Canister Number)
- Wetland/swamp area
- Fence
- 150 — Stake number refers to southeast corner of grid section

NOTE: Survey conducted in Feb. 1994

AIR MONITORING LOCATIONS ON JANUARY 4, 1996
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

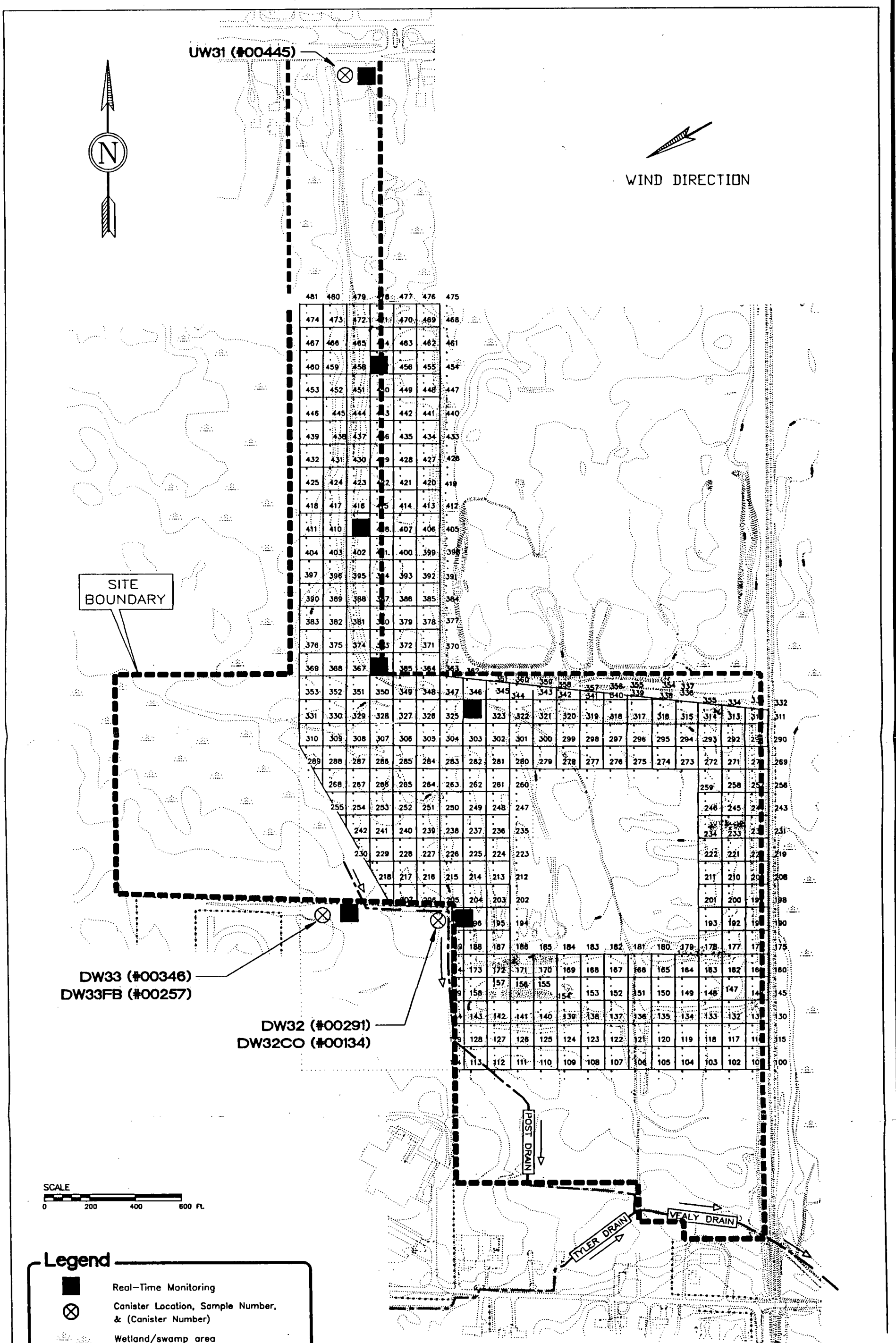
A9603008/9252-01/AC427 | Drawn: OS/DGH 12/15/94 | Rev: 03/26/96 By: SDM Chkd: DGA



AIR MONITORING LOCATIONS ON JANUARY 5, 1996
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

A9603009/9252-01/AC427 | Drawn: OS/DGH 12/15/94 | Rev: 03/26/96 By: SDM Chkd: DGA



AIR MONITORING LOCATIONS
ON JANUARY 6, 1996
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

A9603010/9252-01/AC427 | Drawn: OS/DGH 12/15/94 | Rev: 03/26/96 By: SDM Chkd: DGA

APPENDIX B

FIELD NOTES

12-26 7:00 MDNR - WICK

leave for Mich

12:00 Dan Argentati

MN is 4° CCW of true north

1100 mtg W/ABB & MDNR, Wednesday DEC. 27

proposed test area @ grid 391 & 392 20'x20' use 60'x60' for conservative est. on exclusion zone perimeter

- Baseline monitoring to include VOCs using TO-14 and hourly PID readings

- 20 ft W of 391 & 20-30 N ← test pit area

1300 - visited test pit area w/ Dave Belan & Mike Zack, noticed that it abutts an active pallett man. facility. will use trackside area for downwind monitoring

1400 set-up met station, noticed it was damaged in shipping but still operable. Zero marking for rel. hum. may track above zero, do not get this marking confused w/ wind ~~speed~~ direction.

Current conditions from on-site station

T ⇒ 24°F

WS ⇒ 4 mPH

WD ⇒ SW

met. tower is located in NE corner of WICK school parking lot.

1433 Start ~~two~~ SAMPLE # DW1 DW1CO

FLOWMETER # ~~540809~~ ARC 00513 ~~532519~~ ARC 00078

VAC 27.5" 27"

CANISTER # 00026 00088

LOCATION: 100' NE of trailer in the turnaround area

12-26 1449 START SAMPLE # DW2
FLOWMETER # ~~132439~~ 00014
VAC 27"
CANISTER # 00385
LOCATION: 15' W of railroad tracks @ RR & powerline intersection

1459 START SAMPE # ~~UP3~~ UW3
FLOWMETER # ~~540809~~ 00528
VAC 29.5"
CANISTER # 00388
LOCATION: WICK schoolyard 50' NE of 1st base next to fenceline

1545 DW1 station PPM 0.0 PW1 CO
VAC = 23" VAC = 22.5"

1550 GRID # 457 TOC ⇒ 0.0 PPM
1555 GRID # 409 TOC ⇒ 0.0 PPM
1600 GRID # 366 TOC ⇒ 0.0 PPM
1605 GRID # 391 TOC ⇒ 0.0 PPM
1606 GRID # 277 TOC ⇒ 0.0 PPM
1611 GRID # 151 TOC ⇒ 0.0 PPM
1615 END OF DIRT ROAD @ FENCELINE TOC ⇒ 0.0 PPM
1625 DW2 STATION TOC ⇒ 0.0 PPM VAC = 21.0"
1635 ~~UP~~ UW3 STATION TOC ⇒ 0.0 PPM VAC = 12.5"
will change flowmeter for tomorrow sampling event
1640 Met station fixed, bent pen slightly, now straightening on unused par. (rel. hum.) current cond.
T = 22°F
WS = 2 MPH
WD = SW

12-26

1645	DW1 STATION	TOC = 0.0 PPM	DW1 VAC = 18.5	DW1CO VAC = 18.0
	GRID #/LOCATION	PPM	GRID#/LOCATION	PPM
1650	457	0.0	409	0.0
1655	366	0.0	277	0.0
1705	151	0.0	END OF ROAD	0.0
1710	DW2	0.0		
1710	DW2	VAC ⇒ 18.0		
1725	UW	VAC ⇒ 3.0	STOP SAMPLE COLLECTION	TOC = 0.0
	GRID / LOC	PPM	GRID / LOC	PPM
1845	DW1	0.0	457	0.0
1850	409	0.0	366	0.0
1855	277	0.0	151	0.0
1900	END OF ROAD	0.0	DW2	0.0
1910	UW	0.0		
	@ 1845 DW1	VAC ⇒ 10.5	DW1CO ⇒ 10.5	
	@ 1900 DW2	VAC ⇒ 10.0	Train Traffic	
1945	DW1	0.0	457	0.0
1950	409	0.0	366	0.0
1955	277	0.0	151	0.0
2000	END OF ROAD	0.0	DW2	0.0
2010	UW.	0.0		
	@ 1945 DW1	VAC ⇒ 6.0	DW1CO ⇒ 6.0	
	@ 2005 DW2	VAC ⇒ 8.0		
2030	Stop DW1 & DW1CO	SAMPLE COLLECTION		
	VAC ⇒ 2.0	VAC ⇒ 3.0		
2045	Stop DW2	SAMPLE COLLECTION	VAC ⇒ 5.0	
	train traffic			
2145	Sign-out			15 hrs

Winds expected to be northerly for 12-27 @ 10-20 MPH

12-27

0600 Met station checked, working correctly, current conditions
WS = 6 MPH TEMP = 8°F wind Dir = NW

0640 Start sample OW4 Flow meter # 00014
canister no: 321 VAC ≥ 28.0"
location: 20' W of RR and 0.55 miles south of Ecorse Rd. GRID # 290

0659 Start sample NW5 Flow meter # 00501
canister no: 00271 VAC ≥ 30.0"
location: 20' W of ~~E~~ dirt ~~Ecorse~~ road and 50' S of Ecorse Rd.

0714 Start sample OW6 OW6CO
canister no: 305 can no: 939188
flow meter no: 00513 meter no: 00078
vacuum ≥ 28.0" vacuum ≥ 27.5
location: end of dirt road @ fenceline

	GRID/LOC	PPM	GRID/LOC	PPM
0756	OW4	0.0	NW5	0.0
	457	0.0	409	0.0
	366	0.0	277	0.0
	151	0.0	OW6	0.0

@0756 OW4 VAC ≥ 22.5"

0902 OW6 VAC = 20" OW6CO VAC = 20"
met conditions WS = 5 MPH WD = W-NW T = 10°F

0914 MET w/ city of Romulus Officer Tim O'neill, explained that I'd be on-site and that trailer has been broken into

0916 NW5 VAC = 19.5"

0930 Contractors, heavy equip. operators arrived on-site

0945 Talked w/ George Farley, had him Fed-x bubble flow meter to be held for pick-up @ Goddard St. Fed-x office.

1000 Fed-x located on W. Goddard Service Rd bldg 714 hrs: 7:30-9:30 pm

12-27

1021 DW4 VAC ⇒ 12.0"

	GRID/LOC	PPM	GRID/LOC	PPM
1022	DW4	0.0	UW5	0.0
1035	457	0.0	409	0.0
1038	366	0.0	277	0.0
1042	151	0.0	DW6	0.0

@ 10:32 UW5 VAC ⇒ 14.0"

1044 DW6 VAC ⇒ 12.0"

1205 UW5 VAC ⇒ 7.0" DW4 ⇒ 4.0"

1230 STOP SAMPLE COLLECTION FOR DW4, START DW7

STOP VAC ⇒ 27.5 START VAC ⇒ 3.0"

Flow meter: 00014 CANISTER NO: 00167

same location as DW4

1244 STOP SAMPLE COLLECTION FOR DW6 VAC ⇒ 3.0 & DW6CO VAC ⇒ 2.5

1246 START SAMPLE DW9 DW9CO

flow meter: 00078 flow meter: 00513

canister no: ~~00050~~ 00109 canister no: 00423

VAC ⇒ 28.0" VAV ⇒ 28"

same location as DW6 & DW6CO

1302 STOP SAMPLE COLLECTION FOR UW5 VAC ⇒ 2.0, START UW8

flow meter no: 00501 canister no: 00288 VAC ⇒ 30.0

location: same as UW5

1442 UW8 VAC ⇒ 22.0"

	GRID/LOC	PPM	GRID/LOC	PPM
1442	DW7	0.0	UW8	0.0
1444	457	0.0	409	0.0
1448	366	0.0	277	0.0
1452	151	0.0	DW9	0.0

1455 DW9 VAC ⇒ 18.0" DW9CO VAC ⇒ 19.0"

12-27

	GRID/LOC	PPM	GRID/LOC	PPM
1600	DW7	0.0	UW8	0.0
1610	457	0.0	409	0.0
1612	366	0.0	277	0.0
1617	151	0.0	DW9	0.0

1650 DW7 VAC ⇒ 10.0" @1656 UW8 VAC ⇒ 13.0"

1705 DW9 VAC ⇒ 9.0" DW9CO VAC ⇒ 10.0

1715	DW7	0.0	UW8	0.0
1720	457	0.0	409	0.0
1723	366	0.0	277	0.0
1727	151	0.0	DW9	0.0

1821 DW9 VAC ⇒ 3.0" DW9CO VAC ⇒ 4.0" STOP SAMPLE COLLECTION

1841 DW7 VAC ⇒ 2.0" Stop sample collection

1852 UW8 VAC ⇒ 4.0" Stop sample collection

1906 Took field blank canister no: 00344 SAMPLE ID UW8FB w/flowmeter: 501

1400 Sign-out 14 hours

12-28 0730 Checked on met station, current conditions NW @ 5 MPH T = 20°F

0944 Start UW10 VAC ⇒ 30.0" canister # ~~00501~~ 00181 QC flowmeter: 00501

location 30' W of dirt road 50' S of Ecorse Rd, same as UW8

0953 Start DW11 VAC ⇒ 27.0" canister # 00247 flowmeter: 00014

location 10' W of Grid marker 100

0958 Start DW12 DW12CO

VAC ⇒ 28.0" VAC ⇒ 28.0"

canister no: 00272 canister no: 00614

flow meter: ~~00109~~ 00078 QC flow meter: ~~00423~~ 00513 QC

location: end of dirt road @ fenceline, same as DW6

12-28

	GRID/LOC	PPM	GRID/LOC	PPM
1001	DW12	0.0	151	0.0
1006	124	0.0	150	0.0
1009	147	0.0	148	0.0
1015	147	0.0	146	0.0
1108	UW10	0.0	457	0.0
1112	409	0.0	366	0.0
1116	321	0.0	277	0.0
1118	151	0.0	DW11	0.0
1125	DW12	0.0		
1200	UW10	0.0	457	0.0
1203	409	0.0	366	0.0
1208	321	0.0	277	0.0
1211	151	0.0	DW12	0.0
1328	UW 10	VAC ⇒ 13.0		
	UW10	0.0	457	0.0
1330	409	0.0	366	0.0
1337	325	0.0	326	0.0
1340	151	0.0	136	0.0
1347	DW11	0.0	DW12	0.0
	DW11	VAC ⇒ 11.5	DW12 VAC ⇒ 9.5	DW12CO VAC ⇒ 11.5
1358	Drums in backhoe shovel 0.0			
1501	UW10	0.0	457	0.0
	409	0.0	366	0.0
1509	empty drum pile	0.0	277	0.0
1515	151	0.0	DW12	0.0

1535 Stop sample collection DW12 VAC ⇒ 3.0 DW12CO VAC ⇒ 4.0

1542 Stop sample collection DW11 VAC ⇒ 4.0

1558 Stop sample collection UW10 VAC ⇒ 2.0

12-28

1606 Recalibrating flow meters

1615 flow meter S/N 00501 10 ml @ 44.83 ⇒ 13.3 cc/in for 6 hr sample time ~10 cc/in

8 hrs new cal 10 ml @ 61.3 ⇒ 9.8 cc/in

1625 flow meter S/N 00078 existing cal 10 ml @ 39.3 ⇒ 15.3

new cal 10 ml @ 58.0 ⇒ 10.3 cc/in

1633 flow meter S/N 00513 10 ml @ 47.3 ⇒ 12.7 cc/in

new cal 10 ml @ 62.3 ⇒ 9.6 cc/in

1644 flow meter S/N 00014 10 ml @ 44.7 ⇒ 13.4 cc/in

new cal 10 ml @ 61.0 ⇒ 9.8 cc/in

	GRID/LOC	PPM	GRID/LOC	PPM
1650	UW10	0.0	457	0.0
	409	0.0	366	0.0
	277	0.0	~~277~~ 151	0.0
	PW12	0.0		

1800 sign-out 10 hrs

12-29

0715 checked net station SW @ 5 MPH T = 15°F

downwind stations should be set up in areas ~398 & 357

upwind - northern part of elementary school.

0813 start PW13 VAC ⇒ 28.0 flow meter: 00014 con: 00286

location: 398 grid (~5' NW), faint fuel-type/tar odor noticeable

0828 start PW14 VAC ⇒ 28.0" PW14 CO VAC ⇒ 28.0"

meter: 00078 con: 00158 meter: 00515 con: 00425

location: 5' W of grid 357

0843 start UW15 VAC ⇒ 30.0" flow meter: 00501 con: 00576

location: WICK schoolyard 50' NE of 1st base, same as UW3

12-29	Bird/loc	ppm	Bird/loc	ppm
0930	Trailer	0.0	457	0.0
0937	409	0.0	DW13	0.0
0945	366	0.0	DW14	0.0
1000	noticed that met tower batteries died @ 0935 this morning			
1021	batteries changed, met station clock advanced to correct time. Current			
	conditions SW @ 5 MPH T = 22°F, upon visual check, no			
	change in wind direction occurred during last 2½ hours			
1030	UW15	0.0	Trailer	0.0
1045	457	0.0	DW13	0.0
1052	402	0.0	366	0.0
1058	DW14	0.0		
1155	Trailer	0.0	457	0.0
1159	DW13	0.0	409	0.0
1204	366	0.0	DW14	0.0
1208	UW15	0.0		
1240	Checked met. station, current conditions SW @ 7 MPH T = 30°F,			
	operational & correct time.			
1255	Trailer	0.0	457	0.0
1300	409	0.0	DW13	0.0
1308	366	0.0	DW14	0.0
1314	UW15	0.0		
1407	Trailer	0.0	457	0.0
	409	0.0	DW13	0.0
1422	366	0.0	DW14	0.0
	UW15	0.0		
	DW14 VAC ⇒ 8.0, should be compl. @ ~1100			
1509	Trailer	0.0	457	0.0
1513	~~366~~ 409	0.0	DW13	0.0
1519	366	0.0	DW14	0.0
1525	UW15	0.0		

12-29

1600 stop sample DW14CO VAC ⇒ 2.0"

1613 stop sample DW13 VAC ⇒ 5.0"

	GRID/LOC	PPM	GRID/LOC	PPM
1607	Trailer	0.0	457	0.0
1612	409	0.0	DW13	0.0
1620	366	0.0	DW14	0.0

1628 stop sample DW14 VAC ⇒ 6.0"

1643 stop sample UW15 VAC ⇒ 3.0 0.0

took field blank UW15FB CAN #: 00264 // hrs

12-30

0715 Checked met station, current conditions SW @ 2 MPH T = 18°F

0740 start sample UW16 VAC ⇒ 30.0" can # 00351 meter: 00501
location: 50' NE of 1st bore, same as UW15

0758 start sample DW17 VAC ⇒ 27.0" can # 00129 meter: 00014
location: grid # 358

0811 start DW18 VAC ⇒ 28.5" DW18CO VAC ⇒ 28.0"
can #: 00143 meter #: 00078 can #: 00144 meter #: 00513
location: grid #232

	Grid/loc	PPM	Grid/loc	PPM
0840	UW16	0.0	Trailer	0.0
0900	457	0.0	409	0.0
0915	exclusion zone	0.0	366	0.0
0918	~~181~~ DW17	0.0	181	0.0
0925	DW18	0.0		
1000	UW16	0.0	Trailer	0.0
1008	457	0.0	409	0.0
1015	366	0.0	exclusion zone	0.0

Product noticable {faint odor noticable yet no reading ~~of~~ on PID

1018	DW17	0.0	181	0.0
1023	DW18	0.0	exclusion zone	0.0

234
1995

	Grid/loc	rpm	Grid/loc	rpm
1102	Trailer	0.0	UW16	0.0
1109	457	0.0	409	0.0
1111	366	0.0	exclusion zone	0.0
1114	DW17	0.0	181	0.0
1122	DW18	0.0		
1230	UW16	0.0	Trailer	0.0
	457	0.0	409	0.0
1252	366	0.0	exclusion zone	0.3-0.9
1300	181	0.0	DW18	0.0
1345	UW16	0.0	Trailer	0.0
	457	0.0	409	0.0
1353	366	0.0	exclusion zone	0.3-0.9
1403	181	0.0	DW18	0.0
1445	UW16	0.0	~~[illegible]~~	
	Met station checked, current conditions: SW @ 4 MPH T=32°F			
1452	trailer	0.0	457	0.0
	409	0.0	366	0.0
1502	exclusion zone	0.0	DW17	0.0
	DW18	0.0		

1540 Stop sample UW16 VAC ⇒ 3.0"
1558 Stop sample DW17 VAC ⇒ 5.0"
1611 Stop sample DW18 VAC ⇒ 6.0" DW18CO VAC ⇒ 2.0"
1700 Sign-out w/o travel time ⇒ 10 hrs w ⇒ 14 hrs

1-1 Compilation of Invoice MDWR-WICK 3 hrs
Travel 4 hrs

Winds expected to be NE @ 10-20 for 1-2

1996

1-2

0700 Sign-in met conditions: NE @ 8MPH T=25°F

0811 Start UW19 VAC ⇒ 30.0" CAN #: 00267 ~~meter~~ meter: 00501

0823 Start DW20 VAC ⇒ 27.0" CAN #: 00177 meter: 00014

location of UW19: 30' NE of dirt road, 30' S of E corner

location of DW20: Grid 114

0833 Start DW21 VAC ⇒ 28.0" DW21CO VAC ⇒ 28.0"

can: 00147 meter: 00078 can: 00276 meter: 00513

location: 100' E of 3rd base on ballfield #2 along fenceline 185' W of Grid 207

	Grid/loc	PPM	Grid/loc	PPM
0930	Trailer	0.0	DW20	0.0
0939	DW21	0.0	457	0.0
0945	409	0.0	366	0.0
0948	exclusion zone	0.0		
1035	DW20	0.0	DW21	0.0
1040	Trailer	0.0	457	0.0
1042	409	0.0	366	0.0
1047	exclusion zone	0.0		
1138	DW20	0.0	DW21	0.0
1141	Trailer	0.0	457	0.0
1146	409	0.0	366	0.0
1148	exclusion zone	0.0		
1250	DW20	0.0	DW21	0.0
1257	Trailer	0.0	457	0.0
1300	409	0.0	366	0.0
1305	exclusion zone	0.0		
1342	DW20	0.0	DW21	0.0
1347	Trailer	0.0	457	0.0
	409	0.0	366	0.0
	exclusion zone	0.0		

1430 Current met conditions: NE @ 10MPH T=22°F

1438	DW21	0.0	DW20	0.0
1450	Trailer	0.0	457	0.0
	409	0.0	366	0.0
1458	exclusion zone	0.0		

1603 Stop sample UW19 VAC ⇒ 4.0"

1613 Stop DW20 VAC ⇒ 6.0"

1618 Stop sample DW21 VAC ⇒ 6.0" DW21CO VAC ⇒ 3.0"

1645 Sign-out 10 hrs

1-3 0700 MET conditions: N-NE @ 5MPH T = 16°F

0818 Start sample UW22 VAC ⇒ 30.0" CAN: 00339 METER: 00501

0830 Start sample DW23 VAC ⇒ 27.0" DW23CO VAC ⇒ 27.0"

CAN: 00216 METER: 00513 CAN: 00149 METER: 00078

0842 Start sample DW24 VAC ⇒ 27.0 CAN: 00609 METER: 00014

UW22 location: 30' E of dirt road & 30' S of Escore Rd.

DW23 & CO location: 50' S of grid marker #205.

DW24 location: Grid marker 242

	Grid/loc	PPM	Grid/loc	PPM
0845	DW 24	0.0	DW23	0.0
0853	Trailer	0.0	457	0.0
0856	409	0.0	366	0.0
0859	exclusion zone @391	0.0		
0949	DW23	0.0	Trailer	0.0
0958	457	0.0	409	0.0
1012	366	0.0	exclusion zone @32	0.0
1100	exclusion zone @391	0.7 - 5.5	Trailer	0.0
	DW23	0.0	DW24	0.0
1205	exclusion zone @391	0.9 - 24.5	366	0.0
	409	0.0	457	0.0
	Trailer	0.0		
	MET conditions	N @ 5MPH	20°F	
1225	DW23	0.0	DW24	0.0
1340	Trailer	0.0	457	0.0
1344	409	0.0	366	0.0
1400	exclusion zone @391	1.0 - 37.4		
1435	DW23	0.0	DW24	0.0
	Trailer	0.0	457	0.0
	409	0.0	366	0.0
1458	exclusion zone @391	2.5 - 55.7		
1555	exclusion zone @391	5.2 - 45.9	366	0.0

1618 Stop sample UW22 VAC ⇒ 2.0" Took field blank UW22FB

0.0 CAN: 00606

1630 Stop sample DW23 VAC ⇒ 2.0 DW23 CO VAC ⇒ 5.0

1642 Stop sample DW24 VAC ⇒ 6.0 10 hrs

1-4 0800 MET conditions: no exp rotation on met station ⇒ calm T = 0°F.

Upon plume observation there appears to be a slight south-westerly wind direction

1-4

0844 Start HW25 VAC ⇒ 30.0" CAN: 00265 METER: 00501

location: 185' W of grid marker #207

0902 Start DW26 VAC ⇒ 26.0" CAN: 00623 METER: 00014

location: 15' SE of grid marker #398 ~35 from exclusion zone tape

0910 Start DW27 VAC ⇒ 27.0" DW27CO VAC ⇒ 27.5"

CAN: 00341 METER: 00078 CAN: 00320 METER: 00513

location: 20' NW of grid marker 357

0930 Checked met stations, still calm wind conditions, cups rotating only occasionally. S-SW winds observed. Plume direction indicates SW wind direction

1015 met conditions, station indicates SW @ 5MPH since 0945 T=12°F

~~1022~~	Grid/loc	PPM	Grid/loc	PPM
1022	HW25	0.0	trailer	0.0
1030	457	0.0	409	0.0
1032	366	0.0	DW26	0.0
	DW27	0.0		
1400	trailer	0.0	457	0.0
	409	0.0	366	0.0
1422	DW26	2.3	DW27	0.0
1428	containment area	0.0 - 0.5		
1510	trailer	0.0	457	0.0
	409	0.0	366	0.0
1525	DW26	3.4		
1644	Stop HW25	VAC ⇒ 2.0" ~~0.0~~		0.0
1702	Stop DW26	VAC ⇒ 4.0"		5.7
1710	Stop DW27	VAC ⇒ 7.0	DW27CO	VAC ⇒ 2.0
		0.0		0.0
1720	containment area	0.0		
1800	Sign-out			10 hrs

1-5

0730 Checked met station, current conditions: W @ 5 MPH 0°F

1-5

0822 Start UW28 VAC ⇒ 30.0" CAN #: 00274 METER #: 00501

location: 30'S of Coarse & 30'W of dirt road

0836 Start DW29 VAC ⇒ 28.0" CAN #: 00410 METER #: 00513

DW29CO VAC ⇒ 27.0" CAN #: 00413 METER #: 00078

location: 35'S of grid marker #398 & 5'E, on very edge of incline

0852 Start DW30 VAC ⇒ 27.0" CAN #: 00575 METER #: 00014

location: 10' NE of grid marker #358

	Grid/Loc	PPM	Grid/Loc	PPM
0912	UW28	0.0	DW29	0.0-1.2
	DW30	0.0	containment area	0.0
1002	UW28	0.0	457	0.0
1006	409	0.0	366	0.0
	DW29	0.0-0.3	DW30	0.0
1020	containment area	0.0		

1058 ~~Cor~~ Wind direction shifted slightly from W to NW since 1000

1108	UW28	0.0	457	0.0
1112	409	0.0	366	0.0
	DW29	0.0-0.6	DW30	0.0
1130	cont. area	0.0-1.4		

1230 checked met condition: wind direction now N-NW

	UW28	0.0	457	0.0
	409	0.0	366	0.0

1250 moved DW29 ~~from~~ to 30'S, 45'E of marker 391.

DW29@391 0.0-3.0

Will not move DW30 as ~~too~~ it is still downwind of 391.

1315	DW30	0.0	containment area	0.0-0.4
1408	UW28	0.0	457	0.0
	409	0.0	366	0.0
	DW29	0.0-3.4	DW30	0.0
1432	cont. area	0.0-0.6		
1503	UW28	0.0	457	0.0
	409	0.0	366	0.0
	DW9	0.0-1.0	DW30	0.0
1524	cont. area	0.0-0.5		

1-5

1622 Stop UW28 VAC → 2.0"

1636 Stop DW29 VAC → 2.0" DW29CO VAC → 8.0"

1652 Stop DW30 VAC → 5.0"

1700 Sign-out 9 hrs

1-6 0745 Checked met station, current conditions: calm @ 4°F

Upon plume observation → NE direction

0827 Start UW31 VAC → 30.0" CAN: 00445 METER: 00501

location: ~~st~~ 30' S of Ecorse road & 30' E of Dirt road

0838 Start DW32 VAC → 28.0" CAN: 00291 METER: 00513

DW32CO VAC → 28.0" CAN: 00134 METER: 00078

location: 50' S of grid marker #205

0949 Start DW33 VAC → 28.0" CAN: 00346 METER: 00014

location: 185' W of marker 207 & 10' S of fence

took field blank DW33FB CAN: 00257 METER: 00014

	Grid/loc	PPM	Grid/loc	PPM
0903	UW31	0.0	DW32	0.0
	DW33	0.0	457	0.0
1005	DW32	0.0	DW33	0.0
	UW31	0.0	457	0.0
	409	0.0	366	0.0
	cont. area	0.0		
1104	DW32	0.0	DW33	0.0
	UW31	0.0	457	0.0
	409	0.0	366	0.0
	cont. area	0.0		
1145	DW32	0.0	DW33	0.0
	UW31	0.0		
1245	cont. area	0.0	366	0.0
	409	0.0	457	0.0
	UW31	0.0	DW32	0.0
	DW33	0.0		
1355	DW33	0.0	DW32	0.0
	UW31	0.0	457	0.0
	409	0.0	366	0.0
	cont. area	0.0		
1505	DW33	0.0	DW32	0.0
	UW31	0.0	457	0.0
	409	0.0	366	0.0
	cont. area	0.0		

1-6

1622 Stop UW31 VAC ⇒ 2.0"

1633 Stop DW32 VAC ⇒ 2.0" DW32CO VAC ⇒ 5.0"

1638 Stop DW33 VAC ⇒ 6.0" MDNR 12 hrs

1-7 travel MDNS 5 hrs

1-8 TCE, TCA, PCE timeline

- Analytical Chemistry Journal for ref.
- Journal of Chem. Education.

Computer dir - Chooser, net modem, USM mainframe library search

- first read Mary's timeline.
- review her ~~bb~~ bibliography and check for any other doc's not accounted for.
- DNAPL article by John Cherry?

1-10 FAX Dan Argentati summary of past MDNR events. Talked w/ John Sonderman yesterday and explained to him only cans ~~w/~~ on COCs are to be analyzed

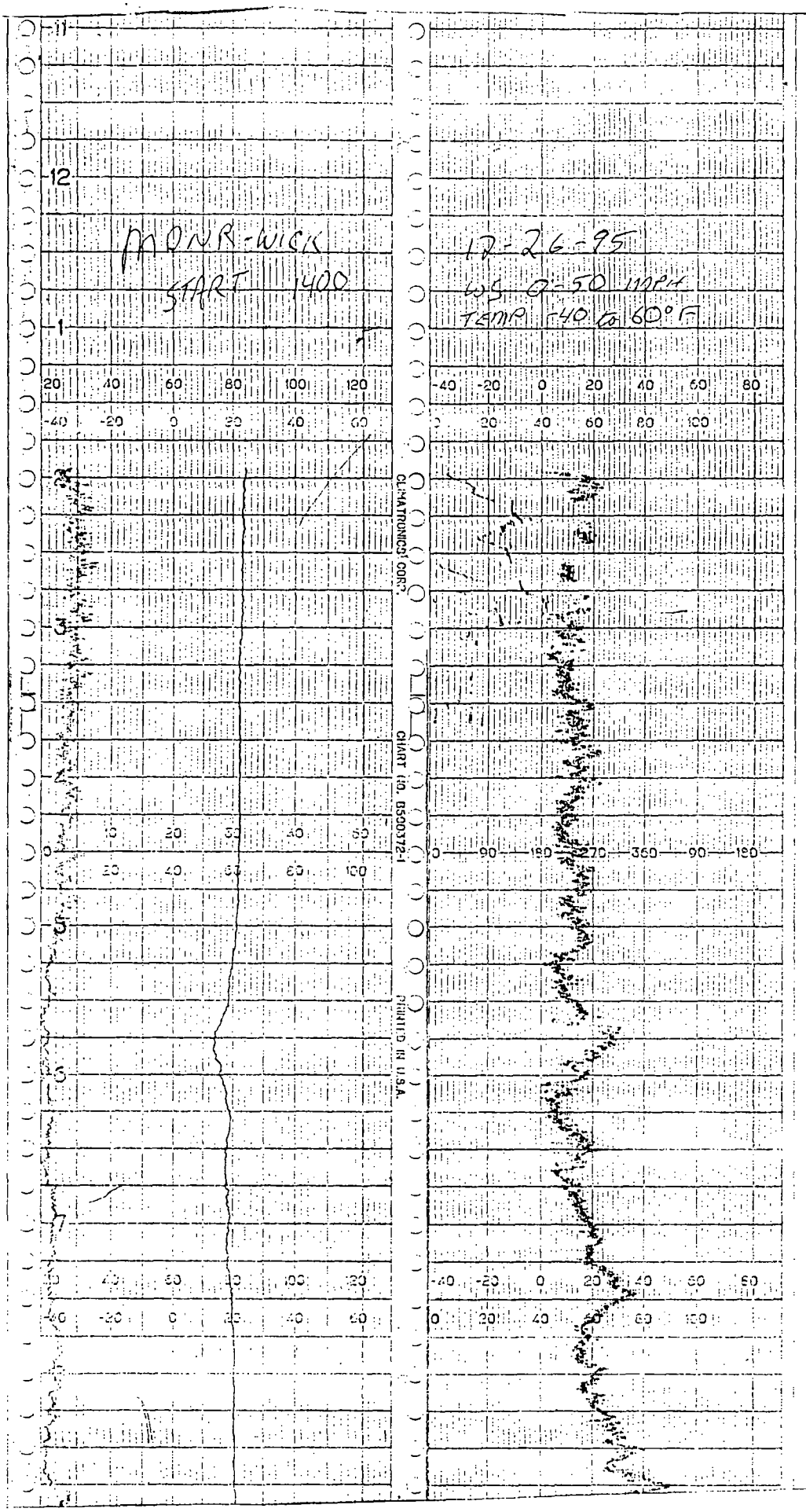
- need autocad drawing from Dan so that I can provide prev. WD and sampling locations
- expense report, revise invoice needed

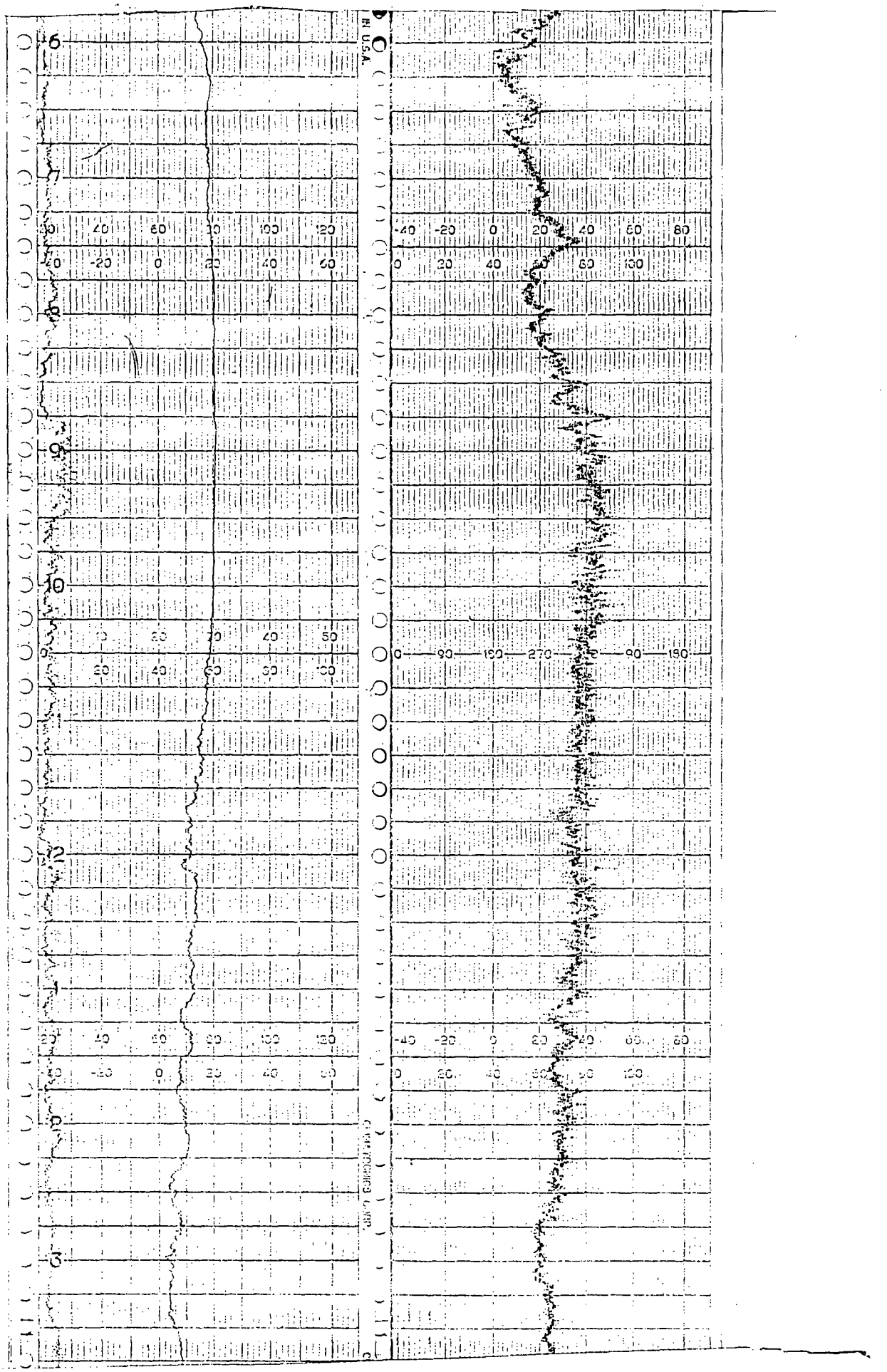
MDNR 1 hr.

1-12 Reviewed faxed copy of analytical results, inc. fax. Called John Sonderman to ask him about rest of results. He said only compounds detected were: acetone, CS_2 in UW8, I told him most likely lab cont. he agreed that it was cert. possible. FAX to Dan Argentati MDNR 1 hr.

APPENDIX C

CHART RECORDED METEOROLOGICAL DATA


MONR-WICK
START 1400
12-26-95
WS 0-50 MPH
TEMP -40 to 60°F
CLIMATRONICS CORP.
CHART NO. B500372-1
PRINTED IN U.S.A.


IN U.S.A.
6
7
8
9
10
11
12
13
-40 -20 0 20 40 60 80
0 20 40 60 80 100
0 90 180 270 90 180

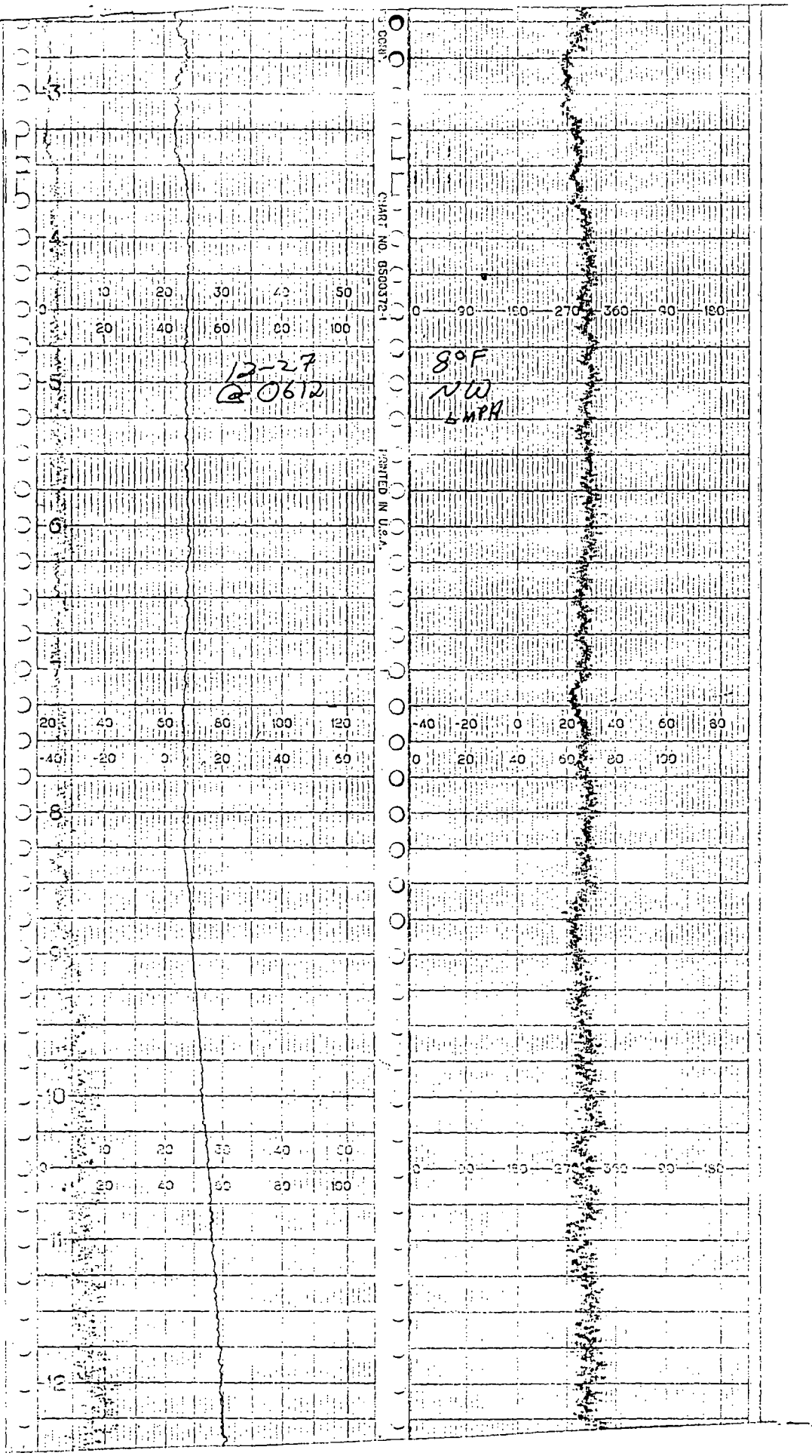
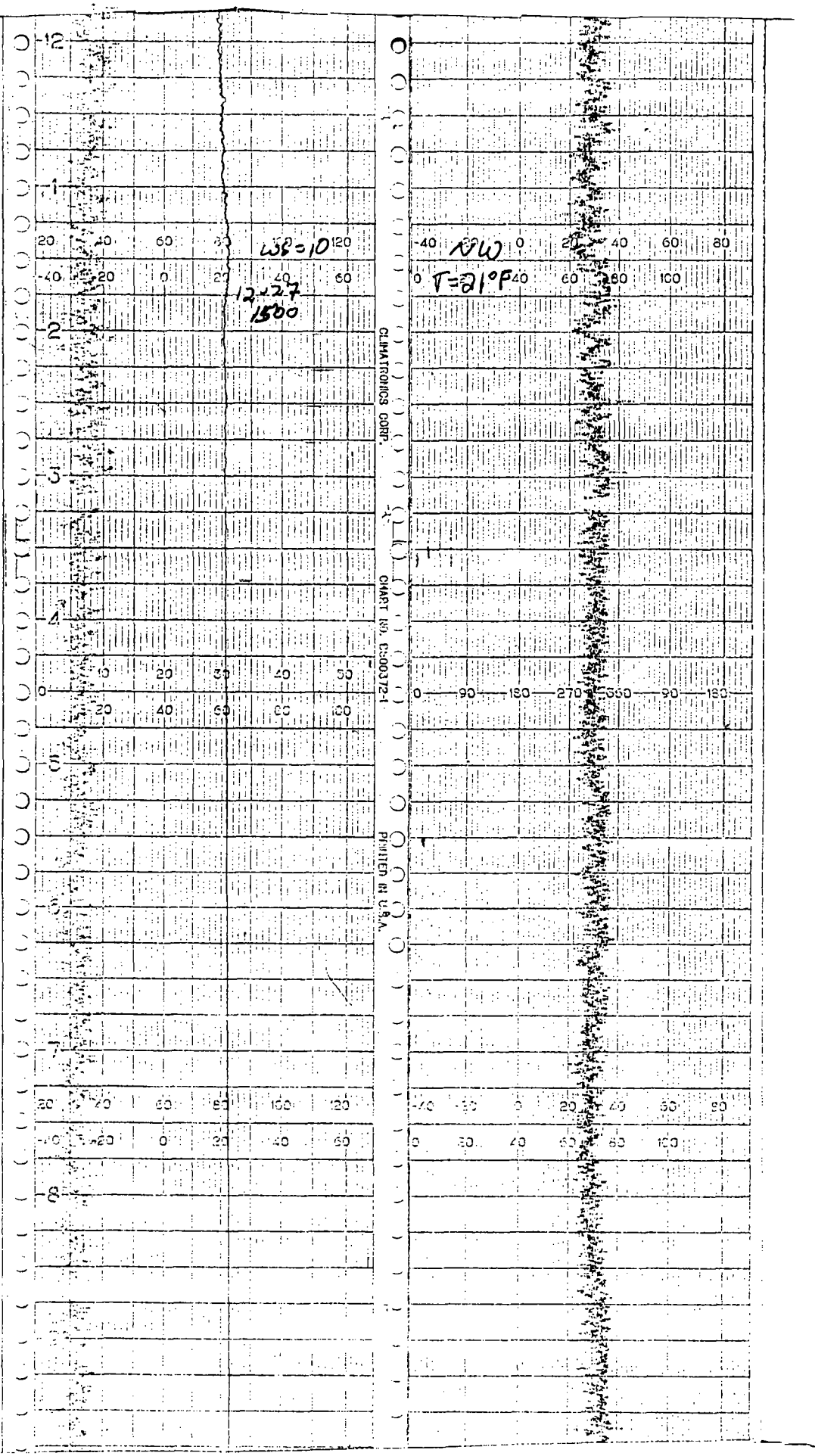
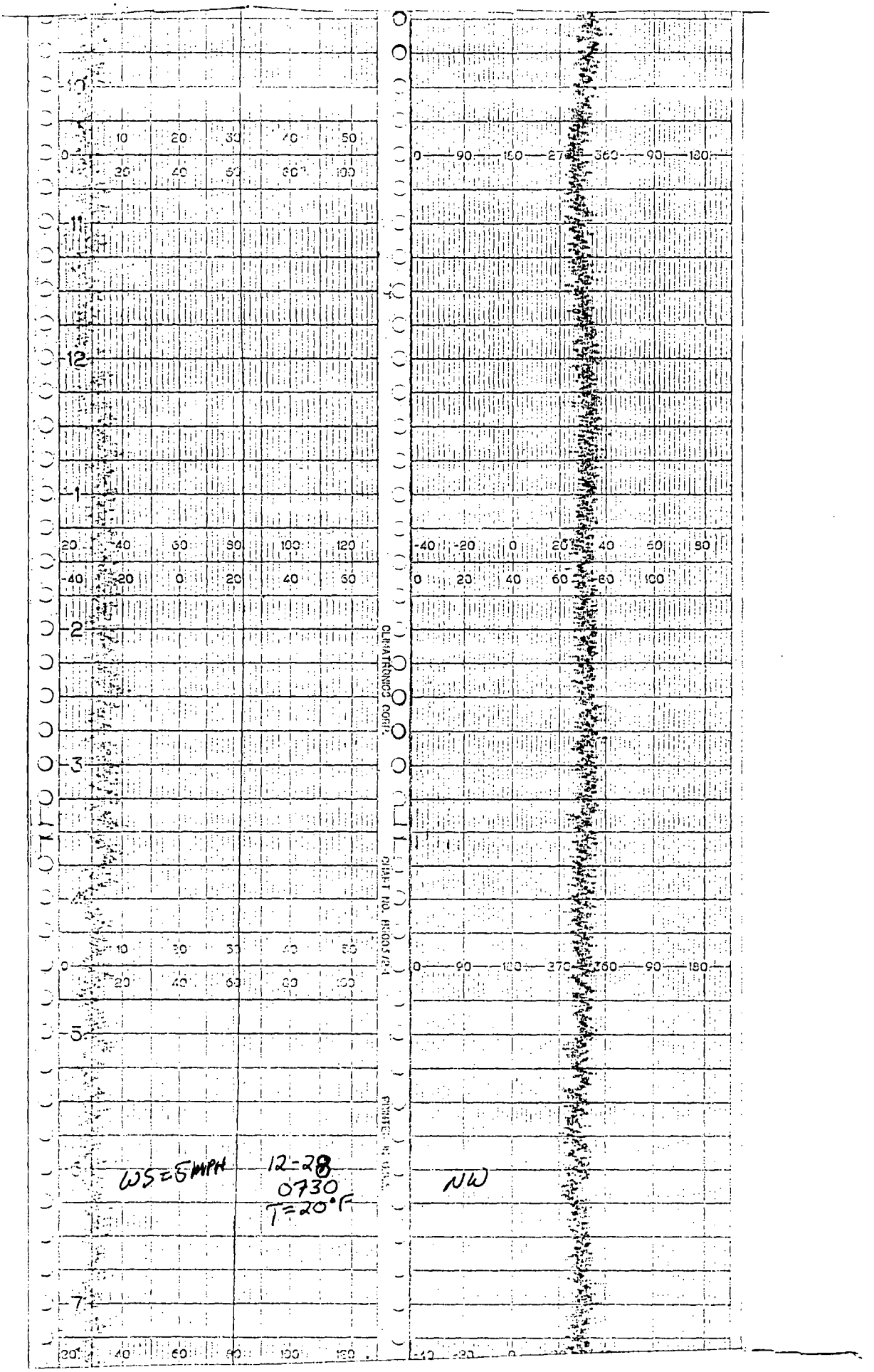
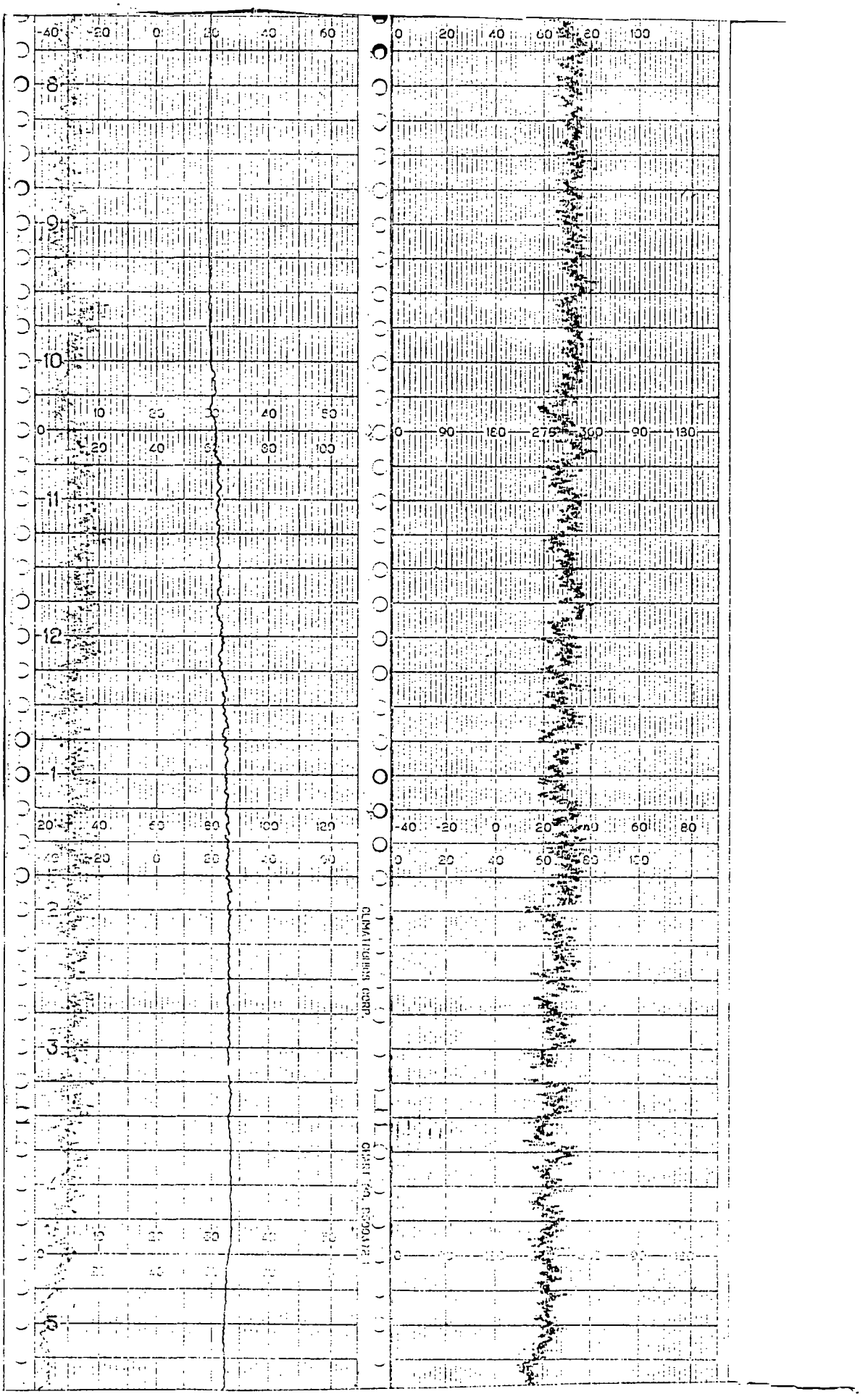


CHART NO. 65C0372-1
PRINTED IN U.S.A.
12-27
@ 0612
8°F
NW
4 MPH


WB=10
12-27
1500
NW
T=21°F
CLIMATRONICS CORP.
CHART NO. 03-00372-1
PRINTED IN U.S.A.


WS=5MPH
12-28
0730
T=20°F
NW


CLIMATIQUES CORP.

6
7
20 40 60 80 100 120
-40 -20 0 20 40 60
10 20 30 40 50
20 40 60 80 100
-40 -20 0 20 40 60 80
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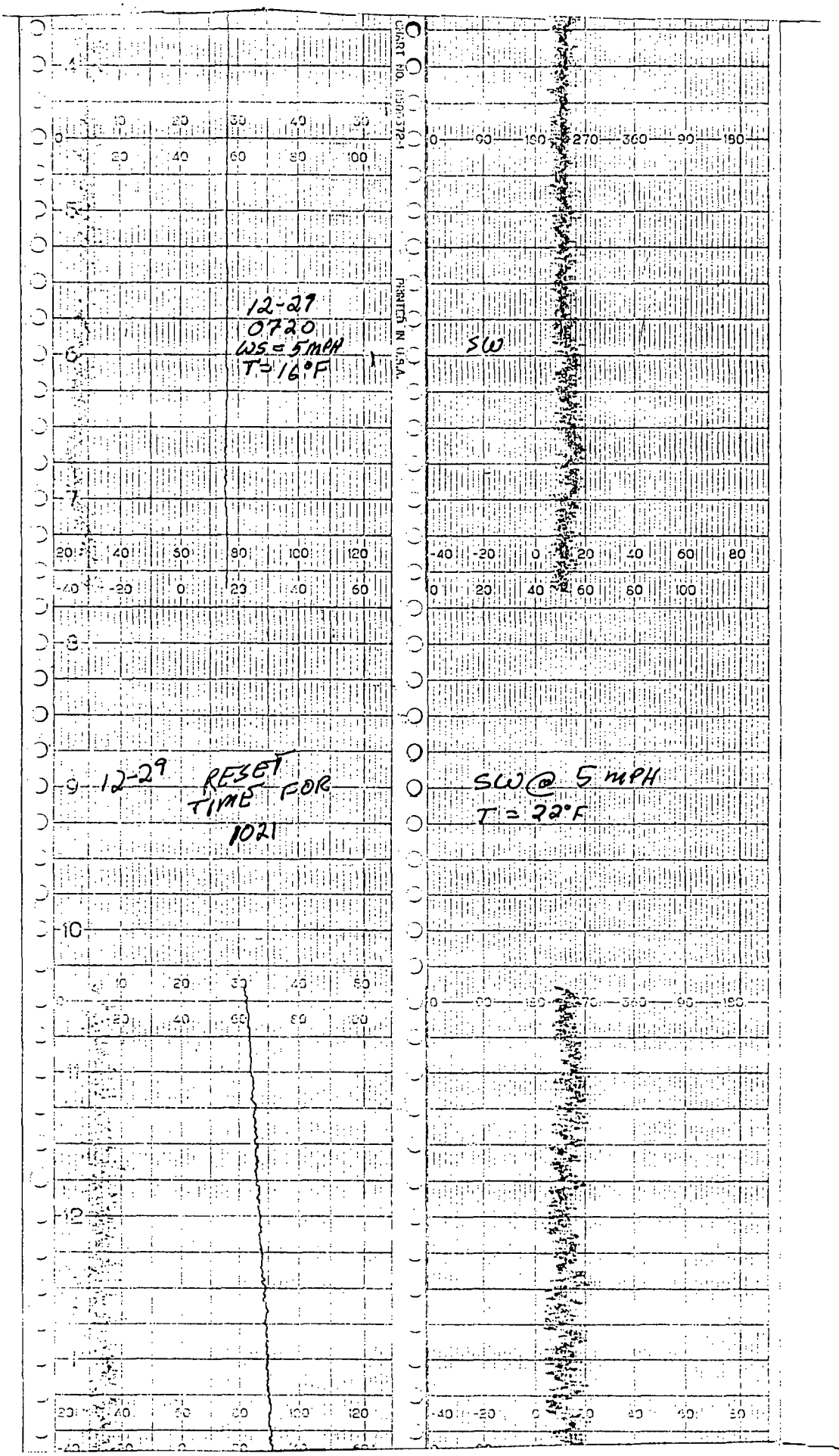
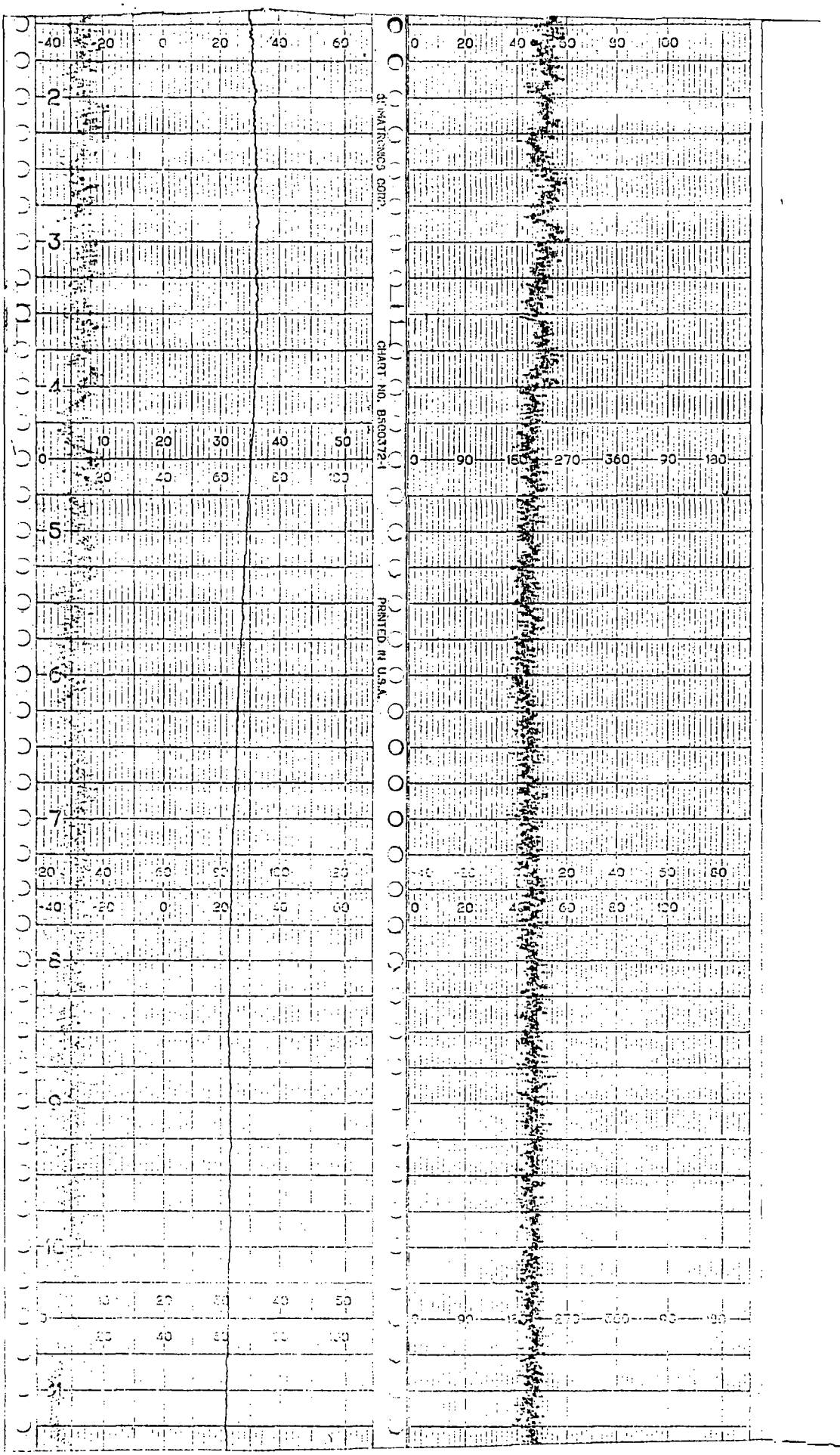
0 90 120 270 360 90 180
CHATTANOOGA CORP.


12-29
0720
WS = 5 MPH
T = 16°F
SW
12-29 RESET TIME FOR 1021
SW @ 5 MPH
T = 22°F
CHART NO. 1500372-1
PRINTED IN U.S.A.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0 20 40 60 80 100
2
3
4
0 10 20 30 40 50
0 20 40 60 80 100
0 90 180 270 360 90 180
5
6
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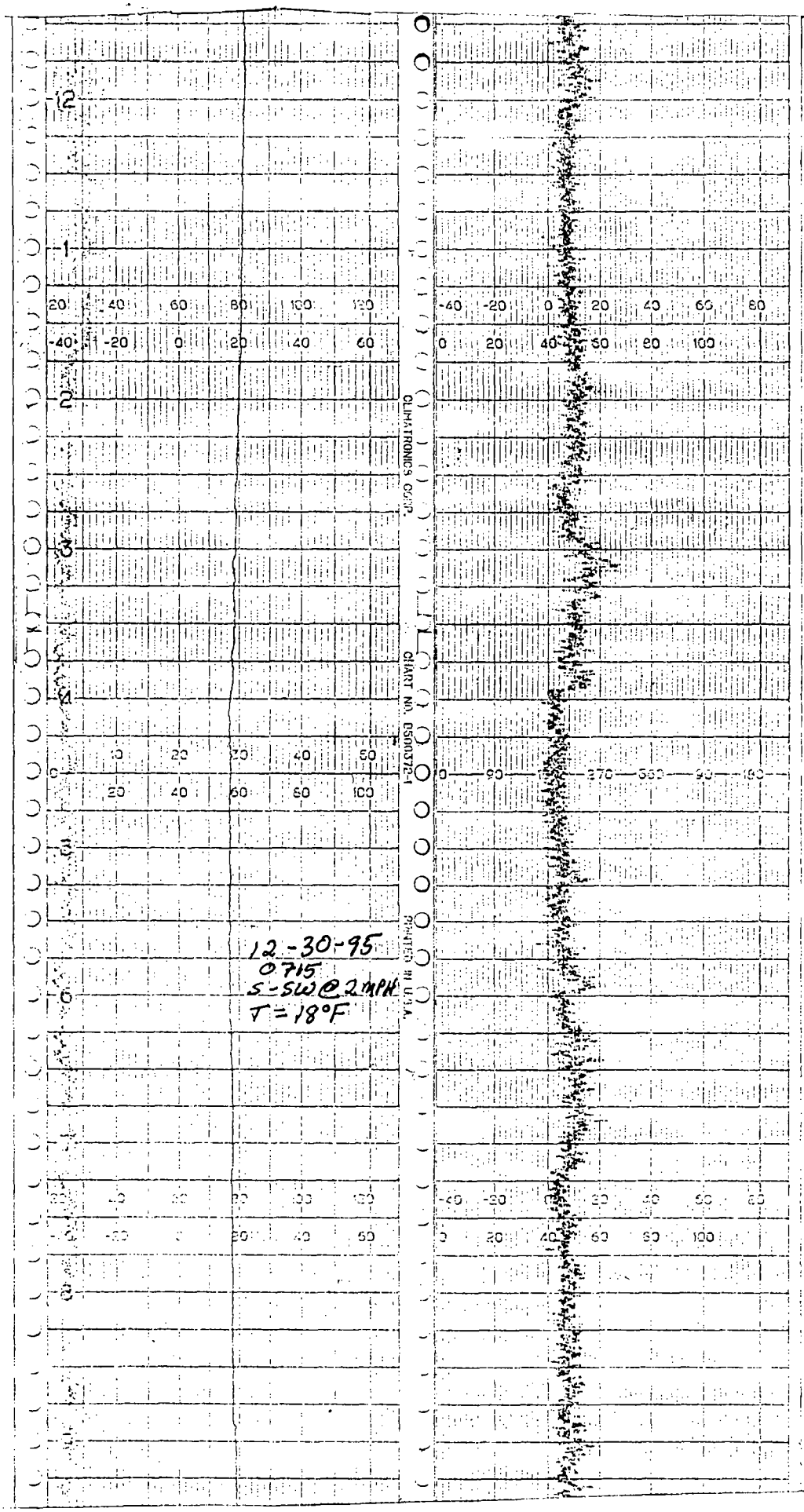
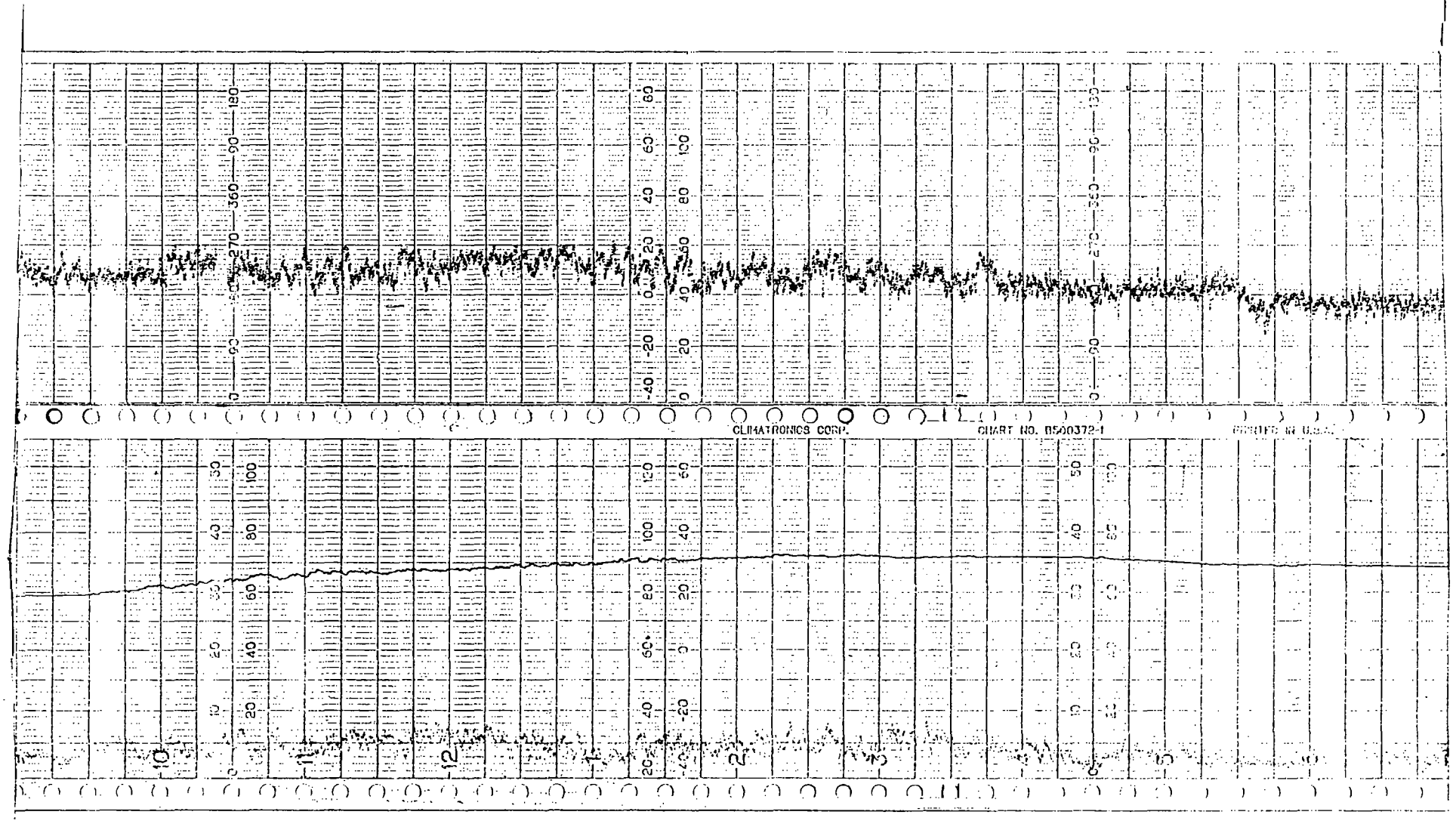
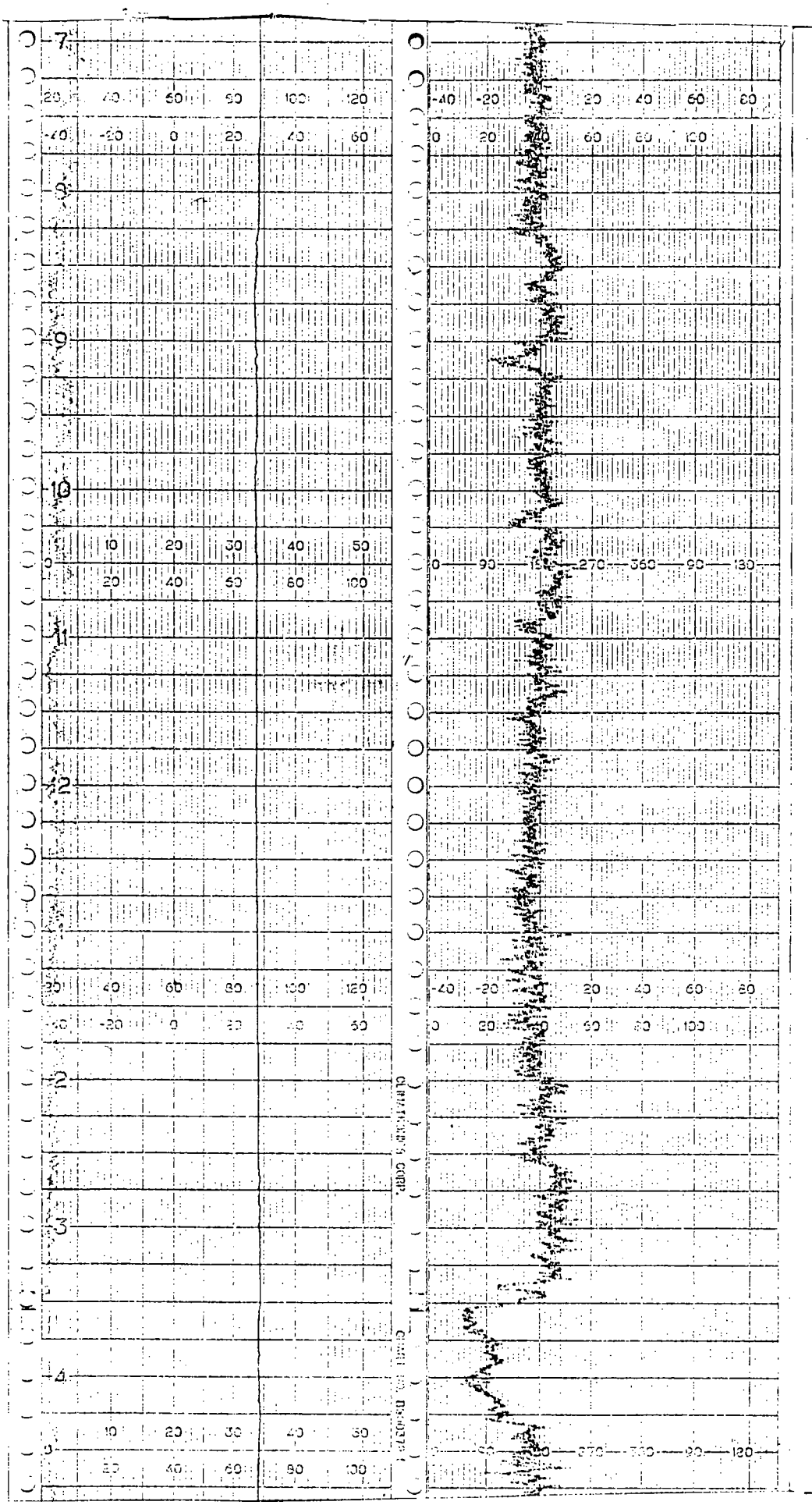
20 40 60 80 100 120
-40 -20 0 20 40 60
0 20 40 60 80 100
8
9
10
0 10 20 30 40 50
0 20 40 60 80 100
0 90 180 270 360 90 180
11
SUMMATRONICS CORP.
CHART NO. B500372-1
PRINTED IN U.S.A.


CLIMATRONICS CORP.
CHART NO. B500372-1
PRINTED IN U.S.A.
12-30-95
0715
S-SW @ 2 MPH
T = 18°F


CLIMATRONICS CORP.
CHART NO. B500372-1
PRINTED IN U.S.A.



5
6
7
8
9
10
11
12
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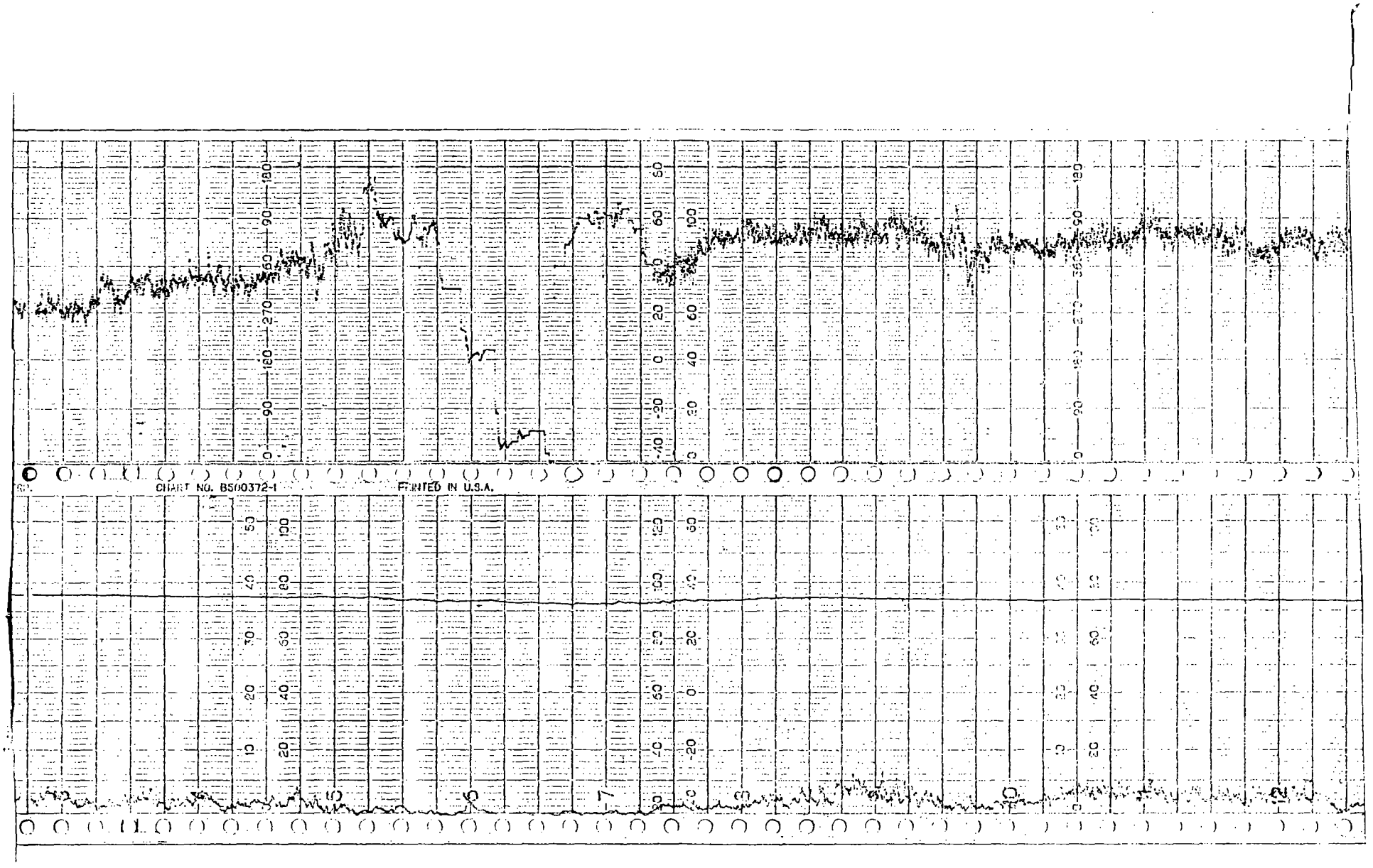
20 40 60 80 100
0 90 180 270 360 90 180
-40 -20 0 40 60 80
0 20 40 60 80 100
PRINTED IN U.S.A.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PRINTED IN U.S.A.

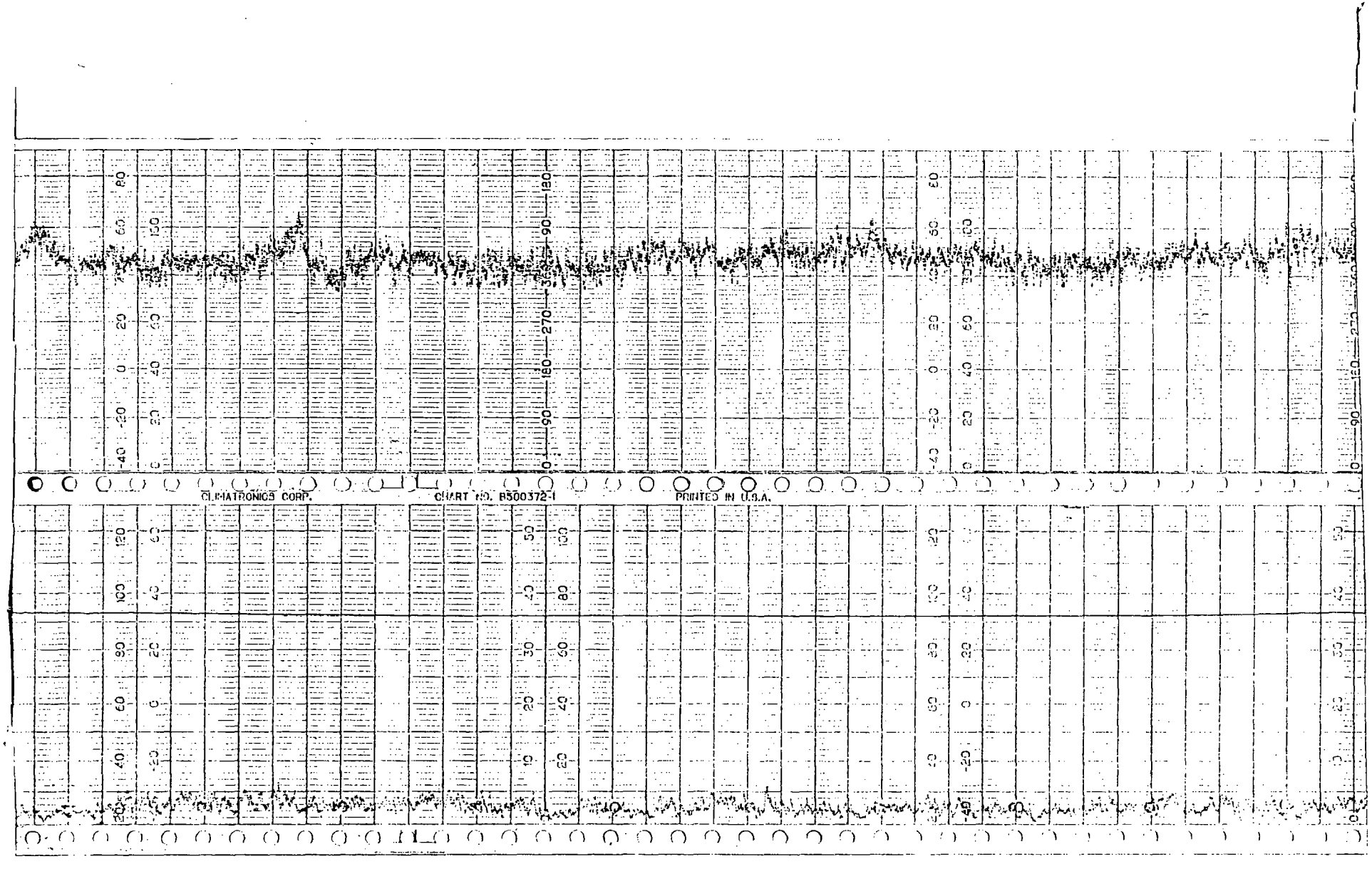
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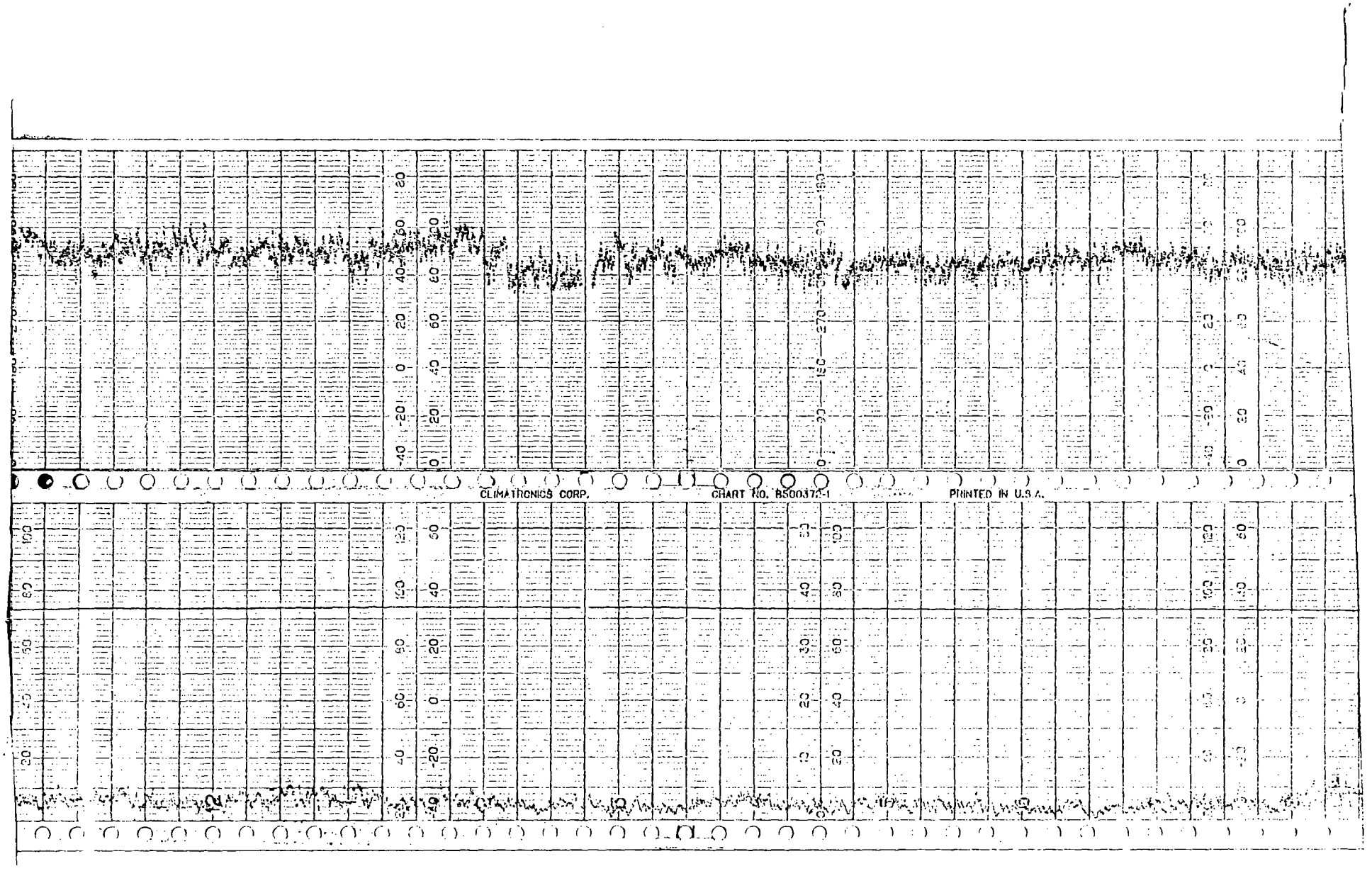
CHART NO. B500372-1
PRINTED IN U.S.A.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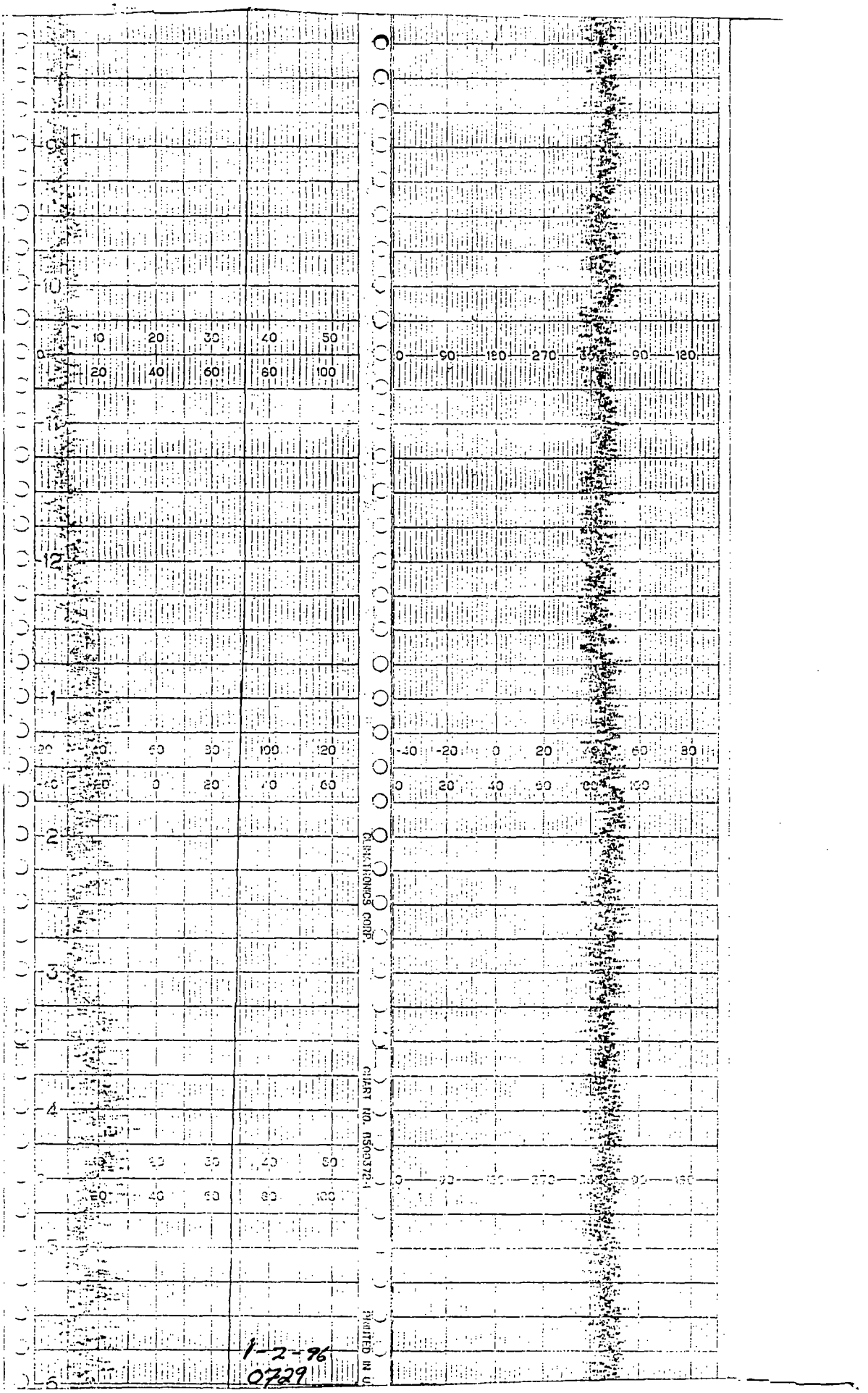
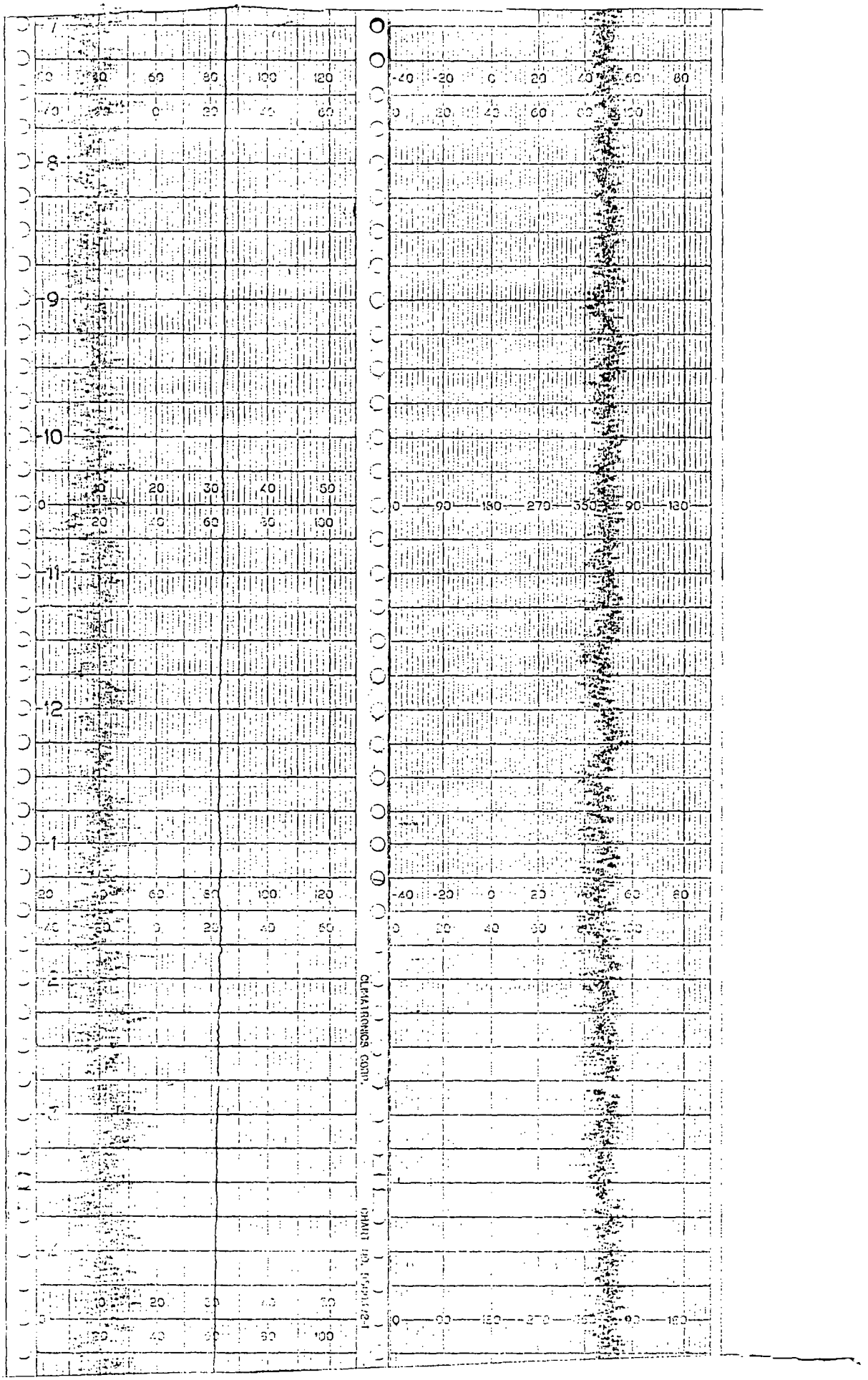
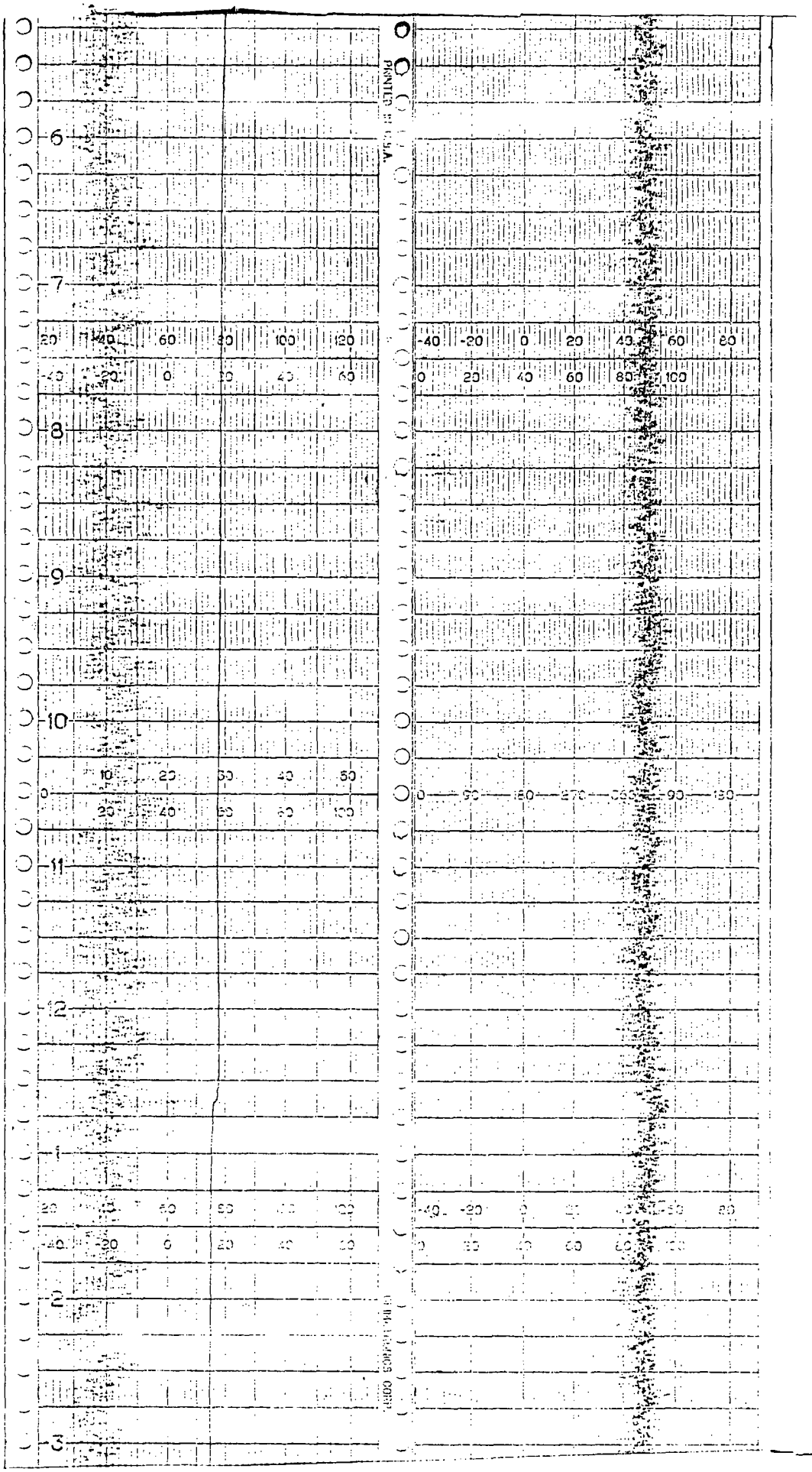
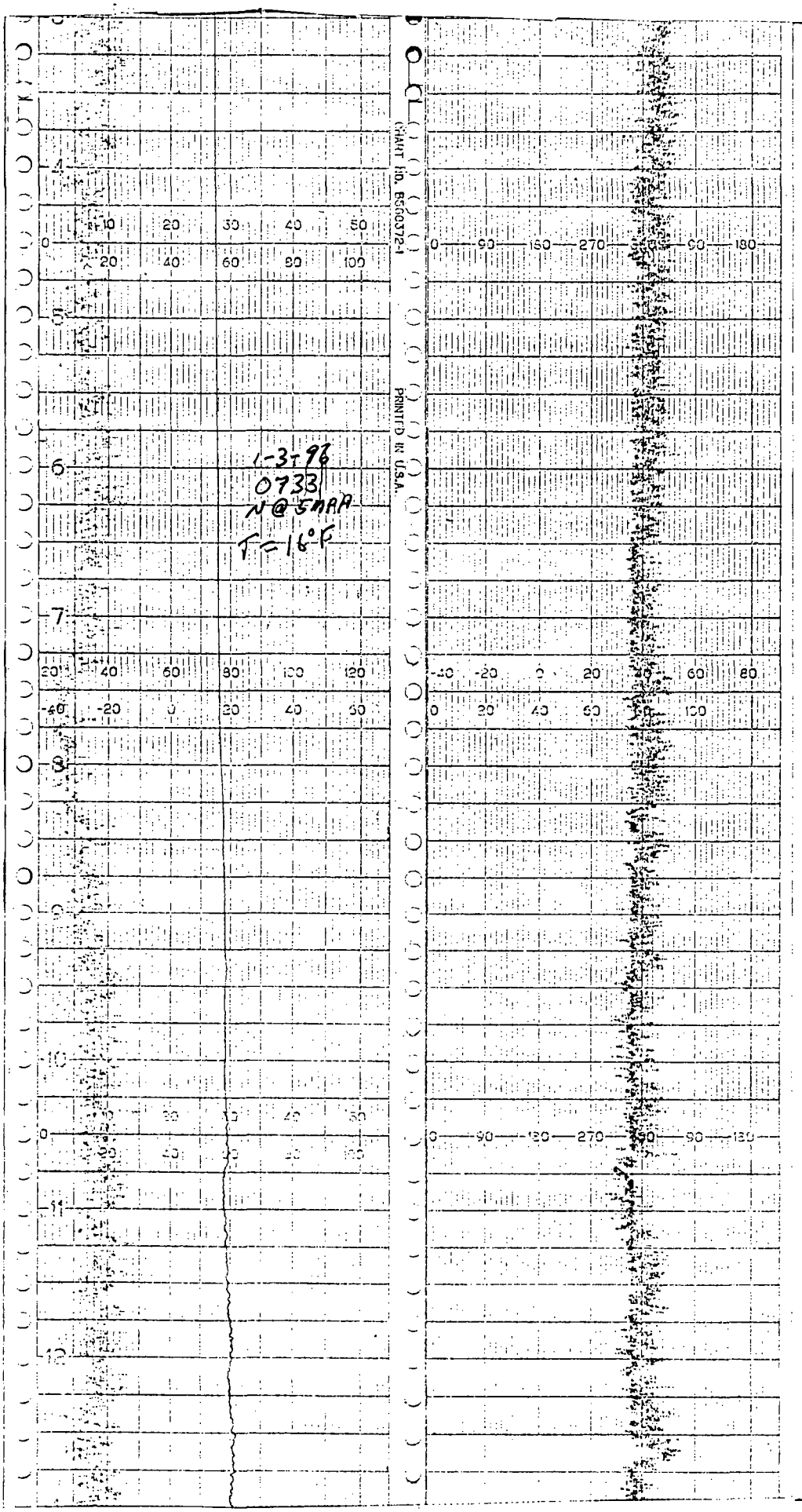
PRINTED IN U.S.A.



CLIMATRONICS CORP.
CHART NO. B500372-1
PRINTED IN U
1-2-96
0729


CLIMATRONICS CORP.


6
7
8
9
10
11
12
1
2
3
20 40 60 80 100 120
-40 -20 0 20 40 60
-40 -20 0 20 40 60 80
0 20 40 60 80 100
10 20 30 40 50
0 20 40 60 80 100
0 90 180 270 360 90 180
20 40 60 80 100 120
-40 -20 0 20 40 60
-40 -20 0 20 40 60 80
0 20 40 60 80 100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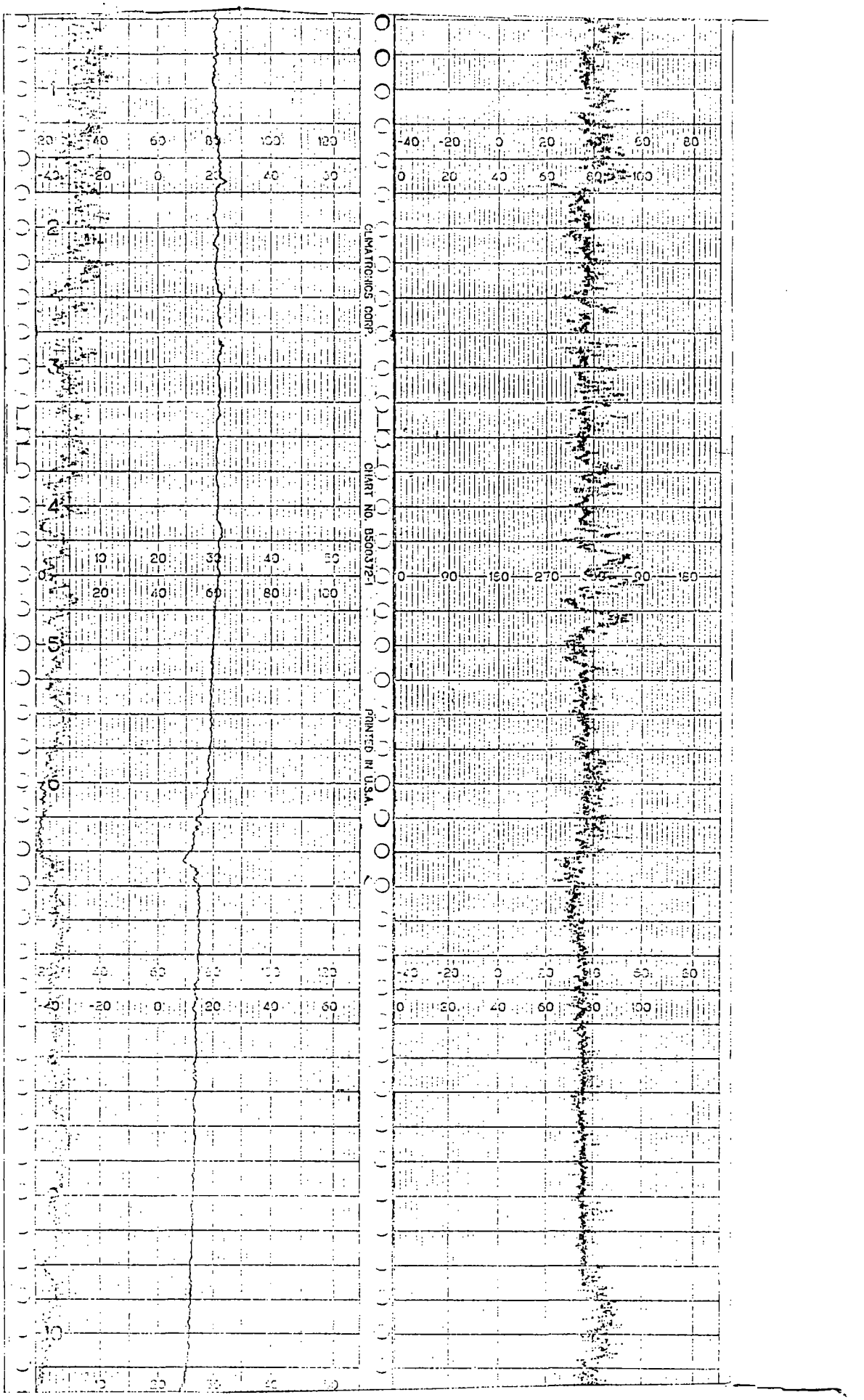
PRINTED IN U.S.A.
1-3-96
0733
N@5MAA
T=16°F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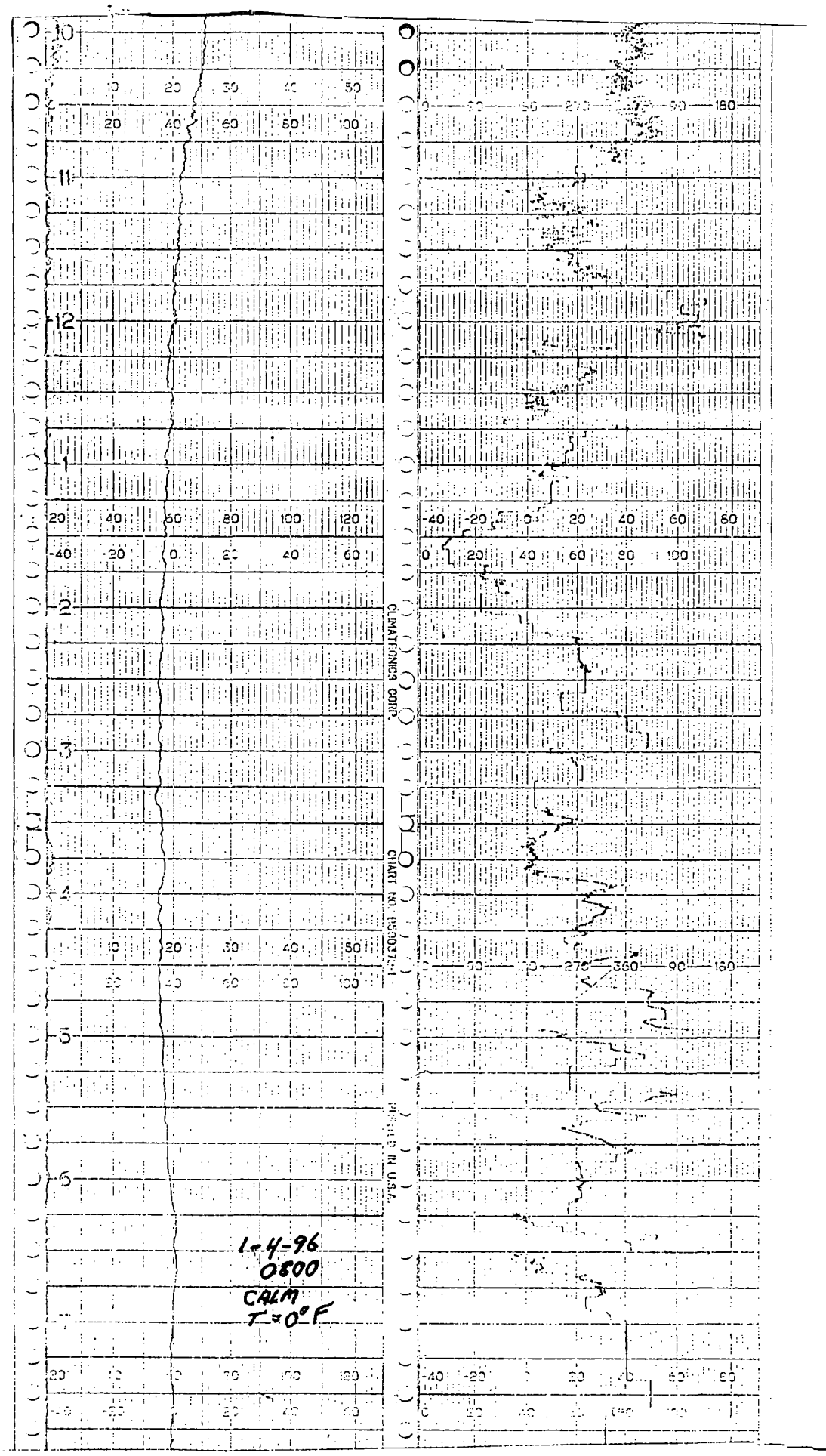
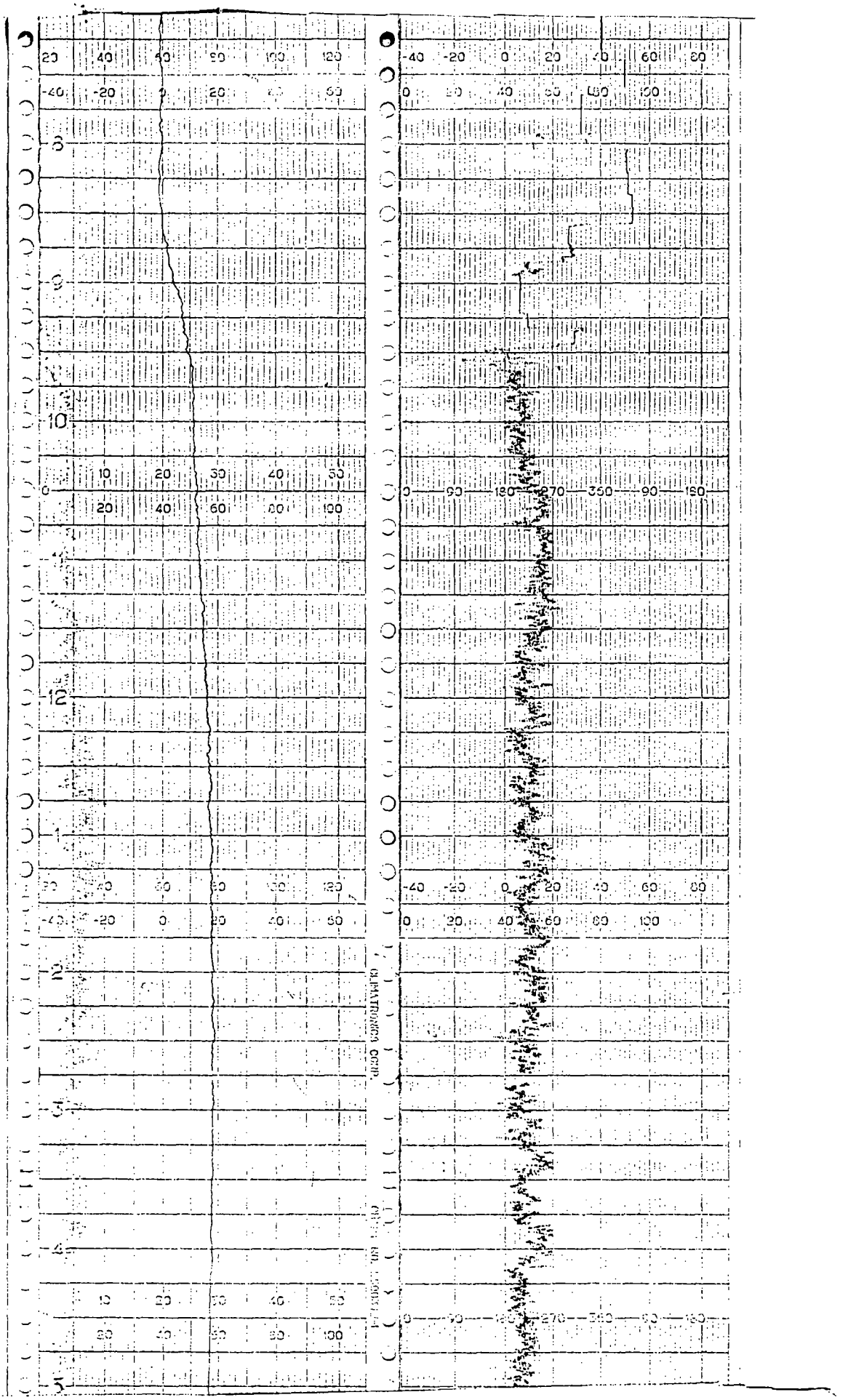
PRINTED IN U.S.A.



CLIMATRONICS CORP.
CHART NO. B50372-1
PRINTED IN U.S.A.
1-4-96
0800
CALM
T=0°F



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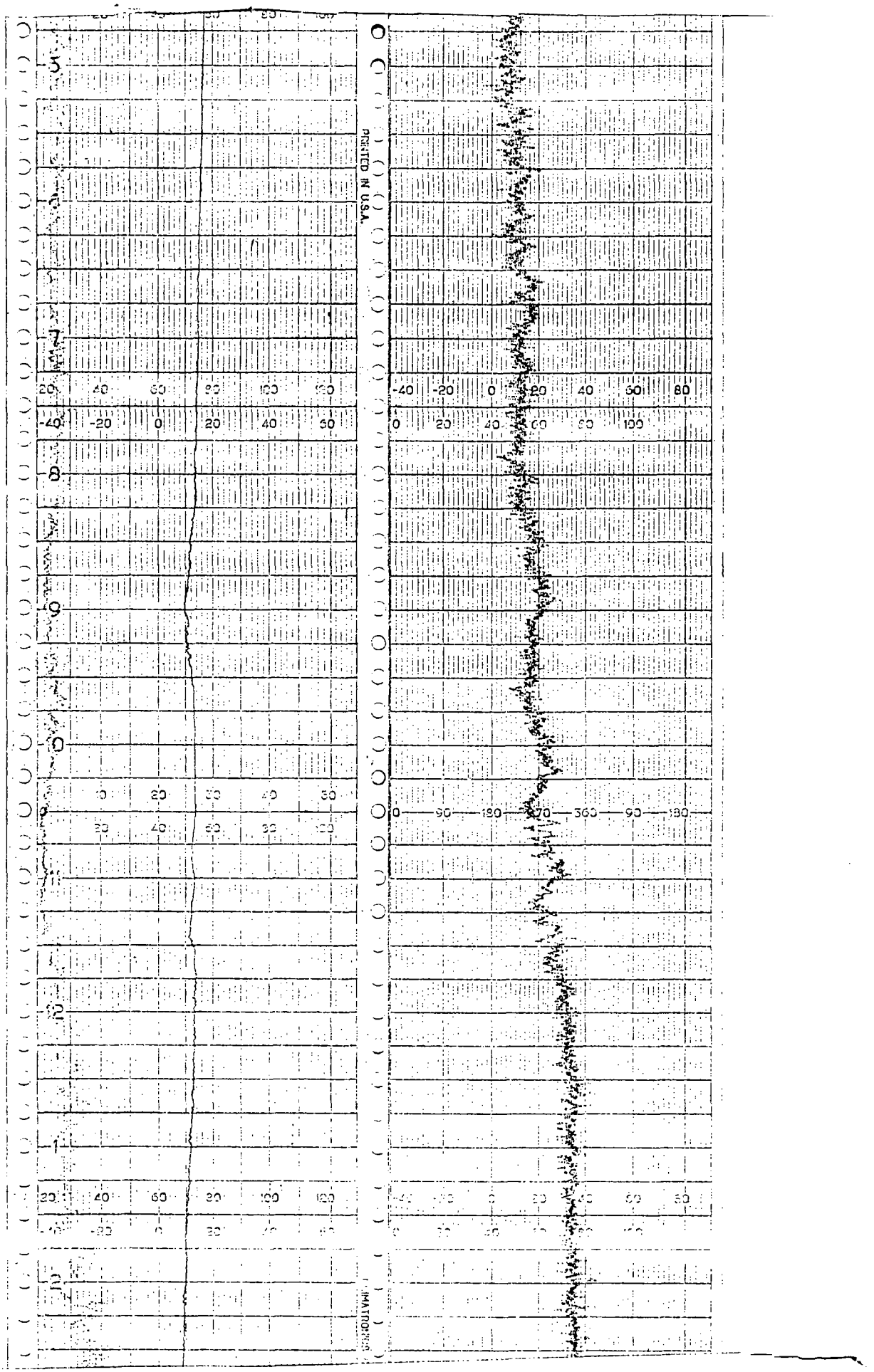

PRINTED IN U.S.A.

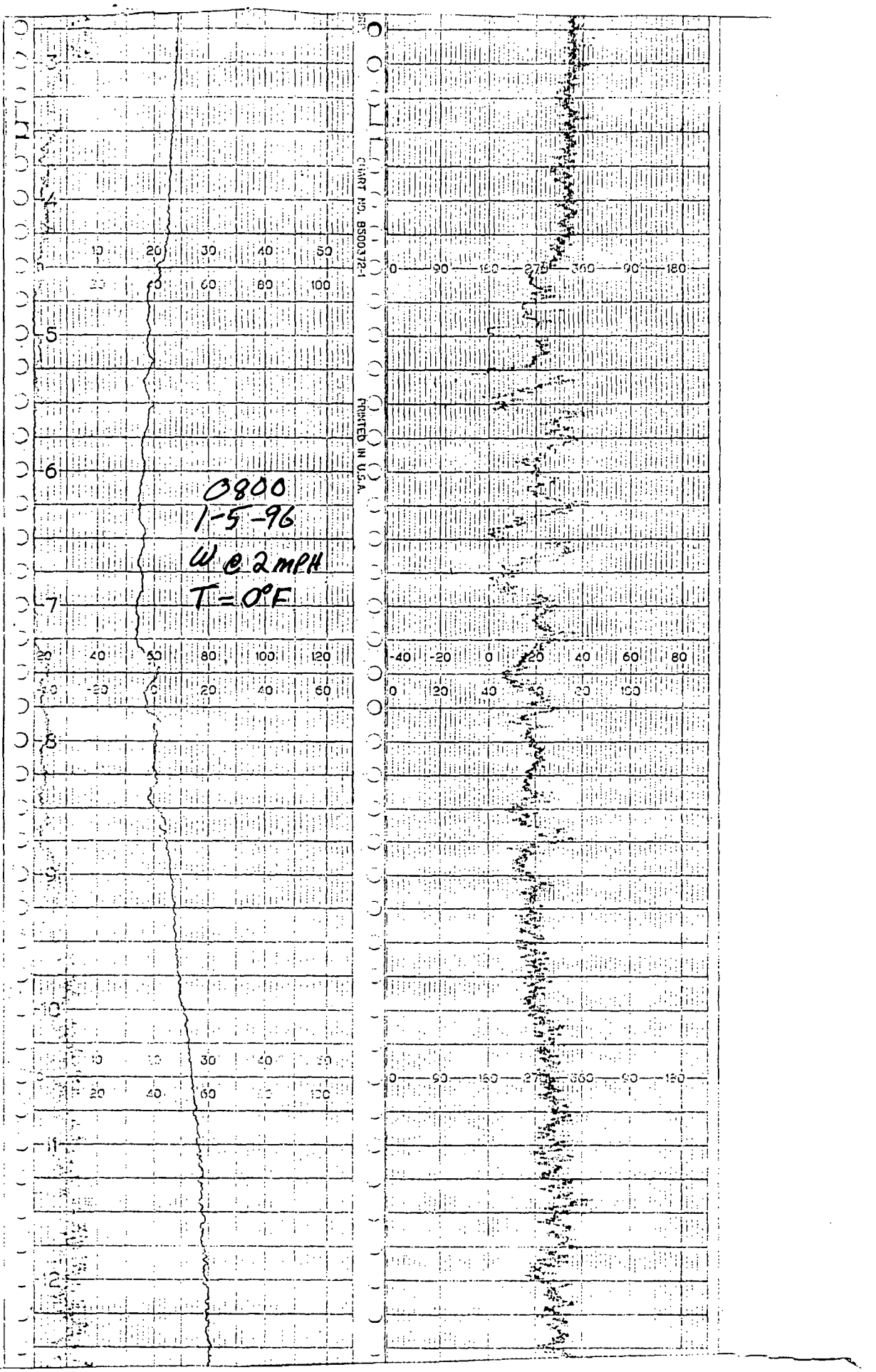
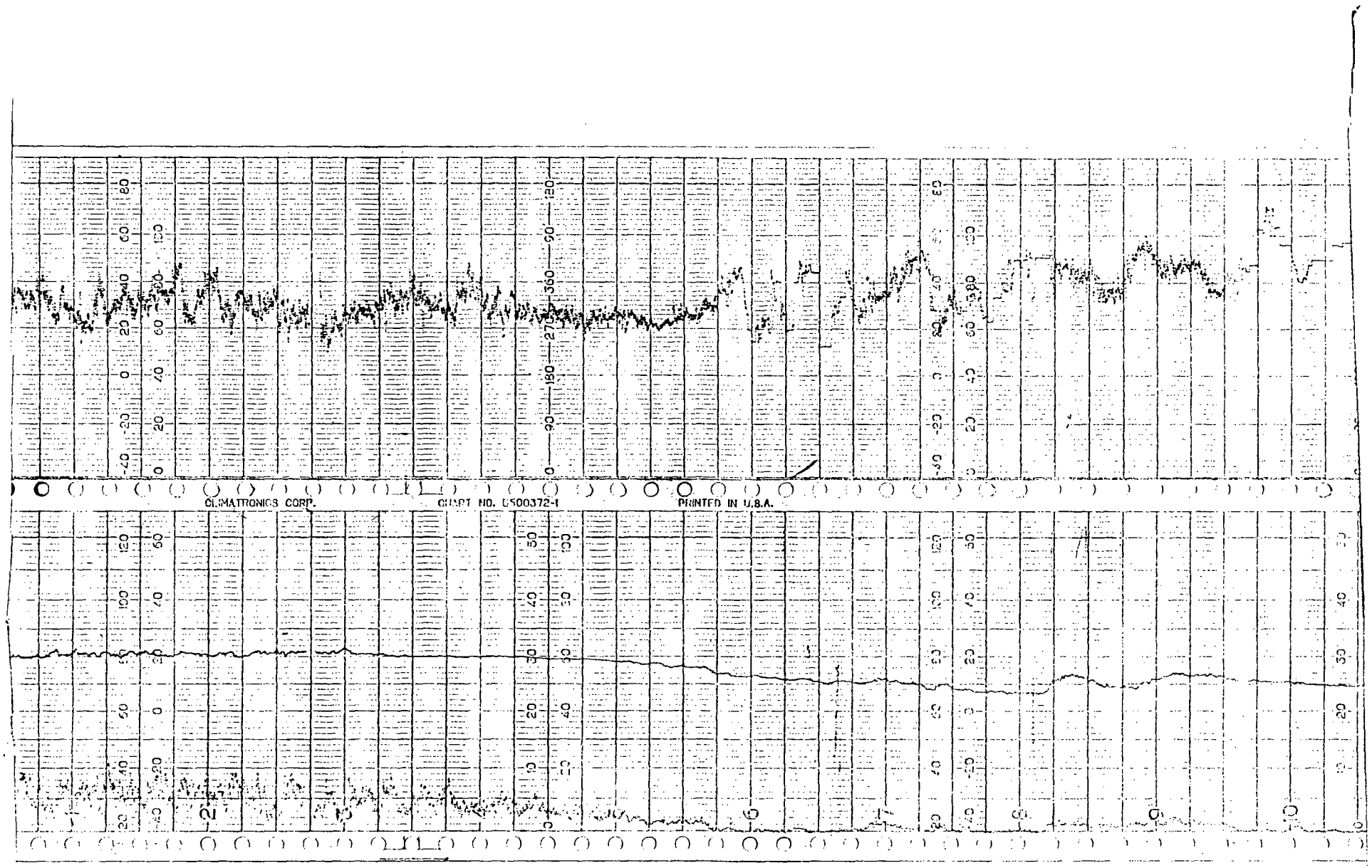
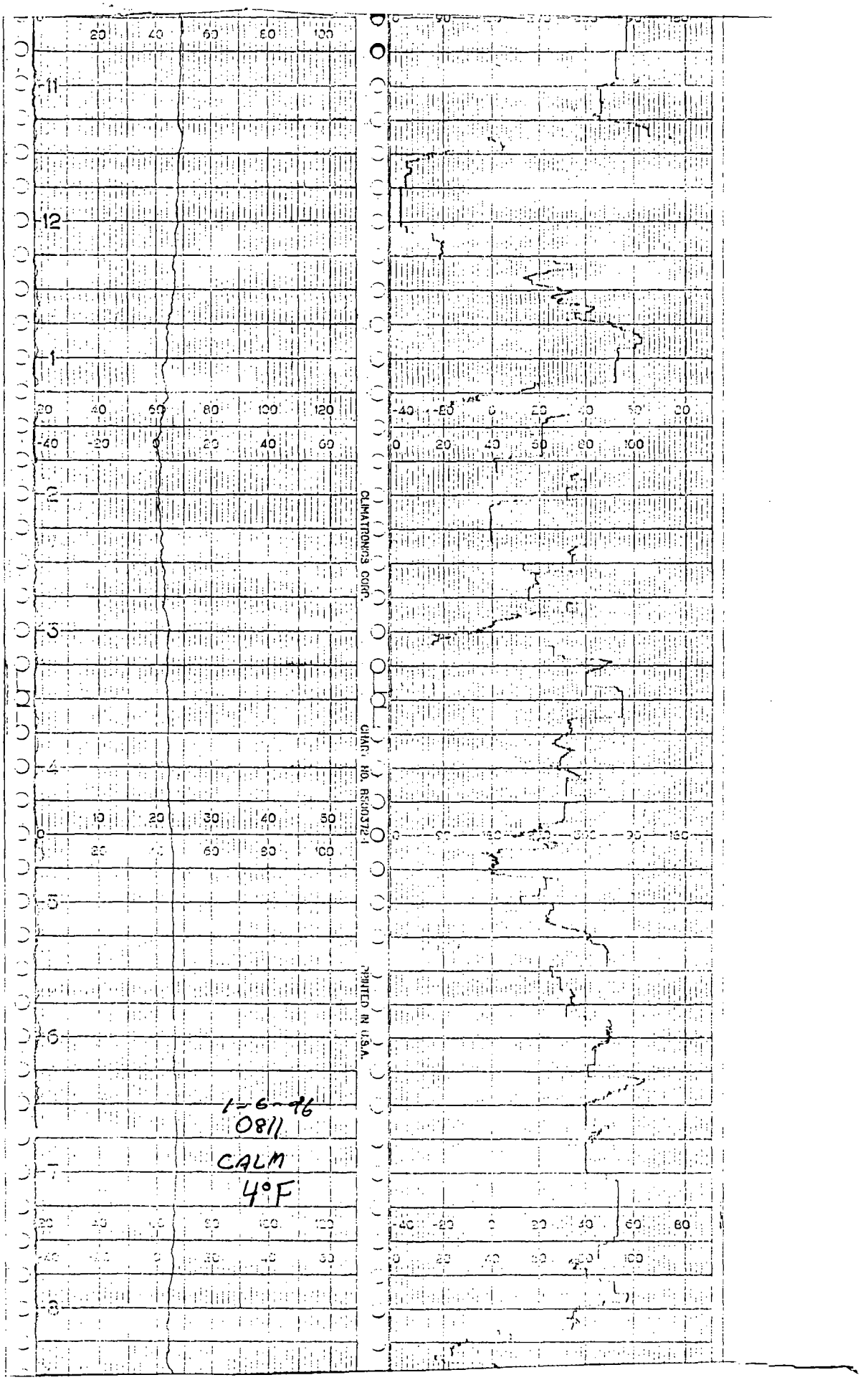
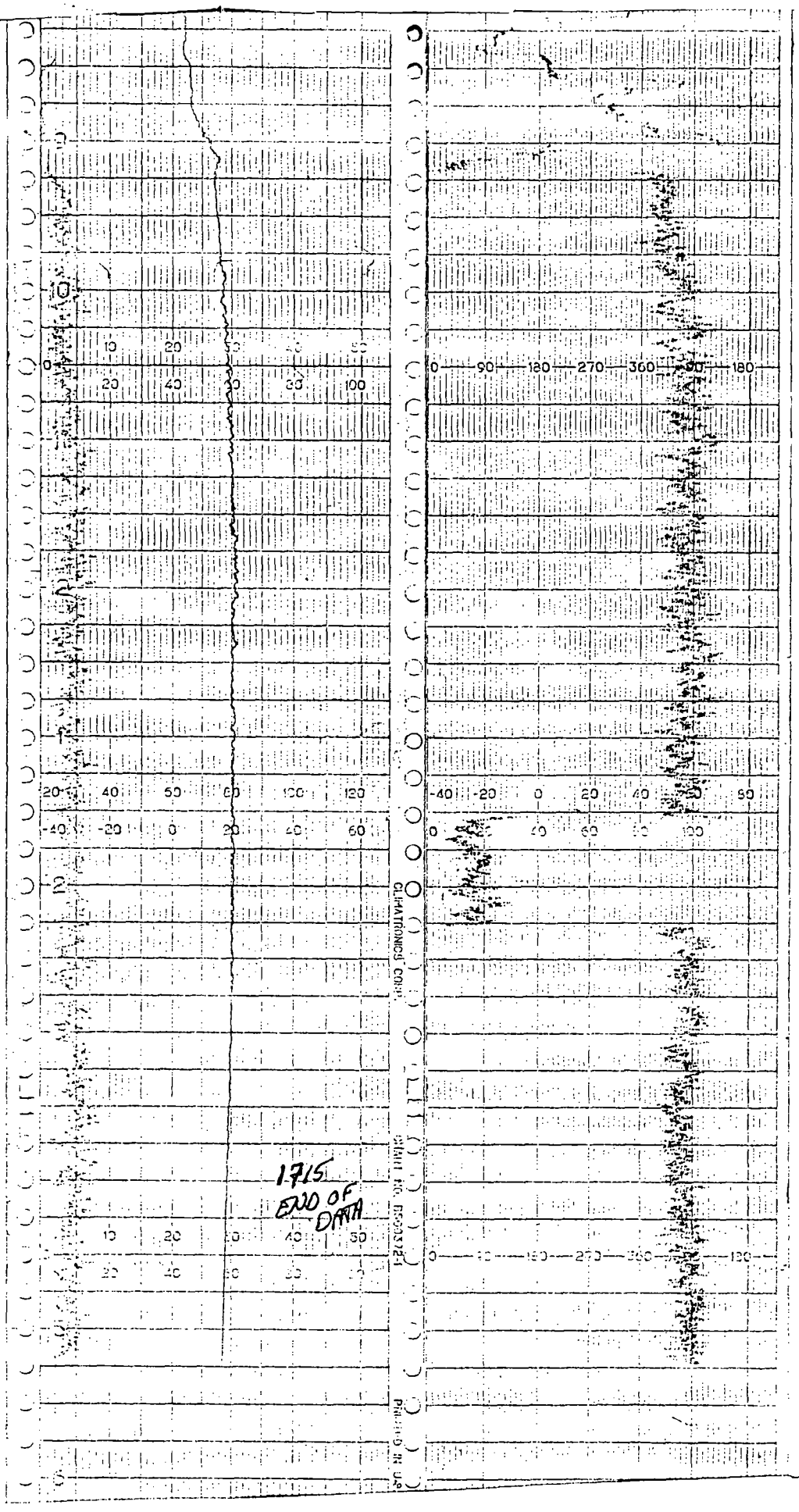


CHART NO. B500372-1
PRINTED IN U.S.A.
0800
1-5-96
W @ 2 mph
T = 0°F


CLIMATRONICS CORP.
CHART NO. U500372-1
PRINTED IN U.S.A.


CLIMATRONICS CORP.
CHART NO. R5003721
PRINTED IN U.S.A.
1-6-96
0811
CALM
4°F


1715
END OF
DATA

APPENDIX D

HALF HOURLY METEOROLOGICAL DATA DURING SAMPLING

METEOROLOGICAL DATA DURING SAMPLING EVENTS
December 26, 1995 through January 6, 1996

Date	Time	Wind Speed (mph)	Wind Dir. (degrees)	Temp. (F)
12-26-95	1400	5	250	23
	1430	5	230	23
	1500	5	230	22
	1530	4	240	22
	1600	4	230	22
	1630	3	250	22
	1700	2	240	20
	1730	1	260	16
	1800	1	230	17
	1830	1	240	18
	1900	1	290	19
	1930	2	270	20
	2000	2	290	20
	2030	3	340	21
12-27-95	630	3	300	8
	700	3	290	7
	730	4	310	7
	800	4	310	7
	830	4	290	9
	900	5	290	11
	930	6	300	12
	1000	6	320	14
	1030	6	300	16
	1100	7	310	17
	1130	8	310	19
	1200	8	310	20
	1230	8	300	20
	1300	7	300	22
	1330	7	320	21
	1400	7	320	21
	1430	8	320	21
	1500	7	330	21
	1530	7	320	21
	1600	7	320	21
	1630	6	310	22
	1700	7	320	22
	1730	5	320	22
	1800	6	310	22
	1830	6	330	22
12-28-95	930	7	330	20
	1000	4	330	21
	1030	6	320	22
	1100	8	320	22
	1130	7	320	23

METEOROLOGICAL DATA DURING SAMPLING EVENTS
December 26, 1995 through January 6, 1996

Date	Time	Wind Speed (mph)	Wind Dir. (degrees)	Temp. (F)
	1200	6	310	24
	1230	6	300	25
	1300	6	310	26
	1330	6	310	26
	1400	6	300	26
	1430	6	300	26
	1500	6	290	26
	1530	5	280	27
12-29-95	800	no data	no data	no data
	830	no data	no data	no data
	900	no data	no data	no data
	930	no data	no data	no data
	1000	no data	no data	no data
	1030	6	250	24
	1100	6	250	25
	1130	7	230	26
	1200	7	230	28
	1230	7	230	29
	1300	7	240	30
	1330	7	240	31
	1400	8	220	32
	1430	6	230	32
	1500	7	230	32
	1530	7	230	32
	1600	6	210	31
	1630	7	210	30
12-30-95	730	3	220	18
	800	3	220	18
	830	4	220	18
	900	3	220	19
	930	4	210	21
	1000	4	240	23
	1030	4	230	25
	1100	5	230	27
	1130	6	240	27
	1200	6	240	28
	1230	4	250	29
	1300	4	240	30
	1330	4	220	31
	1400	5	220	32
	1430	5	230	32
	1500	6	210	32
	1530	4	210	32
	1600	3	190	32

METEOROLOGICAL DATA DURING SAMPLING EVENTS
December 26, 1995 through January 6, 1996

Date	Time	Wind Speed (mph)	Wind Dir. (degrees)	Temp. (F)
1-2-96	800	9	50	25
	830	8	50	25
	900	9	40	25
	930	10	50	25
	1000	10	50	24
	1030	10	50	24
	1100	10	50	24
	1130	11	30	23
	1200	11	50	23
	1230	11	30	23
	1300	10	40	23
	1330	10	40	23
	1400	11	40	23
	1430	11	50	22
	1500	12	40	22
	1530	11	50	22
	1600	12	60	21
1-3-96	800	5	5	17
	830	6	360	18
	900	8	360	18
	930	9	350	18
	1000	8	345	18
	1030	10	340	19
	1100	9	350	19
	1130	9	360	20
	1200	9	5	20
	1230	8	10	21
	1300	8	20	21
	1330	7	360	22
	1400	7	350	21
	1430	5	350	22
	1500	5	360	22
	1530	5	350	22
	1600	3	10	22
	1630	3	10	21
1-4-96	830	0	240	2
	900	0	240	7
	930	2	210	11
	1000	4	220	12
	1030	4	250	13
	1100	4	250	14
	1130	4	220	15
	1200	5	220	17

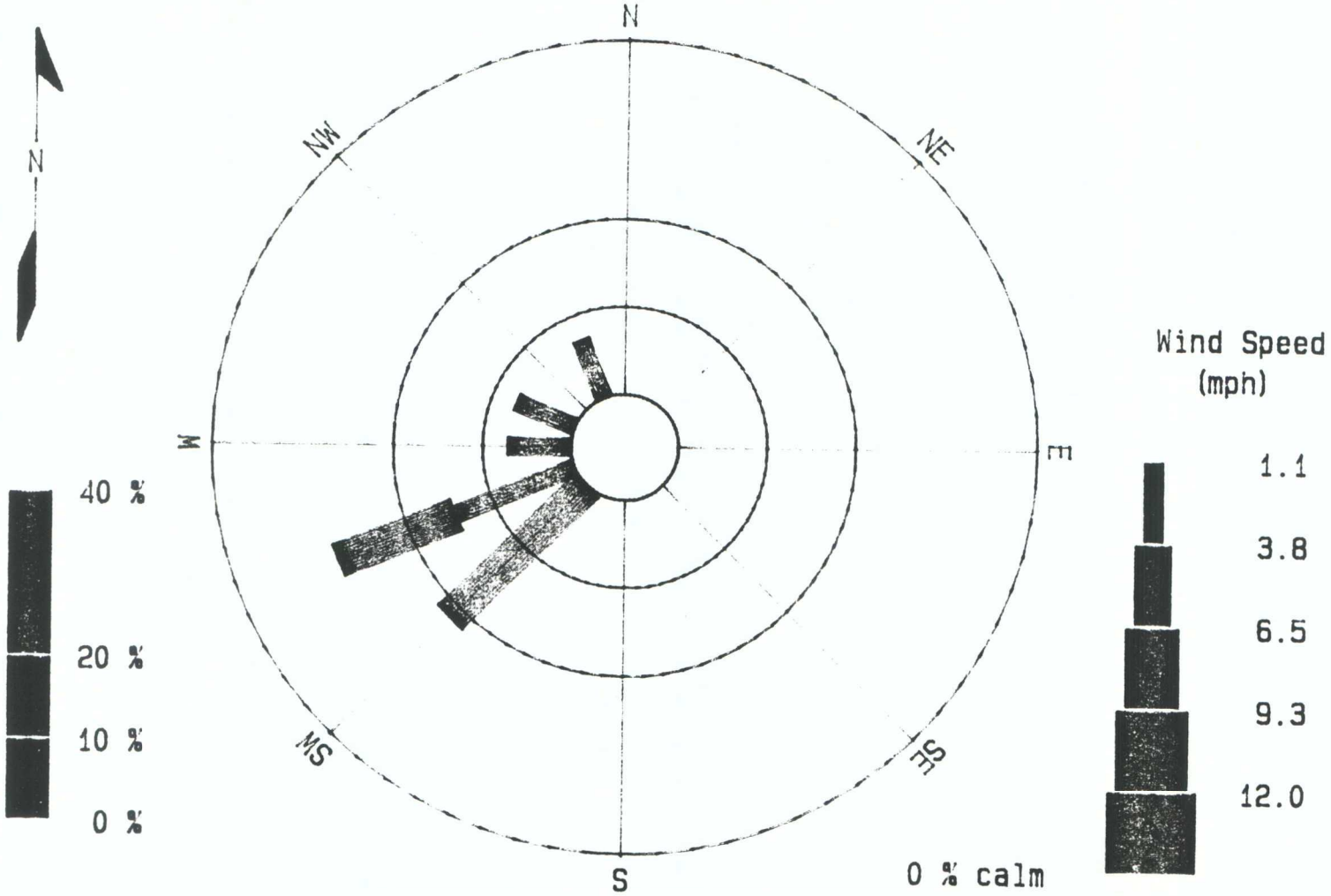
METEOROLOGICAL DATA DURING SAMPLING EVENTS
December 26, 1995 through January 6, 1996

Date	Time	Wind Speed (mph)	Wind Dir. (degrees)	Temp. (F)
	1230	6	235	17
	1300	6	245	18
	1330	6	235	18
	1400	5	235	18
	1430	5	220	18
	1500	5	230	18
	1530	5	235	17
	1600	5	215	17
	1630	4	215	17
	1700	3	230	16
1-5-96	830	2	260	4
	900	4	260	7
	930	5	270	9
	1000	5	295	13
	1030	5	320	15
	1100	6	325	17
	1130	6	325	18
	1200	5	320	20
	1230	6	330	20
	1300	6	310	21
	1330	6	330	21
	1400	6	320	21
	1430	5	295	21
	1500	5	320	21
	1530	4	330	20
	1600	4	310	20
	1630	3	295	19
1-6-96	800	0	150	4
	830	0	360	8
	900	2	60	14
	930	4	60	16
	1000	3	80	18
	1030	4	85	19
	1100	5	85	20
	1130	5	85	21
	1200	4	90	21
	1230	4	80	21
	1300	4	70	20
	1330	4	75	20
	1400	4	80	20
	1430	4	90	20
	1500	5	70	20
	1530	5	70	19
	1600	5	80	18

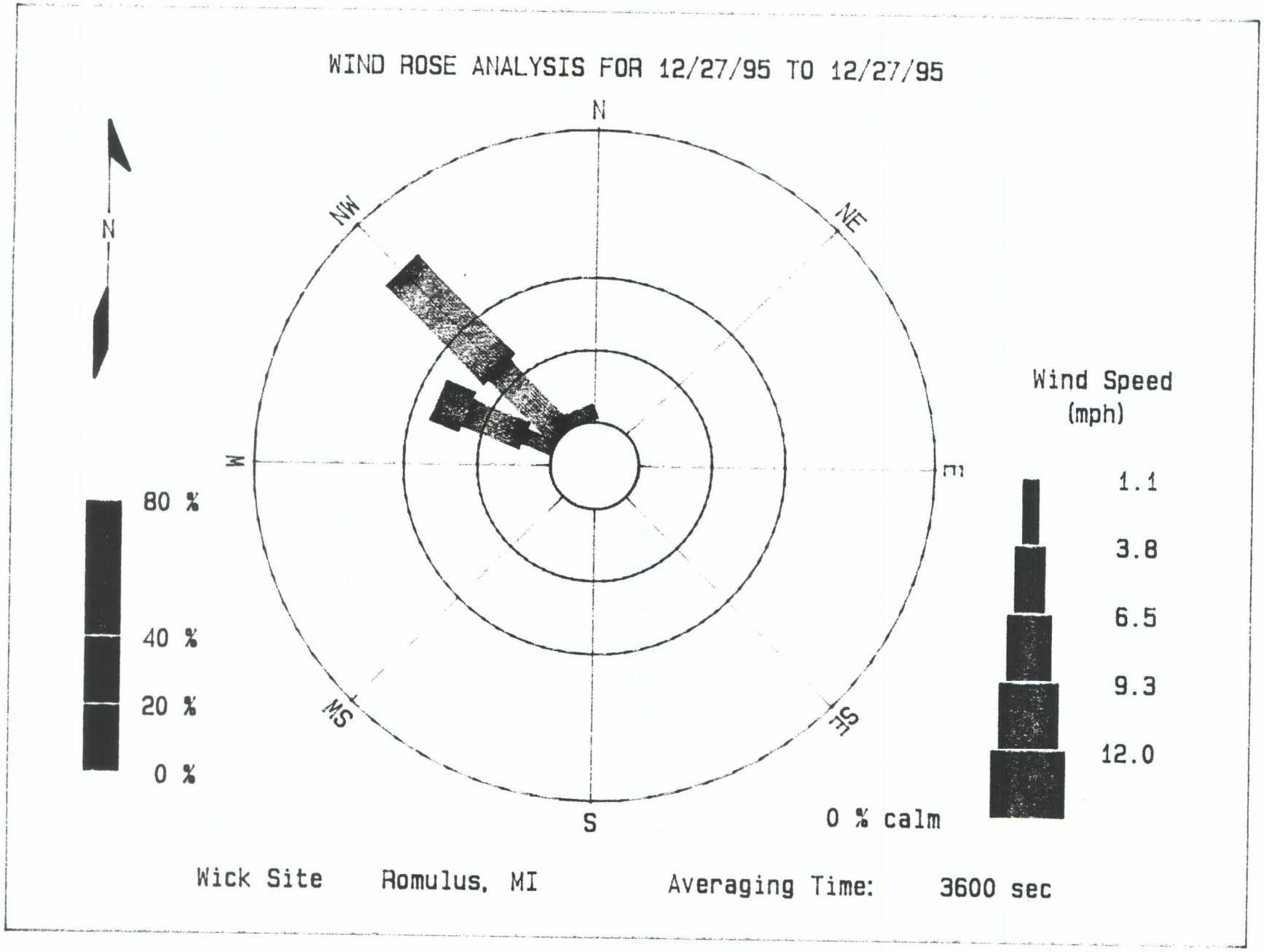
APPENDIX E

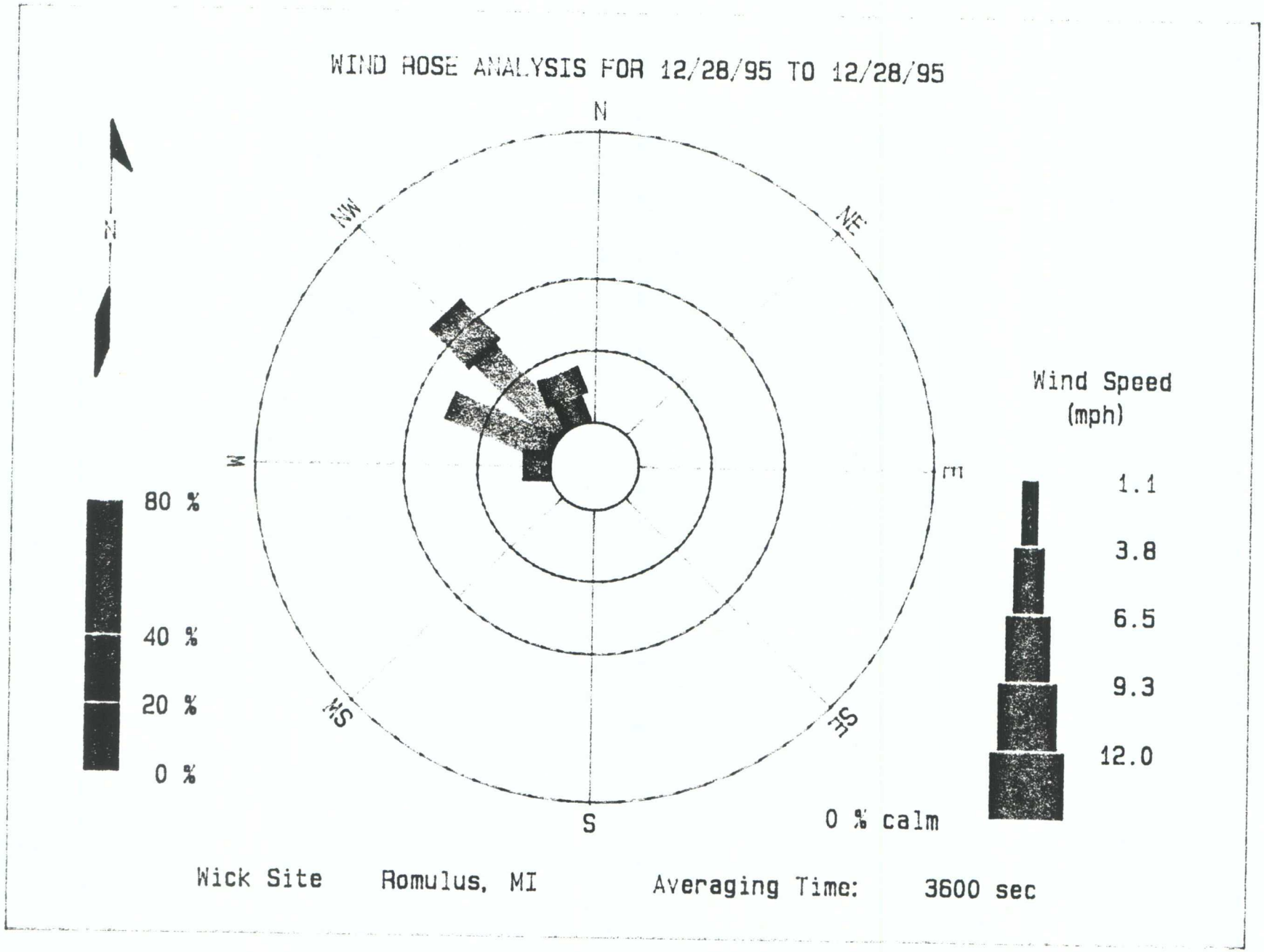
WIND ROSE ANALYSES

WIND ROSE ANALYSIS FOR 12/26/95 TO 12/26/95

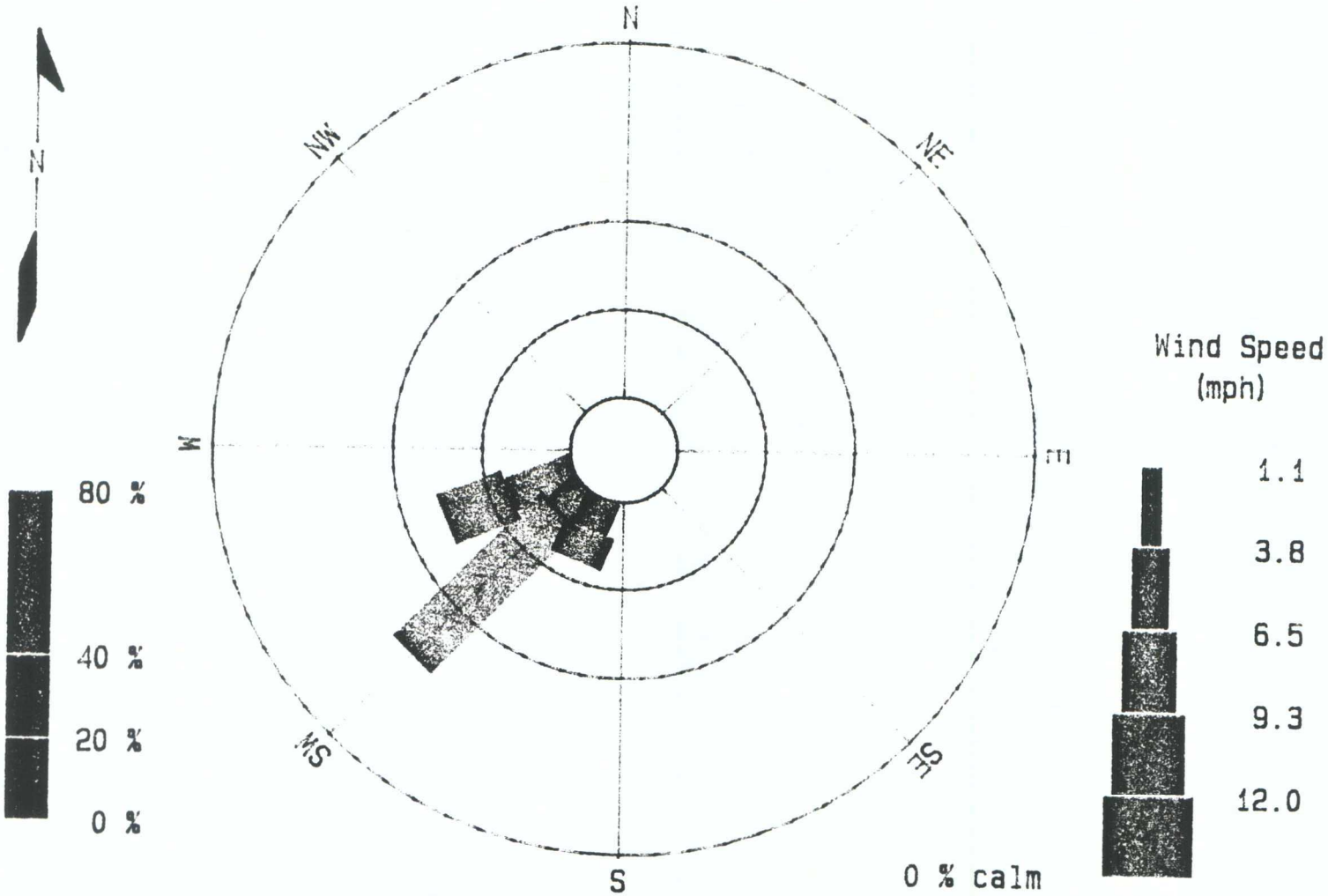


Wick Site Romulus, MI Averaging Time: 3600 sec


WIND ROSE ANALYSIS FOR 12/27/95 TO 12/27/95
N
NE
E
SE
S
SW
W
NW
N
80 %
40 %
20 %
0 %
Wind Speed
(mph)
1.1
3.8
6.5
9.3
12.0
0 % calm
Wick Site Romulus, MI
Averaging Time: 3600 sec

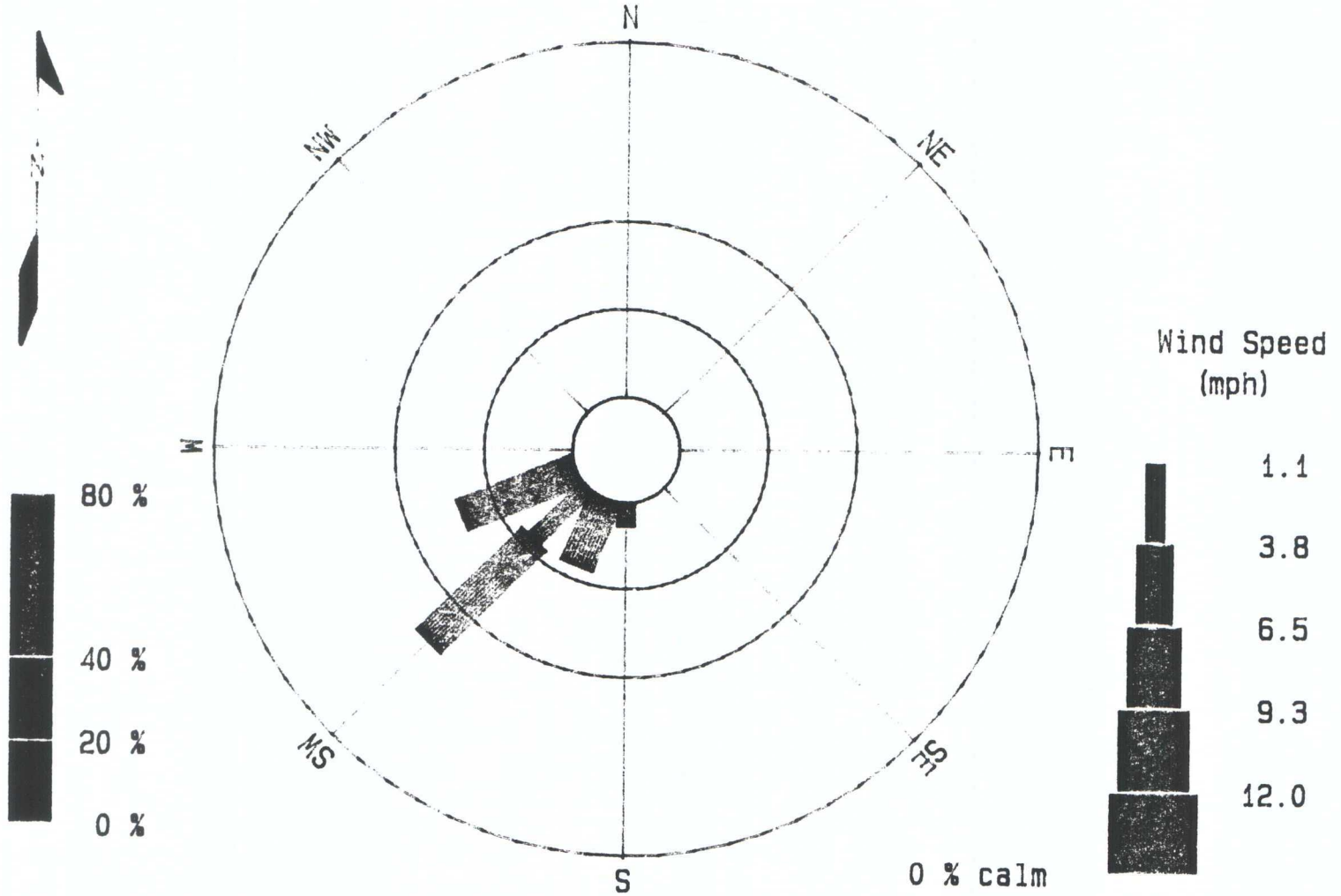

WIND ROSE ANALYSIS FOR 12/28/95 TO 12/28/95
N
NE
E
SE
S
SW
W
NW
N
80 %
40 %
20 %
0 %
Wind Speed
(mph)
1.1
3.8
6.5
9.3
12.0
0 % calm
Wick Site Romulus, MI
Averaging Time: 3600 sec

WIND ROSE ANALYSIS FOR 12/29/95 TO 12/29/95



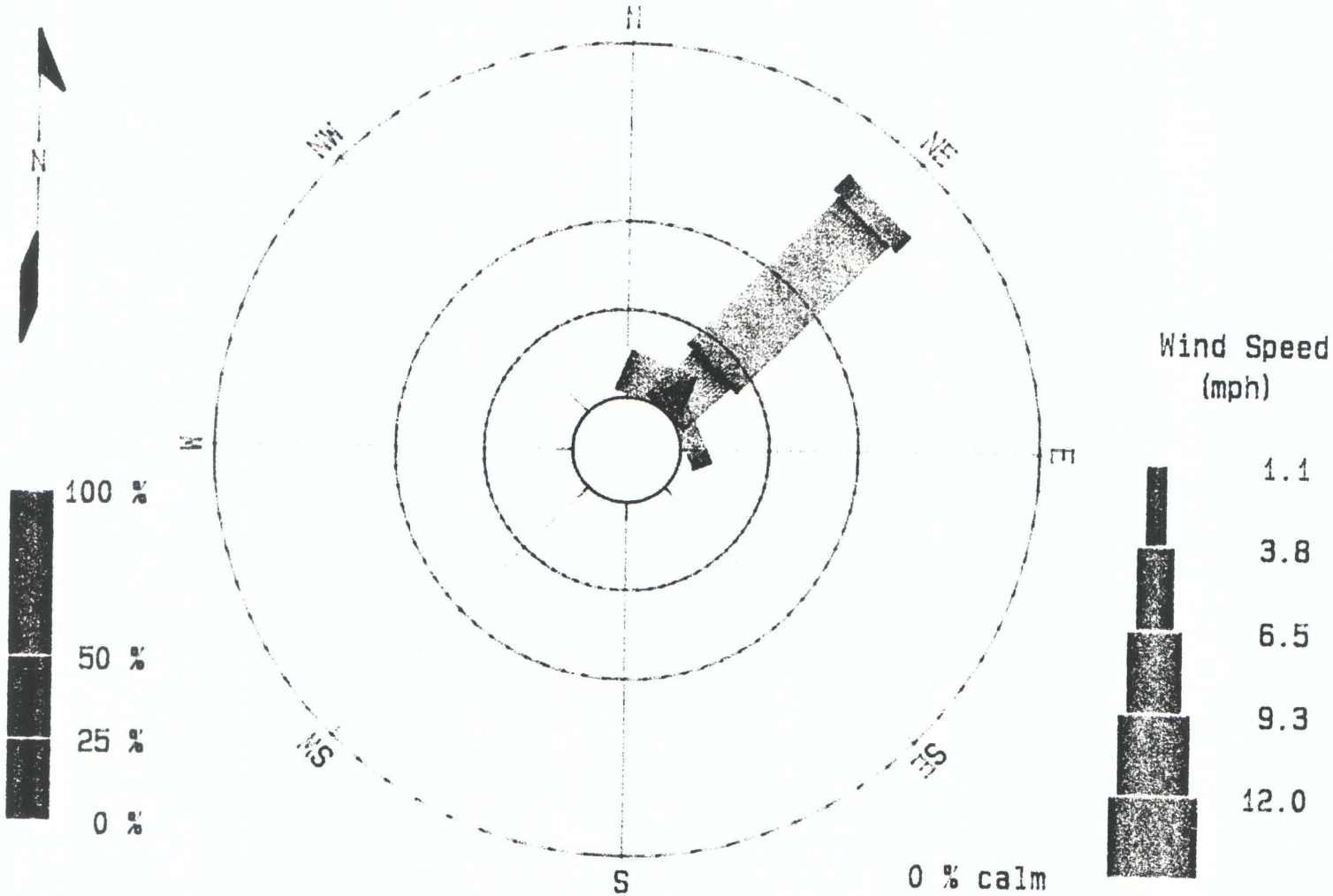
Wick Site Romulus, MI Averaging Time: 3600 sec

WIND ROSE ANALYSIS FOR 12/30/95 TO 12/30/95



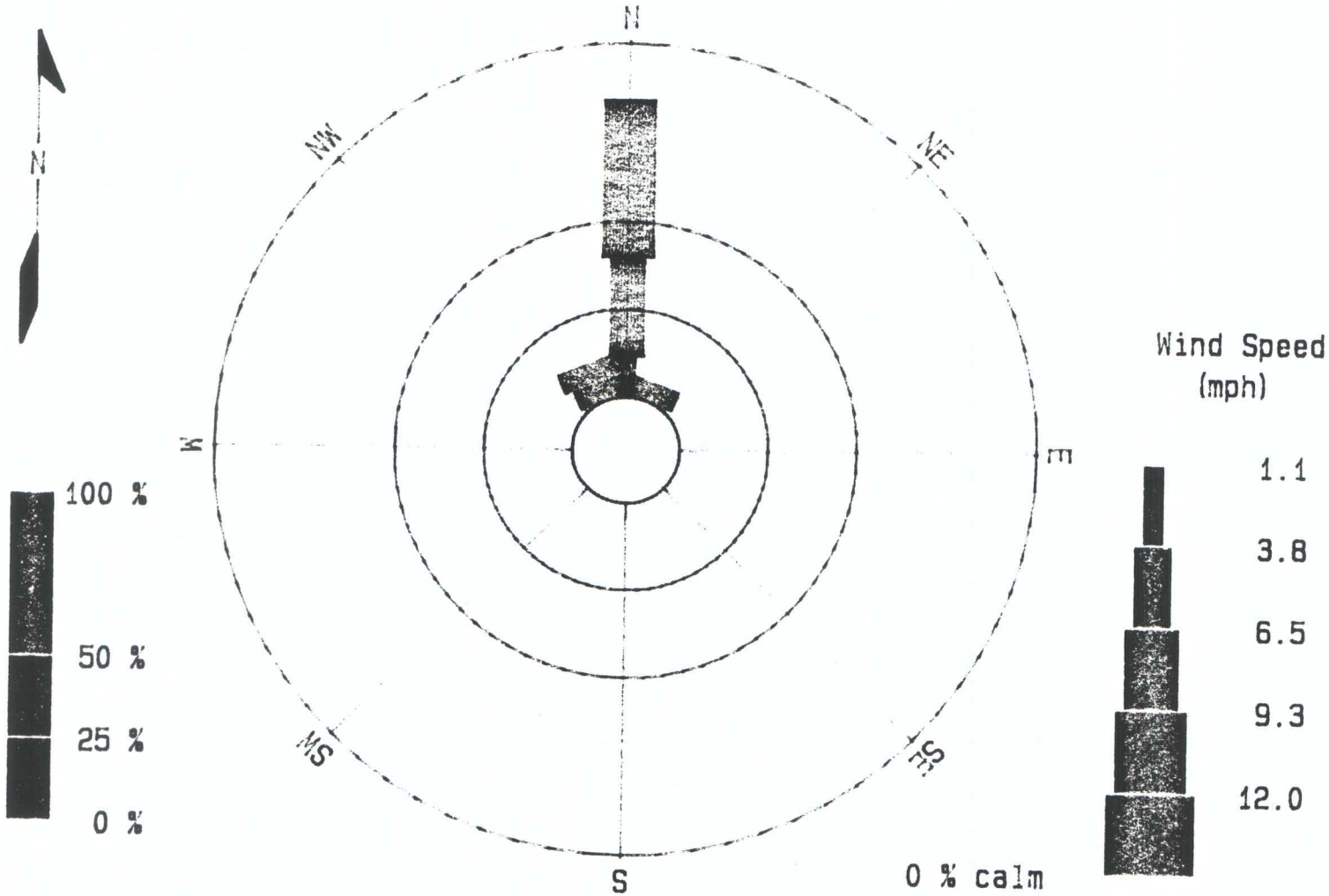
Wick Site Romulus, MI Averaging Time: 3600 sec

WIND ROSE ANALYSIS FOR 01/02/96 TO 01/02/96



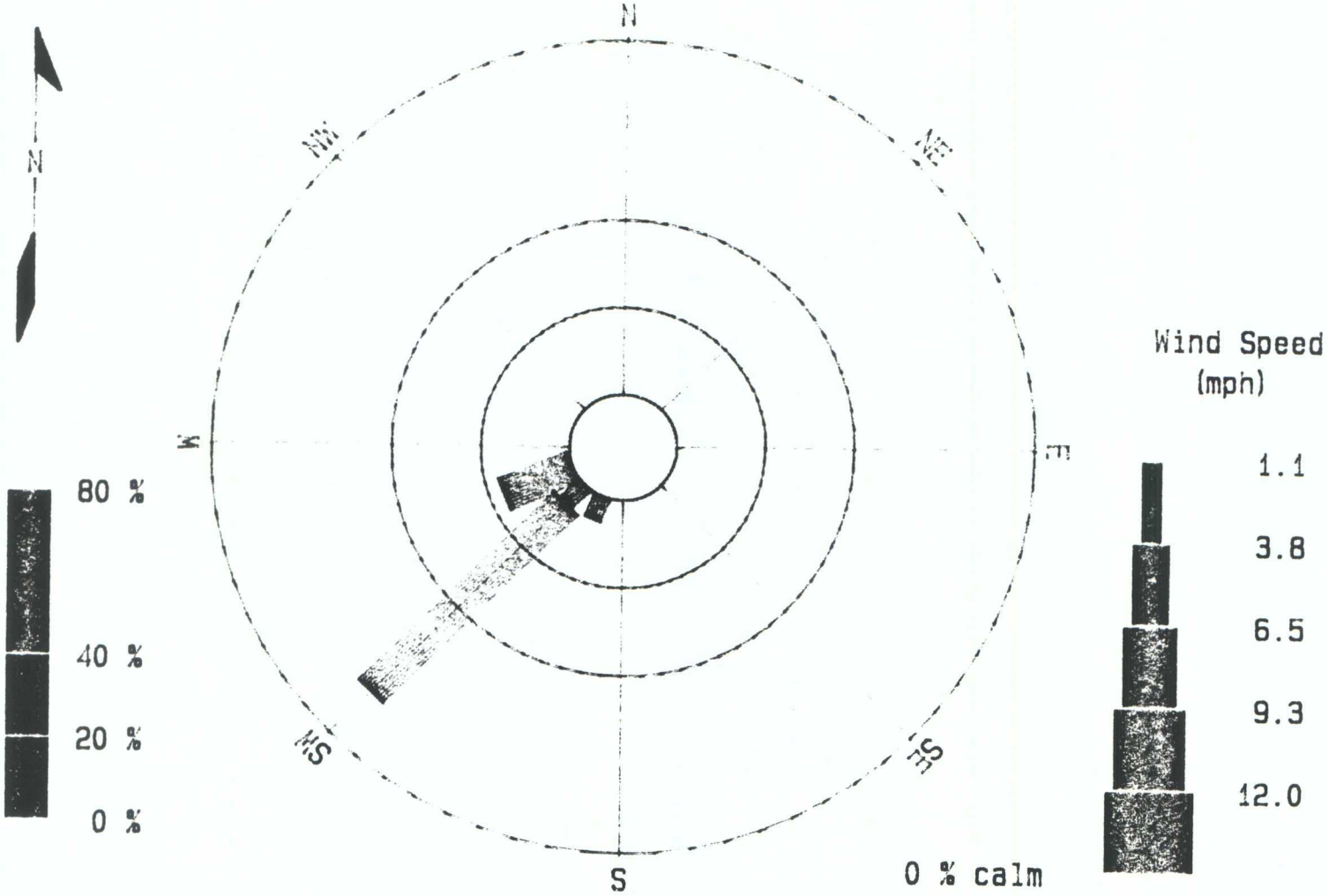
Wick Site Romulus, MI Averaging Time: 3600 sec

WIND ROSE ANALYSIS FOR 01/03/96 TO 01/03/96



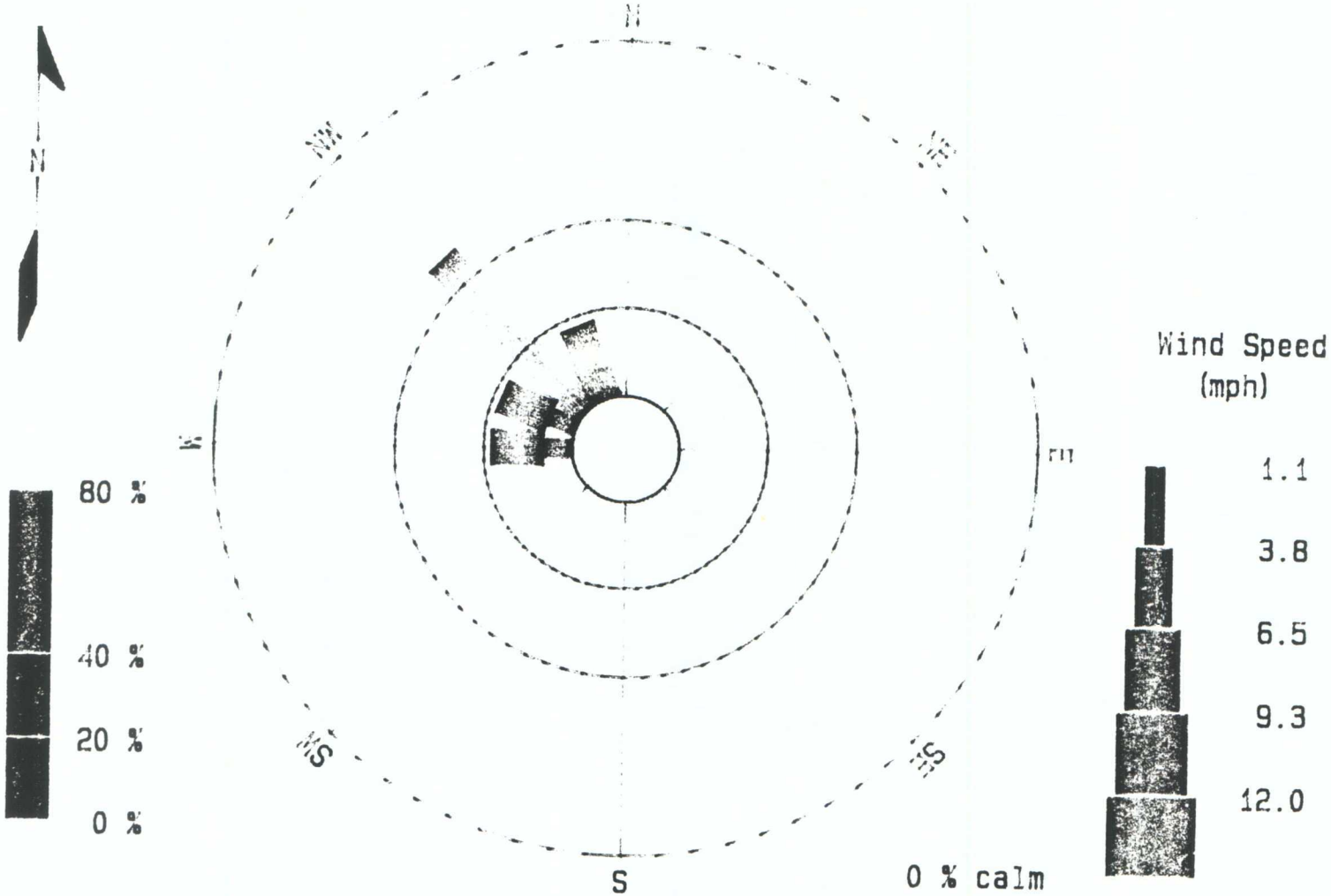
Wick Site Romulus, MI Averaging Time: 3600 sec

WIND ROSE ANALYSIS FOR 01/04/96 TO 01/04/96



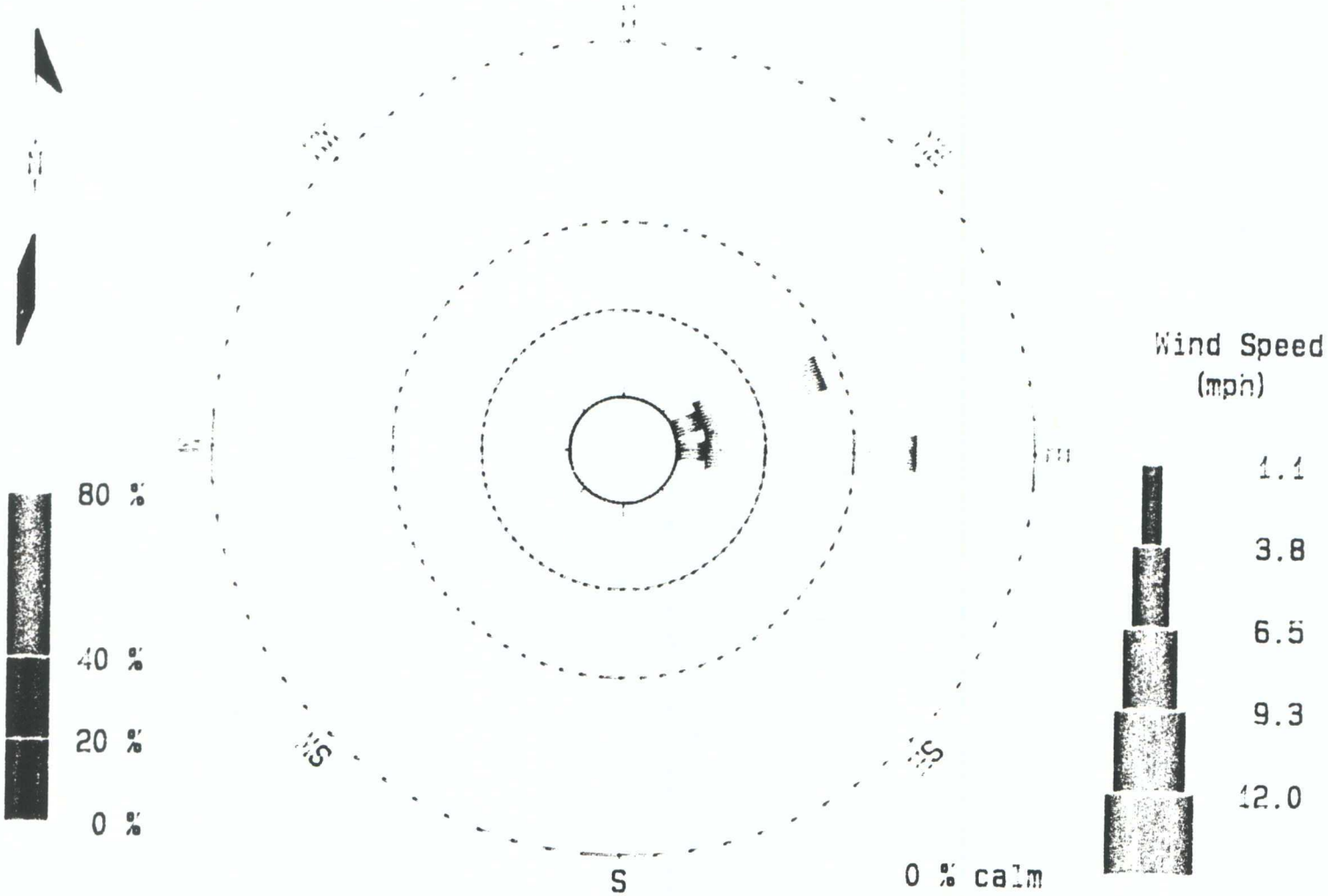
Wick Site Romulus, MI Averaging Time: 3600 sec

WIND ROSE ANALYSIS FOR 01/05/96 TO 01/05/96



Wick Site Romulus, MI Averaging Time: 3600 sec

WIND ROSE ANALYSIS FOR 01/06/96 TO 01/06/96



Wick Site Romulus, MI Averaging Time: 3600 sec

APPENDIX F

LABORATORY RESULTS

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

ARC Consulting
94 Greenwood Ave.
Portland, ME 04103

Attn: Andre Cosavant

Work Order #: 95-12-191
Client Code: ABB_ENVIRO
Report Date: 01/12/96
Work ID: Canisters for TO-14
Date Received: 12/28/95

Purchase Order: Proj# 9252-01/MNDR-WICK

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Canister DW1, #026	02	Canister DW1CO, #088
03	Canister DW2, #385	04	Canister UW3, #388
05	Canister DW4, #321	06	Canister UW5, #271
07	Canister DW6, #305	08	Canister DW6CO, #939
09	Canister DW7, #167	10	Canister UW8, #288
11	Canister DW9, #109	12	Canister DW9CO, #423

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

Certificate approved by
Carol L. Turner

REPORT COMMENTS

Results are reported in ppbv and ug/m3.

TEST METHODOLOGIES

Volatile organics were determined by aliquoting from a SUMMA-polished canister or other vessel followed by gas chromatography/mass spectrometry as in EPA Method TO-14.

Work Order # 95-12-191 **Ross Analytical Services, Inc** **Reported: 01/12/96**

Sample Description **Canister DW1, #026** Lab No. 01
Test Description **Canisters or bags by TO-14** Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv
INITIAL PRESSURE, TORR 735 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.152

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.2	100-41-4	Ethylbenzene	<EQL	4.2
100-44-7	Benzyl chloride	NA	4.2	142-82-5	n-Heptane	NA	4.2
75-27-4	Bromodichloromethane	<EQL	4.2	87-68-3	Hexachlorobutadiene	NA	4.2
75-25-2	Bromoform	<EQL	4.2	110-54-3	n-Hexane	NA	4.2
74-83-9	Bromomethane	<EQL	4.2	75-09-2	Methylene chloride	<EQL	8.3
75-15-0	Carbon disulfide	<EQL	4.2	98-83-9	α-methyl styrene	NA	4.2
56-23-5	Carbon tetrachloride	<EQL	4.2	111-84-2	n-Nonane	NA	4.2
108-90-7	Chlorobenzene	<EQL	4.2	111-65-9	n-Octane	NA	4.2
75-45-6	Chlorodifluoromethane	NA	4.2	109-66-0	n-Pentane	NA	4.2
75-00-3	Chloroethane	<EQL	4.2	100-42-5	Styrene	<EQL	4.2
67-66-3	Chloroform	<EQL	4.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.2
74-87-3	Chloromethane	<EQL	4.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.2
98-82-8	Cumene	NA	4.2	127-18-4	Tetrachloroethene	<EQL	4.2
124-18-5	n-Decane	NA	4.2	108-88-3	Toluene	<EQL	4.2
124-48-1	Dibromochloromethane	<EQL	4.2	120-82-1	1,2,4-Trichlorobenzene	NA	4.2
106-93-4	1,2-Dibromoethane	NA	4.2	71-55-6	1,1,1-Trichloroethane	<EQL	4.2
95-50-1	1,2-Dichlorobenzene	NA	4.2	79-00-5	1,1,2-Trichloroethane	<EQL	4.2
541-73-1	1,3-Dichlorobenzene	NA	4.2	79-01-6	Trichloroethene	<EQL	4.2
106-46-7	1,4-Dichlorobenzene	NA	4.2	75-69-4	Trichlorofluoromethane	NA	4.2
75-71-8	Dichlorodifluoromethane	NA	4.2	96-63-6	1,2,4-Trimethylbenzene	NA	4.2
75-34-3	1,1-Dichloroethane	<EQL	4.2	108-67-8	1,3,5-Trimethylbenzene	NA	4.2
107-06-2	1,2-Dichloroethane	<EQL	4.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.2
75-35-4	1,1-Dichloroethene	<EQL	4.2	1120-21-4	n-Undecane	NA	4.2
156-59-2	cis-1,2-Dichloroethene	<EQL	4.2	75-01-4	Vinyl chloride	<EQL	4.2
156-60-5	trans-1,2-Dichloroethene	<EQL	4.2	1330-20-7	Xylenes (total)	<EQL	4.2
78-87-5	1,2-Dichloropropane	<EQL	4.2	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.2	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.2	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.2	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.2	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	91	54 - 152
Toluene-d8	98	27 - 175
4-Bromofluorobenzene	100	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW1CO, #088 Lab No. 02
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv
INITIAL PRESSURE, TORR 718 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.251

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.3	100-41-4	Ethylbenzene	<EQL	4.3
100-44-7	Benzyl chloride	NA	4.3	142-82-5	n-Heptane	NA	4.3
75-27-4	Bromodichloromethane	<EQL	4.3	87-68-3	Hexachlorobutadiene	NA	4.3
75-25-2	Bromoform	<EQL	4.3	110-54-3	n-Hexane	NA	4.3
74-83-9	Bromomethane	<EQL	4.3	75-09-2	Methylene chloride	<EQL	8.5
75-15-0	Carbon disulfide	<EQL	4.3	98-83-9	α-methyl styrene	NA	4.3
56-23-5	Carbon tetrachloride	<EQL	4.3	111-84-2	n-Nonane	NA	4.3
108-90-7	Chlorobenzene	<EQL	4.3	111-65-9	n-Octane	NA	4.3
75-45-6	Chlorodifluoromethane	NA	4.3	109-66-0	n-Pentane	NA	4.3
75-00-3	Chloroethane	<EQL	4.3	100-42-5	Styrene	<EQL	4.3
67-66-3	Chloroform	<EQL	4.3	630-20-6	1,1,1,2-Tetrachloroethane	<EQL	4.3
74-87-3	Chloromethane	<EQL	4.3	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.3
98-82-8	Cumene	NA	4.3	127-18-4	Tetrachloroethene	<EQL	4.3
124-18-5	n-Decane	NA	4.3	108-88-3	Toluene	<EQL	4.3
124-48-1	Dibromochloromethane	<EQL	4.3	120-82-1	1,2,4-Trichlorobenzene	NA	4.3
106-93-4	1,2-Dibromoethane	NA	4.3	71-55-6	1,1,1-Trichloroethane	<EQL	4.3
95-50-1	1,2-Dichlorobenzene	NA	4.3	79-00-5	1,1,2-Trichloroethane	<EQL	4.3
541-73-1	1,3-Dichlorobenzene	NA	4.3	79-01-6	Trichloroethene	<EQL	4.3
106-46-7	1,4-Dichlorobenzene	NA	4.3	75-69-4	Trichlorofluoromethane	NA	4.3
75-71-8	Dichlorodifluoromethane	NA	4.3	96-63-6	1,2,4-Trimethylbenzene	NA	4.3
75-34-3	1,1-Dichloroethane	<EQL	4.3	108-67-8	1,3,5-Trimethylbenzene	NA	4.3
107-06-2	1,2-Dichloroethane	<EQL	4.3	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.3
75-35-4	1,1-Dichloroethene	<EQL	4.3	1120-21-4	n-Undecane	NA	4.3
156-59-2	cis-1,2-Dichloroethene	<EQL	4.3	75-01-4	Vinyl chloride	<EQL	4.3
156-60-5	trans-1,2-Dichloroethene	<EQL	4.3	1330-20-7	Xylenes (total)	<EQL	4.3
78-87-5	1,2-Dichloropropane	<EQL	4.3	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.3	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.3	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.3	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.3	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	98	27 - 175
4-Bromofluorobenzene	98	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW2, #385 Lab No. 03

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv

INITIAL PRESSURE, TORR 671 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.548

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.5	100-41-4	Ethylbenzene	<EQL	4.5
100-44-7	Benzyl chloride	NA	4.5	142-82-5	n-Heptane	NA	4.5
75-27-4	Bromodichloromethane	<EQL	4.5	87-68-3	Hexachlorobutadiene	NA	4.5
75-25-2	Bromoform	<EQL	4.5	110-54-3	n-Hexane	NA	4.5
74-83-9	Bromomethane	<EQL	4.5	75-09-2	Methylene chloride	<EQL	9.1
75-15-0	Carbon disulfide	<EQL	4.5	98-83-9	α-methyl styrene	NA	4.5
56-23-5	Carbon tetrachloride	<EQL	4.5	111-84-2	n-Nonane	NA	4.5
108-90-7	Chlorobenzene	<EQL	4.5	111-65-9	n-Octane	NA	4.5
75-45-6	Chlorodifluoromethane	NA	4.5	109-66-0	n-Pentane	NA	4.5
75-00-3	Chloroethane	<EQL	4.5	100-42-5	Styrene	<EQL	4.5
67-66-3	Chloroform	<EQL	4.5	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.5
74-87-3	Chloromethane	<EQL	4.5	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.5
98-82-8	Cumene	NA	4.5	127-18-4	Tetrachloroethene	<EQL	4.5
124-18-5	n-Decane	NA	4.5	108-88-3	Toluene	<EQL	4.5
124-48-1	Dibromochloromethane	<EQL	4.5	120-82-1	1,2,4-Trichlorobenzene	NA	4.5
106-93-4	1,2-Dibromoethane	NA	4.5	71-55-6	1,1,1-Trichloroethane	<EQL	4.5
95-50-1	1,2-Dichlorobenzene	NA	4.5	79-00-5	1,1,2-Trichloroethane	<EQL	4.5
541-73-1	1,3-Dichlorobenzene	NA	4.5	79-01-6	Trichloroethene	<EQL	4.5
106-46-7	1,4-Dichlorobenzene	NA	4.5	75-69-4	Trichlorofluoromethane	NA	4.5
75-71-8	Dichlorodifluoromethane	NA	4.5	96-63-6	1,2,4-Trimethylbenzene	NA	4.5
75-34-3	1,1-Dichloroethane	<EQL	4.5	108-67-8	1,3,5-Trimethylbenzene	NA	4.5
107-06-2	1,2-Dichloroethane	<EQL	4.5	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.5
75-35-4	1,1-Dichloroethene	<EQL	4.5	1120-21-4	n-Undecane	NA	4.5
156-59-2	cis-1,2-Dichloroethene	<EQL	4.5	75-01-4	Vinyl chloride	<EQL	4.5
156-60-5	trans-1,2-Dichloroethene	<EQL	4.5	1330-20-7	Xylenes (total)	<EQL	4.5
78-87-5	1,2-Dichloropropane	<EQL	4.5	67-64-1	Acetone	<EQL	23
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.5	78-93-3	2-Butanone	<EQL	23
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.5	591-78-6	2-Hexanone	<EQL	23
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.5	108-10-1	4-Methyl-2-pentanone	<EQL	23
112-40-3	n-Dodecane	NA	4.5	108-05-4	Vinyl acetate	<EQL	23

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	92	54 - 152
Toluene-d8	100	27 - 175
4-Bromofluorobenzene	98	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister UW3, #388 Lab No. 04
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv
INITIAL PRESSURE, TORR 750 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.069

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.1	100-41-4	Ethylbenzene	<EQL	4.1
100-44-7	Benzyl chloride	NA	4.1	142-82-5	n-Heptane	NA	4.1
75-27-4	Bromodichloromethane	<EQL	4.1	87-68-3	Hexachlorobutadiene	NA	4.1
75-25-2	Bromoform	<EQL	4.1	110-54-3	n-Hexane	NA	4.1
74-83-9	Bromomethane	<EQL	4.1	75-09-2	Methylene chloride	<EQL	8.1
75-15-0	Carbon disulfide	<EQL	4.1	98-83-9	α-methyl styrene	NA	4.1
56-23-5	Carbon tetrachloride	<EQL	4.1	111-84-2	n-Nonane	NA	4.1
108-90-7	Chlorobenzene	<EQL	4.1	111-65-9	n-Octane	NA	4.1
75-45-6	Chlorodifluoromethane	NA	4.1	109-66-0	n-Pentane	NA	4.1
75-00-3	Chloroethane	<EQL	4.1	100-42-5	Styrene	<EQL	4.1
67-66-3	Chloroform	<EQL	4.1	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.1
74-87-3	Chloromethane	<EQL	4.1	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.1
98-82-8	Cumene	NA	4.1	127-18-4	Tetrachloroethene	<EQL	4.1
124-18-5	n-Decane	NA	4.1	108-88-3	Toluene	<EQL	4.1
124-48-1	Dibromochloromethane	<EQL	4.1	120-82-1	1,2,4-Trichlorobenzene	NA	4.1
106-93-4	1,2-Dibromoethane	NA	4.1	71-55-6	1,1,1-Trichloroethane	<EQL	4.1
95-50-1	1,2-Dichlorobenzene	NA	4.1	79-00-5	1,1,2-Trichloroethane	<EQL	4.1
541-73-1	1,3-Dichlorobenzene	NA	4.1	79-01-6	Trichloroethene	<EQL	4.1
106-46-7	1,4-Dichlorobenzene	NA	4.1	75-69-4	Trichlorofluoromethane	NA	4.1
75-71-8	Dichlorodifluoromethane	<EQL	4.1	96-63-6	1,2,4-Trimethylbenzene	NA	4.1
75-34-3	1,1-Dichloroethane	<EQL	4.1	108-67-8	1,3,5-Trimethylbenzene	NA	4.1
107-06-2	1,2-Dichloroethane	<EQL	4.1	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.1
75-35-4	1,1-Dichloroethene	<EQL	4.1	1120-21-4	n-Undecane	NA	4.1
156-59-2	cis-1,2-Dichloroethene	<EQL	4.1	75-01-4	Vinyl chloride	<EQL	4.1
156-60-5	trans-1,2-Dichloroethene	<EQL	4.1	1330-20-7	Xylenes (total)	<EQL	4.1
78-87-5	1,2-Dichloropropane	<EQL	4.1	67-64-1	Acetone	<EQL	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.1	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.1	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.1	108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA	4.1	108-05-4	Vinyl acetate	<EQL	20

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	86	54 - 152
Toluene-d8	91	27 - 175
4-Bromofluorobenzene	106	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW4, #321 Lab No. 05

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv

INITIAL PRESSURE, TORR 707 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.317

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.3	100-41-4	Ethylbenzene	<EQL	4.3
100-44-7	Benzyl chloride	NA	4.3	142-82-5	n-Heptane	NA	4.3
75-27-4	Bromodichloromethane	<EQL	4.3	87-68-3	Hexachlorobutadiene	NA	4.3
75-25-2	Bromoform	<EQL	4.3	110-54-3	n-Hexane	NA	4.3
74-83-9	Bromomethane	<EQL	4.3	75-09-2	Methylene chloride	<EQL	8.6
75-15-0	Carbon disulfide	34	4.3	98-83-9	α-methyl styrene	NA	4.3
56-23-5	Carbon tetrachloride	<EQL	4.3	111-84-2	n-Nonane	NA	4.3
108-90-7	Chlorobenzene	<EQL	4.3	111-65-9	n-Octane	NA	4.3
75-45-6	Chlorodifluoromethane	NA	4.3	109-66-0	n-Pentane	NA	4.3
75-00-3	Chloroethane	<EQL	4.3	100-42-5	Styrene	<EQL	4.3
67-66-3	Chloroform	<EQL	4.3	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.3
74-87-3	Chloromethane	<EQL	4.3	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.3
98-82-8	Cumene	NA	4.3	127-18-4	Tetrachloroethene	<EQL	4.3
124-18-5	n-Decane	NA	4.3	108-88-3	Toluene	<EQL	4.3
124-48-1	Dibromochloromethane	<EQL	4.3	120-82-1	1,2,4-Trichlorobenzene	NA	4.3
106-93-4	1,2-Dibromoethane	NA	4.3	71-55-6	1,1,1-Trichloroethane	<EQL	4.3
95-50-1	1,2-Dichlorobenzene	NA	4.3	79-00-5	1,1,2-Trichloroethane	<EQL	4.3
541-73-1	1,3-Dichlorobenzene	NA	4.3	79-01-6	Trichloroethene	<EQL	4.3
106-46-7	1,4-Dichlorobenzene	NA	4.3	75-69-4	Trichlorofluoromethane	NA	4.3
75-71-8	Dichlorodifluoromethane	NA	4.3	96-63-6	1,2,4-Trimethylbenzene	NA	4.3
75-34-3	1,1-Dichloroethane	<EQL	4.3	108-67-8	1,3,5-Trimethylbenzene	NA	4.3
107-06-2	1,2-Dichloroethane	<EQL	4.3	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.3
75-35-4	1,1-Dichloroethene	<EQL	4.3	1120-21-4	n-Undecane	NA	4.3
156-59-2	cis-1,2-Dichloroethene	<EQL	4.3	75-01-4	Vinyl chloride	<EQL	4.3
156-60-5	trans-1,2-Dichloroethene	<EQL	4.3	1330-20-7	Xylenes (total)	<EQL	4.3
78-87-5	1,2-Dichloropropane	<EQL	4.3	67-64-1	Acetone	<EQL	22
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.3	78-93-3	2-Butanone	<EQL	22
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.3	591-78-6	2-Hexanone	<EQL	22
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.3	108-10-1	4-Methyl-2-pentanone	<EQL	22
112-40-3	n-Dodecane	NA	4.3	108-05-4	Vinyl acetate	<EQL	22

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	88	54 - 152
Toluene-d8	92	27 - 175
4-Bromofluorobenzene	106	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister UW5, #271 Lab No. 06

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv

INITIAL PRESSURE, TORR 759 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.021

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.0	100-41-4	Ethylbenzene	<EQL	4.0
100-44-7	Benzyl chloride	NA	4.0	142-82-5	n-Heptane	NA	4.0
75-27-4	Bromodichloromethane	<EQL	4.0	87-68-3	Hexachlorobutadiene	NA	4.0
75-25-2	Bromoform	<EQL	4.0	110-54-3	n-Hexane	NA	4.0
74-83-9	Bromomethane	<EQL	4.0	75-09-2	Methylene chloride	<EQL	8.0
75-15-0	Carbon disulfide	<EQL	4.0	98-83-9	α-methyl styrene	NA	4.0
56-23-5	Carbon tetrachloride	<EQL	4.0	111-84-2	n-Nonane	NA	4.0
108-90-7	Chlorobenzene	<EQL	4.0	111-65-9	n-Octane	NA	4.0
75-45-6	Chlorodifluoromethane	NA	4.0	109-66-0	n-Pentane	NA	4.0
75-00-3	Chloroethane	<EQL	4.0	100-42-5	Styrene	<EQL	4.0
67-66-3	Chloroform	<EQL	4.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.0
74-87-3	Chloromethane	<EQL	4.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.0
98-82-8	Cumene	NA	4.0	127-18-4	Tetrachloroethene	<EQL	4.0
124-18-5	n-Decane	NA	4.0	108-88-3	Toluene	<EQL	4.0
124-48-1	Dibromochloromethane	<EQL	4.0	120-82-1	1,2,4-Trichlorobenzene	NA	4.0
106-93-4	1,2-Dibromoethane	NA	4.0	71-55-6	1,1,1-Trichloroethane	<EQL	4.0
95-50-1	1,2-Dichlorobenzene	NA	4.0	79-00-5	1,1,2-Trichloroethane	<EQL	4.0
541-73-1	1,3-Dichlorobenzene	NA	4.0	79-01-6	Trichloroethene	<EQL	4.0
106-46-7	1,4-Dichlorobenzene	NA	4.0	75-69-4	Trichlorofluoromethane	NA	4.0
75-71-8	Dichlorodifluoromethane	NA	4.0	96-63-6	1,2,4-Trimethylbenzene	NA	4.0
75-34-3	1,1-Dichloroethane	<EQL	4.0	108-67-8	1,3,5-Trimethylbenzene	NA	4.0
107-06-2	1,2-Dichloroethane	<EQL	4.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.0
75-35-4	1,1-Dichloroethene	<EQL	4.0	1120-21-4	n-Undecane	NA	4.0
156-59-2	cis-1,2-Dichloroethene	<EQL	4.0	75-01-4	Vinyl chloride	<EQL	4.0
156-60-5	trans-1,2-Dichloroethene	<EQL	4.0	1330-20-7	Xylenes (total)	<EQL	4.0
78-87-5	1,2-Dichloropropane	<EQL	4.0	67-64-1	Acetone	<EQL	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.0	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.0	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.0	108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA	4.0	108-05-4	Vinyl acetate	<EQL	20

SURROGATE	%RECOVERY	LIMITS	
1,2-Dichloroethane-d4	89	54 -	152
Toluene-d8	105	27 -	175
4-Bromofluorobenzene	97	53 -	172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW6, #305 Lab No. 07

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv

INITIAL PRESSURE, TORR 735 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.152

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.2	100-41-4	Ethylbenzene	<EQL	4.2
100-44-7	Benzyl chloride	NA	4.2	142-82-5	n-Heptane	NA	4.2
75-27-4	Bromodichloromethane	<EQL	4.2	87-68-3	Hexachlorobutadiene	NA	4.2
75-25-2	Bromoform	<EQL	4.2	110-54-3	n-Hexane	NA	4.2
74-83-9	Bromomethane	<EQL	4.2	75-09-2	Methylene chloride	<EQL	8.3
75-15-0	Carbon disulfide	<EQL	4.2	98-83-9	α-methyl styrene	NA	4.2
56-23-5	Carbon tetrachloride	<EQL	4.2	111-84-2	n-Nonane	NA	4.2
108-90-7	Chlorobenzene	<EQL	4.2	111-65-9	n-Octane	NA	4.2
75-45-6	Chlorodifluoromethane	NA	4.2	109-66-0	n-Pentane	NA	4.2
75-00-3	Chloroethane	<EQL	4.2	100-42-5	Styrene	<EQL	4.2
67-66-3	Chloroform	<EQL	4.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.2
74-87-3	Chloromethane	<EQL	4.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.2
98-82-8	Cumene	NA	4.2	127-18-4	Tetrachloroethene	<EQL	4.2
124-18-5	n-Decane	NA	4.2	108-88-3	Toluene	<EQL	4.2
124-48-1	Dibromochloromethane	<EQL	4.2	120-82-1	1,2,4-Trichlorobenzene	NA	4.2
106-93-4	1,2-Dibromoethane	NA	4.2	71-55-6	1,1,1-Trichloroethane	<EQL	4.2
95-50-1	1,2-Dichlorobenzene	NA	4.2	79-00-5	1,1,2-Trichloroethane	<EQL	4.2
541-73-1	1,3-Dichlorobenzene	NA	4.2	79-01-6	Trichloroethene	<EQL	4.2
106-46-7	1,4-Dichlorobenzene	NA	4.2	75-69-4	Trichlorofluoromethane	NA	4.2
75-71-8	Dichlorodifluoromethane	NA	4.2	96-63-6	1,2,4-Trimethylbenzene	NA	4.2
75-34-3	1,1-Dichloroethane	<EQL	4.2	108-67-8	1,3,5-Trimethylbenzene	NA	4.2
107-06-2	1,2-Dichloroethane	<EQL	4.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.2
75-35-4	1,1-Dichloroethene	<EQL	4.2	1120-21-4	n-Undecane	NA	4.2
156-59-2	cis-1,2-Dichloroethene	<EQL	4.2	75-01-4	Vinyl chloride	<EQL	4.2
156-60-5	trans-1,2-Dichloroethene	<EQL	4.2	1330-20-7	Xylenes (total)	<EQL	4.2
78-87-5	1,2-Dichloropropane	<EQL	4.2	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.2	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.2	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.2	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.2	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	99	27 - 175
4-Bromofluorobenzene	101	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW6CO, #939 Lab No. 08
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv
INITIAL PRESSURE, TORR 730 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.181

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.2	100-41-4	Ethylbenzene	<EQL	4.2
100-44-7	Benzyl chloride	NA	4.2	142-82-5	n-Heptane	NA	4.2
75-27-4	Bromodichloromethane	<EQL	4.2	87-68-3	Hexachlorobutadiene	NA	4.2
75-25-2	Bromoform	<EQL	4.2	110-54-3	n-Hexane	NA	4.2
74-83-9	Bromomethane	<EQL	4.2	75-09-2	Methylene chloride	<EQL	8.4
75-15-0	Carbon disulfide	<EQL	4.2	98-83-9	α-methyl styrene	NA	4.2
56-23-5	Carbon tetrachloride	<EQL	4.2	111-84-2	n-Nonane	NA	4.2
108-90-7	Chlorobenzene	<EQL	4.2	111-65-9	n-Octane	NA	4.2
75-45-6	Chlorodifluoromethane	NA	4.2	109-66-0	n-Pentane	NA	4.2
75-00-3	Chloroethane	<EQL	4.2	100-42-5	Styrene	<EQL	4.2
67-66-3	Chloroform	<EQL	4.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.2
74-87-3	Chloromethane	<EQL	4.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.2
98-82-8	Cumene	NA	4.2	127-18-4	Tetrachloroethene	<EQL	4.2
124-18-5	n-Decane	NA	4.2	108-88-3	Toluene	<EQL	4.2
124-48-1	Dibromochloromethane	<EQL	4.2	120-82-1	1,2,4-Trichlorobenzene	NA	4.2
106-93-4	1,2-Dibromoethane	NA	4.2	71-55-6	1,1,1-Trichloroethane	<EQL	4.2
95-50-1	1,2-Dichlorobenzene	NA	4.2	79-00-5	1,1,2-Trichloroethane	<EQL	4.2
541-73-1	1,3-Dichlorobenzene	NA	4.2	79-01-6	Trichloroethene	<EQL	4.2
106-46-7	1,4-Dichlorobenzene	NA	4.2	75-69-4	Trichlorofluoromethane	NA	4.2
75-71-8	Dichlorodifluoromethane	NA	4.2	96-63-6	1,2,4-Trimethylbenzene	NA	4.2
75-34-3	1,1-Dichloroethane	<EQL	4.2	108-67-8	1,3,5-Trimethylbenzene	NA	4.2
107-06-2	1,2-Dichloroethane	<EQL	4.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.2
75-35-4	1,1-Dichloroethene	<EQL	4.2	1120-21-4	n-Undecane	NA	4.2
156-59-2	cis-1,2-Dichloroethene	<EQL	4.2	75-01-4	Vinyl chloride	<EQL	4.2
156-60-5	trans-1,2-Dichloroethene	<EQL	4.2	1330-20-7	Xylenes (total)	<EQL	4.2
78-87-5	1,2-Dichloropropane	<EQL	4.2	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.2	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.2	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.2	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.2	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	104	27 - 175
4-Bromofluorobenzene	102	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW7, #167 Lab No. 09

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/08/96 UNITS ppbv

INITIAL PRESSURE, TORR 716 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.263

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.3	100-41-4	Ethylbenzene	<EQL	4.3
100-44-7	Benzyl chloride	NA	4.3	142-82-5	n-Heptane	NA	4.3
75-27-4	Bromodichloromethane	<EQL	4.3	87-68-3	Hexachlorobutadiene	NA	4.3
75-25-2	Bromoform	<EQL	4.3	110-54-3	n-Hexane	NA	4.3
74-83-9	Bromomethane	<EQL	4.3	75-09-2	Methylene chloride	<EQL	8.5
75-15-0	Carbon disulfide	<EQL	4.3	98-83-9	α-methyl styrene	NA	4.3
56-23-5	Carbon tetrachloride	<EQL	4.3	111-84-2	n-Nonane	NA	4.3
108-90-7	Chlorobenzene	<EQL	4.3	111-65-9	n-Octane	NA	4.3
75-45-6	Chlorodifluoromethane	NA	4.3	109-66-0	n-Pentane	NA	4.3
75-00-3	Chloroethane	<EQL	4.3	100-42-5	Styrene	<EQL	4.3
67-66-3	Chloroform	<EQL	4.3	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.3
74-87-3	Chloromethane	<EQL	4.3	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.3
98-82-8	Cumene	NA	4.3	127-18-4	Tetrachloroethene	<EQL	4.3
124-18-5	n-Decane	NA	4.3	108-88-3	Toluene	<EQL	4.3
124-48-1	Dibromochloromethane	<EQL	4.3	120-82-1	1,2,4-Trichlorobenzene	NA	4.3
106-93-4	1,2-Dibromoethane	NA	4.3	71-55-6	1,1,1-Trichloroethane	<EQL	4.3
95-50-1	1,2-Dichlorobenzene	NA	4.3	79-00-5	1,1,2-Trichloroethane	<EQL	4.3
541-73-1	1,3-Dichlorobenzene	NA	4.3	79-01-6	Trichloroethene	<EQL	4.3
106-46-7	1,4-Dichlorobenzene	NA	4.3	75-69-4	Trichlorofluoromethane	NA	4.3
75-71-8	Dichlorodifluoromethane	NA	4.3	96-63-6	1,2,4-Trimethylbenzene	NA	4.3
75-34-3	1,1-Dichloroethane	<EQL	4.3	108-67-8	1,3,5-Trimethylbenzene	NA	4.3
107-06-2	1,2-Dichloroethane	<EQL	4.3	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.3
75-35-4	1,1-Dichloroethene	<EQL	4.3	1120-21-4	n-Undecane	NA	4.3
156-59-2	cis-1,2-Dichloroethene	<EQL	4.3	75-01-4	Vinyl chloride	<EQL	4.3
156-60-5	trans-1,2-Dichloroethene	<EQL	4.3	1330-20-7	Xylenes (total)	<EQL	4.3
78-87-5	1,2-Dichloropropane	<EQL	4.3	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.3	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.3	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.3	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.3	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	82	54 - 152
Toluene-d8	93	27 - 175
4-Bromofluorobenzene	102	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister UW8, #288 Lab No. 10
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv
INITIAL PRESSURE, TORR 698 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.372

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.4	100-41-4	Ethylbenzene	<EQL	4.4
100-44-7	Benzyl chloride	NA	4.4	142-82-5	n-Heptane	NA	4.4
75-27-4	Bromodichloromethane	<EQL	4.4	87-68-3	Hexachlorobutadiene	NA	4.4
75-25-2	Bromoform	<EQL	4.4	110-54-3	n-Hexane	NA	4.4
74-83-9	Bromomethane	<EQL	4.4	75-09-2	Methylene chloride	<EQL	8.7
75-15-0	Carbon disulfide	7	4.4	98-83-9	α-methyl styrene	NA	4.4
56-23-5	Carbon tetrachloride	<EQL	4.4	111-84-2	n-Nonane	NA	4.4
108-90-7	Chlorobenzene	<EQL	4.4	111-65-9	n-Octane	NA	4.4
75-45-6	Chlorodifluoromethane	NA	4.4	109-66-0	n-Pentane	NA	4.4
75-00-3	Chloroethane	<EQL	4.4	100-42-5	Styrene	<EQL	4.4
67-66-3	Chloroform	<EQL	4.4	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.4
74-87-3	Chloromethane	<EQL	4.4	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.4
98-82-8	Cumene	NA	4.4	127-18-4	Tetrachloroethene	<EQL	4.4
124-18-5	n-Decane	NA	4.4	108-88-3	Toluene	<EQL	4.4
124-48-1	Dibromochloromethane	<EQL	4.4	120-82-1	1,2,4-Trichlorobenzene	NA	4.4
106-93-4	1,2-Dibromoethane	NA	4.4	71-55-6	1,1,1-Trichloroethane	<EQL	4.4
95-50-1	1,2-Dichlorobenzene	NA	4.4	79-00-5	1,1,2-Trichloroethane	<EQL	4.4
541-73-1	1,3-Dichlorobenzene	NA	4.4	79-01-6	Trichloroethene	<EQL	4.4
106-46-7	1,4-Dichlorobenzene	NA	4.4	75-69-4	Trichlorofluoromethane	NA	4.4
75-71-8	Dichlorodifluoromethane	NA	4.4	96-63-6	1,2,4-Trimethylbenzene	NA	4.4
75-34-3	1,1-Dichloroethane	<EQL	4.4	108-67-8	1,3,5-Trimethylbenzene	NA	4.4
107-06-2	1,2-Dichloroethane	<EQL	4.4	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.4
75-35-4	1,1-Dichloroethene	<EQL	4.4	1120-21-4	n-Undecane	NA	4.4
156-59-2	cis-1,2-Dichloroethene	<EQL	4.4	75-01-4	Vinyl chloride	<EQL	4.4
156-60-5	trans-1,2-Dichloroethene	<EQL	4.4	1330-20-7	Xylenes (total)	<EQL	4.4
78-87-5	1,2-Dichloropropane	<EQL	4.4	67-64-1	Acetone	40	22
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.4	78-93-3	2-Butanone	<EQL	22
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.4	591-78-6	2-Hexanone	<EQL	22
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.4	108-10-1	4-Methyl-2-pentanone	<EQL	22
112-40-3	n-Dodecane	NA	4.4	108-05-4	Vinyl acetate	<EQL	22

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	98	54 - 152
Toluene-d8	95	27 - 175
4-Bromofluorobenzene	100	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW9, #109 Lab No. 11

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv

INITIAL PRESSURE, TORR 706 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.323

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.3	100-41-4	Ethylbenzene	<EQL	4.3
100-44-7	Benzyl chloride	NA	4.3	142-82-5	n-Heptane	NA	4.3
75-27-4	Bromodichloromethane	<EQL	4.3	87-68-3	Hexachlorobutadiene	NA	4.3
75-25-2	Bromoform	<EQL	4.3	110-54-3	n-Hexane	NA	4.3
74-83-9	Bromomethane	<EQL	4.3	75-09-2	Methylene chloride	<EQL	8.6
75-15-0	Carbon disulfide	<EQL	4.3	98-83-9	α-methyl styrene	NA	4.3
56-23-5	Carbon tetrachloride	<EQL	4.3	111-84-2	n-Nonane	NA	4.3
108-90-7	Chlorobenzene	<EQL	4.3	111-65-9	n-Octane	NA	4.3
75-45-6	Chlorodifluoromethane	NA	4.3	109-66-0	n-Pentane	NA	4.3
75-00-3	Chloroethane	<EQL	4.3	100-42-5	Styrene	<EQL	4.3
67-66-3	Chloroform	<EQL	4.3	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.3
74-87-3	Chloromethane	<EQL	4.3	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.3
98-82-8	Cumene	NA	4.3	127-18-4	Tetrachloroethene	<EQL	4.3
124-18-5	n-Decane	NA	4.3	108-88-3	Toluene	<EQL	4.3
124-48-1	Dibromochloromethane	<EQL	4.3	120-82-1	1,2,4-Trichlorobenzene	NA	4.3
106-93-4	1,2-Dibromoethane	NA	4.3	71-55-6	1,1,1-Trichloroethane	<EQL	4.3
95-50-1	1,2-Dichlorobenzene	NA	4.3	79-00-5	1,1,2-Trichloroethane	<EQL	4.3
541-73-1	1,3-Dichlorobenzene	NA	4.3	79-01-6	Trichloroethene	<EQL	4.3
106-46-7	1,4-Dichlorobenzene	NA	4.3	75-69-4	Trichlorofluoromethane	NA	4.3
75-71-8	Dichlorodifluoromethane	NA	4.3	96-63-6	1,2,4-Trimethylbenzene	NA	4.3
75-34-3	1,1-Dichloroethane	<EQL	4.3	108-67-8	1,3,5-Trimethylbenzene	NA	4.3
107-06-2	1,2-Dichloroethane	<EQL	4.3	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.3
75-35-4	1,1-Dichloroethene	<EQL	4.3	1120-21-4	n-Undecane	NA	4.3
156-59-2	cis-1,2-Dichloroethene	<EQL	4.3	75-01-4	Vinyl chloride	<EQL	4.3
156-60-5	trans-1,2-Dichloroethene	<EQL	4.3	1330-20-7	Xylenes (total)	<EQL	4.3
78-87-5	1,2-Dichloropropane	<EQL	4.3	67-64-1	Acetone	<EQL	22
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.3	78-93-3	2-Butanone	<EQL	22
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.3	591-78-6	2-Hexanone	<EQL	22
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.3	108-10-1	4-Methyl-2-pentanone	<EQL	22
112-40-3	n-Dodecane	NA	4.3	108-05-4	Vinyl acetate	<EQL	22

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	98	27 - 175
4-Bromofluorobenzene	98	53 - 172

Work Order # 95-12-191 Ross Analytical Services, Inc Reported: 01/12/96

Sample Description Canister DW9CO, #423 Lab No. 12

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv

INITIAL PRESSURE, TORR 692 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.410

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.4	100-41-4	Ethylbenzene	<EQL	4.4
100-44-7	Benzyl chloride	NA	4.4	142-82-5	n-Heptane	NA	4.4
75-27-4	Bromodichloromethane	<EQL	4.4	87-68-3	Hexachlorobutadiene	NA	4.4
75-25-2	Bromoform	<EQL	4.4	110-54-3	n-Hexane	NA	4.4
74-83-9	Bromomethane	<EQL	4.4	75-09-2	Methylene chloride	<EQL	8.8
75-15-0	Carbon disulfide	<EQL	4.4	98-83-9	α-methyl styrene	NA	4.4
56-23-5	Carbon tetrachloride	<EQL	4.4	111-84-2	n-Nonane	NA	4.4
108-90-7	Chlorobenzene	<EQL	4.4	111-65-9	n-Octane	NA	4.4
75-45-6	Chlorodifluoromethane	NA	4.4	109-66-0	n-Pentane	NA	4.4
75-00-3	Chloroethane	<EQL	4.4	100-42-5	Styrene	<EQL	4.4
67-66-3	Chloroform	<EQL	4.4	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.4
74-87-3	Chloromethane	<EQL	4.4	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.4
98-82-8	Cumene	NA	4.4	127-18-4	Tetrachloroethene	<EQL	4.4
124-18-5	n-Decane	NA	4.4	108-88-3	Toluene	<EQL	4.4
124-48-1	Dibromochloromethane	<EQL	4.4	120-82-1	1,2,4-Trichlorobenzene	NA	4.4
106-93-4	1,2-Dibromoethane	NA	4.4	71-55-6	1,1,1-Trichloroethane	<EQL	4.4
95-50-1	1,2-Dichlorobenzene	NA	4.4	79-00-5	1,1,2-Trichloroethane	<EQL	4.4
541-73-1	1,3-Dichlorobenzene	NA	4.4	79-01-6	Trichloroethene	<EQL	4.4
106-46-7	1,4-Dichlorobenzene	NA	4.4	75-69-4	Trichlorofluoromethane	NA	4.4
75-71-8	Dichlorodifluoromethane	NA	4.4	96-63-6	1,2,4-Trimethylbenzene	NA	4.4
75-34-3	1,1-Dichloroethane	<EQL	4.4	108-67-8	1,3,5-Trimethylbenzene	NA	4.4
107-06-2	1,2-Dichloroethane	<EQL	4.4	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.4
75-35-4	1,1-Dichloroethene	<EQL	4.4	1120-21-4	n-Undecane	NA	4.4
156-59-2	cis-1,2-Dichloroethene	<EQL	4.4	75-01-4	Vinyl chloride	<EQL	4.4
156-60-5	trans-1,2-Dichloroethene	<EQL	4.4	1330-20-7	Xylenes (total)	<EQL	4.4
78-87-5	1,2-Dichloropropane	<EQL	4.4	67-64-1	Acetone	<EQL	22
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.4	78-93-3	2-Butanone	<EQL	22
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.4	591-78-6	2-Hexanone	<EQL	22
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.4	108-10-1	4-Methyl-2-pentanone	<EQL	22
112-40-3	n-Dodecane	NA	4.4	108-05-4	Vinyl acetate	EQL	22

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	92	27 - 175
4-Bromofluorobenzene	99	53 - 172

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-01						
CLIENT ID:	DW1 #026						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.152	0.0	8.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.152	0.0	10.6	ND
74-83-9	Bromomethane	94.94	1.0	4.152	0.0	16.1	ND
75-00-3	Chloroethane	64.51	1.0	4.152	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.152	0.0	16.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.152	0.0	12.9	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.152	0.0	16.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.152	0.0	16.8	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.152	0.0	16.5	ND
67-66-3	Chloroform	119.38	1.0	4.152	0.0	20.3	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.152	0.0	22.6	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.152	0.0	26.1	ND
71-43-2	Benzene	78.11	1.0	4.152	0.0	13.3	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.152	0.0	16.8	ND
79-01-6	Trichloroethene	131.39	1.0	4.152	0.0	22.3	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.152	0.0	19.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.152	0.0	27.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.152	0.0	18.8	ND
108-88-3	Toluene	92.14	1.0	4.152	0.0	15.6	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.152	0.0	18.8	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.152	0.0	22.6	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.152	0.0	28.1	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.152	0.0	35.4	ND
108-90-7	Chlorobenzene	112.56	1.0	4.152	0.0	19.1	ND
100-41-4	Ethylbenzene	106.17	1.0	4.152	0.0	18.0	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.152	0.0	18.0	ND
100-42-5	Styrene	104.15	1.0	4.152	0.0	17.7	ND
75-25-2	Bromoform	252.73	1.0	4.152	0.0	42.9	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.152	0.0	28.5	ND
75-09-2	Methylene Chloride	84.93	1.0	4.152	0.0	14.4	ND
67-64-1	Acetone	58.08	5.0	4.152	0.0	49.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.152	0.0	73.1	ND
78-93-3	2-Butanone	72.11	5.0	4.152	0.0	61.2	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.152	0.0	85.0	ND
591-78-6	2-Hexanone	100.16	5.0	4.152	0.0	85.0	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-02						
CLIENT ID:	DW1CO, #088						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.251	0.0	8.8	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.251	0.0	10.9	ND
74-83-9	Bromomethane	94.94	1.0	4.251	0.0	16.5	ND
75-00-3	Chloroethane	64.51	1.0	4.251	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.251	0.0	16.8	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.251	0.0	13.2	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.251	0.0	16.8	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.251	0.0	17.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.251	0.0	16.8	ND
67-66-3	Chloroform	119.38	1.0	4.251	0.0	20.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.251	0.0	23.2	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.251	0.0	26.7	ND
71-43-2	Benzene	78.11	1.0	4.251	0.0	13.6	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.251	0.0	17.2	ND
79-01-6	Trichloroethene	131.39	1.0	4.251	0.0	22.8	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.251	0.0	19.6	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.251	0.0	28.5	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.251	0.0	19.3	ND
108-88-3	Toluene	92.14	1.0	4.251	0.0	16.0	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.251	0.0	19.3	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.251	0.0	23.2	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.251	0.0	28.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.251	0.0	36.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.251	0.0	19.6	ND
100-41-4	Ethylbenzene	106.17	1.0	4.251	0.0	18.5	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.251	0.0	18.5	ND
100-42-5	Styrene	104.15	1.0	4.251	0.0	18.1	ND
75-25-2	Bromoform	252.73	1.0	4.251	0.0	43.9	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.251	0.0	29.2	ND
75-09-2	Methylene Chloride	84.93	1.0	4.251	0.0	14.8	ND
67-64-1	Acetone	58.08	5.0	4.251	0.0	50.5	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.251	0.0	74.8	ND
78-93-3	2-Butanone	72.11	5.0	4.251	0.0	62.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.251	0.0	87.0	ND
591-78-6	2-Hexanone	100.16	5.0	4.251	0.0	87.0	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-03						
CLIENT ID:	DW2, #385						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.548	0.0	9.4	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.548	0.0	11.6	ND
74-83-9	Bromomethane	94.94	1.0	4.548	0.0	17.7	ND
75-00-3	Chloroethane	64.51	1.0	4.548	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.548	0.0	18.0	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.548	0.0	14.2	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.548	0.0	18.0	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.548	0.0	18.4	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.548	0.0	18.0	ND
67-66-3	Chloroform	119.38	1.0	4.548	0.0	22.2	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.548	0.0	24.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.548	0.0	28.6	ND
71-43-2	Benzene	78.11	1.0	4.548	0.0	14.5	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.548	0.0	18.4	ND
79-01-6	Trichloroethene	131.39	1.0	4.548	0.0	24.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.548	0.0	21.0	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.548	0.0	30.5	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.548	0.0	20.6	ND
108-88-3	Toluene	92.14	1.0	4.548	0.0	17.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.548	0.0	20.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.548	0.0	24.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.548	0.0	30.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.548	0.0	38.7	ND
108-90-7	Chlorobenzene	112.56	1.0	4.548	0.0	20.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.548	0.0	19.7	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.548	0.0	19.7	ND
100-42-5	Styrene	104.15	1.0	4.548	0.0	19.4	ND
75-25-2	Bromoform	252.73	1.0	4.548	0.0	47.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.548	0.0	31.2	ND
75-09-2	Methylene Chloride	84.93	1.0	4.548	0.0	15.8	ND
67-64-1	Acetone	58.08	5.0	4.548	0.0	54.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.548	0.0	80.0	ND
78-93-3	2-Butanone	72.11	5.0	4.548	0.0	67.0	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.548	0.0	93.1	ND
591-78-6	2-Hexanone	100.16	5.0	4.548	0.0	93.1	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-04						
CLIENT ID:	UW3, #388						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.069	0.0	8.4	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.069	0.0	10.4	ND
74-83-9	Bromomethane	94.94	1.0	4.069	0.0	15.8	ND
75-00-3	Chloroethane	64.51	1.0	4.069	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.069	0.0	16.1	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.069	0.0	12.7	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.069	0.0	16.1	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.069	0.0	16.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.069	0.0	16.1	ND
67-66-3	Chloroform	119.38	1.0	4.069	0.0	19.9	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.069	0.0	22.2	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.069	0.0	25.6	ND
71-43-2	Benzene	78.11	1.0	4.069	0.0	13.0	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.069	0.0	16.5	ND
79-01-6	Trichloroethene	131.39	1.0	4.069	0.0	21.9	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.069	0.0	18.8	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.069	0.0	27.3	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.069	0.0	18.5	ND
108-88-3	Toluene	92.14	1.0	4.069	0.0	15.3	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.069	0.0	18.5	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.069	0.0	22.2	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.069	0.0	27.6	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.069	0.0	34.6	ND
108-90-7	Chlorobenzene	112.56	1.0	4.069	0.0	18.7	ND
100-41-4	Ethylbenzene	106.17	1.0	4.069	0.0	17.7	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.069	0.0	17.7	ND
100-42-5	Styrene	104.15	1.0	4.069	0.0	17.3	ND
75-25-2	Bromoform	252.73	1.0	4.069	0.0	42.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.069	0.0	27.9	ND
75-09-2	Methylene Chloride	84.93	1.0	4.069	0.0	14.1	ND
67-64-1	Acetone	58.08	5.0	4.069	0.0	48.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.069	0.0	71.6	ND
78-93-3	2-Butanone	72.11	5.0	4.069	0.0	60.0	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.069	0.0	83.3	ND
591-78-6	2-Hexanone	100.16	5.0	4.069	0.0	83.3	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-05						
CLIENT ID:	DW4, #321						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.317	0.0	8.9	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.317	0.0	11.0	ND
74-83-9	Bromomethane	94.94	1.0	4.317	0.0	16.8	ND
75-00-3	Chloroethane	64.51	1.0	4.317	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.317	0.0	17.1	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.317	34.0	13.4	105.8
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.317	0.0	17.1	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.317	0.0	17.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.317	0.0	17.1	ND
67-66-3	Chloroform	119.38	1.0	4.317	0.0	21.1	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.317	0.0	23.5	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.317	0.0	27.1	ND
71-43-2	Benzene	78.11	1.0	4.317	0.0	13.8	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.317	0.0	17.5	ND
79-01-6	Trichloroethene	131.39	1.0	4.317	0.0	23.2	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.317	0.0	19.9	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.317	0.0	28.9	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.317	0.0	19.6	ND
108-88-3	Toluene	92.14	1.0	4.317	0.0	16.3	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.317	0.0	19.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.317	0.0	23.5	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.317	0.0	29.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.317	0.0	36.8	ND
108-90-7	Chlorobenzene	112.56	1.0	4.317	0.0	19.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.317	0.0	18.7	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.317	0.0	18.7	ND
100-42-5	Styrene	104.15	1.0	4.317	0.0	18.4	ND
75-25-2	Bromoform	252.73	1.0	4.317	0.0	44.6	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.317	0.0	29.6	ND
75-09-2	Methylene Chloride	84.93	1.0	4.317	0.0	15.0	ND
67-64-1	Acetone	58.08	5.0	4.317	0.0	51.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.317	0.0	76.0	ND
78-93-3	2-Butanone	72.11	5.0	4.317	0.0	63.6	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.317	0.0	88.4	ND
591-78-6	2-Hexanone	100.16	5.0	4.317	0.0	88.4	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-06						
CLIENT ID:	UW5, #271						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.021	0.0	8.3	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.021	0.0	10.3	ND
74-83-9	Bromomethane	94.94	1.0	4.021	0.0	15.6	ND
75-00-3	Chloroethane	64.51	1.0	4.021	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.021	0.0	15.9	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.021	0.0	12.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.021	0.0	15.9	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.021	0.0	16.3	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.021	0.0	15.9	ND
67-66-3	Chloroform	119.38	1.0	4.021	0.0	19.6	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.021	0.0	21.9	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.021	0.0	25.3	ND
71-43-2	Benzene	78.11	1.0	4.021	0.0	12.8	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.021	0.0	16.3	ND
79-01-6	Trichloroethene	131.39	1.0	4.021	0.0	21.6	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.021	0.0	18.6	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.021	0.0	26.9	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.021	0.0	18.2	ND
108-88-3	Toluene	92.14	1.0	4.021	0.0	15.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.021	0.0	18.2	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.021	0.0	21.9	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.021	0.0	27.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.021	0.0	34.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.021	0.0	18.5	ND
100-41-4	Ethylbenzene	106.17	1.0	4.021	0.0	17.5	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.021	0.0	17.5	ND
100-42-5	Styrene	104.15	1.0	4.021	0.0	17.1	ND
75-25-2	Bromoform	252.73	1.0	4.021	0.0	41.5	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.021	0.0	27.6	ND
75-09-2	Methylene Chloride	84.93	1.0	4.021	0.0	14.0	ND
67-64-1	Acetone	58.08	5.0	4.021	0.0	47.7	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.021	0.0	70.8	ND
78-93-3	2-Butanone	72.11	5.0	4.021	0.0	59.3	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.021	0.0	82.3	ND
591-78-6	2-Hexanone	100.16	5.0	4.021	0.0	82.3	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-07						
CLIENT ID:	DW6, #305						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.152	0.0	8.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.152	0.0	10.6	ND
74-83-9	Bromomethane	94.94	1.0	4.152	0.0	16.1	ND
75-00-3	Chloroethane	64.51	1.0	4.152	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.152	0.0	16.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.152	0.0	12.9	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.152	0.0	16.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.152	0.0	16.8	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.152	0.0	16.5	ND
67-66-3	Chloroform	119.38	1.0	4.152	0.0	20.3	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.152	0.0	22.6	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.152	0.0	26.1	ND
71-43-2	Benzene	78.11	1.0	4.152	0.0	13.3	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.152	0.0	16.8	ND
79-01-6	Trichloroethene	131.39	1.0	4.152	0.0	22.3	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.152	0.0	19.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.152	0.0	27.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.152	0.0	18.8	ND
108-88-3	Toluene	92.14	1.0	4.152	0.0	15.6	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.152	0.0	18.8	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.152	0.0	22.6	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.152	0.0	28.1	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.152	0.0	35.4	ND
108-90-7	Chlorobenzene	112.56	1.0	4.152	0.0	19.1	ND
100-41-4	Ethylbenzene	106.17	1.0	4.152	0.0	18.0	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.152	0.0	18.0	ND
100-42-5	Styrene	104.15	1.0	4.152	0.0	17.7	ND
75-25-2	Bromoform	252.73	1.0	4.152	0.0	42.9	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.152	0.0	28.5	ND
75-09-2	Methylene Chloride	84.93	1.0	4.152	0.0	14.4	ND
67-64-1	Acetone	58.08	5.0	4.152	0.0	49.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.152	0.0	73.1	ND
78-93-3	2-Butanone	72.11	5.0	4.152	0.0	61.2	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.152	0.0	85.0	ND
591-78-6	2-Hexanone	100.16	5.0	4.152	0.0	85.0	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-08						
CLIENT ID:	DW6CO, #939						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.181	0.0	8.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.181	0.0	10.7	ND
74-83-9	Bromomethane	94.94	1.0	4.181	0.0	16.2	ND
75-00-3	Chloroethane	64.51	1.0	4.181	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.181	0.0	16.6	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.181	0.0	13.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.181	0.0	16.6	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.181	0.0	16.9	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.181	0.0	16.6	ND
67-66-3	Chloroform	119.38	1.0	4.181	0.0	20.4	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.181	0.0	22.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.181	0.0	26.3	ND
71-43-2	Benzene	78.11	1.0	4.181	0.0	13.4	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.181	0.0	16.9	ND
79-01-6	Trichloroethene	131.39	1.0	4.181	0.0	22.5	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.181	0.0	19.3	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.181	0.0	28.0	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.181	0.0	19.0	ND
108-88-3	Toluene	92.14	1.0	4.181	0.0	15.7	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.181	0.0	19.0	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.181	0.0	22.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.181	0.0	28.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.181	0.0	35.6	ND
108-90-7	Chlorobenzene	112.56	1.0	4.181	0.0	19.2	ND
100-41-4	Ethylbenzene	106.17	1.0	4.181	0.0	18.1	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.181	0.0	18.1	ND
100-42-5	Styrene	104.15	1.0	4.181	0.0	17.8	ND
75-25-2	Bromoform	252.73	1.0	4.181	0.0	43.2	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.181	0.0	28.7	ND
75-09-2	Methylene Chloride	84.93	1.0	4.181	0.0	14.5	ND
67-64-1	Acetone	58.08	5.0	4.181	0.0	49.6	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.181	0.0	73.6	ND
78-93-3	2-Butanone	72.11	5.0	4.181	0.0	61.6	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.181	0.0	85.6	ND
591-78-6	2-Hexanone	100.16	5.0	4.181	0.0	85.6	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-09						
CLIENT ID:	DW7, #167						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.263	0.0	8.8	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.263	0.0	10.9	ND
74-83-9	Bromomethane	94.94	1.0	4.263	0.0	16.5	ND
75-00-3	Chloroethane	64.51	1.0	4.263	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.263	0.0	16.9	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.263	0.0	13.3	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.263	0.0	16.9	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.263	0.0	17.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.263	0.0	16.9	ND
67-66-3	Chloroform	119.38	1.0	4.263	0.0	20.8	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.263	0.0	23.2	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.263	0.0	26.8	ND
71-43-2	Benzene	78.11	1.0	4.263	0.0	13.6	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.263	0.0	17.2	ND
79-01-6	Trichloroethene	131.39	1.0	4.263	0.0	22.9	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.263	0.0	19.7	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.263	0.0	28.6	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.263	0.0	19.3	ND
108-88-3	Toluene	92.14	1.0	4.263	0.0	16.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.263	0.0	19.3	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.263	0.0	23.2	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.263	0.0	28.9	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.263	0.0	36.3	ND
108-90-7	Chlorobenzene	112.56	1.0	4.263	0.0	19.6	ND
100-41-4	Ethylbenzene	106.17	1.0	4.263	0.0	18.5	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.263	0.0	18.5	ND
100-42-5	Styrene	104.15	1.0	4.263	0.0	18.2	ND
75-25-2	Bromoform	252.73	1.0	4.263	0.0	44.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.263	0.0	29.3	ND
75-09-2	Methylene Chloride	84.93	1.0	4.263	0.0	14.8	ND
67-64-1	Acetone	58.08	5.0	4.263	0.0	50.6	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.263	0.0	75.0	ND
78-93-3	2-Butanone	72.11	5.0	4.263	0.0	62.8	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.263	0.0	87.3	ND
591-78-6	2-Hexanone	100.16	5.0	4.263	0.0	87.3	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-10						
CLIENT ID:	UW8, #288						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.372	0.0	9.0	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.372	0.0	11.2	ND
74-83-9	Bromomethane	94.94	1.0	4.372	0.0	17.0	ND
75-00-3	Chloroethane	64.51	1.0	4.372	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.372	0.0	17.3	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.372	7.0	13.6	21.8
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.372	0.0	17.3	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.372	0.0	17.7	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.372	0.0	17.3	ND
67-66-3	Chloroform	119.38	1.0	4.372	0.0	21.3	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.372	0.0	23.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.372	0.0	27.5	ND
71-43-2	Benzene	78.11	1.0	4.372	0.0	14.0	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.372	0.0	17.7	ND
79-01-6	Trichloroethene	131.39	1.0	4.372	0.0	23.5	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.372	0.0	20.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.372	0.0	29.3	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.372	0.0	19.8	ND
108-88-3	Toluene	92.14	1.0	4.372	0.0	16.5	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.372	0.0	19.8	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.372	0.0	23.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.372	0.0	29.6	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.372	0.0	37.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.372	0.0	20.1	ND
100-41-4	Ethylbenzene	106.17	1.0	4.372	0.0	19.0	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.372	0.0	19.0	ND
100-42-5	Styrene	104.15	1.0	4.372	0.0	18.6	ND
75-25-2	Bromoform	252.73	1.0	4.372	0.0	45.2	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.372	0.0	30.0	ND
75-09-2	Methylene Chloride	84.93	1.0	4.372	0.0	15.2	ND
67-64-1	Acetone	58.08	5.0	4.372	40.0	51.9	95.0
108-05-4	Vinyl Acetate	86.09	5.0	4.372	0.0	76.9	ND
78-93-3	2-Butanone	72.11	5.0	4.372	0.0	64.4	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.323	0.0	88.5	ND
591-78-6	2-Hexanone	100.16	5.0	4.372	0.0	89.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-11						
CLIENT ID:	DW9, #109						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.323	0.0	8.9	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.323	0.0	11.0	ND
74-83-9	Bromomethane	94.94	1.0	4.323	0.0	16.8	ND
75-00-3	Chloroethane	64.51	1.0	4.323	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.323	0.0	17.1	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.323	0.0	13.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.323	0.0	17.1	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.323	0.0	17.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.323	0.0	17.1	ND
67-66-3	Chloroform	119.38	1.0	4.323	0.0	21.1	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.323	0.0	23.6	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.323	0.0	27.2	ND
71-43-2	Benzene	78.11	1.0	4.323	0.0	13.8	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.323	0.0	17.5	ND
79-01-6	Trichloroethene	131.39	1.0	4.323	0.0	23.2	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.323	0.0	20.0	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.323	0.0	29.0	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.323	0.0	19.6	ND
108-88-3	Toluene	92.14	1.0	4.323	0.0	16.3	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.323	0.0	19.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.323	0.0	23.6	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.323	0.0	29.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.323	0.0	36.8	ND
108-90-7	Chlorobenzene	112.56	1.0	4.323	0.0	19.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.323	0.0	18.8	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.323	0.0	18.8	ND
100-42-5	Styrene	104.15	1.0	4.323	0.0	18.4	ND
75-25-2	Bromoform	252.73	1.0	4.323	0.0	44.7	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.323	0.0	29.7	ND
75-09-2	Methylene Chloride	84.93	1.0	4.323	0.0	15.0	ND
67-64-1	Acetone	58.08	5.0	4.323	0.0	51.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.323	0.0	76.1	ND
78-93-3	2-Butanone	72.11	5.0	4.323	0.0	63.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.323	0.0	88.5	ND
591-78-6	2-Hexanone	100.16	5.0	4.323	0.0	88.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-191-12						
CLIENT ID:	DW9CO, #423						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.410	0.0	9.1	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.410	0.0	11.3	ND
74-83-9	Bromomethane	94.94	1.0	4.410	0.0	17.1	ND
75-00-3	Chloroethane	64.51	1.0	4.410	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.410	0.0	17.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.410	0.0	13.7	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.410	0.0	17.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.410	0.0	17.8	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.410	0.0	17.5	ND
67-66-3	Chloroform	119.38	1.0	4.410	0.0	21.5	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.410	0.0	24.1	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.410	0.0	27.7	ND
71-43-2	Benzene	78.11	1.0	4.410	0.0	14.1	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.410	0.0	17.8	ND
79-01-6	Trichloroethene	131.39	1.0	4.410	0.0	23.7	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.410	0.0	20.4	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.410	0.0	29.5	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.410	0.0	20.0	ND
108-88-3	Toluene	92.14	1.0	4.410	0.0	16.6	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.410	0.0	20.0	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.410	0.0	24.1	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.410	0.0	29.9	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.410	0.0	37.6	ND
108-90-7	Chlorobenzene	112.56	1.0	4.410	0.0	20.3	ND
100-41-4	Ethylbenzene	106.17	1.0	4.410	0.0	19.1	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.410	0.0	19.1	ND
100-42-5	Styrene	104.15	1.0	4.410	0.0	18.8	ND
75-25-2	Bromoform	252.73	1.0	4.410	0.0	45.6	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.410	0.0	30.3	ND
75-09-2	Methylene Chloride	84.93	1.0	4.410	0.0	15.3	ND
67-64-1	Acetone	58.08	5.0	4.410	0.0	52.4	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.410	0.0	77.6	ND
78-93-3	2-Butanone	72.11	5.0	4.410	0.0	65.0	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.410	0.0	90.3	ND
591-78-6	2-Hexanone	100.16	5.0	4.410	0.0	90.3	ND

95-12-188

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MDNR - WICK

SAMPLERS (SIGNATURE): ANDRE CASAVANT

Andre Casavant

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE: VOCs TO-14					START VACUUM	STOP VACUUM					REMARKS: INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
DW7	12-27	1230-1841	✓		GRID 290	1	✓					27.5	2.0					AIR #167
UW8	↓	1302-1852	✓		30' W of dirt road & 50' S of Ecorse	1	✓					30.0	4.0					AIR #288
DW9	↓	1246-1821	✓		end of dirt road @ gasoline	1	✓					28.0	3.0					AIR #109
DW9CO	↓	1246-1821	✓		end of dirt road @ gasoline	1	✓					28.0	4.0					AIR #423

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Andre Casavant	12-27 2000	[illegible] 12/28/95 1100			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

OH-62

ABB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MUNK - WICK

SAMPLERS (SIGNATURE): ANDRÉ CASAVANT

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs TO-14			START VACUUM	STOP VACUUM						REMARKS (INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE)
DW4	12-27	0640-1230	✓		GRID 270	1	✓			28.0	3.0						AIR #321
DW5	12-27	0659-1302	✓		30' W of dirt road 150' of fence	1	✓			30.0	2.0						AIR #271
DW6	12-27	0714-1244	✓		end of dirt road @ fence	1	✓			28.0	3.0						AIR #305
DW6CO	12-27	0714-1244	✓		end of dirt road @ fence	1	✓			27.5	2.5						AIR # 939 188

inscribed on bottom of can

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	12-27 1400	12/28/95 1100			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-62

15-12-~~788~~ 191 CT

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NO.: 9252-01

PROJECT NAME: MDNR - WICK

SAMPLERS (SIGNATURE): ANDRE CASAVANT

Andre Casavant

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs TO-14					START VACUUM	END VACUUM					REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
DW1	12-26	1433-2030			100' NE of site trailer	1	✓					27.5	2.0					AIR Can #26
DW1CO		1433-2030	✓		100' NE of site trailer	1	✓					27.0	3.0					AIR #88
DW2		1449 2045	✓		15' W of RR & 0.55 miles S of Ecorse	1	✓					27.0	5.0					AIR #385
UW3		1459-1725	✓		30' W of dist. road & 50 S of Ecorse	1	✓					27.5	3.0					AIR #388

12/29 Andre

GP TAT 10 B.D.

Mail directly to Andre Casavant: ARC Consulting 94 Glenwood Ave. Portland, Maine 04103 F: 207-780-7918

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Andre Casavant	12-27 1400	[signature] 12/28/95 1100			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

OH-62

ABB Environmental Services, Inc.

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

ARC Consulting
94 Greenwood Ave.
Portland, ME 04103

Attn: Andre Cosavant

Work Order #: 95-12-193
Client Code: ABB_ENVIRO
Report Date: 01/15/96
Work ID: Canisters for TO-14
Date Received: 12/29/95

Purchase Order: Proj# 9252-01/MNDR-WICK

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Canister UW10, #181	02	Canister DW11, #247
03	Canister DW12, #272	04	Canister DW12CO, #614

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

Certificate approved by
Carol L. Turner

REPORT COMMENTS

Results are reported in ppbv and ug/m3.

TEST METHODOLOGIES

Volatile organics were determined by aliquoting from a SUMMA-polished canister or other vessel followed by gas chromatography/mass spectrometry as in EPA Method TO-14.

Work Order # 95-12-193 **Ross Analytical Services, Inc** **Reported: 01/15/96**

Sample Description **Canister UW10, #181** Lab No. 01
Test Description **Canisters or bags by TO-14** Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv
INITIAL PRESSURE, TORR 760 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.016

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.0	100-41-4	Ethylbenzene	<EQL	4.0
100-44-7	Benzyl chloride	NA	4.0	142-82-5	n-Heptane	NA	4.0
75-27-4	Bromodichloromethane	<EQL	4.0	87-68-3	Hexachlorobutadiene	NA	4.0
75-25-2	Bromoform	<EQL	4.0	110-54-3	n-Hexane	NA	4.0
74-83-9	Bromomethane	<EQL	4.0	75-09-2	Methylene chloride	<EQL	8.0
75-15-0	Carbon disulfide	<EQL	4.0	98-83-9	α-methyl styrene	NA	4.0
56-23-5	Carbon tetrachloride	<EQL	4.0	111-84-2	n-Nonane	NA	4.0
108-90-7	Chlorobenzene	<EQL	4.0	111-65-9	n-Octane	NA	4.0
75-45-6	Chlorodifluoromethane	NA	4.0	109-66-0	n-Pentane	NA	4.0
75-00-3	Chloroethane	<EQL	4.0	100-42-5	Styrene	<EQL	4.0
67-66-3	Chloroform	<EQL	4.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.0
74-87-3	Chloromethane	<EQL	4.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.0
98-82-8	Cumene	NA	4.0	127-18-4	Tetrachloroethene	<EQL	4.0
124-18-5	n-Decane	NA	4.0	108-88-3	Toluene	<EQL	4.0
124-48-1	Dibromochloromethane	<EQL	4.0	120-82-1	1,2,4-Trichlorobenzene	NA	4.0
106-93-4	1,2-Dibromoethane	NA	4.0	71-55-6	1,1,1-Trichloroethane	<EQL	4.0
95-50-1	1,2-Dichlorobenzene	NA	4.0	79-00-5	1,1,2-Trichloroethane	<EQL	4.0
541-73-1	1,3-Dichlorobenzene	NA	4.0	79-01-6	Trichloroethene	<EQL	4.0
106-46-7	1,4-Dichlorobenzene	NA	4.0	75-69-4	Trichlorofluoromethane	NA	4.0
75-71-8	Dichlorodifluoromethane	NA	4.0	96-63-6	1,2,4-Trimethylbenzene	NA	4.0
75-34-3	1,1-Dichloroethane	<EQL	4.0	108-67-8	1,3,5-Trimethylbenzene	NA	4.0
107-06-2	1,2-Dichloroethane	<EQL	4.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.0
75-35-4	1,1-Dichloroethene	<EQL	4.0	1120-21-4	n-Undecane	NA	4.0
156-59-2	cis-1,2-Dichloroethene	<EQL	4.0	75-01-4	Vinyl chloride	<EQL	4.0
156-60-5	trans-1,2-Dichloroethene	<EQL	4.0	1330-20-7	Xylenes (total)	<EQL	4.0
78-87-5	1,2-Dichloropropane	<EQL	4.0	67-64-1	Acetone	<EQL	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.0	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.0	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.0	108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA	4.0	108-05-4	Vinyl acetate	<EQL	20

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	92	54 - 152
Toluene-d8	98	27 - 175
4-Bromofluorobenzene	101	53 - 172

Work Order # 95-12-193 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW11, #247 Lab No. 02

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv

INITIAL PRESSURE, TORR 679 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.492

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.5	100-41-4	Ethylbenzene	<EQL	4.5
100-44-7	Benzyl chloride	NA	4.5	142-82-5	n-Heptane	NA	4.5
75-27-4	Bromodichloromethane	<EQL	4.5	87-68-3	Hexachlorobutadiene	NA	4.5
75-25-2	Bromoform	<EQL	4.5	110-54-3	n-Hexane	NA	4.5
74-83-9	Bromomethane	<EQL	4.5	75-09-2	Methylene chloride	<EQL	9.0
75-15-0	Carbon disulfide	<EQL	4.5	98-83-9	α-methyl styrene	NA	4.5
56-23-5	Carbon tetrachloride	<EQL	4.5	111-84-2	n-Nonane	NA	4.5
108-90-7	Chlorobenzene	<EQL	4.5	111-65-9	n-Octane	NA	4.5
75-45-6	Chlorodifluoromethane	NA	4.5	109-66-0	n-Pentane	NA	4.5
75-00-3	Chloroethane	<EQL	4.5	100-42-5	Styrene	<EQL	4.5
67-66-3	Chloroform	<EQL	4.5	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.5
74-87-3	Chloromethane	<EQL	4.5	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.5
98-82-8	Cumene	NA	4.5	127-18-4	Tetrachloroethene	<EQL	4.5
124-18-5	n-Decane	NA	4.5	108-88-3	Toluene	<EQL	4.5
124-48-1	Dibromochloromethane	<EQL	4.5	120-82-1	1,2,4-Trichlorobenzene	NA	4.5
106-93-4	1,2-Dibromoethane	NA	4.5	71-55-6	1,1,1-Trichloroethane	<EQL	4.5
95-50-1	1,2-Dichlorobenzene	NA	4.5	79-00-5	1,1,2-Trichloroethane	<EQL	4.5
541-73-1	1,3-Dichlorobenzene	NA	4.5	79-01-6	Trichloroethene	<EQL	4.5
106-46-7	1,4-Dichlorobenzene	NA	4.5	75-69-4	Trichlorofluoromethane	NA	4.5
75-71-8	Dichlorodifluoromethane	NA	4.5	96-63-6	1,2,4-Trimethylbenzene	NA	4.5
75-34-3	1,1-Dichloroethane	<EQL	4.5	108-67-8	1,3,5-Trimethylbenzene	NA	4.5
107-06-2	1,2-Dichloroethane	<EQL	4.5	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.5
75-35-4	1,1-Dichloroethene	<EQL	4.5	1120-21-4	n-Undecane	NA	4.5
156-59-2	cis-1,2-Dichloroethene	<EQL	4.5	75-01-4	Vinyl chloride	<EQL	4.5
156-60-5	trans-1,2-Dichloroethene	<EQL	4.5	1330-20-7	Xylenes (total)	<EQL	4.5
78-87-5	1,2-Dichloropropane	<EQL	4.5	67-64-1	Acetone	<EQL	22
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.5	78-93-3	2-Butanone	<EQL	22
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.5	591-78-6	2-Hexanone	<EQL	22
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.5	108-10-1	4-Methyl-2-pentanone	<EQL	22
112-40-3	n-Dodecane	NA	4.5	108-05-4	Vinyl acetate	<EQL	22

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	89	54 - 152
Toluene-d8	90	27 - 175
4-Bromofluorobenzene	95	53 - 172

Work Order # 95-12-193 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW12, #272 Lab No. 03
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv
INITIAL PRESSURE, TORR 732 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.169

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.2	100-41-4	Ethylbenzene	<EQL	4.2
100-44-7	Benzyl chloride	NA	4.2	142-82-5	n-Heptane	NA	4.2
75-27-4	Bromodichloromethane	<EQL	4.2	87-68-3	Hexachlorobutadiene	NA	4.2
75-25-2	Bromoform	<EQL	4.2	110-54-3	n-Hexane	NA	4.2
74-83-9	Bromomethane	<EQL	4.2	75-09-2	Methylene chloride	<EQL	8.3
75-15-0	Carbon disulfide	<EQL	4.2	98-83-9	α-methyl styrene	NA	4.2
56-23-5	Carbon tetrachloride	<EQL	4.2	111-84-2	n-Nonane	NA	4.2
108-90-7	Chlorobenzene	<EQL	4.2	111-65-9	n-Octane	NA	4.2
75-45-6	Chlorodifluoromethane	NA	4.2	109-66-0	n-Pentane	NA	4.2
75-00-3	Chloroethane	<EQL	4.2	100-42-5	Styrene	<EQL	4.2
67-66-3	Chloroform	<EQL	4.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.2
74-87-3	Chloromethane	15	4.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.2
98-82-8	Cumene	NA	4.2	127-18-4	Tetrachloroethene	<EQL	4.2
124-18-5	n-Decane	NA	4.2	108-88-3	Toluene	<EQL	4.2
124-48-1	Dibromochloromethane	<EQL	4.2	120-82-1	1,2,4-Trichlorobenzene	<EQL	4.2
106-93-4	1,2-Dibromoethane	NA	4.2	71-55-6	1,1,1-Trichloroethane	<EQL	4.2
95-50-1	1,2-Dichlorobenzene	NA	4.2	79-00-5	1,1,2-Trichloroethane	<EQL	4.2
541-73-1	1,3-Dichlorobenzene	NA	4.2	79-01-6	Trichloroethene	<EQL	4.2
106-46-7	1,4-Dichlorobenzene	NA	4.2	75-69-4	Trichlorofluoromethane	NA	4.2
75-71-8	Dichlorodifluoromethane	NA	4.2	96-63-6	1,2,4-Trimethylbenzene	NA	4.2
75-34-3	1,1-Dichloroethane	<EQL	4.2	108-67-8	1,3,5-Trimethylbenzene	NA	4.2
107-06-2	1,2-Dichloroethane	<EQL	4.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.2
75-35-4	1,1-Dichloroethene	<EQL	4.2	1120-21-4	n-Undecane	NA	4.2
156-59-2	cis-1,2-Dichloroethene	<EQL	4.2	75-01-4	Vinyl chloride	<EQL	4.2
156-60-5	trans-1,2-Dichloroethene	<EQL	4.2	1330-20-7	Xylenes (total)	<EQL	4.2
78-87-5	1,2-Dichloropropane	<EQL	4.2	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.2	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.2	591-78-6	2-Hexanone	EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.2	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.2	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	91	54 - 152
Toluene-d8	92	27 - 175
4-Bromofluorobenzene	100	53 - 172

Work Order # 95-12-193 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW12CO, #614 Lab No. 04
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv
INITIAL PRESSURE, TORR 698 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.372

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.4	100-41-4	Ethylbenzene	<EQL	4.4
100-44-7	Benzyl chloride	NA	4.4	142-82-5	n-Heptane	NA	4.4
75-27-4	Bromodichloromethane	<EQL	4.4	87-68-3	Hexachlorobutadiene	NA	4.4
75-25-2	Bromoform	<EQL	4.4	110-54-3	n-Hexane	NA	4.4
74-83-9	Bromomethane	<EQL	4.4	75-09-2	Methylene chloride	<EQL	8.7
75-15-0	Carbon disulfide	<EQL	4.4	98-83-9	α-methyl styrene	NA	4.4
56-23-5	Carbon tetrachloride	<EQL	4.4	111-84-2	n-Nonane	NA	4.4
108-90-7	Chlorobenzene	<EQL	4.4	111-65-9	n-Octane	NA	4.4
75-45-6	Chlorodifluoromethane	NA	4.4	109-66-0	n-Pentane	NA	4.4
75-00-3	Chloroethane	<EQL	4.4	100-42-5	Styrene	<EQL	4.4
67-66-3	Chloroform	<EQL	4.4	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.4
74-87-3	Chloromethane	<EQL	4.4	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.4
98-82-8	Cumene	NA	4.4	127-18-4	Tetrachloroethene	<EQL	4.4
124-18-5	n-Decane	NA	4.4	108-88-3	Toluene	<EQL	4.4
124-48-1	Dibromochloromethane	<EQL	4.4	120-82-1	1,2,4-Trichlorobenzene	NA	4.4
106-93-4	1,2-Dibromoethane	NA	4.4	71-55-6	1,1,1-Trichloroethane	<EQL	4.4
95-50-1	1,2-Dichlorobenzene	NA	4.4	79-00-5	1,1,2-Trichloroethane	<EQL	4.4
541-73-1	1,3-Dichlorobenzene	NA	4.4	79-01-6	Trichloroethene	<EQL	4.4
106-46-7	1,4-Dichlorobenzene	NA	4.4	75-69-4	Trichlorofluoromethane	NA	4.4
75-71-8	Dichlorodifluoromethane	NA	4.4	96-63-6	1,2,4-Trimethylbenzene	NA	4.4
75-34-3	1,1-Dichloroethane	<EQL	4.4	108-67-8	1,3,5-Trimethylbenzene	NA	4.4
107-06-2	1,2-Dichloroethane	<EQL	4.4	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.4
75-35-4	1,1-Dichloroethene	<EQL	4.4	1120-21-4	n-Undecane	NA	4.4
156-59-2	cis-1,2-Dichloroethene	<EQL	4.4	75-01-4	Vinyl chloride	<EQL	4.4
156-60-5	trans-1,2-Dichloroethene	<EQL	4.4	1330-20-7	Xylenes (total)	<EQL	4.4
78-87-5	1,2-Dichloropropane	<EQL	4.4	67-64-1	Acetone	<EQL	22
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.4	78-93-3	2-Butanone	<EQL	22
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.4	591-78-6	2-Hexanone	<EQL	22
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.4	108-10-1	4-Methyl-2-pentanone	<EQL	22
112-40-3	n-Dodecane	NA	4.4	108-05-4	Vinyl acetate	<EQL	22

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	84	54 - 152
Toluene-d8	85	27 - 175
4-Bromofluorobenzene	103	53 - 172

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-181-01A						
CLIENT ID:	UW10, #181						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.016	0.0	8.3	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.016	0.0	10.3	ND
74-83-9	Bromomethane	94.94	1.0	4.016	0.0	15.6	ND
75-00-3	Chloroethane	64.51	1.0	4.016	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.016	0.0	15.9	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.016	0.0	12.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.016	0.0	15.9	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.016	0.0	16.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.016	0.0	15.9	ND
67-66-3	Chloroform	119.38	1.0	4.016	0.0	19.6	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.016	0.0	21.9	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.016	0.0	25.3	ND
71-43-2	Benzene	78.11	1.0	4.016	0.0	12.8	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.016	0.0	16.2	ND
79-01-6	Trichloroethene	131.39	1.0	4.016	0.0	21.6	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.016	0.0	18.6	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.016	0.0	26.9	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.016	0.0	18.2	ND
108-88-3	Toluene	92.14	1.0	4.016	0.0	15.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.016	0.0	18.2	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.016	0.0	21.9	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.016	0.0	27.2	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.016	0.0	34.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.016	0.0	18.5	ND
100-41-4	Ethylbenzene	106.17	1.0	4.016	0.0	17.4	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.016	0.0	17.4	ND
100-42-5	Styrene	104.15	1.0	4.016	0.0	17.1	ND
75-25-2	Bromoform	252.73	1.0	4.016	0.0	41.5	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.016	0.0	27.6	ND
75-09-2	Methylene Chloride	84.93	2.0	4.016	0.0	27.9	ND
67-64-1	Acetone	58.08	5.0	4.016	0.0	47.7	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.016	0.0	70.7	ND
78-93-3	2-Butanone	72.11	5.0	4.016	0.0	59.2	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.016	0.0	82.2	ND
591-78-6	2-Hexanone	100.16	5.0	4.016	0.0	82.2	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-181-02A						
CLIENT ID:	DW11, #247						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.492	0.0	9.3	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.492	0.0	11.5	ND
74-83-9	Bromomethane	94.94	1.0	4.492	0.0	17.4	ND
75-00-3	Chloroethane	64.51	1.0	4.492	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.492	0.0	17.8	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.492	0.0	14.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.492	0.0	17.8	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.492	0.0	18.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.492	0.0	17.8	ND
67-66-3	Chloroform	119.38	1.0	4.492	0.0	21.9	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.492	0.0	24.5	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.492	0.0	28.2	ND
71-43-2	Benzene	78.11	1.0	4.492	0.0	14.3	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.492	0.0	18.2	ND
79-01-6	Trichloroethene	131.39	1.0	4.492	0.0	24.1	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.492	0.0	20.8	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.492	0.0	30.1	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.492	0.0	20.4	ND
108-88-3	Toluene	92.14	1.0	4.492	0.0	16.9	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.492	0.0	20.4	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.492	0.0	24.5	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.492	0.0	30.5	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.492	0.0	38.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.492	0.0	20.7	ND
100-41-4	Ethylbenzene	106.17	1.0	4.492	0.0	19.5	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.492	0.0	19.5	ND
100-42-5	Styrene	104.15	1.0	4.492	0.0	19.1	ND
75-25-2	Bromoform	252.73	1.0	4.492	0.0	46.4	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.492	0.0	30.8	ND
75-09-2	Methylene Chloride	84.93	2.0	4.492	0.0	31.2	ND
67-64-1	Acetone	58.08	5.0	4.492	0.0	53.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.492	0.0	79.1	ND
78-93-3	2-Butanone	72.11	5.0	4.492	0.0	66.2	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.492	0.0	92.0	ND
591-78-6	2-Hexanone	100.16	5.0	4.492	0.0	92.0	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-181-03A						
CLIENT ID:	DW12, #272						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.169	0.0	8.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.169	0.0	10.7	ND
74-83-9	Bromomethane	94.94	1.0	4.169	0.0	16.2	ND
75-00-3	Chloroethane	64.51	1.0	4.169	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.169	0.0	16.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.169	0.0	13.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.169	0.0	16.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.169	0.0	16.9	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.169	0.0	16.5	ND
67-66-3	Chloroform	119.38	1.0	4.169	0.0	20.3	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.169	0.0	22.7	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.169	0.0	26.2	ND
71-43-2	Benzene	78.11	1.0	4.169	0.0	13.3	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.169	0.0	16.9	ND
79-01-6	Trichloroethene	131.39	1.0	4.169	0.0	22.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.169	0.0	19.3	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.169	0.0	27.9	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.169	0.0	18.9	ND
108-88-3	Toluene	92.14	1.0	4.169	0.0	15.7	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.169	0.0	18.9	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.169	0.0	22.7	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.169	0.0	28.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.169	0.0	35.5	ND
108-90-7	Chlorobenzene	112.56	1.0	4.169	0.0	19.2	ND
100-41-4	Ethylbenzene	106.17	1.0	4.169	0.0	18.1	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.169	0.0	18.1	ND
100-42-5	Styrene	104.15	1.0	4.169	0.0	17.8	ND
75-25-2	Bromoform	252.73	1.0	4.169	0.0	43.1	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.169	0.0	28.6	ND
75-09-2	Methylene Chloride	84.93	2.0	4.169	0.0	29.0	ND
67-64-1	Acetone	58.08	5.0	4.169	0.0	49.5	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.169	0.0	73.4	ND
78-93-3	2-Butanone	72.11	5.0	4.169	0.0	61.5	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.169	0.0	85.4	ND
591-78-6	2-Hexanone	100.16	5.0	4.169	0.0	85.4	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	95-12-181-04A						
CLIENT ID:	DW12CO, #614						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.372	0.0	9.0	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.372	0.0	11.2	ND
74-83-9	Bromomethane	94.94	1.0	4.372	0.0	17.0	ND
75-00-3	Chloroethane	64.51	1.0	4.372	0.0	0.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.372	0.0	17.3	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.372	0.0	13.6	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.372	0.0	17.3	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.372	0.0	17.7	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.372	0.0	17.3	ND
67-66-3	Chloroform	119.38	1.0	4.372	0.0	21.3	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.372	0.0	23.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.372	0.0	27.5	ND
71-43-2	Benzene	78.11	1.0	4.372	0.0	14.0	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.372	0.0	17.7	ND
79-01-6	Trichloroethene	131.39	1.0	4.372	0.0	23.5	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.372	0.0	20.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.372	0.0	29.3	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.372	0.0	19.8	ND
108-88-3	Toluene	92.14	1.0	4.372	0.0	16.5	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.372	0.0	19.8	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.372	0.0	23.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.372	0.0	29.6	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.372	0.0	37.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.372	0.0	20.1	ND
100-41-4	Ethylbenzene	106.17	1.0	4.372	0.0	19.0	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.372	0.0	19.0	ND
100-42-5	Styrene	104.15	1.0	4.372	0.0	18.6	ND
75-25-2	Bromoform	252.73	1.0	4.372	0.0	45.2	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.372	0.0	30.0	ND
75-09-2	Methylene Chloride	84.93	2.0	4.372	0.0	30.4	ND
67-64-1	Acetone	58.08	5.0	4.372	0.0	51.9	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.372	0.0	76.9	ND
78-93-3	2-Butanone	72.11	5.0	4.372	0.0	64.4	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.372	0.0	89.5	ND
591-78-6	2-Hexanone	100.16	5.0	4.372	0.0	89.5	ND

95-12-193

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MDNR-WICK

SAMPLERS (SIGNATURE): ANDRE CASAVANT
Andre Casavant

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS TO-14						START VACUUM	END VACUUM				REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
UW10	12-28	0944-1558	✓		30' W of dirt road & 50' S of Ecorse	1	✓						30.0	2.0				AIR CAN: 00181
DW11		0953-1542	✓		GRID 100	1	✓						27.0	4.0				AIR CAN: 00247
DW12		0958-1535	✓		end of dirt road @ S fenceline	1	✓						28.0	3.0				AIR CAN: 00272
DW12CO		0958-1535	✓		end of dirt road @ S fenceline	1	✓						28.0	4.0				AIR CAN: 00614

per Client, send report to
Andre Casavant
ARC Consulting
94 Greenwood
Portland, ME 04103
Fx: 207-780-8918

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Andre Casavant	12-28 1800	[signature] 12/29 1200			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

OH-62

ABB Environmental Services, Inc.

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

ARC Consulting
94 Greenwood Ave.
Portland, ME 04103

Attn: Dan Argentati/Andre Cosavant

Work Order #: 96-01-007
Client Code: ABB_ENVIRO
Report Date: 01/15/96
Work ID: Canisters for TO-14
Date Received: 01/02/96

Purchase Order: 9252-01

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Canister DW13/286	02	Canister DW14/158
03	Canister DW14CO/425	04	Canister UW15/576
05	Canister UW8FB/344	06	Canister UW15FB/264
07	Canister UW16/351	08	Canister DW17/129
09	Canister DW18/143	10	Canister DW18CO/144

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

Certificate approved by
Carol L. Turner

TEST METHODOLOGIES

Volatile organics were determined by aliquoting from a SUMMA-polished canister or other vessel followed by gas chromatography/mass spectrometry as in EPA Method TO-14.

Work Order # 96-01-007 **Ross Analytical Services, Inc** **Reported: 01/15/96**

Sample Description Canister DW13/286 Lab No. 01
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv
INITIAL PRESSURE, TORR 654 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.663

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.7	100-41-4	Ethylbenzene	<EQL	4.7
100-44-7	Benzyl chloride	NA	4.7	142-82-5	n-Heptane	NA	4.7
75-27-4	Bromodichloromethane	<EQL	4.7	87-68-3	Hexachlorobutadiene	NA	4.7
75-25-2	Bromoform	<EQL	4.7	110-54-3	n-Hexane	NA	4.7
74-83-9	Bromomethane	<EQL	4.7	75-09-2	Methylene chloride	<EQL	9.3
75-15-0	Carbon disulfide	<EQL	4.7	98-83-9	α-methyl styrene	NA	4.7
56-23-5	Carbon tetrachloride	<EQL	4.7	111-84-2	n-Nonane	NA	4.7
108-90-7	Chlorobenzene	<EQL	4.7	111-65-9	n-Octane	NA	4.7
75-45-6	Chlorodifluoromethane	NA	4.7	109-66-0	n-Pentane	NA	4.7
75-00-3	Chloroethane	<EQL	4.7	100-42-5	Styrene	<EQL	4.7
67-66-3	Chloroform	<EQL	4.7	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.7
74-87-3	Chloromethane	<EQL	4.7	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.7
98-82-8	Cumene	NA	4.7	127-18-4	Tetrachloroethene	<EQL	4.7
124-18-5	n-Decane	NA	4.7	108-88-3	Toluene	<EQL	4.7
124-48-1	Dibromochloromethane	<EQL	4.7	120-82-1	1,2,4-Trichlorobenzene	NA	4.7
106-93-4	1,2-Dibromoethane	NA	4.7	71-55-6	1,1,1-Trichloroethane	<EQL	4.7
95-50-1	1,2-Dichlorobenzene	NA	4.7	79-00-5	1,1,2-Trichloroethane	<EQL	4.7
541-73-1	1,3-Dichlorobenzene	NA	4.7	79-01-6	Trichloroethene	<EQL	4.7
106-46-7	1,4-Dichlorobenzene	NA	4.7	75-69-4	Trichlorofluoromethane	NA	4.7
75-71-8	Dichlorodifluoromethane	NA	4.7	96-63-6	1,2,4-Trimethylbenzene	NA	4.7
75-34-3	1,1-Dichloroethane	<EQL	4.7	108-67-8	1,3,5-Trimethylbenzene	NA	4.7
107-06-2	1,2-Dichloroethane	<EQL	4.7	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.7
75-35-4	1,1-Dichloroethene	<EQL	4.7	1120-21-4	n-Undecane	NA	4.7
156-59-2	cis-1,2-Dichloroethene	<EQL	4.7	75-01-4	Vinyl chloride	<EQL	4.7
156-60-5	trans-1,2-Dichloroethene	<EQL	4.7	1330-20-7	Xylenes (total)	<EQL	4.7
78-87-5	1,2-Dichloropropane	<EQL	4.7	67-64-1	Acetone	<EQL	23
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.7	78-93-3	2-Butanone	<EQL	23
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.7	591-78-6	2-Hexanone	<EQL	23
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.7	108-10-1	4-Methyl-2-pentanone	<EQL	23
112-40-3	n-Dodecane	NA	4.7	108-05-4	Vinyl acetate	<EQL	23

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	93	54 - 152
Toluene-d8	92	27 - 175
4-Bromofluorobenzene	100	53 - 172

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MDNR-WICK

SAMPLERS (SIGNATURE): ANDRE CASAVANT

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS TO-14					START VACUUM	END VAC UUM					REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
UW28	1-5	0822	✓		30'S of Coarse & 30'W of [illegible]	1	✓					30.0	2.0					AIR CAN #: 00274
DW29		0836	✓		~4 hrs @ 35'S of 398 4 hrs @ 30'S of 391	1	✓					28.0	2.0					AIR CAN #: 00410
DW29CO		0836	✓		~4 hrs @ 35'S of 398 4 hrs @ 30'S of 391	1	✓					27.0	8.0					AIR CAN #: 00413
DW30		0852	✓		10' NE of #358	1	✓					27.0	5.0					AIR CAN #: 00575

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	1-5 1730			1/9/96 1130	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

OH-62

ABB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO. 9252-01

PROJECT NAME MDNR-WICK

SAMPLERS (SIGNATURE) ANDRE CASAVANT

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs TO-14						START VACUUM	END VACUUM			REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
UW31	1-6	0827-	✓		30' W-E of dirt rd 1'30's of farm	1	✓						30.0	2.0			AIR CAN #: 00445
DW32		0838-	✓		50's of grid marker 205	1	✓						28.0	2.0			AIR CAN #: 00291
DW32CO		0838-	✓		50's of grid marker 205	1	✓						28.0	5.0			AIR CAN #: 00134
DW33		0848-	✓		185' W of grid marker 207	1	✓						28.0	6.0			AIR CAN #: 00346
DW33FB			—			1	✓										AIR CAN #: 00257
UW22FB			—			1	✓										AIR CAN #: 00606

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	1-6 1800			1/9/96 1130	Kandra Schalle
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-62

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW14/158 Lab No. 02

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv

INITIAL PRESSURE, TORR 630 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.841

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.8	100-41-4	Ethylbenzene	<EQL	4.8
100-44-7	Benzyl chloride	NA	4.8	142-82-5	n-Heptane	NA	4.8
75-27-4	Bromodichloromethane	<EQL	4.8	87-68-3	Hexachlorobutadiene	NA	4.8
75-25-2	Bromoform	<EQL	4.8	110-54-3	n-Hexane	NA	4.8
74-83-9	Bromomethane	<EQL	4.8	75-09-2	Methylene chloride	<EQL	9.7
75-15-0	Carbon disulfide	<EQL	4.8	98-83-9	α-methyl styrene	NA	4.8
56-23-5	Carbon tetrachloride	<EQL	4.8	111-84-2	n-Nonane	NA	4.8
108-90-7	Chlorobenzene	<EQL	4.8	111-65-9	n-Octane	NA	4.8
75-45-6	Chlorodifluoromethane	NA	4.8	109-66-0	n-Pentane	NA	4.8
75-00-3	Chloroethane	<EQL	4.8	100-42-5	Styrene	<EQL	4.8
67-66-3	Chloroform	<EQL	4.8	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.8
74-87-3	Chloromethane	<EQL	4.8	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.8
98-82-8	Cumene	NA	4.8	127-18-4	Tetrachloroethene	<EQL	4.8
124-18-5	n-Decane	NA	4.8	108-88-3	Toluene	<EQL	4.8
124-48-1	Dibromochloromethane	<EQL	4.8	120-82-1	1,2,4-Trichlorobenzene	NA	4.8
106-93-4	1,2-Dibromoethane	NA	4.8	71-55-6	1,1,1-Trichloroethane	<EQL	4.8
95-50-1	1,2-Dichlorobenzene	NA	4.8	79-00-5	1,1,2-Trichloroethane	<EQL	4.8
541-73-1	1,3-Dichlorobenzene	NA	4.8	79-01-6	Trichloroethene	<EQL	4.8
106-46-7	1,4-Dichlorobenzene	NA	4.8	75-69-4	Trichlorofluoromethane	NA	4.8
75-71-8	Dichlorodifluoromethane	NA	4.8	96-63-6	1,2,4-Trimethylbenzene	NA	4.8
75-34-3	1,1-Dichloroethane	<EQL	4.8	108-67-8	1,3,5-Trimethylbenzene	NA	4.8
107-06-2	1,2-Dichloroethane	<EQL	4.8	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.8
75-35-4	1,1-Dichloroethene	<EQL	4.8	1120-21-4	n-Undecane	NA	4.8
156-59-2	cis-1,2-Dichloroethene	<EQL	4.8	75-01-4	Vinyl chloride	<EQL	4.8
156-60-5	trans-1,2-Dichloroethene	<EQL	4.8	1330-20-7	Xylenes (total)	<EQL	4.8
78-87-5	1,2-Dichloropropane	<EQL	4.8	67-64-1	Acetone	<EQL	24
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.8	78-93-3	2-Butanone	<EQL	24
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.8	591-78-6	2-Hexanone	<EQL	24
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.8	108-10-1	4-Methyl-2-pentanone	<EQL	24
112-40-3	n-Dodecane	NA	4.8	108-05-4	Vinyl acetate	<EQL	24

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	90	27 - 175
4-Bromofluorobenzene	97	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW14CO/425 Lab No. 03

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv

INITIAL PRESSURE, TORR 744 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.102

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.1	100-41-4	Ethylbenzene	<EQL	4.1
100-44-7	Benzyl chloride	NA	4.1	142-82-5	n-Heptane	NA	4.1
75-27-4	Bromodichloromethane	<EQL	4.1	87-68-3	Hexachlorobutadiene	NA	4.1
75-25-2	Bromoform	<EQL	4.1	110-54-3	n-Hexane	NA	4.1
74-83-9	Bromomethane	<EQL	4.1	75-09-2	Methylene chloride	<EQL	8.2
75-15-0	Carbon disulfide	<EQL	4.1	98-83-9	α-methyl styrene	NA	4.1
56-23-5	Carbon tetrachloride	<EQL	4.1	111-84-2	n-Nonane	NA	4.1
108-90-7	Chlorobenzene	<EQL	4.1	111-65-9	n-Octane	NA	4.1
75-45-6	Chlorodifluoromethane	NA	4.1	109-66-0	n-Pentane	NA	4.1
75-00-3	Chloroethane	<EQL	4.1	100-42-5	Styrene	<EQL	4.1
67-66-3	Chloroform	<EQL	4.1	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.1
74-87-3	Chloromethane	<EQL	4.1	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.1
98-82-8	Cumene	NA	4.1	127-18-4	Tetrachloroethene	<EQL	4.1
124-18-5	n-Decane	NA	4.1	108-88-3	Toluene	<EQL	4.1
124-48-1	Dibromochloromethane	<EQL	4.1	120-82-1	1,2,4-Trichlorobenzene	NA	4.1
106-93-4	1,2-Dibromoethane	NA	4.1	71-55-6	1,1,1-Trichloroethane	<EQL	4.1
95-50-1	1,2-Dichlorobenzene	NA	4.1	79-00-5	1,1,2-Trichloroethane	<EQL	4.1
541-73-1	1,3-Dichlorobenzene	NA	4.1	79-01-6	Trichloroethene	<EQL	4.1
106-46-7	1,4-Dichlorobenzene	NA	4.1	75-69-4	Trichlorofluoromethane	NA	4.1
75-71-8	Dichlorodifluoromethane	NA	4.1	96-63-6	1,2,4-Trimethylbenzene	NA	4.1
75-34-3	1,1-Dichloroethane	<EQL	4.1	108-67-8	1,3,5-Trimethylbenzene	NA	4.1
107-06-2	1,2-Dichloroethane	<EQL	4.1	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.1
75-35-4	1,1-Dichloroethene	<EQL	4.1	1120-21-4	n-Undecane	NA	4.1
156-59-2	cis-1,2-Dichloroethene	<EQL	4.1	75-01-4	Vinyl chloride	<EQL	4.1
156-60-5	trans-1,2-Dichloroethene	<EQL	4.1	1330-20-7	Xylenes (total)	<EQL	4.1
78-87-5	1,2-Dichloropropane	<EQL	4.1	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.1	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.1	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.1	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.1	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	92	54 - 152
Toluene-d8	95	27 - 175
4-Bromofluorobenzene	104	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister UW15/576 Lab No. 04

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv

INITIAL PRESSURE, TORR 733 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.161

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.2	100-41-4	Ethylbenzene	<EQL	4.2
100-44-7	Benzyl chloride	NA	4.2	142-82-5	n-Heptane	NA	4.2
75-27-4	Bromodichloromethane	<EQL	4.2	87-68-3	Hexachlorobutadiene	NA	4.2
75-25-2	Bromoform	<EQL	4.2	110-54-3	n-Hexane	NA	4.2
74-83-9	Bromomethane	<EQL	4.2	75-09-2	Methylene chloride	<EQL	8.3
75-15-0	Carbon disulfide	<EQL	4.2	98-83-9	α-methyl styrene	NA	4.2
56-23-5	Carbon tetrachloride	<EQL	4.2	111-84-2	n-Nonane	NA	4.2
108-90-7	Chlorobenzene	<EQL	4.2	111-65-9	n-Octane	NA	4.2
75-45-6	Chlorodifluoromethane	NA	4.2	109-66-0	n-Pentane	NA	4.2
75-00-3	Chloroethane	<EQL	4.2	100-42-5	Styrene	<EQL	4.2
67-66-3	Chloroform	<EQL	4.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.2
74-87-3	Chloromethane	<EQL	4.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.2
98-82-8	Cumene	NA	4.2	127-18-4	Tetrachloroethene	<EQL	4.2
124-18-5	n-Decane	NA	4.2	108-88-3	Toluene	<EQL	4.2
124-48-1	Dibromochloromethane	<EQL	4.2	120-82-1	1,2,4-Trichlorobenzene	NA	4.2
106-93-4	1,2-Dibromoethane	NA	4.2	71-55-6	1,1,1-Trichloroethane	<EQL	4.2
95-50-1	1,2-Dichlorobenzene	NA	4.2	79-00-5	1,1,2-Trichloroethane	<EQL	4.2
541-73-1	1,3-Dichlorobenzene	NA	4.2	79-01-6	Trichloroethene	<EQL	4.2
106-46-7	1,4-Dichlorobenzene	NA	4.2	75-69-4	Trichlorofluoromethane	NA	4.2
75-71-8	Dichlorodifluoromethane	NA	4.2	96-63-6	1,2,4-Trimethylbenzene	NA	4.2
75-34-3	1,1-Dichloroethane	<EQL	4.2	108-67-8	1,3,5-Trimethylbenzene	NA	4.2
107-06-2	1,2-Dichloroethane	<EQL	4.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.2
75-35-4	1,1-Dichloroethene	<EQL	4.2	1120-21-4	n-Undecane	NA	4.2
156-59-2	cis-1,2-Dichloroethene	<EQL	4.2	75-01-4	Vinyl chloride	<EQL	4.2
156-60-5	trans-1,2-Dichloroethene	<EQL	4.2	1330-20-7	Xylenes (total)	<EQL	4.2
78-87-5	1,2-Dichloropropane	<EQL	4.2	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.2	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.2	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.2	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.2	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	89	54 - 152
Toluene-d8	95	27 - 175
4-Bromofluorobenzene	100	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister UW8FB/344 Lab No. 05

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/09/96 UNITS ppbv

INITIAL PRESSURE, TORR 36 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 84.778

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	85	100-41-4	Ethylbenzene	<EQL	85
100-44-7	Benzyl chloride	NA	85	142-82-5	n-Heptane	NA	85
75-27-4	Bromodichloromethane	<EQL	85	87-68-3	Hexachlorobutadiene	NA	85
75-25-2	Bromoform	<EQL	85	110-54-3	n-Hexane	NA	85
74-83-9	Bromomethane	<EQL	85	75-09-2	Methylene chloride	<EQL	170
75-15-0	Carbon disulfide	<EQL	85	98-83-9	α-methyl styrene	NA	85
56-23-5	Carbon tetrachloride	<EQL	85	111-84-2	n-Nonane	NA	85
108-90-7	Chlorobenzene	<EQL	85	111-65-9	n-Octane	NA	85
75-45-6	Chlorodifluoromethane	NA	85	109-66-0	n-Pentane	NA	85
75-00-3	Chloroethane	<EQL	85	100-42-5	Styrene	<EQL	85
67-66-3	Chloroform	<EQL	85	630-20-6	1,1,1,2-Tetrachloroethane	NA	85
74-87-3	Chloromethane	<EQL	85	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	85
98-82-8	Cumene	NA	85	127-18-4	Tetrachloroethene	<EQL	85
124-18-5	n-Decane	NA	85	108-88-3	Toluene	<EQL	85
124-48-1	Dibromochloromethane	<EQL	85	120-82-1	1,2,4-Trichlorobenzene	NA	85
106-93-4	1,2-Dibromoethane	NA	85	71-55-6	1,1,1-Trichloroethane	<EQL	85
95-50-1	1,2-Dichlorobenzene	NA	85	79-00-5	1,1,2-Trichloroethane	<EQL	85
541-73-1	1,3-Dichlorobenzene	NA	85	79-01-6	Trichloroethene	<EQL	85
106-46-7	1,4-Dichlorobenzene	NA	85	75-69-4	Trichlorofluoromethane	NA	85
75-71-8	Dichlorodifluoromethane	NA	85	96-63-6	1,2,4-Trimethylbenzene	NA	85
75-34-3	1,1-Dichloroethane	<EQL	85	108-67-8	1,3,5-Trimethylbenzene	NA	85
107-06-2	1,2-Dichloroethane	<EQL	85	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	85
75-35-4	1,1-Dichloroethene	<EQL	85	1120-21-4	n-Undecane	NA	85
156-59-2	cis-1,2-Dichloroethene	<EQL	85	75-01-4	Vinyl chloride	<EQL	85
156-60-5	trans-1,2-Dichloroethene	<EQL	85	1330-20-7	Xylenes (total)	<EQL	85
78-87-5	1,2-Dichloropropane	<EQL	85	67-64-1	Acetone	<EQL	420
10061-01-5	cis-1,3-Dichloropropene	<EQL	85	78-93-3	2-Butanone	<EQL	420
10061-02-6	trans-1,3-Dichloropropene	<EQL	85	591-78-6	2-Hexanone	<EQL	420
76-14-2	1,2-Dichlorotetrafluoroethane	NA	85	108-10-1	4-Methyl-2-pentanone	<EQL	420
112-40-3	n-Dodecane	NA	85	108-05-4	Vinyl acetate	<EQL	420

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	105	54 - 152
Toluene-d8	104	27 - 175
4-Bromofluorobenzene	91	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister UW15FB/264 Lab No. 06

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv

INITIAL PRESSURE, TORR 35 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 85.972

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	86	100-41-4	Ethylbenzene	<EQL	86
100-44-7	Benzyl chloride	NA	86	142-82-5	n-Heptane	NA	86
75-27-4	Bromodichloromethane	<EQL	86	87-68-3	Hexachlorobutadiene	NA	86
75-25-2	Bromoform	<EQL	86	110-54-3	n-Hexane	NA	86
74-83-9	Bromomethane	<EQL	86	75-09-2	Methylene chloride	<EQL	170
75-15-0	Carbon disulfide	<EQL	86	98-83-9	α-methyl styrene	NA	86
56-23-5	Carbon tetrachloride	<EQL	86	111-84-2	n-Nonane	NA	86
108-90-7	Chlorobenzene	<EQL	86	111-65-9	n-Octane	NA	86
75-45-6	Chlorodifluoromethane	NA	86	109-66-0	n-Pentane	NA	86
75-00-3	Chloroethane	<EQL	86	100-42-5	Styrene	<EQL	86
67-66-3	Chloroform	<EQL	86	630-20-6	1,1,1,2-Tetrachloroethane	NA	86
74-87-3	Chloromethane	<EQL	86	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	86
98-82-8	Cumene	NA	86	127-18-4	Tetrachloroethene	<EQL	86
124-18-5	n-Decane	NA	86	108-88-3	Toluene	<EQL	86
124-48-1	Dibromochloromethane	<EQL	86	120-82-1	1,2,4-Trichlorobenzene	NA	86
106-93-4	1,2-Dibromoethane	NA	86	71-55-6	1,1,1-Trichloroethane	<EQL	86
95-50-1	1,2-Dichlorobenzene	NA	86	79-00-5	1,1,2-Trichloroethane	<EQL	86
541-73-1	1,3-Dichlorobenzene	NA	86	79-01-6	Trichloroethene	<EQL	86
106-46-7	1,4-Dichlorobenzene	NA	86	75-69-4	Trichlorofluoromethane	NA	86
75-71-8	Dichlorodifluoromethane	NA	86	96-63-6	1,2,4-Trimethylbenzene	NA	86
75-34-3	1,1-Dichloroethane	<EQL	86	108-67-8	1,3,5-Trimethylbenzene	NA	86
107-06-2	1,2-Dichloroethane	<EQL	86	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	86
75-35-4	1,1-Dichloroethene	<EQL	86	1120-21-4	n-Undecane	NA	86
156-59-2	cis-1,2-Dichloroethene	<EQL	86	75-01-4	Vinyl chloride	<EQL	86
156-60-5	trans-1,2-Dichloroethene	<EQL	86	1330-20-7	Xylenes (total)	<EQL	86
78-87-5	1,2-Dichloropropane	<EQL	86	67-64-1	Acetone	<EQL	430
10061-01-5	cis-1,3-Dichloropropene	<EQL	86	78-93-3	2-Butanone	<EQL	430
10061-02-6	trans-1,3-Dichloropropene	<EQL	86	591-78-6	2-Hexanone	<EQL	430
76-14-2	1,2-Dichlorotetrafluoroethane	NA	86	108-10-1	4-Methyl-2-pentanone	<EQL	430
112-40-3	n-Dodecane	NA	86	108-05-4	Vinyl acetate	<EQL	430

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	108	54 - 152
Toluene-d8	102	27 - 175
4-Bromofluorobenzene	86	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister UW16/351 Lab No. 07

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv

INITIAL PRESSURE, TORR 731 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.175

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.2	100-41-4	Ethylbenzene	<EQL	4.2
100-44-7	Benzyl chloride	NA	4.2	142-82-5	n-Heptane	NA	4.2
75-27-4	Bromodichloromethane	<EQL	4.2	87-68-3	Hexachlorobutadiene	NA	4.2
75-25-2	Bromoform	<EQL	4.2	110-54-3	n-Hexane	NA	4.2
74-83-9	Bromomethane	<EQL	4.2	75-09-2	Methylene chloride	<EQL	8.4
75-15-0	Carbon disulfide	<EQL	4.2	98-83-9	α-methyl styrene	NA	4.2
56-23-5	Carbon tetrachloride	<EQL	4.2	111-84-2	n-Nonane	NA	4.2
108-90-7	Chlorobenzene	<EQL	4.2	111-65-9	n-Octane	NA	4.2
75-45-6	Chlorodifluoromethane	NA	4.2	109-66-0	n-Pentane	NA	4.2
75-00-3	Chloroethane	<EQL	4.2	100-42-5	Styrene	<EQL	4.2
67-66-3	Chloroform	<EQL	4.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.2
74-87-3	Chloromethane	<EQL	4.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.2
98-82-8	Cumene	NA	4.2	127-18-4	Tetrachloroethene	<EQL	4.2
124-18-5	n-Decane	NA	4.2	108-88-3	Toluene	<EQL	4.2
124-48-1	Dibromochloromethane	<EQL	4.2	120-82-1	1,2,4-Trichlorobenzene	NA	4.2
106-93-4	1,2-Dibromoethane	NA	4.2	71-55-6	1,1,1-Trichloroethane	<EQL	4.2
95-50-1	1,2-Dichlorobenzene	NA	4.2	79-00-5	1,1,2-Trichloroethane	<EQL	4.2
541-73-1	1,3-Dichlorobenzene	NA	4.2	79-01-6	Trichloroethene	<EQL	4.2
106-46-7	1,4-Dichlorobenzene	NA	4.2	75-69-4	Trichlorofluoromethane	NA	4.2
75-71-8	Dichlorodifluoromethane	NA	4.2	96-63-6	1,2,4-Trimethylbenzene	NA	4.2
75-34-3	1,1-Dichloroethane	<EQL	4.2	108-67-8	1,3,5-Trimethylbenzene	NA	4.2
107-06-2	1,2-Dichloroethane	<EQL	4.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.2
75-35-4	1,1-Dichloroethene	<EQL	4.2	1120-21-4	n-Undecane	NA	4.2
156-59-2	cis-1,2-Dichloroethene	<EQL	4.2	75-01-4	Vinyl chloride	<EQL	4.2
156-60-5	trans-1,2-Dichloroethene	<EQL	4.2	1330-20-7	Xylenes (total)	<EQL	4.2
78-87-5	1,2-Dichloropropane	<EQL	4.2	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.2	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.2	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.2	108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA	4.2	108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	89	54 - 152
Toluene-d8	94	27 - 175
4-Bromofluorobenzene	101	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW17/129 Lab No. 08

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv

INITIAL PRESSURE, TORR 642 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.754

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.8	100-41-4	Ethylbenzene	<EQL	4.8
100-44-7	Benzyl chloride	NA	4.8	142-82-5	n-Heptane	NA	4.8
75-27-4	Bromodichloromethane	<EQL	4.8	87-68-3	Hexachlorobutadiene	NA	4.8
75-25-2	Bromoform	<EQL	4.8	110-54-3	n-Hexane	NA	4.8
74-83-9	Bromomethane	<EQL	4.8	75-09-2	Methylene chloride	<EQL	9.5
75-15-0	Carbon disulfide	<EQL	4.8	98-83-9	α-methyl styrene	NA	4.8
56-23-5	Carbon tetrachloride	<EQL	4.8	111-84-2	n-Nonane	NA	4.8
108-90-7	Chlorobenzene	<EQL	4.8	111-65-9	n-Octane	NA	4.8
75-45-6	Chlorodifluoromethane	NA	4.8	109-66-0	n-Pentane	NA	4.8
75-00-3	Chloroethane	<EQL	4.8	100-42-5	Styrene	<EQL	4.8
67-66-3	Chloroform	<EQL	4.8	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.8
74-87-3	Chloromethane	<EQL	4.8	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.8
98-82-8	Cumene	NA	4.8	127-18-4	Tetrachloroethene	<EQL	4.8
124-18-5	n-Decane	NA	4.8	108-88-3	Toluene	<EQL	4.8
124-48-1	Dibromochloromethane	<EQL	4.8	120-82-1	1,2,4-Trichlorobenzene	NA	4.8
106-93-4	1,2-Dibromoethane	NA	4.8	71-55-6	1,1,1-Trichloroethane	<EQL	4.8
95-50-1	1,2-Dichlorobenzene	NA	4.8	79-00-5	1,1,2-Trichloroethane	<EQL	4.8
541-73-1	1,3-Dichlorobenzene	NA	4.8	79-01-6	Trichloroethene	<EQL	4.8
106-46-7	1,4-Dichlorobenzene	NA	4.8	75-69-4	Trichlorofluoromethane	NA	4.8
75-71-8	Dichlorodifluoromethane	NA	4.8	96-63-6	1,2,4-Trimethylbenzene	NA	4.8
75-34-3	1,1-Dichloroethane	<EQL	4.8	108-67-8	1,3,5-Trimethylbenzene	NA	4.8
107-06-2	1,2-Dichloroethane	<EQL	4.8	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.8
75-35-4	1,1-Dichloroethene	<EQL	4.8	1120-21-4	n-Undecane	NA	4.8
156-59-2	cis-1,2-Dichloroethene	<EQL	4.8	75-01-4	Vinyl chloride	<EQL	4.8
156-60-5	trans-1,2-Dichloroethene	<EQL	4.8	1330-20-7	Xylenes (total)	<EQL	4.8
78-87-5	1,2-Dichloropropane	<EQL	4.8	67-64-1	Acetone	<EQL	24
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.8	78-93-3	2-Butanone	<EQL	24
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.8	591-78-6	2-Hexanone	<EQL	24
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.8	108-10-1	4-Methyl-2-pentanone	<EQL	24
112-40-3	n-Dodecane	NA	4.8	108-05-4	Vinyl acetate	<EQL	24

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	94	54 - 152
Toluene-d8	85	27 - 175
4-Bromofluorobenzene	109	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW18/143 Lab No. 09

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv

INITIAL PRESSURE, TORR 604 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 5.053

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	5.1	100-41-4	Ethylbenzene	<EQL	5.1
100-44-7	Benzyl chloride	NA	5.1	142-82-5	n-Heptane	NA	5.1
75-27-4	Bromodichloromethane	<EQL	5.1	87-68-3	Hexachlorobutadiene	NA	5.1
75-25-2	Bromoform	<EQL	5.1	110-54-3	n-Hexane	NA	5.1
74-83-9	Bromomethane	<EQL	5.1	75-09-2	Methylene chloride	<EQL	10
75-15-0	Carbon disulfide	<EQL	5.1	98-83-9	α-methyl styrene	NA	5.1
56-23-5	Carbon tetrachloride	<EQL	5.1	111-84-2	n-Nonane	NA	5.1
108-90-7	Chlorobenzene	<EQL	5.1	111-65-9	n-Octane	NA	5.1
75-45-6	Chlorodifluoromethane	NA	5.1	109-66-0	n-Pentane	NA	5.1
75-00-3	Chloroethane	<EQL	5.1	100-42-5	Styrene	<EQL	5.1
67-66-3	Chloroform	<EQL	5.1	630-20-6	1,1,1,2-Tetrachloroethane	NA	5.1
74-87-3	Chloromethane	<EQL	5.1	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	5.1
98-82-8	Cumene	NA	5.1	127-18-4	Tetrachloroethene	<EQL	5.1
124-18-5	n-Decane	NA	5.1	108-88-3	Toluene	<EQL	5.1
124-48-1	Dibromochloromethane	<EQL	5.1	120-82-1	1,2,4-Trichlorobenzene	NA	5.1
106-93-4	1,2-Dibromoethane	NA	5.1	71-55-6	1,1,1-Trichloroethane	<EQL	5.1
95-50-1	1,2-Dichlorobenzene	NA	5.1	79-00-5	1,1,2-Trichloroethane	<EQL	5.1
541-73-1	1,3-Dichlorobenzene	NA	5.1	79-01-6	Trichloroethene	<EQL	5.1
106-46-7	1,4-Dichlorobenzene	NA	5.1	75-69-4	Trichlorofluoromethane	NA	5.1
75-71-8	Dichlorodifluoromethane	NA	5.1	96-63-6	1,2,4-Trimethylbenzene	NA	5.1
75-34-3	1,1-Dichloroethane	<EQL	5.1	108-67-8	1,3,5-Trimethylbenzene	NA	5.1
107-06-2	1,2-Dichloroethane	<EQL	5.1	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	5.1
75-35-4	1,1-Dichloroethene	<EQL	5.1	1120-21-4	n-Undecane	NA	5.1
156-59-2	cis-1,2-Dichloroethene	<EQL	5.1	75-01-4	Vinyl chloride	<EQL	5.1
156-60-5	trans-1,2-Dichloroethene	<EQL	5.1	1330-20-7	Xylenes (total)	<EQL	5.1
78-87-5	1,2-Dichloropropane	<EQL	5.1	67-64-1	Acetone	<EQL	25
10061-01-5	cis-1,3-Dichloropropene	<EQL	5.1	78-93-3	2-Butanone	<EQL	25
10061-02-6	trans-1,3-Dichloropropene	<EQL	5.1	591-78-6	2-Hexanone	<EQL	25
76-14-2	1,2-Dichlorotetrafluoroethane	NA	5.1	108-10-1	4-Methyl-2-pentanone	<EQL	25
112-40-3	n-Dodecane	NA	5.1	108-05-4	Vinyl acetate	<EQL	25

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	86	54 - 152
Toluene-d8	88	27 - 175
4-Bromofluorobenzene	95	53 - 172

Work Order # 96-01-007 Ross Analytical Services, Inc Reported: 01/15/96

Sample Description Canister DW18CO/144 Lab No. 10

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv

INITIAL PRESSURE, TORR 745 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.097

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.1	100-41-4	Ethylbenzene	<EQL	4.1
100-44-7	Benzyl chloride	NA	4.1	142-82-5	n-Heptane	NA	4.1
75-27-4	Bromodichloromethane	<EQL	4.1	87-68-3	Hexachlorobutadiene	NA	4.1
75-25-2	Bromoform	<EQL	4.1	110-54-3	n-Hexane	NA	4.1
74-83-9	Bromomethane	<EQL	4.1	75-09-2	Methylene chloride	<EQL	8.2
75-15-0	Carbon disulfide	<EQL	4.1	98-83-9	α-methyl styrene	NA	4.1
56-23-5	Carbon tetrachloride	<EQL	4.1	111-84-2	n-Nonane	NA	4.1
108-90-7	Chlorobenzene	<EQL	4.1	111-65-9	n-Octane	NA	4.1
75-45-6	Chlorodifluoromethane	NA	4.1	109-66-0	n-Pentane	NA	4.1
75-00-3	Chloroethane	<EQL	4.1	100-42-5	Styrene	<EQL	4.1
67-66-3	Chloroform	<EQL	4.1	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.1
74-87-3	Chloromethane	<EQL	4.1	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.1
98-82-8	Cumene	NA	4.1	127-18-4	Tetrachloroethene	<EQL	4.1
124-18-5	n-Decane	NA	4.1	108-88-3	Toluene	<EQL	4.1
124-48-1	Dibromochloromethane	<EQL	4.1	120-82-1	1,2,4-Trichlorobenzene	NA	4.1
106-93-4	1,2-Dibromoethane	NA	4.1	71-55-6	1,1,1-Trichloroethane	<EQL	4.1
95-50-1	1,2-Dichlorobenzene	NA	4.1	79-00-5	1,1,2-Trichloroethane	<EQL	4.1
541-73-1	1,3-Dichlorobenzene	NA	4.1	79-01-6	Trichloroethene	<EQL	4.1
106-46-7	1,4-Dichlorobenzene	NA	4.1	75-69-4	Trichlorofluoromethane	NA	4.1
75-71-8	Dichlorodifluoromethane	NA	4.1	96-63-6	1,2,4-Trimethylbenzene	NA	4.1
75-34-3	1,1-Dichloroethane	<EQL	4.1	108-67-8	1,3,5-Trimethylbenzene	NA	4.1
107-06-2	1,2-Dichloroethane	<EQL	4.1	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.1
75-35-4	1,1-Dichloroethene	<EQL	4.1	1120-21-4	n-Undecane	NA	4.1
156-59-2	cis-1,2-Dichloroethene	<EQL	4.1	75-01-4	Vinyl chloride	<EQL	4.1
156-60-5	trans-1,2-Dichloroethene	<EQL	4.1	1330-20-7	Xylenes (total)	<EQL	4.1
78-87-5	1,2-Dichloropropane	<EQL	4.1	67-64-1	Acetone	<EQL	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.1	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.1	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.1	108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA	4.1	108-05-4	Vinyl acetate	<EQL	20

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	99	27 - 175
4-Bromofluorobenzene	98	53 - 172

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-01A						
CLIENT ID:	DW13, #286						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.663	0.0	9.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.663	0.0	11.9	ND
74-83-9	Bromomethane	94.94	1.0	4.663	0.0	18.1	ND
75-00-3	Chloroethane	64.51	1.0	4.663	0.0	12.3	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.663	0.0	18.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.663	0.0	14.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.663	0.0	18.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.663	0.0	18.9	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.663	0.0	18.5	ND
67-66-3	Chloroform	119.38	1.0	4.663	0.0	22.8	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.663	0.0	25.4	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.663	0.0	29.3	ND
71-43-2	Benzene	78.11	1.0	4.663	0.0	14.9	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.663	0.0	18.9	ND
79-01-6	Trichloroethene	131.39	1.0	4.663	0.0	25.0	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.663	0.0	21.5	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.663	0.0	31.2	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.663	0.0	21.2	ND
108-88-3	Toluene	92.14	1.0	4.663	0.0	17.6	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.663	0.0	21.2	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.663	0.0	25.4	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.663	0.0	31.6	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.663	0.0	39.7	ND
108-90-7	Chlorobenzene	112.56	1.0	4.663	0.0	21.5	ND
100-41-4	Ethylbenzene	106.17	1.0	4.663	0.0	20.2	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.663	0.0	20.2	ND
100-42-5	Styrene	104.15	1.0	4.663	0.0	19.9	ND
75-25-2	Bromoform	252.73	1.0	4.663	0.0	48.2	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.663	0.0	32.0	ND
75-09-2	Methylene Chloride	84.93	2.0	4.663	0.0	32.4	ND
67-64-1	Acetone	58.08	5.0	4.663	0.0	55.4	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.663	0.0	82.1	ND
78-93-3	2-Butanone	72.11	5.0	4.663	0.0	68.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.663	0.0	95.5	ND
591-78-6	2-Hexanone	100.16	5.0	4.663	0.0	95.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-02A						
CLIENT ID:	DW14, #158						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.841	0.0	10.0	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.841	0.0	12.4	ND
74-83-9	Bromomethane	94.94	1.0	4.841	0.0	18.8	ND
75-00-3	Chloroethane	64.51	1.0	4.841	0.0	12.8	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.841	0.0	19.2	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.841	0.0	15.1	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.841	0.0	19.2	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.841	0.0	19.6	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.841	0.0	19.2	ND
67-66-3	Chloroform	119.38	1.0	4.841	0.0	23.6	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.841	0.0	26.4	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.841	0.0	30.4	ND
71-43-2	Benzene	78.11	1.0	4.841	0.0	15.5	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.841	0.0	19.6	ND
79-01-6	Trichloroethene	131.39	1.0	4.841	0.0	26.0	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.841	0.0	22.4	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.841	0.0	32.4	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.841	0.0	22.0	ND
108-88-3	Toluene	92.14	1.0	4.841	0.0	18.2	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.841	0.0	22.0	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.841	0.0	26.4	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.841	0.0	32.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.841	0.0	41.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.841	0.0	22.3	ND
100-41-4	Ethylbenzene	106.17	1.0	4.841	0.0	21.0	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.841	0.0	21.0	ND
100-42-5	Styrene	104.15	1.0	4.841	0.0	20.6	ND
75-25-2	Bromoform	252.73	1.0	4.841	0.0	50.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.841	0.0	33.2	ND
75-09-2	Methylene Chloride	84.93	2.0	4.841	0.0	33.6	ND
67-64-1	Acetone	58.08	5.0	4.841	0.0	57.5	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.841	0.0	85.2	ND
78-93-3	2-Butanone	72.11	5.0	4.841	0.0	71.4	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.841	0.0	99.1	ND
591-78-6	2-Hexanone	100.16	5.0	4.841	0.0	99.1	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-03A						
CLIENT ID:	DW14CO, #425						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.102	0.0	8.5	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.102	0.0	10.5	ND
74-83-9	Bromomethane	94.94	1.0	4.102	0.0	15.9	ND
75-00-3	Chloroethane	64.51	1.0	4.102	0.0	10.8	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.102	0.0	16.3	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.102	0.0	12.8	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.102	0.0	16.3	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.102	0.0	16.6	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.102	0.0	16.3	ND
67-66-3	Chloroform	119.38	1.0	4.102	0.0	20.0	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.102	0.0	22.4	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.102	0.0	25.8	ND
71-43-2	Benzene	78.11	1.0	4.102	0.0	13.1	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.102	0.0	16.6	ND
79-01-6	Trichloroethene	131.39	1.0	4.102	0.0	22.0	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.102	0.0	18.9	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.102	0.0	27.5	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.102	0.0	18.6	ND
108-88-3	Toluene	92.14	1.0	4.102	0.0	15.5	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.102	0.0	18.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.102	0.0	22.4	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.102	0.0	27.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.102	0.0	34.9	ND
108-90-7	Chlorobenzene	112.56	1.0	4.102	0.0	18.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.102	0.0	17.8	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.102	0.0	17.8	ND
100-42-5	Styrene	104.15	1.0	4.102	0.0	17.5	ND
75-25-2	Bromoform	252.73	1.0	4.102	0.0	42.4	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.102	0.0	28.1	ND
75-09-2	Methylene Chloride	84.93	2.0	4.102	0.0	28.5	ND
67-64-1	Acetone	58.08	5.0	4.102	0.0	48.7	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.102	0.0	72.2	ND
78-93-3	2-Butanone	72.11	5.0	4.102	0.0	60.5	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.102	0.0	84.0	ND
591-78-6	2-Hexanone	100.16	5.0	4.102	0.0	84.0	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-04A						
CLIENT ID:	UW15, #576						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.161	0.0	8.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.161	0.0	10.6	ND
74-83-9	Bromomethane	94.94	1.0	4.161	0.0	16.2	ND
75-00-3	Chloroethane	64.51	1.0	4.161	0.0	11.0	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.161	0.0	16.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.161	0.0	13.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.161	0.0	16.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.161	0.0	16.8	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.161	0.0	16.5	ND
67-66-3	Chloroform	119.38	1.0	4.161	0.0	20.3	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.161	0.0	22.7	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.161	0.0	26.2	ND
71-43-2	Benzene	78.11	1.0	4.161	0.0	13.3	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.161	0.0	16.8	ND
79-01-6	Trichloroethene	131.39	1.0	4.161	0.0	22.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.161	0.0	19.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.161	0.0	27.9	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.161	0.0	18.9	ND
108-88-3	Toluene	92.14	1.0	4.161	0.0	15.7	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.161	0.0	18.9	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.161	0.0	22.7	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.161	0.0	28.2	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.161	0.0	35.4	ND
108-90-7	Chlorobenzene	112.56	1.0	4.161	0.0	19.1	ND
100-41-4	Ethylbenzene	106.17	1.0	4.161	0.0	18.1	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.161	0.0	18.1	ND
100-42-5	Styrene	104.15	1.0	4.161	0.0	17.7	ND
75-25-2	Bromoform	252.73	1.0	4.161	0.0	43.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.161	0.0	28.6	ND
75-09-2	Methylene Chloride	84.93	2.0	4.161	0.0	28.9	ND
67-64-1	Acetone	58.08	5.0	4.161	0.0	49.4	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.161	0.0	73.2	ND
78-93-3	2-Butanone	72.11	5.0	4.161	0.0	61.3	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.161	0.0	85.2	ND
591-78-6	2-Hexanone	100.16	5.0	4.161	0.0	85.2	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-05A						
CLIENT ID:	UW8FB, #344						
CAS NUMBER	**ANALYTE**	**FW (G/MOL)**	**EQL PPB**	**DIL. FACT.**	**PPB(V/V)**	**EQL UG/M3**	**RESULT UG/M3**
74-87-3	Chloromethane	50.49	1.0	84.778	0.0	175.0	ND
75-01-4	Vinyl Chloride	62.5	1.0	84.778	0.0	216.6	ND
74-83-9	Bromomethane	94.94	1.0	84.778	0.0	329.1	ND
75-00-3	Chloroethane	64.51	1.0	84.778	0.0	223.6	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	84.778	0.0	336.0	ND
75-15-0	Carbon Disulfide	76.13	1.0	84.778	0.0	263.9	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	84.778	0.0	336.0	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	84.778	0.0	343.0	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	84.778	0.0	336.0	ND
67-66-3	Chloroform	119.38	1.0	84.778	0.0	413.8	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	84.778	0.0	462.4	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	84.778	0.0	533.1	ND
71-43-2	Benzene	78.11	1.0	84.778	0.0	270.7	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	84.778	0.0	343.0	ND
79-01-6	Trichloroethene	131.39	1.0	84.778	0.0	455.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	84.778	0.0	391.6	ND
75-27-4	Bromodichloromethane	163.83	1.0	84.778	0.0	567.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	84.778	0.0	384.6	ND
108-88-3	Toluene	92.14	1.0	84.778	0.0	319.4	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	84.778	0.0	384.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	84.778	0.0	462.4	ND
127-18-4	Tetrachloroethene	165.83	1.0	84.778	0.0	574.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	84.778	0.0	721.9	ND
108-90-7	Chlorobenzene	112.56	1.0	84.778	0.0	390.1	ND
100-41-4	Ethylbenzene	106.17	1.0	84.778	0.0	368.0	ND
1330-20-7	Xylenes (total)	106.17	1.0	84.778	0.0	368.0	ND
100-42-5	Styrene	104.15	1.0	84.778	0.0	361.0	ND
75-25-2	Bromoform	252.73	1.0	84.778	0.0	876.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	84.778	0.0	581.8	ND
75-09-2	Methylene Chloride	84.93	2.0	84.778	0.0	588.7	ND
67-64-1	Acetone	58.08	5.0	84.778	0.0	1006.5	ND
108-05-4	Vinyl Acetate	86.09	5.0	84.778	0.0	1491.9	ND
78-93-3	2-Butanone	72.11	5.0	84.778	0.0	1249.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	84.778	0.0	1735.8	ND
591-78-6	2-Hexanone	100.16	5.0	84.778	0.0	1735.8	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-06A						
CLIENT ID:	UW15FB, #264						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	85.972	0.0	177.5	ND
75-01-4	Vinyl Chloride	62.5	1.0	85.972	0.0	219.7	ND
74-83-9	Bromomethane	94.94	1.0	85.972	0.0	333.7	ND
75-00-3	Chloroethane	64.51	1.0	85.972	0.0	226.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	85.972	0.0	340.7	ND
75-15-0	Carbon Disulfide	76.13	1.0	85.972	0.0	267.6	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	85.972	0.0	340.7	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	85.972	0.0	347.8	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	85.972	0.0	340.7	ND
67-66-3	Chloroform	119.38	1.0	85.972	0.0	419.6	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	85.972	0.0	468.9	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	85.972	0.0	540.6	ND
71-43-2	Benzene	78.11	1.0	85.972	0.0	274.5	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	85.972	0.0	347.8	ND
79-01-6	Trichloroethene	131.39	1.0	85.972	0.0	461.8	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	85.972	0.0	397.1	ND
75-27-4	Bromodichloromethane	163.83	1.0	85.972	0.0	575.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	85.972	0.0	390.0	ND
108-88-3	Toluene	92.14	1.0	85.972	0.0	323.9	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	85.972	0.0	390.0	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	85.972	0.0	468.9	ND
127-18-4	Tetrachloroethene	165.83	1.0	85.972	0.0	582.9	ND
124-48-1	Dibromochloromethane	208.28	1.0	85.972	0.0	732.1	ND
108-90-7	Chlorobenzene	112.56	1.0	85.972	0.0	395.6	ND
100-41-4	Ethylbenzene	106.17	1.0	85.972	0.0	373.2	ND
1330-20-7	Xylenes (total)	106.17	1.0	85.972	0.0	373.2	ND
100-42-5	Styrene	104.15	1.0	85.972	0.0	366.1	ND
75-25-2	Bromoform	252.73	1.0	85.972	0.0	888.3	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	85.972	0.0	590.0	ND
75-09-2	Methylene Chloride	84.93	2.0	85.972	0.0	597.0	ND
67-64-1	Acetone	58.08	5.0	85.972	0.0	1020.7	ND
108-05-4	Vinyl Acetate	86.09	5.0	85.972	0.0	1512.9	ND
78-93-3	2-Butanone	72.11	5.0	85.972	0.0	1267.3	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	85.972	0.0	1760.2	ND
591-78-6	2-Hexanone	100.16	5.0	85.972	0.0	1760.2	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-07A						
CLIENT ID:	UW16, #351						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.175	0.0	8.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.175	0.0	10.7	ND
74-83-9	Bromomethane	94.94	1.0	4.175	0.0	16.2	ND
75-00-3	Chloroethane	64.51	1.0	4.175	0.0	11.0	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.175	0.0	16.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.175	0.0	13.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.175	0.0	16.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.175	0.0	16.9	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.175	0.0	16.5	ND
67-66-3	Chloroform	119.38	1.0	4.175	0.0	20.4	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.175	0.0	22.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.175	0.0	26.3	ND
71-43-2	Benzene	78.11	1.0	4.175	0.0	13.3	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.175	0.0	16.9	ND
79-01-6	Trichloroethene	131.39	1.0	4.175	0.0	22.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.175	0.0	19.3	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.175	0.0	28.0	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.175	0.0	18.9	ND
108-88-3	Toluene	92.14	1.0	4.175	0.0	15.7	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.175	0.0	18.9	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.175	0.0	22.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.175	0.0	28.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.175	0.0	35.6	ND
108-90-7	Chlorobenzene	112.56	1.0	4.175	0.0	19.2	ND
100-41-4	Ethylbenzene	106.17	1.0	4.175	0.0	18.1	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.175	0.0	18.1	ND
100-42-5	Styrene	104.15	1.0	4.175	0.0	17.8	ND
75-25-2	Bromoform	252.73	1.0	4.175	0.0	43.1	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.175	0.0	28.6	ND
75-09-2	Methylene Chloride	84.93	2.0	4.175	0.0	29.0	ND
67-64-1	Acetone	58.08	5.0	4.175	0.0	49.6	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.175	0.0	73.5	ND
78-93-3	2-Butanone	72.11	5.0	4.175	0.0	61.5	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.175	0.0	85.5	ND
591-78-6	2-Hexanone	100.16	5.0	4.175	0.0	85.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-08A						
CLIENT ID:	UW17, #129						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.754	0.0	9.8	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.754	0.0	12.1	ND
74-83-9	Bromomethane	94.94	1.0	4.754	0.0	18.5	ND
75-00-3	Chloroethane	64.51	1.0	4.754	0.0	12.5	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.754	0.0	18.8	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.754	0.0	14.8	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.754	0.0	18.8	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.754	0.0	19.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.754	0.0	18.8	ND
67-66-3	Chloroform	119.38	1.0	4.754	0.0	23.2	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.754	0.0	25.9	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.754	0.0	29.9	ND
71-43-2	Benzene	78.11	1.0	4.754	0.0	15.2	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.754	0.0	19.2	ND
79-01-6	Trichloroethene	131.39	1.0	4.754	0.0	25.5	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.754	0.0	22.0	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.754	0.0	31.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.754	0.0	21.6	ND
108-88-3	Toluene	92.14	1.0	4.754	0.0	17.9	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.754	0.0	21.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.754	0.0	25.9	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.754	0.0	32.2	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.754	0.0	40.5	ND
108-90-7	Chlorobenzene	112.56	1.0	4.754	0.0	21.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.754	0.0	20.6	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.754	0.0	20.6	ND
100-42-5	Styrene	104.15	1.0	4.754	0.0	20.2	ND
75-25-2	Bromoform	252.73	1.0	4.754	0.0	49.1	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.754	0.0	32.6	ND
75-09-2	Methylene Chloride	84.93	2.0	4.754	0.0	33.0	ND
67-64-1	Acetone	58.08	5.0	4.754	0.0	56.4	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.754	0.0	83.7	ND
78-93-3	2-Butanone	72.11	5.0	4.754	0.0	70.1	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.754	0.0	97.3	ND
591-78-6	2-Hexanone	100.16	5.0	4.754	0.0	97.3	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-09A						
CLIENT ID:	DW18, #143						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	5.053	0.0	10.4	ND
75-01-4	Vinyl Chloride	62.5	1.0	5.053	0.0	12.9	ND
74-83-9	Bromomethane	94.94	1.0	5.053	0.0	19.6	ND
75-00-3	Chloroethane	64.51	1.0	5.053	0.0	13.3	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	5.053	0.0	20.0	ND
75-15-0	Carbon Disulfide	76.13	1.0	5.053	0.0	15.7	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	5.053	0.0	20.0	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	5.053	0.0	20.4	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	5.053	0.0	20.0	ND
67-66-3	Chloroform	119.38	1.0	5.053	0.0	24.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	5.053	0.0	27.6	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	5.053	0.0	31.8	ND
71-43-2	Benzene	78.11	1.0	5.053	0.0	16.1	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	5.053	0.0	20.4	ND
79-01-6	Trichloroethene	131.39	1.0	5.053	0.0	27.1	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	5.053	0.0	23.3	ND
75-27-4	Bromodichloromethane	163.83	1.0	5.053	0.0	33.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	5.053	0.0	22.9	ND
108-88-3	Toluene	92.14	1.0	5.053	0.0	19.0	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	5.053	0.0	22.9	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	5.053	0.0	27.6	ND
127-18-4	Tetrachloroethene	165.83	1.0	5.053	0.0	34.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	5.053	0.0	43.0	ND
108-90-7	Chlorobenzene	112.56	1.0	5.053	0.0	23.3	ND
100-41-4	Ethylbenzene	106.17	1.0	5.053	0.0	21.9	ND
1330-20-7	Xylenes (total)	106.17	1.0	5.053	0.0	21.9	ND
100-42-5	Styrene	104.15	1.0	5.053	0.0	21.5	ND
75-25-2	Bromoform	252.73	1.0	5.053	0.0	52.2	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	5.053	0.0	34.7	ND
75-09-2	Methylene Chloride	84.93	2.0	5.053	0.0	35.1	ND
67-64-1	Acetone	58.08	5.0	5.053	0.0	60.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	5.053	0.0	88.9	ND
78-93-3	2-Butanone	72.11	5.0	5.053	0.0	74.5	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	5.053	0.0	103.5	ND
591-78-6	2-Hexanone	100.16	5.0	5.053	0.0	103.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-007-10A						
CLIENT ID:	DW18CO, #144						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.097	0.0	8.5	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.097	0.0	10.5	ND
74-83-9	Bromomethane	94.94	1.0	4.097	0.0	15.9	ND
75-00-3	Chloroethane	64.51	1.0	4.097	0.0	10.8	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.097	0.0	16.2	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.097	0.0	12.8	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.097	0.0	16.2	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.097	0.0	16.6	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.097	0.0	16.2	ND
67-66-3	Chloroform	119.38	1.0	4.097	0.0	20.0	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.097	0.0	22.3	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.097	0.0	25.8	ND
71-43-2	Benzene	78.11	1.0	4.097	0.0	13.1	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.097	0.0	16.6	ND
79-01-6	Trichloroethene	131.39	1.0	4.097	0.0	22.0	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.097	0.0	18.9	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.097	0.0	27.4	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.097	0.0	18.6	ND
108-88-3	Toluene	92.14	1.0	4.097	0.0	15.4	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.097	0.0	18.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.097	0.0	22.3	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.097	0.0	27.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.097	0.0	34.9	ND
108-90-7	Chlorobenzene	112.56	1.0	4.097	0.0	18.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.097	0.0	17.8	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.097	0.0	17.8	ND
100-42-5	Styrene	104.15	1.0	4.097	0.0	17.4	ND
75-25-2	Bromoform	252.73	1.0	4.097	0.0	42.3	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.097	0.0	28.1	ND
75-09-2	Methylene Chloride	84.93	2.0	4.097	0.0	28.5	ND
67-64-1	Acetone	58.08	5.0	4.097	0.0	48.6	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.097	0.0	72.1	ND
78-93-3	2-Butanone	72.11	5.0	4.097	0.0	60.4	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.097	0.0	83.9	ND
591-78-6	2-Hexanone	100.16	5.0	4.097	0.0	83.9	ND

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MDNR-WICK

SAMPLERS (SIGNATURE): ANDRE CASAVANT [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs TO-14					START VACUUM	END VACUUM					REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
DW13	12-29	0813-	✓		5' NW of grid #398	1						28.0	5.0					AIR CAN # 00286
DW14		0828-	✓		5' W of grid #357	1						28.0	6.0					AIR CAN # 00158
DW14CO		0828-	✓		5' W of grid #357	1						28.0	2.0					AIR CAN # 00425
~~UW15~~		0843-1643	✓		wick school ballfield, 50' NE of 1st base	1						30.0	3.0					AIR CAN # 00576
UW8FB	12-27	1906	NA			1												AIR CAN # 00344
UW15FB	12-29	1645	NA			1												AIR CAN # 00264

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	12-29 ~~160~~ 1600			1/2/96 1600	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

OH-62

ABB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MDNR-WICK

SAMPLERS (SIGNATURE): ANDRÉ CASAVANT

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS TO-14						START VACUUM	END VACUUM				REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
UW16	12-30	0740-	✓		50'NE of 1st BASE @ WICK SCHOOL	1	✓						30.0	3.0				AIR CAN #: 351
DW17		0758-	✓		GRID #358	1	✓						27.0	5.0				AIR CAN #: 129
DW18		0811-	✓		GRID #232	1	✓						28.0	6.0				AIR CAN #: 143
DW18CO		0811-	✓		GRID #232	1	✓						28.0	2.0				AIR CAN #: 144

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	12-30 16:30			1/3/96 1000	[signature]
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-62

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

ARC Consulting
94 Glenwood Ave.
Portland, ME 04103

Attn: Dan Argentati/Andre Cosavant

Work Order #: 96-01-019
Client Code: ABB_ENVIRO
Report Date: 01/19/96
Work ID: Canisters for TO-14
Date Received: 01/05/96

Purchase Order: 9252-01

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Canister UW25/265	02	Canister DW26/623
03	Canister DW27/341	04	Canister DW27CO/320

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

Certificate approved by
Peggy J. Schuler

TEST METHODOLOGIES

Volatile organics were determined by aliquoting from a SUMMA-polished canister or other vessel followed by gas chromatography/mass spectrometry as in EPA Method TO-14.

Work Order # 96-01-019 **Ross Analytical Services, Inc** **Reported: 01/19/96**

Sample Description **Canister UW25/265** Lab No. 01
Test Description **Canisters or bags by TO-14** Test Code TO_14

DATE RUN 01/12/96 UNITS ppbv
INITIAL PRESSURE, TORR 762 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.003

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.0	100-41-4	Ethylbenzene	<EQL	4.0
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.0	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.0	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.0	75-09-2	Methylene chloride	<EQL	8.0
75-15-0	Carbon disulfide	<EQL	4.0	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.0	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.0	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.0	100-42-5	Styrene	<EQL	4.0
67-66-3	Chloroform	<EQL	4.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	4.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.0
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.0
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.0
124-48-1	Dibromochloromethane	<EQL	4.0	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.0
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.0
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.0
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.0	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.0	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.0	75-01-4	Vinyl chloride	<EQL	4.0
156-60-5	trans-1,2-Dichloroethene	<EQL	4.0	1330-20-7	Xylenes (total)	<EQL	4.0
78-87-5	1,2-Dichloropropane	<EQL	4.0	67-64-1	Acetone	<EQL	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.0	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.0	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS	
1,2-Dichloroethane-d4	88	54 -	152
Toluene-d8	102	27 -	175
4-Bromofluorobenzene	103	53 -	172

Work Order # 96-01-019 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW26/623 Lab No. 02

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/12/96 UNITS ppbv

INITIAL PRESSURE, TORR 671 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.545

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.5	100-41-4	Ethylbenzene	5.4	4.5
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.5	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.5	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.5	75-09-2	Methylene chloride	<EQL	9.1
75-15-0	Carbon disulfide	<EQL	4.5	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.5	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.5	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.5	100-42-5	Styrene	<EQL	4.5
67-66-3	Chloroform	<EQL	4.5	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	4.5	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.5
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.5
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.5
124-48-1	Dibromochloromethane	<EQL	4.5	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.5
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.5
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.5
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.5	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.5	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.5	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.5	75-01-4	Vinyl chloride	<EQL	4.5
156-60-5	trans-1,2-Dichloroethene	<EQL	4.5	1330-20-7	Xylenes (total)	29	4.5
78-87-5	1,2-Dichloropropane	<EQL	4.5	67-64-1	Acetone	<EQL	23
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.5	78-93-3	2-Butanone	<EQL	23
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.5	591-78-6	2-Hexanone	<EQL	23
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	23
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	89	54 - 152
Toluene-d8	94	27 - 175
4-Bromofluorobenzene	98	53 - 172

Work Order # 96-01-019 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW27/341 Lab No. 03

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/12/96 UNITS ppbv

INITIAL PRESSURE, TORR 607 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 5.028

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	5.0	100-41-4	Ethylbenzene	<EQL	5.0
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	5.0	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	5.0	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	5.0	75-09-2	Methylene chloride	<EQL	10
75-15-0	Carbon disulfide	<EQL	5.0	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	5.0	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	5.0	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	5.0	100-42-5	Styrene	<EQL	5.0
67-66-3	Chloroform	<EQL	5.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	5.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	5.0
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	5.0
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	5.0
124-48-1	Dibromochloromethane	<EQL	5.0	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	5.0
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	5.0
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	5.0
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	5.0	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	5.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	5.0	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	5.0	75-01-4	Vinyl chloride	<EQL	5.0
156-60-5	trans-1,2-Dichloroethene	<EQL	5.0	1330-20-7	Xylenes (total)	<EQL	5.0
78-87-5	1,2-Dichloropropane	<EQL	5.0	67-64-1	Acetone	<EQL	25
10061-01-5	cis-1,3-Dichloropropene	<EQL	5.0	78-93-3	2-Butanone	<EQL	25
10061-02-6	trans-1,3-Dichloropropene	<EQL	5.0	591-78-6	2-Hexanone	<EQL	25
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	25
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	84	54 - 152
Toluene-d8	91	27 - 175
4-Bromofluorobenzene	96	53 - 172

Work Order # 96-01-019 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW27CO/320 Lab No. 04

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/12/96 UNITS ppbv

INITIAL PRESSURE, TORR 796 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 3.834

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	3.8	100-41-4	Ethylbenzene	<EQL	3.8
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	3.8	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	3.8	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	3.8	75-09-2	Methylene chloride	<EQL	7.7
75-15-0	Carbon disulfide	<EQL	3.8	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	3.8	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	3.8	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	3.8	100-42-5	Styrene	<EQL	3.8
67-66-3	Chloroform	<EQL	3.8	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	3.8	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	3.8
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	3.8
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	3.8
124-48-1	Dibromochloromethane	<EQL	3.8	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	3.8
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	3.8
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	3.8
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	3.8	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	3.8	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	3.8	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	3.8	75-01-4	Vinyl chloride	<EQL	3.8
156-60-5	trans-1,2-Dichloroethene	<EQL	3.8	1330-20-7	Xylenes (total)	<EQL	3.8
78-87-5	1,2-Dichloropropane	<EQL	3.8	67-64-1	Acetone	<EQL	19
10061-01-5	cis-1,3-Dichloropropene	<EQL	3.8	78-93-3	2-Butanone	<EQL	19
10061-02-6	trans-1,3-Dichloropropene	<EQL	3.8	591-78-6	2-Hexanone	<EQL	19
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	19
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	104	27 - 175
4-Bromofluorobenzene	96	53 - 172

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-019-01A						
CLIENT ID:	UW25, #265						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.003	0.0	8.3	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.003	0.0	10.2	ND
74-83-9	Bromomethane	94.94	1.0	4.003	0.0	15.5	ND
75-00-3	Chloroethane	64.51	1.0	4.003	0.0	10.6	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.003	0.0	15.9	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.003	0.0	12.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.003	0.0	15.9	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.003	0.0	16.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.003	0.0	15.9	ND
67-66-3	Chloroform	119.38	1.0	4.003	0.0	19.5	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.003	0.0	21.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.003	0.0	25.2	ND
71-43-2	Benzene	78.11	1.0	4.003	0.0	12.8	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.003	0.0	16.2	ND
79-01-6	Trichloroethene	131.39	1.0	4.003	0.0	21.5	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.003	0.0	18.5	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.003	0.0	26.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.003	0.0	18.2	ND
108-88-3	Toluene	92.14	1.0	4.003	0.0	15.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.003	0.0	18.2	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.003	0.0	21.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.003	0.0	27.1	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.003	0.0	34.1	ND
108-90-7	Chlorobenzene	112.56	1.0	4.003	0.0	18.4	ND
100-41-4	Ethylbenzene	106.17	1.0	4.003	0.0	17.4	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.003	0.0	17.4	ND
100-42-5	Styrene	104.15	1.0	4.003	0.0	17.0	ND
75-25-2	Bromoform	252.73	1.0	4.003	0.0	41.4	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.003	0.0	27.5	ND
75-09-2	Methylene Chloride	84.93	2.0	4.003	0.0	27.8	ND
67-64-1	Acetone	58.08	5.0	4.003	0.0	47.5	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.003	0.0	70.4	ND
78-93-3	2-Butanone	72.11	5.0	4.003	0.0	59.0	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.003	0.0	82.0	ND
591-78-6	2-Hexanone	100.16	5.0	4.003	0.0	82.0	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-019-02A						
CLIENT ID:	DW26, #623						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.545	0.0	9.4	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.545	0.0	11.6	ND
74-83-9	Bromomethane	94.94	1.0	4.545	0.0	17.6	ND
75-00-3	Chloroethane	64.51	1.0	4.545	0.0	12.0	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.545	0.0	18.0	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.545	0.0	14.1	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.545	0.0	18.0	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.545	0.0	18.4	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.545	0.0	18.0	ND
67-66-3	Chloroform	119.38	1.0	4.545	0.0	22.2	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.545	0.0	24.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.545	0.0	28.6	ND
71-43-2	Benzene	78.11	1.0	4.545	0.0	14.5	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.545	0.0	18.4	ND
79-01-6	Trichloroethene	131.39	1.0	4.545	0.0	24.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.545	0.0	21.0	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.545	0.0	30.4	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.545	0.0	20.6	ND
108-88-3	Toluene	92.14	1.0	4.545	0.0	17.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.545	0.0	20.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.545	0.0	24.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.545	0.0	30.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.545	0.0	38.7	ND
108-90-7	Chlorobenzene	112.56	1.0	4.545	0.0	20.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.545	5.4	19.7	23.4
1330-20-7	Xylenes (total)	106.17	1.0	4.545	29.0	19.7	125.9
100-42-5	Styrene	104.15	1.0	4.545	0.0	19.4	ND
75-25-2	Bromoform	252.73	1.0	4.545	0.0	47.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.545	0.0	31.2	ND
75-09-2	Methylene Chloride	84.93	2.0	4.545	0.0	31.6	ND
67-64-1	Acetone	58.08	5.0	4.545	0.0	54.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.545	0.0	80.0	ND
78-93-3	2-Butanone	72.11	5.0	4.545	0.0	67.0	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.545	0.0	93.1	ND
591-78-6	2-Hexanone	100.16	5.0	4.545	0.0	93.1	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-019-03A						
CLIENT ID:	DW27, #341						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	5.028	0.0	10.4	ND
75-01-4	Vinyl Chloride	62.5	1.0	5.028	0.0	12.8	ND
74-83-9	Bromomethane	94.94	1.0	5.028	0.0	19.5	ND
75-00-3	Chloroethane	64.51	1.0	5.028	0.0	13.3	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	5.028	0.0	19.9	ND
75-15-0	Carbon Disulfide	76.13	1.0	5.028	0.0	15.6	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	5.028	0.0	19.9	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	5.028	0.0	20.3	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	5.028	0.0	19.9	ND
67-66-3	Chloroform	119.38	1.0	5.028	0.0	24.5	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	5.028	0.0	27.4	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	5.028	0.0	31.6	ND
71-43-2	Benzene	78.11	1.0	5.028	0.0	16.1	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	5.028	0.0	20.3	ND
79-01-6	Trichloroethene	131.39	1.0	5.028	0.0	27.0	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	5.028	0.0	23.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	5.028	0.0	33.7	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	5.028	0.0	22.8	ND
108-88-3	Toluene	92.14	1.0	5.028	0.0	18.9	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	5.028	0.0	22.8	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	5.028	0.0	27.4	ND
127-18-4	Tetrachloroethene	165.83	1.0	5.028	0.0	34.1	ND
124-48-1	Dibromochloromethane	208.28	1.0	5.028	0.0	42.8	ND
108-90-7	Chlorobenzene	112.56	1.0	5.028	0.0	23.1	ND
100-41-4	Ethylbenzene	106.17	1.0	5.028	0.0	21.8	ND
1330-20-7	Xylenes (total)	106.17	1.0	5.028	0.0	21.8	ND
100-42-5	Styrene	104.15	1.0	5.028	0.0	21.4	ND
75-25-2	Bromoform	252.73	1.0	5.028	0.0	52.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	5.028	0.0	34.5	ND
75-09-2	Methylene Chloride	84.93	2.0	5.028	0.0	34.9	ND
67-64-1	Acetone	58.08	5.0	5.028	0.0	59.7	ND
108-05-4	Vinyl Acetate	86.09	5.0	5.028	0.0	88.5	ND
78-93-3	2-Butanone	72.11	5.0	5.028	0.0	74.1	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	5.028	0.0	102.9	ND
591-78-6	2-Hexanone	100.16	5.0	5.028	0.0	102.9	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-019-04A						
CLIENT ID:	DW27CO, #320						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	3.834	0.0	7.9	ND
75-01-4	Vinyl Chloride	62.5	1.0	3.834	0.0	9.8	ND
74-83-9	Bromomethane	94.94	1.0	3.834	0.0	14.9	ND
75-00-3	Chloroethane	64.51	1.0	3.834	0.0	10.1	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	3.834	0.0	15.2	ND
75-15-0	Carbon Disulfide	76.13	1.0	3.834	0.0	11.9	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	3.834	0.0	15.2	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	3.834	0.0	15.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	3.834	0.0	15.2	ND
67-66-3	Chloroform	119.38	1.0	3.834	0.0	18.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	3.834	0.0	20.9	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	3.834	0.0	24.1	ND
71-43-2	Benzene	78.11	1.0	3.834	0.0	12.2	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	3.834	0.0	15.5	ND
79-01-6	Trichloroethene	131.39	1.0	3.834	0.0	20.6	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	3.834	0.0	17.7	ND
75-27-4	Bromodichloromethane	163.83	1.0	3.834	0.0	25.7	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	3.834	0.0	17.4	ND
108-88-3	Toluene	92.14	1.0	3.834	0.0	14.4	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	3.834	0.0	17.4	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	3.834	0.0	20.9	ND
127-18-4	Tetrachloroethene	165.83	1.0	3.834	0.0	26.0	ND
124-48-1	Dibromochloromethane	208.28	1.0	3.834	0.0	32.6	ND
108-90-7	Chlorobenzene	112.56	1.0	3.834	0.0	17.6	ND
100-41-4	Ethylbenzene	106.17	1.0	3.834	0.0	16.6	ND
1330-20-7	Xylenes (total)	106.17	1.0	3.834	0.0	16.6	ND
100-42-5	Styrene	104.15	1.0	3.834	0.0	16.3	ND
75-25-2	Bromoform	252.73	1.0	3.834	0.0	39.6	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	3.834	0.0	26.3	ND
75-09-2	Methylene Chloride	84.93	2.0	3.834	0.0	26.6	ND
67-64-1	Acetone	58.08	5.0	3.834	0.0	45.5	ND
108-05-4	Vinyl Acetate	86.09	5.0	3.834	0.0	67.5	ND
78-93-3	2-Butanone	72.11	5.0	3.834	0.0	56.5	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	3.834	0.0	78.5	ND
591-78-6	2-Hexanone	100.16	5.0	3.834	0.0	78.5	ND

96 01 019

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MONR-WICK

SAMPLERS (SIGNATURE): ANDRÉ CASAVANT

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS TO-14						START VACUUM	END VACUUM				REMARKS (INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE)
UW25	1-4	0844-1844	✓		185' W of marker 207	1	✓						30.0	2.0				AIR CAN: 00265
DW26	1-4	0902-1702	✓		15' SE of #398	1	✓						26.0	4.0				AIR CAN: 00623
DW27	1-4	0910-1710	✓		20' NW of #359	1	✓						27.0	7.0				AIR CAN: 00341
DW27CO	1-4	0910-1710	✓		20' NW of #359	1	✓						27.5	9.0				AIR CAN: 00320

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	1-4 1900			1/5/96 1100	Kindra Schalle
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

OH-62

ABB Environmental Services, Inc.

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

ARC Consulting
94 Glenwood Ave.
Portland, ME 04103

Attn: Dan Argentati/Andre Cosavant

Work Order #: 96-01-014
Client Code: ABB_ENVIRO
Report Date: 01/19/96
Work ID: Canisters for TO-14
Date Received: 01/04/96

Purchase Order: 9252-01

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Canister WW22/339	02	Canister DW23/216
03	Canister DW23CO/148	04	Canister DW24/609
05	Canister UW19/267	06	Canister DW20/177
07	Canister DW21/147	08	Canister DW2160/276

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

Certificate approved by
Peggy J. Schuler

TEST METHODOLOGIES

Volatile organics were determined by aliquoting from a SUMMA-polished canister or other vessel followed by gas chromatography/mass spectrometry as in EPA Method TO-14.

Work Order # 96-01-014 **Ross Analytical Services, Inc** **Reported: 01/19/96**

Sample Description Canister WW22/339 Lab No. 01
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv
INITIAL PRESSURE, TORR 739 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.130

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.1	100-41-4	Ethylbenzene	<EQL	4.1
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.1	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.1	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.1	75-09-2	Methylene chloride	<EQL	8.3
75-15-0	Carbon disulfide	<EQL	4.1	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.1	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.1	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.1	100-42-5	Styrene	<EQL	4.1
67-66-3	Chloroform	<EQL	4.1	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	4.1	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.1
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.1
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.1
124-48-1	Dibromochloromethane	<EQL	4.1	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.1
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.1
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.1
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.1	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.1	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.1	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.1	75-01-4	Vinyl chloride	<EQL	4.1
156-60-5	trans-1,2-Dichloroethene	<EQL	4.1	1330-20-7	Xylenes (total)	<EQL	4.1
78-87-5	1,2-Dichloropropane	<EQL	4.1	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.1	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.1	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	92	54 - 152
Toluene-d8	101	27 - 175
4-Bromofluorobenzene	98	53 - 172

Work Order # 96-01-014 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW23/216 Lab No. 02

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv

INITIAL PRESSURE, TORR 754 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.045

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.0	100-41-4	Ethylbenzene	<EQL	4.0
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.0	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.0	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.0	75-09-2	Methylene chloride	<EQL	8.1
75-15-0	Carbon disulfide	<EQL	4.0	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.0	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.0	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.0	100-42-5	Styrene	<EQL	4.0
67-66-3	Chloroform	<EQL	4.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	1500	4.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.0
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.0
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.0
124-48-1	Dibromochloromethane	<EQL	4.0	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.0
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.0
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.0
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.0	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.0	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.0	75-01-4	Vinyl chloride	<EQL	4.0
156-60-5	trans-1,2-Dichloroethene	<EQL	4.0	1330-20-7	Xylenes (total)	<EQL	4.0
78-87-5	1,2-Dichloropropane	<EQL	4.0	67-64-1	Acetone	21	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.0	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.0	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	91	54 - 152
Toluene-d8	101	27 - 175
4-Bromofluorobenzene	96	53 - 172

Work Order # 96-01-014 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW23CO/148 Lab No. 03
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv
INITIAL PRESSURE, TORR 634 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.810

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.8	100-41-4	Ethylbenzene	<EQL	4.8
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.8	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.8	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.8	75-09-2	Methylene chloride	<EQL	9.6
75-15-0	Carbon disulfide	<EQL	4.8	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.8	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.8	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.8	100-42-5	Styrene	<EQL	4.8
67-66-3	Chloroform	<EQL	4.8	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	4.8	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.8
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.8
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.8
124-48-1	Dibromochloromethane	<EQL	4.8	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.8
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.8
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.8
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.8	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.8	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.8	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.8	75-01-4	Vinyl chloride	<EQL	4.8
156-60-5	trans-1,2-Dichloroethene	<EQL	4.8	1330-20-7	Xylenes (total)	<EQL	4.8
78-87-5	1,2-Dichloropropane	<EQL	4.8	67-64-1	Acetone	<EQL	24
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.8	78-93-3	2-Butanone	<EQL	24
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.8	591-78-6	2-Hexanone	<EQL	24
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	24
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	86	54 - 152
Toluene-d8	89	27 - 175
4-Bromofluorobenzene	96	53 - 172

Work Order # 96-01-014 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW24/609 Lab No. 04
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/10/96 UNITS ppbv
INITIAL PRESSURE, TORR 622 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.907

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.9	100-41-4	Ethylbenzene	<EQL	4.9
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.9	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.9	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.9	75-09-2	Methylene chloride	<EQL	9.8
75-15-0	Carbon disulfide	<EQL	4.9	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.9	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.9	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.9	100-42-5	Styrene	<EQL	4.9
67-66-3	Chloroform	<EQL	4.9	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	4.9	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.9
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.9
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.9
124-48-1	Dibromochloromethane	<EQL	4.9	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.9
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.9
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.9
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.9	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.9	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.9	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.9	75-01-4	Vinyl chloride	<EQL	4.9
156-60-5	trans-1,2-Dichloroethene	<EQL	4.9	1330-20-7	Xylenes (total)	<EQL	4.9
78-87-5	1,2-Dichloropropane	<EQL	4.9	67-64-1	Acetone	<EQL	25
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.9	78-93-3	2-Butanone	<EQL	25
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.9	591-78-6	2-Hexanone	<EQL	25
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	25
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	80	54 - 152
Toluene-d8	85	27 - 175
4-Bromofluorobenzene	97	53 - 172

Work Order # 96-01-014 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister UW19/267 Lab No. 05

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/11/96 UNITS ppbv

INITIAL PRESSURE, TORR 704 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.332

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.3	100-41-4	Ethylbenzene	<EQL	4.3
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.3	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.3	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.3	75-09-2	Methylene chloride	<EQL	8.7
75-15-0	Carbon disulfide	<EQL	4.3	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.3	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.3	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.3	100-42-5	Styrene	<EQL	4.3
67-66-3	Chloroform	<EQL	4.3	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	4.3	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.3
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.3
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.3
124-48-1	Dibromochloromethane	<EQL	4.3	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.3
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.3
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.3
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.3	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.3	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.3	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.3	75-01-4	Vinyl chloride	<EQL	4.3
156-60-5	trans-1,2-Dichloroethene	<EQL	4.3	1330-20-7	Xylenes (total)	<EQL	4.3
78-87-5	1,2-Dichloropropane	<EQL	4.3	67-64-1	Acetone	<EQL	22
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.3	78-93-3	2-Butanone	<EQL	22
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.3	591-78-6	2-Hexanone	<EQL	22
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	22
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	94	54 - 152
Toluene-d8	99	27 - 175
4-Bromofluorobenzene	106	53 - 172

Work Order # 96-01-014 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW20/177 Lab No. 06

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/11/96 UNITS ppbv

INITIAL PRESSURE, TORR 603 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 5.057

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	5.1	100-41-4	Ethylbenzene	<EQL	5.1
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	5.1	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	5.1	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	5.1	75-09-2	Methylene chloride	<EQL	10
75-15-0	Carbon disulfide	<EQL	5.1	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	5.1	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	5.1	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	5.1	100-42-5	Styrene	<EQL	5.1
67-66-3	Chloroform	<EQL	5.1	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	5.1	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	5.1
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	5.1
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	5.1
124-48-1	Dibromochloromethane	<EQL	5.1	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	5.1
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	5.1
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	5.1
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	5.1	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	5.1	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	5.1	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	5.1	75-01-4	Vinyl chloride	<EQL	5.1
156-60-5	trans-1,2-Dichloroethene	<EQL	5.1	1330-20-7	Xylenes (total)	<EQL	5.1
78-87-5	1,2-Dichloropropane	<EQL	5.1	67-64-1	Acetone	<EQL	25
10061-01-5	cis-1,3-Dichloropropene	<EQL	5.1	78-93-3	2-Butanone	<EQL	25
10061-02-6	trans-1,3-Dichloropropene	<EQL	5.1	591-78-6	2-Hexanone	<EQL	25
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	25
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	89	54 - 152
Toluene-d8	89	27 - 175
4-Bromofluorobenzene	103	53 - 172

Work Order # 96-01-014 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW21/147 Lab No. 07

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/11/96 UNITS ppbv

INITIAL PRESSURE, TORR 594 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 5.134

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	5.1	100-41-4	Ethylbenzene	<EQL	5.1
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	5.1	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	5.1	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	5.1	75-09-2	Methylene chloride	<EQL	10
75-15-0	Carbon disulfide	<EQL	5.1	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	5.1	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	5.1	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	5.1	100-42-5	Styrene	<EQL	5.1
67-66-3	Chloroform	<EQL	5.1	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	5.1	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	5.1
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	5.1
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	5.1
124-48-1	Dibromochloromethane	<EQL	5.1	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	5.1
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	5.1
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	5.1
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	5.1	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	5.1	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	5.1	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	5.1	75-01-4	Vinyl chloride	<EQL	5.1
156-60-5	trans-1,2-Dichloroethene	<EQL	5.1	1330-20-7	Xylenes (total)	<EQL	5.1
78-87-5	1,2-Dichloropropane	<EQL	5.1	67-64-1	Acetone	<EQL	26
10061-01-5	cis-1,3-Dichloropropene	<EQL	5.1	78-93-3	2-Butanone	<EQL	26
10061-02-6	trans-1,3-Dichloropropene	<EQL	5.1	591-78-6	2-Hexanone	<EQL	26
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	26
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	90	54 - 152
Toluene-d8	88	27 - 175
4-Bromofluorobenzene	101	53 - 172

Work Order # 96-01-014 Ross Analytical Services, Inc Reported: 01/19/96

Sample Description Canister DW2160/276 Lab No. 08
Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/11/96 UNITS ppbv
INITIAL PRESSURE, TORR 720 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.239

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.2	100-41-4	Ethylbenzene	<EQL	4.2
100-44-7	Benzyl chloride	NA		142-82-5	n-Heptane	NA	
75-27-4	Bromodichloromethane	<EQL	4.2	87-68-3	Hexachlorobutadiene	NA	
75-25-2	Bromoform	<EQL	4.2	110-54-3	n-Hexane	NA	
74-83-9	Bromomethane	<EQL	4.2	75-09-2	Methylene chloride	<EQL	8.5
75-15-0	Carbon disulfide	<EQL	4.2	98-83-9	α-methyl styrene	NA	
56-23-5	Carbon tetrachloride	<EQL	4.2	111-84-2	n-Nonane	NA	
108-90-7	Chlorobenzene	<EQL	4.2	111-65-9	n-Octane	NA	
75-45-6	Chlorodifluoromethane	NA		109-66-0	n-Pentane	NA	
75-00-3	Chloroethane	<EQL	4.2	100-42-5	Styrene	<EQL	4.2
67-66-3	Chloroform	<EQL	4.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	
74-87-3	Chloromethane	<EQL	4.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.2
98-82-8	Cumene	NA		127-18-4	Tetrachloroethene	<EQL	4.2
124-18-5	n-Decane	NA		108-88-3	Toluene	<EQL	4.2
124-48-1	Dibromochloromethane	<EQL	4.2	120-82-1	1,2,4-Trichlorobenzene	NA	
106-93-4	1,2-Dibromoethane	NA		71-55-6	1,1,1-Trichloroethane	<EQL	4.2
95-50-1	1,2-Dichlorobenzene	NA		79-00-5	1,1,2-Trichloroethane	<EQL	4.2
541-73-1	1,3-Dichlorobenzene	NA		79-01-6	Trichloroethene	<EQL	4.2
106-46-7	1,4-Dichlorobenzene	NA		75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA		96-63-6	1,2,4-Trimethylbenzene	NA	
75-34-3	1,1-Dichloroethane	<EQL	4.2	108-67-8	1,3,5-Trimethylbenzene	NA	
107-06-2	1,2-Dichloroethane	<EQL	4.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	
75-35-4	1,1-Dichloroethene	<EQL	4.2	1120-21-4	n-Undecane	NA	
156-59-2	cis-1,2-Dichloroethene	<EQL	4.2	75-01-4	Vinyl chloride	<EQL	4.2
156-60-5	trans-1,2-Dichloroethene	<EQL	4.2	1330-20-7	Xylenes (total)	<EQL	4.2
78-87-5	1,2-Dichloropropane	<EQL	4.2	67-64-1	Acetone	<EQL	21
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.2	78-93-3	2-Butanone	<EQL	21
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.2	591-78-6	2-Hexanone	<EQL	21
76-14-2	1,2-Dichlorotetrafluoroethane	NA		108-10-1	4-Methyl-2-pentanone	<EQL	21
112-40-3	n-Dodecane	NA		108-05-4	Vinyl acetate	<EQL	21

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	88	54 - 152
Toluene-d8	96	27 - 175
4-Bromofluorobenzene	103	53 - 172

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-01A						
CLIENT ID:	WW22, #339						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.130	0.0	8.5	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.130	0.0	10.6	ND
74-83-9	Bromomethane	94.94	1.0	4.130	0.0	16.0	ND
75-00-3	Chloroethane	64.51	1.0	4.130	0.0	10.9	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.130	0.0	16.4	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.130	0.0	12.9	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.130	0.0	16.4	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.130	0.0	16.7	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.130	0.0	16.4	ND
67-66-3	Chloroform	119.38	1.0	4.130	0.0	20.2	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.130	0.0	22.5	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.130	0.0	26.0	ND
71-43-2	Benzene	78.11	1.0	4.130	0.0	13.2	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.130	0.0	16.7	ND
79-01-6	Trichloroethene	131.39	1.0	4.130	0.0	22.2	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.130	0.0	19.1	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.130	0.0	27.7	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.130	0.0	18.7	ND
108-88-3	Toluene	92.14	1.0	4.130	0.0	15.6	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.130	0.0	18.7	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.130	0.0	22.5	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.130	0.0	28.0	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.130	0.0	35.2	ND
108-90-7	Chlorobenzene	112.56	1.0	4.130	0.0	19.0	ND
100-41-4	Ethylbenzene	106.17	1.0	4.130	0.0	17.9	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.130	0.0	17.9	ND
100-42-5	Styrene	104.15	1.0	4.130	0.0	17.6	ND
75-25-2	Bromoform	252.73	1.0	4.130	0.0	42.7	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.130	0.0	28.3	ND
75-09-2	Methylene Chloride	84.93	2.0	4.130	0.0	28.7	ND
67-64-1	Acetone	58.08	5.0	4.130	0.0	49.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.130	0.0	72.7	ND
78-93-3	2-Butanone	72.11	5.0	4.130	0.0	60.9	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.130	0.0	84.6	ND
591-78-6	2-Hexanone	100.16	5.0	4.130	0.0	84.6	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-02A						
CLIENT ID:	DW23, #216						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.045	0.0	8.3	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.045	0.0	10.3	ND
74-83-9	Bromomethane	94.94	1.0	4.045	0.0	15.7	ND
75-00-3	Chloroethane	64.51	1.0	4.045	0.0	10.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.045	0.0	16.0	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.045	0.0	12.6	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.045	0.0	16.0	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.045	0.0	16.4	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.045	0.0	16.0	ND
67-66-3	Chloroform	119.38	1.0	4.045	0.0	19.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.045	0.0	22.1	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.045	0.0	25.4	ND
71-43-2	Benzene	78.11	1.0	4.045	0.0	12.9	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.045	0.0	16.4	ND
79-01-6	Trichloroethene	131.39	1.0	4.045	0.0	21.7	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.045	0.0	18.7	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.045	0.0	27.1	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.045	0.0	18.4	ND
108-88-3	Toluene	92.14	1.0	4.045	0.0	15.2	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.045	0.0	18.4	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.045	0.0	22.1	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.045	0.0	27.4	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.045	0.0	34.4	ND
108-90-7	Chlorobenzene	112.56	1.0	4.045	0.0	18.6	ND
100-41-4	Ethylbenzene	106.17	1.0	4.045	0.0	17.6	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.045	0.0	17.6	ND
100-42-5	Styrene	104.15	1.0	4.045	0.0	17.2	ND
75-25-2	Bromoform	252.73	1.0	4.045	0.0	41.8	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.045	0.0	27.8	ND
75-09-2	Methylene Chloride	84.93	2.0	4.045	0.0	28.1	ND
67-64-1	Acetone	58.08	5.0	4.045	21.0	48.0	49.9
108-05-4	Vinyl Acetate	86.09	5.0	4.045	0.0	71.2	ND
78-93-3	2-Butanone	72.11	5.0	4.045	0.0	59.6	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.045	0.0	82.8	ND
591-78-6	2-Hexanone	100.16	5.0	4.045	0.0	82.8	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-03A						
CLIENT ID:	DW23CO, #148						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.810	0.0	9.9	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.810	0.0	12.3	ND
74-83-9	Bromomethane	94.94	1.0	4.810	0.0	18.7	ND
75-00-3	Chloroethane	64.51	1.0	4.810	0.0	12.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.810	0.0	19.1	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.810	0.0	15.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.810	0.0	19.1	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.810	0.0	19.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.810	0.0	19.1	ND
67-66-3	Chloroform	119.38	1.0	4.810	0.0	23.5	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.810	0.0	26.2	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.810	0.0	30.2	ND
71-43-2	Benzene	78.11	1.0	4.810	0.0	15.4	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.810	0.0	19.5	ND
79-01-6	Trichloroethene	131.39	1.0	4.810	0.0	25.8	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.810	0.0	22.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.810	0.0	32.2	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.810	0.0	21.8	ND
108-88-3	Toluene	92.14	1.0	4.810	0.0	18.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.810	0.0	21.8	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.810	0.0	26.2	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.810	0.0	32.6	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.810	0.0	41.0	ND
108-90-7	Chlorobenzene	112.56	1.0	4.810	0.0	22.1	ND
100-41-4	Ethylbenzene	106.17	1.0	4.810	0.0	20.9	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.810	0.0	20.9	ND
100-42-5	Styrene	104.15	1.0	4.810	0.0	20.5	ND
75-25-2	Bromoform	252.73	1.0	4.810	0.0	49.7	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.810	0.0	33.0	ND
75-09-2	Methylene Chloride	84.93	2.0	4.810	0.0	33.4	ND
67-64-1	Acetone	58.08	5.0	4.810	0.0	57.1	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.810	0.0	84.6	ND
78-93-3	2-Butanone	72.11	5.0	4.810	0.0	70.9	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.810	0.0	98.5	ND
591-78-6	2-Hexanone	100.16	5.0	4.810	0.0	98.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-04A						
CLIENT ID:	DW24, #609						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.907	0.0	10.1	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.907	0.0	12.5	ND
74-83-9	Bromomethane	94.94	1.0	4.907	0.0	19.0	ND
75-00-3	Chloroethane	64.51	1.0	4.907	0.0	12.9	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.907	0.0	19.4	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.907	0.0	15.3	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.907	0.0	19.4	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.907	0.0	19.9	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.907	0.0	19.4	ND
67-66-3	Chloroform	119.38	1.0	4.907	0.0	23.9	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.907	0.0	26.8	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.907	0.0	30.9	ND
71-43-2	Benzene	78.11	1.0	4.907	0.0	15.7	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.907	0.0	19.9	ND
79-01-6	Trichloroethene	131.39	1.0	4.907	0.0	26.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.907	0.0	22.7	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.907	0.0	32.9	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.907	0.0	22.3	ND
108-88-3	Toluene	92.14	1.0	4.907	0.0	18.5	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.907	0.0	22.3	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.907	0.0	26.8	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.907	0.0	33.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.907	0.0	41.8	ND
108-90-7	Chlorobenzene	112.56	1.0	4.907	0.0	22.6	ND
100-41-4	Ethylbenzene	106.17	1.0	4.907	0.0	21.3	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.907	0.0	21.3	ND
100-42-5	Styrene	104.15	1.0	4.907	0.0	20.9	ND
75-25-2	Bromoform	252.73	1.0	4.907	0.0	50.7	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.907	0.0	33.7	ND
75-09-2	Methylene Chloride	84.93	2.0	4.907	0.0	34.1	ND
67-64-1	Acetone	58.08	5.0	4.907	0.0	58.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.907	0.0	86.4	ND
78-93-3	2-Butanone	72.11	5.0	4.907	0.0	72.3	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.907	0.0	100.5	ND
591-78-6	2-Hexanone	100.16	5.0	4.907	0.0	100.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-05A						
CLIENT ID:	UW19, #267						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.332	0.0	8.9	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.332	0.0	11.1	ND
74-83-9	Bromomethane	94.94	1.0	4.332	0.0	16.8	ND
75-00-3	Chloroethane	64.51	1.0	4.332	0.0	11.4	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.332	0.0	17.2	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.332	0.0	13.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.332	0.0	17.2	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.332	0.0	17.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.332	0.0	17.2	ND
67-66-3	Chloroform	119.38	1.0	4.332	0.0	21.1	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.332	0.0	23.6	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.332	0.0	27.2	ND
71-43-2	Benzene	78.11	1.0	4.332	0.0	13.8	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.332	0.0	17.5	ND
79-01-6	Trichloroethene	131.39	1.0	4.332	0.0	23.3	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.332	0.0	20.0	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.332	0.0	29.0	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.332	0.0	19.7	ND
108-88-3	Toluene	92.14	1.0	4.332	0.0	16.3	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.332	0.0	19.7	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.332	0.0	23.6	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.332	0.0	29.4	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.332	0.0	36.9	ND
108-90-7	Chlorobenzene	112.56	1.0	4.332	0.0	19.9	ND
100-41-4	Ethylbenzene	106.17	1.0	4.332	0.0	18.8	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.332	0.0	18.8	ND
100-42-5	Styrene	104.15	1.0	4.332	0.0	18.4	ND
75-25-2	Bromoform	252.73	1.0	4.332	0.0	44.8	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.332	0.0	29.7	ND
75-09-2	Methylene Chloride	84.93	2.0	4.332	0.0	30.1	ND
67-64-1	Acetone	58.08	5.0	4.332	0.0	51.4	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.332	0.0	76.2	ND
78-93-3	2-Butanone	72.11	5.0	4.332	0.0	63.9	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.332	0.0	88.7	ND
591-78-6	2-Hexanone	100.16	5.0	4.332	0.0	88.7	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-06A						
CLIENT ID:	DW20, #177						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	5.057	0.0	10.4	ND
75-01-4	Vinyl Chloride	62.5	1.0	5.057	0.0	12.9	ND
74-83-9	Bromomethane	94.94	1.0	5.057	0.0	19.6	ND
75-00-3	Chloroethane	64.51	1.0	5.057	0.0	13.3	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	5.057	0.0	20.0	ND
75-15-0	Carbon Disulfide	76.13	1.0	5.057	0.0	15.7	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	5.057	0.0	20.0	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	5.057	0.0	20.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	5.057	0.0	20.0	ND
67-66-3	Chloroform	119.38	1.0	5.057	0.0	24.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	5.057	0.0	27.6	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	5.057	0.0	31.8	ND
71-43-2	Benzene	78.11	1.0	5.057	0.0	16.1	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	5.057	0.0	20.5	ND
79-01-6	Trichloroethene	131.39	1.0	5.057	0.0	27.2	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	5.057	0.0	23.4	ND
75-27-4	Bromodichloromethane	163.83	1.0	5.057	0.0	33.9	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	5.057	0.0	22.9	ND
108-88-3	Toluene	92.14	1.0	5.057	0.0	19.0	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	5.057	0.0	22.9	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	5.057	0.0	27.6	ND
127-18-4	Tetrachloroethene	165.83	1.0	5.057	0.0	34.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	5.057	0.0	43.1	ND
108-90-7	Chlorobenzene	112.56	1.0	5.057	0.0	23.3	ND
100-41-4	Ethylbenzene	106.17	1.0	5.057	0.0	22.0	ND
1330-20-7	Xylenes (total)	106.17	1.0	5.057	0.0	22.0	ND
100-42-5	Styrene	104.15	1.0	5.057	0.0	21.5	ND
75-25-2	Bromoform	252.73	1.0	5.057	0.0	52.3	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	5.057	0.0	34.7	ND
75-09-2	Methylene Chloride	84.93	2.0	5.057	0.0	35.1	ND
67-64-1	Acetone	58.08	5.0	5.057	0.0	60.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	5.057	0.0	89.0	ND
78-93-3	2-Butanone	72.11	5.0	5.057	0.0	74.5	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	5.057	0.0	103.5	ND
591-78-6	2-Hexanone	100.16	5.0	5.057	0.0	103.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-07A						
CLIENT ID:	DW21, #147						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	5.134	0.0	10.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	5.134	0.0	13.1	ND
74-83-9	Bromomethane	94.94	1.0	5.134	0.0	19.9	ND
75-00-3	Chloroethane	64.51	1.0	5.134	0.0	13.5	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	5.134	0.0	20.3	ND
75-15-0	Carbon Disulfide	76.13	1.0	5.134	0.0	16.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	5.134	0.0	20.3	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	5.134	0.0	20.8	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	5.134	0.0	20.3	ND
67-66-3	Chloroform	119.38	1.0	5.134	0.0	25.1	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	5.134	0.0	28.0	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	5.134	0.0	32.3	ND
71-43-2	Benzene	78.11	1.0	5.134	0.0	16.4	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	5.134	0.0	20.8	ND
79-01-6	Trichloroethene	131.39	1.0	5.134	0.0	27.6	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	5.134	0.0	23.7	ND
75-27-4	Bromodichloromethane	163.83	1.0	5.134	0.0	34.4	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	5.134	0.0	23.3	ND
108-88-3	Toluene	92.14	1.0	5.134	0.0	19.3	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	5.134	0.0	23.3	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	5.134	0.0	28.0	ND
127-18-4	Tetrachloroethene	165.83	1.0	5.134	0.0	34.8	ND
124-48-1	Dibromochloromethane	208.28	1.0	5.134	0.0	43.7	ND
108-90-7	Chlorobenzene	112.56	1.0	5.134	0.0	23.6	ND
100-41-4	Ethylbenzene	106.17	1.0	5.134	0.0	22.3	ND
1330-20-7	Xylenes (total)	106.17	1.0	5.134	0.0	22.3	ND
100-42-5	Styrene	104.15	1.0	5.134	0.0	21.9	ND
75-25-2	Bromoform	252.73	1.0	5.134	0.0	53.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	5.134	0.0	35.2	ND
75-09-2	Methylene Chloride	84.93	2.0	5.134	0.0	35.7	ND
67-64-1	Acetone	58.08	5.0	5.134	0.0	61.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	5.134	0.0	90.3	ND
78-93-3	2-Butanone	72.11	5.0	5.134	0.0	75.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	5.134	0.0	105.1	ND
591-78-6	2-Hexanone	100.16	5.0	5.134	0.0	105.1	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-014-08A						
CLIENT ID:	DW21CO, #276						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.239	0.0	8.8	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.239	0.0	10.8	ND
74-83-9	Bromomethane	94.94	1.0	4.239	0.0	16.5	ND
75-00-3	Chloroethane	64.51	1.0	4.239	0.0	11.2	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.239	0.0	16.8	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.239	0.0	13.2	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.239	0.0	16.8	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.239	0.0	17.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.239	0.0	16.8	ND
67-66-3	Chloroform	119.38	1.0	4.239	0.0	20.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.239	0.0	23.1	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.239	0.0	26.7	ND
71-43-2	Benzene	78.11	1.0	4.239	0.0	13.5	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.239	0.0	17.2	ND
79-01-6	Trichloroethene	131.39	1.0	4.239	0.0	22.8	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.239	0.0	19.6	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.239	0.0	28.4	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.239	0.0	19.2	ND
108-88-3	Toluene	92.14	1.0	4.239	0.0	16.0	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.239	0.0	19.2	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.239	0.0	23.1	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.239	0.0	28.7	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.239	0.0	36.1	ND
108-90-7	Chlorobenzene	112.56	1.0	4.239	0.0	19.5	ND
100-41-4	Ethylbenzene	106.17	1.0	4.239	0.0	18.4	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.239	0.0	18.4	ND
100-42-5	Styrene	104.15	1.0	4.239	0.0	18.0	ND
75-25-2	Bromoform	252.73	1.0	4.239	0.0	43.8	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.239	0.0	29.1	ND
75-09-2	Methylene Chloride	84.93	2.0	4.239	0.0	29.4	ND
67-64-1	Acetone	58.08	5.0	4.239	0.0	50.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.239	0.0	74.6	ND
78-93-3	2-Butanone	72.11	5.0	4.239	0.0	62.5	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.239	0.0	86.8	ND
591-78-6	2-Hexanone	100.16	5.0	4.239	0.0	86.8	ND

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MDNR - WICK

SAMPLERS (SIGNATURE): ANDRÉ CASAVANT

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs TO-14					START VACUUM	END VACUUM					REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
WW22	1-3	0818-	✓		30'E of dist rd & 30'S of Ecose	1	✓					30.0	2.0					AIR CAN: 00339
DW23		0830-	✓		50' S of grid marker 205	1	✓					27.0	2.0					AIR CAN: 00216
DW23CO		0830-	✓		50'S of grid marker 205	1	✓					27.0	5.0					AIR CAN: 00148
DW24		0842-	✓		grid 242	1	✓					27.0	6.0					AIR CAN: 00609

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
André Casavant	1-3 1515			1/4/96 1500	Kendra Schrolle
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

OH-62

ABB Environmental Services, Inc.

96-01 014

CHAIN OF CUSTODY RECORD

PROJECT NO.: 9252-01

PROJECT NAME: MONR-WICK

SAMPLERS (SIGNATURE): ANDRÉ CASAVANT

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs TO-14						START VACUUM	END VACUUM				REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
UW19	1-2	0844-1603	✓		30' E of [illegible] & 70's of [illegible]	1	✓						30.0	4.0				AIR CAN: 00267
DW20		0823-1613	✓		Grid #114	1	✓						27.0	6.0				AIR CAN: 00177
DW21		0833-1614	✓		185' W of Grid #207	1	✓						28.0	6.0				AIR CAN: 00147
DW21CO		0833-1618	✓		185' W of Grid #207	1	✓						28.0	3.0				AIR CAN: 00276

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	1-2 | 1700			1/4/96 | 1500	Kendra Schelle
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	|			|	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
	|		|		

OH-62

ABB Environmental Services, Inc.

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

ARC Consulting
94 Glenwood Ave.
Portland, ME 04103

Attn: Dan Argentati/Andre Cosavant

Work Order #: 96-01-045
Client Code: ABB_ENVIRO
Report Date: 01/23/96
Work ID: Canisters for TO-14
Date Received: 01/09/96

Purchase Order: 9252-01

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Canister UW28/274	02	Canister DW29/410
03	Canister DW29CO/413	04	Canister DW30/575
05	Canister UW31/445	06	Canister DW32/291
07	Canister DW32CO/134	08	Canister DW33/346
09	Canister DW33FB/257	10	Canister UW22FB/606

Data are reported on an as-received basis unless stated otherwise. Estimated Quantitation Limits (EQL's) are listed for most analytes. EQL's are the lowest concentrations that can be reliably measured under routine laboratory conditions. Unless otherwise noted, method blanks had no targets found above their EQL's and results were not corrected for blanks.

Certificate approved by
Carol L. Turner

REPORT COMMENTS

Results are reported in both ppbv and ug/m3.

High dilution factors were reported for samples DW33FB and UW22FB (Lab Nos. 09 and 10) due to the fact that these samples were under high vaccuum (as if that had not been sampled) and had to be brought to the same pressure as the other samples for analysis. As a result, EQL's are elveated for these samples.

TEST METHODOLOGIES

Volatile organics were determined by aliquoting from a SUMMA-polished canister or other vessel followed by gas chromatography/mass spectrometry as in EPA Method TO-14.

Work Order # 96-01-045 **Ross Analytical Services, Inc** **Reported: 01/23/96**

Sample Description **Canister UW28/274** Lab No. 01
Test Description **Canisters or bags by TO-14** Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv
INITIAL PRESSURE, TORR 770 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 3.964

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.0	100-41-4	Ethylbenzene	<EQL	4.0
100-44-7	Benzyl chloride	NA	4.0	142-82-5	n-Heptane	NA	4.0
75-27-4	Bromodichloromethane	<EQL	4.0	87-68-3	Hexachlorobutadiene	NA	4.0
75-25-2	Bromoform	<EQL	4.0	110-54-3	n-Hexane	NA	4.0
74-83-9	Bromomethane	<EQL	4.0	75-09-2	Methylene chloride	<EQL	7.9
75-15-0	Carbon disulfide	18.6	4.0	98-83-9	α-methyl styrene	NA	4.0
56-23-5	Carbon tetrachloride	<EQL	4.0	111-84-2	n-Nonane	NA	4.0
108-90-7	Chlorobenzene	<EQL	4.0	111-65-9	n-Octane	NA	4.0
75-45-6	Chlorodifluoromethane	NA	4.0	109-66-0	n-Pentane	NA	4.0
75-00-3	Chloroethane	<EQL	4.0	100-42-5	Styrene	<EQL	4.0
67-66-3	Chloroform	<EQL	4.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.0
74-87-3	Chloromethane	<EQL	4.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.0
98-82-8	Cumene	NA	4.0	127-18-4	Tetrachloroethene	<EQL	4.0
124-18-5	n-Decane	NA	4.0	108-88-3	Toluene	<EQL	4.0
124-48-1	Dibromochloromethane	<EQL	4.0	120-82-1	1,2,4-Trichlorobenzene	NA	4.0
106-93-4	1,2-Dibromoethane	NA	4.0	71-55-6	1,1,1-Trichloroethane	<EQL	4.0
95-50-1	1,2-Dichlorobenzene	NA	4.0	79-00-5	1,1,2-Trichloroethane	<EQL	4.0
541-73-1	1,3-Dichlorobenzene	NA	4.0	79-01-6	Trichloroethene	<EQL	4.0
106-46-7	1,4-Dichlorobenzene	NA	4.0	75-69-4	Trichlorofluoromethane	NA	4.0
75-71-8	Dichlorodifluoromethane	NA	4.0	96-63-6	1,2,4-Trimethylbenzene	NA	4.0
75-34-3	1,1-Dichloroethane	<EQL	4.0	108-67-8	1,3,5-Trimethylbenzene	NA	4.0
107-06-2	1,2-Dichloroethane	<EQL	4.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.0
75-35-4	1,1-Dichloroethene	<EQL	4.0	1120-21-4	n-Undecane	NA	4.0
156-59-2	cis-1,2-Dichloroethene	<EQL	4.0	75-01-4	Vinyl chloride	<EQL	4.0
156-60-5	trans-1,2-Dichloroethene	<EQL	4.0	1330-20-7	Xylenes (total)	<EQL	4.0
78-87-5	1,2-Dichloropropane	<EQL	4.0	67-64-1	Acetone	158.5	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.0	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.0	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.0	108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA	4.0	108-05-4	Vinyl acetate	<EQL	20

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	81	54 - 152
Toluene-d8	100	27 - 175
4-Bromofluorobenzene	95	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister DW29/410 Lab No. 02

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv

INITIAL PRESSURE, TORR 786 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 3.883

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	3.9	100-41-4	Ethylbenzene	<EQL	3.9
100-44-7	Benzyl chloride	NA	3.9	142-82-5	n-Heptane	NA	3.9
75-27-4	Bromodichloromethane	<EQL	3.9	87-68-3	Hexachlorobutadiene	NA	3.9
75-25-2	Bromoform	<EQL	3.9	110-54-3	n-Hexane	NA	3.9
74-83-9	Bromomethane	<EQL	3.9	75-09-2	Methylene chloride	<EQL	7.8
75-15-0	Carbon disulfide	<EQL	3.9	98-83-9	α-methyl styrene	NA	3.9
56-23-5	Carbon tetrachloride	<EQL	3.9	111-84-2	n-Nonane	NA	3.9
108-90-7	Chlorobenzene	<EQL	3.9	111-65-9	n-Octane	NA	3.9
75-45-6	Chlorodifluoromethane	NA	3.9	109-66-0	n-Pentane	NA	3.9
75-00-3	Chloroethane	<EQL	3.9	100-42-5	Styrene	<EQL	3.9
67-66-3	Chloroform	<EQL	3.9	630-20-6	1,1,1,2-Tetrachloroethane	NA	3.9
74-87-3	Chloromethane	<EQL	3.9	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	3.9
98-82-8	Cumene	NA	3.9	127-18-4	Tetrachloroethene	<EQL	3.9
124-18-5	n-Decane	NA	3.9	108-88-3	Toluene	<EQL	3.9
124-48-1	Dibromochloromethane	<EQL	3.9	120-82-1	1,2,4-Trichlorobenzene	NA	3.9
106-93-4	1,2-Dibromoethane	NA	3.9	71-55-6	1,1,1-Trichloroethane	<EQL	3.9
95-50-1	1,2-Dichlorobenzene	NA	3.9	79-00-5	1,1,2-Trichloroethane	<EQL	3.9
541-73-1	1,3-Dichlorobenzene	NA	3.9	79-01-6	Trichloroethene	<EQL	3.9
106-46-7	1,4-Dichlorobenzene	NA	3.9	75-69-4	Trichlorofluoromethane	NA	3.9
75-71-8	Dichlorodifluoromethane	NA	3.9	96-63-6	1,2,4-Trimethylbenzene	NA	3.9
75-34-3	1,1-Dichloroethane	<EQL	3.9	108-67-8	1,3,5-Trimethylbenzene	NA	3.9
107-06-2	1,2-Dichloroethane	<EQL	3.9	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	3.9
75-35-4	1,1-Dichloroethene	<EQL	3.9	1120-21-4	n-Undecane	NA	3.9
156-59-2	cis-1,2-Dichloroethene	<EQL	3.9	75-01-4	Vinyl chloride	<EQL	3.9
156-60-5	trans-1,2-Dichloroethene	<EQL	3.9	1330-20-7	Xylenes (total)	18.3	3.9
78-87-5	1,2-Dichloropropane	<EQL	3.9	67-64-1	Acetone	<EQL	19
10061-01-5	cis-1,3-Dichloropropene	<EQL	3.9	78-93-3	2-Butanone	<EQL	19
10061-02-6	trans-1,3-Dichloropropene	<EQL	3.9	591-78-6	2-Hexanone	<EQL	19
76-14-2	1,2-Dichlorotetrafluoroethane	NA	3.9	108-10-1	4-Methyl-2-pentanone	<EQL	19
112-40-3	n-Dodecane	NA	3.9	108-05-4	Vinyl acetate	<EQL	19

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	78	54 - 152
Toluene-d8	105	27 - 175
4-Bromofluorobenzene	105	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister DW29CO/413 Lab No. 03

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv

INITIAL PRESSURE, TORR 591 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 5.160

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	5.2	100-41-4	Ethylbenzene	<EQL	5.2
100-44-7	Benzyl chloride	NA	5.2	142-82-5	n-Heptane	NA	5.2
75-27-4	Bromodichloromethane	<EQL	5.2	87-68-3	Hexachlorobutadiene	NA	5.2
75-25-2	Bromoform	<EQL	5.2	110-54-3	n-Hexane	NA	5.2
74-83-9	Bromomethane	<EQL	5.2	75-09-2	Methylene chloride	<EQL	10
75-15-0	Carbon disulfide	<EQL	5.2	98-83-9	α-methyl styrene	NA	5.2
56-23-5	Carbon tetrachloride	<EQL	5.2	111-84-2	n-Nonane	NA	5.2
108-90-7	Chlorobenzene	<EQL	5.2	111-65-9	n-Octane	NA	5.2
75-45-6	Chlorodifluoromethane	NA	5.2	109-66-0	n-Pentane	NA	5.2
75-00-3	Chloroethane	<EQL	5.2	100-42-5	Styrene	<EQL	5.2
67-66-3	Chloroform	<EQL	5.2	630-20-6	1,1,1,2-Tetrachloroethane	NA	5.2
74-87-3	Chloromethane	<EQL	5.2	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	5.2
98-82-8	Cumene	NA	5.2	127-18-4	Tetrachloroethene	<EQL	5.2
124-18-5	n-Decane	NA	5.2	108-88-3	Toluene	<EQL	5.2
124-48-1	Dibromochloromethane	<EQL	5.2	120-82-1	1,2,4-Trichlorobenzene	<EQL	5.2
106-93-4	1,2-Dibromoethane	NA	5.2	71-55-6	1,1,1-Trichloroethane	<EQL	5.2
95-50-1	1,2-Dichlorobenzene	NA	5.2	79-00-5	1,1,2-Trichloroethane	<EQL	5.2
541-73-1	1,3-Dichlorobenzene	NA	5.2	79-01-6	Trichloroethene	<EQL	5.2
106-46-7	1,4-Dichlorobenzene	NA	5.2	75-69-4	Trichlorofluoromethane	NA	5.2
75-71-8	Dichlorodifluoromethane	NA	5.2	96-63-6	1,2,4-Trimethylbenzene	NA	5.2
75-34-3	1,1-Dichloroethane	<EQL	5.2	108-67-8	1,3,5-Trimethylbenzene	NA	5.2
107-06-2	1,2-Dichloroethane	<EQL	5.2	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	5.2
75-35-4	1,1-Dichloroethene	<EQL	5.2	1120-21-4	n-Undecane	NA	5.2
156-59-2	cis-1,2-Dichloroethene	<EQL	5.2	75-01-4	Vinyl chloride	<EQL	5.2
156-60-5	trans-1,2-Dichloroethene	<EQL	5.2	1330-20-7	Xylenes (total)	16.7	5.2
78-87-5	1,2-Dichloropropane	<EQL	5.2	67-64-1	Acetone	<EQL	26
10061-01-5	cis-1,3-Dichloropropene	<EQL	5.2	78-93-3	2-Butanone	<EQL	26
10061-02-6	trans-1,3-Dichloropropene	<EQL	5.2	591-78-6	2-Hexanone	<EQL	26
76-14-2	1,2-Dichlorotetrafluoroethane	NA	5.2	108-10-1	4-Methyl-2-pentanone	<EQL	26
112-40-3	n-Dodecane	NA	5.2	108-05-4	Vinyl acetate	<EQL	26

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	76	54 - 152
Toluene-d8	96	27 - 175
4-Bromofluorobenzene	84	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister DW30/575 Lab No. 04

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv

INITIAL PRESSURE, TORR 655 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.660

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.7	100-41-4	Ethylbenzene	<EQL	4.7
100-44-7	Benzyl chloride	NA	4.7	142-82-5	n-Heptane	NA	4.7
75-27-4	Bromodichloromethane	<EQL	4.7	87-68-3	Hexachlorobutadiene	NA	4.7
75-25-2	Bromoform	<EQL	4.7	110-54-3	n-Hexane	NA	4.7
74-83-9	Bromomethane	<EQL	4.7	75-09-2	Methylene chloride	<EQL	9.3
75-15-0	Carbon disulfide	<EQL	4.7	98-83-9	α-methyl styrene	NA	4.7
56-23-5	Carbon tetrachloride	<EQL	4.7	111-84-2	n-Nonane	NA	4.7
108-90-7	Chlorobenzene	<EQL	4.7	111-65-9	n-Octane	NA	4.7
75-45-6	Chlorodifluoromethane	NA	4.7	109-66-0	n-Pentane	NA	4.7
75-00-3	Chloroethane	<EQL	4.7	100-42-5	Styrene	<EQL	4.7
67-66-3	Chloroform	<EQL	4.7	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.7
74-87-3	Chloromethane	<EQL	4.7	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.7
98-82-8	Cumene	NA	4.7	127-18-4	Tetrachloroethene	<EQL	4.7
124-18-5	n-Decane	NA	4.7	108-88-3	Toluene	<EQL	4.7
124-48-1	Dibromochloromethane	<EQL	4.7	120-82-1	1,2,4-Trichlorobenzene	NA	4.7
106-93-4	1,2-Dibromoethane	NA	4.7	71-55-6	1,1,1-Trichloroethane	<EQL	4.7
95-50-1	1,2-Dichlorobenzene	NA	4.7	79-00-5	1,1,2-Trichloroethane	<EQL	4.7
541-73-1	1,3-Dichlorobenzene	NA	4.7	79-01-6	Trichloroethene	<EQL	4.7
106-46-7	1,4-Dichlorobenzene	NA	4.7	75-69-4	Trichlorofluoromethane	NA	4.7
75-71-8	Dichlorodifluoromethane	NA	4.7	96-63-6	1,2,4-Trimethylbenzene	NA	4.7
75-34-3	1,1-Dichloroethane	<EQL	4.7	108-67-8	1,3,5-Trimethylbenzene	NA	4.7
107-06-2	1,2-Dichloroethane	<EQL	4.7	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.7
75-35-4	1,1-Dichloroethene	<EQL	4.7	1120-21-4	n-Undecane	NA	4.7
156-59-2	cis-1,2-Dichloroethene	<EQL	4.7	75-01-4	Vinyl chloride	<EQL	4.7
156-60-5	trans-1,2-Dichloroethene	<EQL	4.7	1330-20-7	Xylenes (total)	<EQL	4.7
78-87-5	1,2-Dichloropropane	<EQL	4.7	67-64-1	Acetone	<EQL	23
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.7	78-93-3	2-Butanone	<EQL	23
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.7	591-78-6	2-Hexanone	<EQL	23
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.7	108-10-1	4-Methyl-2-pentanone	<EQL	23
112-40-3	n-Dodecane	NA	4.7	108-05-4	Vinyl acetate	<EQL	23

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	70	54 - 152
Toluene-d8	89	27 - 175
4-Bromofluorobenzene	94	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister UW31/445 Lab No. 05

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv

INITIAL PRESSURE, TORR 755 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.042

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.0	100-41-4	Ethylbenzene	<EQL	4.0
100-44-7	Benzyl chloride	NA	4.0	142-82-5	n-Heptane	NA	4.0
75-27-4	Bromodichloromethane	<EQL	4.0	87-68-3	Hexachlorobutadiene	NA	4.0
75-25-2	Bromoform	<EQL	4.0	110-54-3	n-Hexane	NA	4.0
74-83-9	Bromomethane	<EQL	4.0	75-09-2	Methylene chloride	<EQL	8.1
75-15-0	Carbon disulfide	<EQL	4.0	98-83-9	α-methyl styrene	NA	4.0
56-23-5	Carbon tetrachloride	<EQL	4.0	111-84-2	n-Nonane	NA	4.0
108-90-7	Chlorobenzene	<EQL	4.0	111-65-9	n-Octane	NA	4.0
75-45-6	Chlorodifluoromethane	NA	4.0	109-66-0	n-Pentane	NA	4.0
75-00-3	Chloroethane	<EQL	4.0	100-42-5	Styrene	<EQL	4.0
67-66-3	Chloroform	<EQL	4.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.0
74-87-3	Chloromethane	<EQL	4.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.0
98-82-8	Cumene	NA	4.0	127-18-4	Tetrachloroethene	<EQL	4.0
124-18-5	n-Decane	NA	4.0	108-88-3	Toluene	<EQL	4.0
124-48-1	Dibromochloromethane	<EQL	4.0	120-82-1	1,2,4-Trichlorobenzene	NA	4.0
106-93-4	1,2-Dibromoethane	NA	4.0	71-55-6	1,1,1-Trichloroethane	<EQL	4.0
95-50-1	1,2-Dichlorobenzene	NA	4.0	79-00-5	1,1,2-Trichloroethane	<EQL	4.0
541-73-1	1,3-Dichlorobenzene	NA	4.0	79-01-6	Trichloroethene	<EQL	4.0
106-46-7	1,4-Dichlorobenzene	NA	4.0	75-69-4	Trichlorofluoromethane	NA	4.0
75-71-8	Dichlorodifluoromethane	NA	4.0	96-63-6	1,2,4-Trimethylbenzene	NA	4.0
75-34-3	1,1-Dichloroethane	<EQL	4.0	108-67-8	1,3,5-Trimethylbenzene	NA	4.0
107-06-2	1,2-Dichloroethane	<EQL	4.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.0
75-35-4	1,1-Dichloroethene	<EQL	4.0	1120-21-4	n-Undecane	NA	4.0
156-59-2	cis-1,2-Dichloroethene	<EQL	4.0	75-01-4	Vinyl chloride	<EQL	4.0
156-60-5	trans-1,2-Dichloroethene	<EQL	4.0	1330-20-7	Xylenes (total)	<EQL	4.0
78-87-5	1,2-Dichloropropane	<EQL	4.0	67-64-1	Acetone	<EQL	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.0	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.0	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.0	108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA	4.0	108-05-4	Vinyl acetate	<EQL	20

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	78	54 - 152
Toluene-d8	110	27 - 175
4-Bromofluorobenzene	89	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister DW32/291 Lab No. 06

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv

INITIAL PRESSURE, TORR 766 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 3.984

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.0	100-41-4	Ethylbenzene	<EQL	4.0
100-44-7	Benzyl chloride	NA	4.0	142-82-5	n-Heptane	NA	4.0
75-27-4	Bromodichloromethane	<EQL	4.0	87-68-3	Hexachlorobutadiene	NA	4.0
75-25-2	Bromoform	<EQL	4.0	110-54-3	n-Hexane	NA	4.0
74-83-9	Bromomethane	<EQL	4.0	75-09-2	Methylene chloride	<EQL	8.0
75-15-0	Carbon disulfide	<EQL	4.0	98-83-9	α-methyl styrene	NA	4.0
56-23-5	Carbon tetrachloride	<EQL	4.0	111-84-2	n-Nonane	NA	4.0
108-90-7	Chlorobenzene	<EQL	4.0	111-65-9	n-Octane	NA	4.0
75-45-6	Chlorodifluoromethane	NA	4.0	109-66-0	n-Pentane	NA	4.0
75-00-3	Chloroethane	<EQL	4.0	100-42-5	Styrene	<EQL	4.0
67-66-3	Chloroform	<EQL	4.0	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.0
74-87-3	Chloromethane	<EQL	4.0	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.0
98-82-8	Cumene	NA	4.0	127-18-4	Tetrachloroethene	<EQL	4.0
124-18-5	n-Decane	NA	4.0	108-88-3	Toluene	<EQL	4.0
124-48-1	Dibromochloromethane	<EQL	4.0	120-82-1	1,2,4-Trichlorobenzene	NA	4.0
106-93-4	1,2-Dibromoethane	NA	4.0	71-55-6	1,1,1-Trichloroethane	<EQL	4.0
95-50-1	1,2-Dichlorobenzene	NA	4.0	79-00-5	1,1,2-Trichloroethane	<EQL	4.0
541-73-1	1,3-Dichlorobenzene	NA	4.0	79-01-6	Trichloroethene	<EQL	4.0
106-46-7	1,4-Dichlorobenzene	NA	4.0	75-69-4	Trichlorofluoromethane	NA	4.0
75-71-8	Dichlorodifluoromethane	NA	4.0	96-63-6	1,2,4-Trimethylbenzene	NA	4.0
75-34-3	1,1-Dichloroethane	<EQL	4.0	108-67-8	1,3,5-Trimethylbenzene	NA	4.0
107-06-2	1,2-Dichloroethane	<EQL	4.0	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.0
75-35-4	1,1-Dichloroethene	<EQL	4.0	1120-21-4	n-Undecane	NA	4.0
156-59-2	cis-1,2-Dichloroethene	<EQL	4.0	75-01-4	Vinyl chloride	<EQL	4.0
156-60-5	trans-1,2-Dichloroethene	<EQL	4.0	1330-20-7	Xylenes (total)	<EQL	4.0
78-87-5	1,2-Dichloropropane	<EQL	4.0	67-64-1	Acetone	<EQL	20
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.0	78-93-3	2-Butanone	<EQL	20
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.0	591-78-6	2-Hexanone	<EQL	20
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.0	108-10-1	4-Methyl-2-pentanone	<EQL	20
112-40-3	n-Dodecane	NA	4.0	108-05-4	Vinyl acetate	<EQL	20

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	78	54 - 152
Toluene-d8	107	27 - 175
4-Bromofluorobenzene	86	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister DW32CO/134 Lab No. 07

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv

INITIAL PRESSURE, TORR 664 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.596

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.6	100-41-4	Ethylbenzene	<EQL	4.6
100-44-7	Benzyl chloride	NA	4.6	142-82-5	n-Heptane	NA	4.6
75-27-4	Bromodichloromethane	<EQL	4.6	87-68-3	Hexachlorobutadiene	NA	4.6
75-25-2	Bromoform	<EQL	4.6	110-54-3	n-Hexane	NA	4.6
74-83-9	Bromomethane	<EQL	4.6	75-09-2	Methylene chloride	<EQL	9.2
75-15-0	Carbon disulfide	<EQL	4.6	98-83-9	α-methyl styrene	NA	4.6
56-23-5	Carbon tetrachloride	<EQL	4.6	111-84-2	n-Nonane	NA	4.6
108-90-7	Chlorobenzene	<EQL	4.6	111-65-9	n-Octane	NA	4.6
75-45-6	Chlorodifluoromethane	NA	4.6	109-66-0	n-Pentane	NA	4.6
75-00-3	Chloroethane	<EQL	4.6	100-42-5	Styrene	<EQL	4.6
67-66-3	Chloroform	<EQL	4.6	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.6
74-87-3	Chloromethane	<EQL	4.6	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.6
98-82-8	Cumene	NA	4.6	127-18-4	Tetrachloroethene	<EQL	4.6
124-18-5	n-Decane	NA	4.6	108-88-3	Toluene	<EQL	4.6
124-48-1	Dibromochloromethane	<EQL	4.6	120-82-1	1,2,4-Trichlorobenzene	NA	4.6
106-93-4	1,2-Dibromoethane	NA	4.6	71-55-6	1,1,1-Trichloroethane	<EQL	4.6
95-50-1	1,2-Dichlorobenzene	NA	4.6	79-00-5	1,1,2-Trichloroethane	<EQL	4.6
541-73-1	1,3-Dichlorobenzene	NA	4.6	79-01-6	Trichloroethene	<EQL	4.6
106-46-7	1,4-Dichlorobenzene	NA	4.6	75-69-4	Trichlorofluoromethane	NA	4.6
75-71-8	Dichlorodifluoromethane	NA	4.6	96-63-6	1,2,4-Trimethylbenzene	NA	4.6
75-34-3	1,1-Dichloroethane	<EQL	4.6	108-67-8	1,3,5-Trimethylbenzene	NA	4.6
107-06-2	1,2-Dichloroethane	<EQL	4.6	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.6
75-35-4	1,1-Dichloroethene	<EQL	4.6	1120-21-4	n-Undecane	NA	4.6
156-59-2	cis-1,2-Dichloroethene	<EQL	4.6	75-01-4	Vinyl chloride	<EQL	4.6
156-60-5	trans-1,2-Dichloroethene	<EQL	4.6	1330-20-7	Xylenes (total)	<EQL	4.6
78-87-5	1,2-Dichloropropane	<EQL	4.6	67-64-1	Acetone	<EQL	23
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.6	78-93-3	2-Butanone	<EQL	23
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.6	591-78-6	2-Hexanone	<EQL	23
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.6	108-10-1	4-Methyl-2-pentanone	<EQL	23
112-40-3	n-Dodecane	NA	4.6	108-05-4	Vinyl acetate	<EQL	23

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	78	54 - 152
Toluene-d8	109	27 - 175
4-Bromofluorobenzene	92	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister DW33/346 Lab No. 08

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/17/96 UNITS ppbv

INITIAL PRESSURE, TORR 634 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 4.814

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	4.8	100-41-4	Ethylbenzene	<EQL	4.8
100-44-7	Benzyl chloride	NA	4.8	142-82-5	n-Heptane	NA	4.8
75-27-4	Bromodichloromethane	<EQL	4.8	87-68-3	Hexachlorobutadiene	NA	4.8
75-25-2	Bromoform	<EQL	4.8	110-54-3	n-Hexane	NA	4.8
74-83-9	Bromomethane	<EQL	4.8	75-09-2	Methylene chloride	<EQL	9.6
75-15-0	Carbon disulfide	<EQL	4.8	98-83-9	α-methyl styrene	NA	4.8
56-23-5	Carbon tetrachloride	<EQL	4.8	111-84-2	n-Nonane	NA	4.8
108-90-7	Chlorobenzene	<EQL	4.8	111-65-9	n-Octane	NA	4.8
75-45-6	Chlorodifluoromethane	NA	4.8	109-66-0	n-Pentane	NA	4.8
75-00-3	Chloroethane	<EQL	4.8	100-42-5	Styrene	<EQL	4.8
67-66-3	Chloroform	<EQL	4.8	630-20-6	1,1,1,2-Tetrachloroethane	NA	4.8
74-87-3	Chloromethane	<EQL	4.8	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	4.8
98-82-8	Cumene	NA	4.8	127-18-4	Tetrachloroethene	<EQL	4.8
124-18-5	n-Decane	NA	4.8	108-88-3	Toluene	<EQL	4.8
124-48-1	Dibromochloromethane	<EQL	4.8	120-82-1	1,2,4-Trichlorobenzene	NA	4.8
106-93-4	1,2-Dibromoethane	NA	4.8	71-55-6	1,1,1-Trichloroethane	<EQL	4.8
95-50-1	1,2-Dichlorobenzene	NA	4.8	79-00-5	1,1,2-Trichloroethane	<EQL	4.8
541-73-1	1,3-Dichlorobenzene	NA	4.8	79-01-6	Trichloroethene	<EQL	4.8
106-46-7	1,4-Dichlorobenzene	NA	4.8	75-69-4	Trichlorofluoromethane	NA	4.8
75-71-8	Dichlorodifluoromethane	NA	4.8	96-63-6	1,2,4-Trimethylbenzene	NA	4.8
75-34-3	1,1-Dichloroethane	<EQL	4.8	108-67-8	1,3,5-Trimethylbenzene	NA	4.8
107-06-2	1,2-Dichloroethane	<EQL	4.8	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	4.8
75-35-4	1,1-Dichloroethene	<EQL	4.8	1120-21-4	n-Undecane	NA	4.8
156-59-2	cis-1,2-Dichloroethene	<EQL	4.8	75-01-4	Vinyl chloride	<EQL	4.8
156-60-5	trans-1,2-Dichloroethene	<EQL	4.8	1330-20-7	Xylenes (total)	<EQL	4.8
78-87-5	1,2-Dichloropropane	<EQL	4.8	67-64-1	Acetone	<EQL	24
10061-01-5	cis-1,3-Dichloropropene	<EQL	4.8	78-93-3	2-Butanone	<EQL	24
10061-02-6	trans-1,3-Dichloropropene	<EQL	4.8	591-78-6	2-Hexanone	<EQL	24
76-14-2	1,2-Dichlorotetrafluoroethane	NA	4.8	108-10-1	4-Methyl-2-pentanone	<EQL	24
112-40-3	n-Dodecane	NA	4.8	108-05-4	Vinyl acetate	<EQL	24

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	78	54 - 152
Toluene-d8	104	27 - 175
4-Bromofluorobenzene	91	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister DW33FB/257 Lab No. 09

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/18/96 UNITS ppbv

INITIAL PRESSURE, TORR 25 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 119.686

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	120	100-41-4	Ethylbenzene	<EQL	120
100-44-7	Benzyl chloride	NA	120	142-82-5	n-Heptane	NA	120
75-27-4	Bromodichloromethane	<EQL	120	87-68-3	Hexachlorobutadiene	NA	120
75-25-2	Bromoform	<EQL	120	110-54-3	n-Hexane	NA	120
74-83-9	Bromomethane	<EQL	120	75-09-2	Methylene chloride	<EQL	240
75-15-0	Carbon disulfide	<EQL	120	98-83-9	α-methyl styrene	NA	120
56-23-5	Carbon tetrachloride	<EQL	120	111-84-2	n-Nonane	NA	120
108-90-7	Chlorobenzene	<EQL	120	111-65-9	n-Octane	NA	120
75-45-6	Chlorodifluoromethane	NA	120	109-66-0	n-Pentane	NA	120
75-00-3	Chloroethane	<EQL	120	100-42-5	Styrene	<EQL	120
67-66-3	Chloroform	<EQL	120	630-20-6	1,1,1,2-Tetrachloroethane	NA	120
74-87-3	Chloromethane	<EQL	120	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	120
98-82-8	Cumene	NA	120	127-18-4	Tetrachloroethene	<EQL	120
124-18-5	n-Decane	NA	120	108-88-3	Toluene	<EQL	120
124-48-1	Dibromochloromethane	<EQL	120	120-82-1	1,2,4-Trichlorobenzene	NA	120
106-93-4	1,2-Dibromoethane	NA	120	71-55-6	1,1,1-Trichloroethane	<EQL	120
95-50-1	1,2-Dichlorobenzene	NA	120	79-00-5	1,1,2-Trichloroethane	<EQL	120
541-73-1	1,3-Dichlorobenzene	NA	120	79-01-6	Trichloroethene	<EQL	120
106-46-7	1,4-Dichlorobenzene	NA	120	75-69-4	Trichlorofluoromethane	NA	120
75-71-8	Dichlorodifluoromethane	NA	120	96-63-6	1,2,4-Trimethylbenzene	NA	120
75-34-3	1,1-Dichloroethane	<EQL	120	108-67-8	1,3,5-Trimethylbenzene	NA	120
107-06-2	1,2-Dichloroethane	<EQL	120	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	120
75-35-4	1,1-Dichloroethene	<EQL	120	1120-21-4	n-Undecane	NA	120
156-59-2	cis-1,2-Dichloroethene	<EQL	120	75-01-4	Vinyl chloride	<EQL	120
156-60-5	trans-1,2-Dichloroethene	<EQL	120	1330-20-7	Xylenes (total)	<EQL	120
78-87-5	1,2-Dichloropropane	<EQL	120	67-64-1	Acetone	<EQL	600
10061-01-5	cis-1,3-Dichloropropene	<EQL	120	78-93-3	2-Butanone	<EQL	600
10061-02-6	trans-1,3-Dichloropropene	<EQL	120	591-78-6	2-Hexanone	<EQL	600
76-14-2	1,2-Dichlorotetrafluoroethane	NA	120	108-10-1	4-Methyl-2-pentanone	<EQL	600
112-40-3	n-Dodecane	NA	120	108-05-4	Vinyl acetate	<EQL	600

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	87	54 - 152
Toluene-d8	105	27 - 175
4-Bromofluorobenzene	83	53 - 172

Work Order # 96-01-045 Ross Analytical Services, Inc Reported: 01/23/96

Sample Description Canister UW22FB/606 Lab No. 10

Test Description Canisters or bags by TO-14 Test Code TO_14

DATE RUN 01/18/96 UNITS ppbv

INITIAL PRESSURE, TORR 33 FINAL PRESSURE, TORR 1526 DILUTION FACTOR 92.485

CAS No.	COMPOUND	RESULT	EQL	CAS No.	COMPOUND	RESULT	EQL
71-43-2	Benzene	<EQL	92	100-41-4	Ethylbenzene	<EQL	92
100-44-7	Benzyl chloride	NA	92	142-82-5	n-Heptane	NA	92
75-27-4	Bromodichloromethane	<EQL	92	87-68-3	Hexachlorobutadiene	<EQL	92
75-25-2	Bromoform	<EQL	92	110-54-3	n-Hexane	NA	92
74-83-9	Bromomethane	<EQL	92	75-09-2	Methylene chloride	<EQL	180
75-15-0	Carbon disulfide	<EQL	92	98-83-9	α-methyl styrene	NA	92
56-23-5	Carbon tetrachloride	<EQL	92	111-84-2	n-Nonane	NA	92
108-90-7	Chlorobenzene	<EQL	92	111-65-9	n-Octane	NA	92
75-45-6	Chlorodifluoromethane	NA	92	109-66-0	n-Pentane	NA	92
75-00-3	Chloroethane	<EQL	92	100-42-5	Styrene	<EQL	92
67-66-3	Chloroform	<EQL	92	630-20-6	1,1,1,2-Tetrachloroethane	NA	92
74-87-3	Chloromethane	<EQL	92	79-34-5	1,1,2,2-Tetrachloroethane	<EQL	92
98-82-8	Cumene	NA	92	127-18-4	Tetrachloroethene	<EQL	92
124-18-5	n-Decane	NA	92	108-88-3	Toluene	<EQL	92
124-48-1	Dibromochloromethane	<EQL	92	120-82-1	1,2,4-Trichlorobenzene	NA	92
106-93-4	1,2-Dibromoethane	NA	92	71-55-6	1,1,1-Trichloroethane	<EQL	92
95-50-1	1,2-Dichlorobenzene	NA	92	79-00-5	1,1,2-Trichloroethane	<EQL	92
541-73-1	1,3-Dichlorobenzene	NA	92	79-01-6	Trichloroethene	<EQL	92
106-46-7	1,4-Dichlorobenzene	NA	92	75-69-4	Trichlorofluoromethane	NA	92
75-71-8	Dichlorodifluoromethane	NA	92	96-63-6	1,2,4-Trimethylbenzene	NA	92
75-34-3	1,1-Dichloroethane	<EQL	92	108-67-8	1,3,5-Trimethylbenzene	NA	92
107-06-2	1,2-Dichloroethane	<EQL	92	76-13-1	1,1,2-Trichlorotrifluoroethane	NA	92
75-35-4	1,1-Dichloroethene	<EQL	92	1120-21-4	n-Undecane	NA	92
156-59-2	cis-1,2-Dichloroethene	<EQL	92	75-01-4	Vinyl chloride	<EQL	92
156-60-5	trans-1,2-Dichloroethene	<EQL	92	1330-20-7	Xylenes (total)	<EQL	92
78-87-5	1,2-Dichloropropane	<EQL	92	67-64-1	Acetone	<EQL	460
10061-01-5	cis-1,3-Dichloropropene	<EQL	92	78-93-3	2-Butanone	<EQL	460
10061-02-6	trans-1,3-Dichloropropene	<EQL	92	591-78-6	2-Hexanone	<EQL	460
76-14-2	1,2-Dichlorotetrafluoroethane	NA	92	108-10-1	4-Methyl-2-pentanone	<EQL	460
112-40-3	n-Dodecane	NA	92	108-05-4	Vinyl acetate	<EQL	460

SURROGATE	%RECOVERY	LIMITS
1,2-Dichloroethane-d4	85	54 - 152
Toluene-d8	106	27 - 175
4-Bromofluorobenzene	80	53 - 172

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-01A						
CLIENT ID:	UW28, #274						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	3.964	0.0	8.2	ND
75-01-4	Vinyl Chloride	62.5	1.0	3.964	0.0	10.1	ND
74-83-9	Bromomethane	94.94	1.0	3.964	0.0	15.4	ND
75-00-3	Chloroethane	64.51	1.0	3.964	0.0	10.5	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	3.964	0.0	15.7	ND
75-15-0	Carbon Disulfide	76.13	1.0	3.964	18.6	12.3	57.9
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	3.964	0.0	15.7	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	3.964	0.0	16.0	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	3.964	0.0	15.7	ND
67-66-3	Chloroform	119.38	1.0	3.964	0.0	19.3	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	3.964	0.0	21.6	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	3.964	0.0	24.9	ND
71-43-2	Benzene	78.11	1.0	3.964	0.0	12.7	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	3.964	0.0	16.0	ND
79-01-6	Trichloroethene	131.39	1.0	3.964	0.0	21.3	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	3.964	0.0	18.3	ND
75-27-4	Bromodichloromethane	163.83	1.0	3.964	0.0	26.6	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	3.964	0.0	18.0	ND
108-88-3	Toluene	92.14	1.0	3.964	0.0	14.9	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	3.964	0.0	18.0	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	3.964	0.0	21.6	ND
127-18-4	Tetrachloroethene	165.83	1.0	3.964	0.0	26.9	ND
124-48-1	Dibromochloromethane	208.28	1.0	3.964	0.0	33.8	ND
108-90-7	Chlorobenzene	112.56	1.0	3.964	0.0	18.2	ND
100-41-4	Ethylbenzene	106.17	1.0	3.964	0.0	17.2	ND
1330-20-7	Xylenes (total)	106.17	1.0	3.964	0.0	17.2	ND
100-42-5	Styrene	104.15	1.0	3.964	0.0	16.9	ND
75-25-2	Bromoform	252.73	1.0	3.964	0.0	41.0	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	3.964	0.0	27.2	ND
75-09-2	Methylene Chloride	84.93	2.0	3.964	0.0	27.5	ND
67-64-1	Acetone	58.08	5.0	3.964	158.5	47.1	376.4
108-05-4	Vinyl Acetate	86.09	5.0	3.964	0.0	69.8	ND
78-93-3	2-Butanone	72.11	5.0	3.964	0.0	58.4	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	3.964	0.0	81.2	ND
591-78-6	2-Hexanone	100.16	5.0	3.964	0.0	81.2	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-02A						
CLIENT ID:	DW29, #410						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	3.883	0.0	8.0	ND
75-01-4	Vinyl Chloride	62.5	1.0	3.883	0.0	9.9	ND
74-83-9	Bromomethane	94.94	1.0	3.883	0.0	15.1	ND
75-00-3	Chloroethane	64.51	1.0	3.883	0.0	10.2	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	3.883	0.0	15.4	ND
75-15-0	Carbon Disulfide	76.13	1.0	3.883	0.0	12.1	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	3.883	0.0	15.4	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	3.883	0.0	15.7	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	3.883	0.0	15.4	ND
67-66-3	Chloroform	119.38	1.0	3.883	0.0	19.0	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	3.883	0.0	21.2	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	3.883	0.0	24.4	ND
71-43-2	Benzene	78.11	1.0	3.883	0.0	12.4	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	3.883	0.0	15.7	ND
79-01-6	Trichloroethene	131.39	1.0	3.883	0.0	20.9	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	3.883	0.0	17.9	ND
75-27-4	Bromodichloromethane	163.83	1.0	3.883	0.0	26.0	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	3.883	0.0	17.6	ND
108-88-3	Toluene	92.14	1.0	3.883	0.0	14.6	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	3.883	0.0	17.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	3.883	0.0	21.2	ND
127-18-4	Tetrachloroethene	165.83	1.0	3.883	0.0	26.3	ND
124-48-1	Dibromochloromethane	208.28	1.0	3.883	0.0	33.1	ND
108-90-7	Chlorobenzene	112.56	1.0	3.883	0.0	17.9	ND
100-41-4	Ethylbenzene	106.17	1.0	3.883	0.0	16.9	ND
1330-20-7	Xylenes (total)	106.17	1.0	3.883	18.3	16.9	79.4
100-42-5	Styrene	104.15	1.0	3.883	0.0	16.5	ND
75-25-2	Bromoform	252.73	1.0	3.883	0.0	40.1	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	3.883	0.0	26.6	ND
75-09-2	Methylene Chloride	84.93	2.0	3.883	0.0	27.0	ND
67-64-1	Acetone	58.08	5.0	3.883	0.0	46.1	ND
108-05-4	Vinyl Acetate	86.09	5.0	3.883	0.0	68.3	ND
78-93-3	2-Butanone	72.11	5.0	3.883	0.0	57.2	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	3.883	0.0	79.5	ND
591-78-6	2-Hexanone	100.16	5.0	3.883	0.0	79.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-03A						
CLIENT ID:	DW29CO, #413						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	5.160	0.0	10.7	ND
75-01-4	Vinyl Chloride	62.5	1.0	5.160	0.0	13.2	ND
74-83-9	Bromomethane	94.94	1.0	5.160	0.0	20.0	ND
75-00-3	Chloroethane	64.51	1.0	5.160	0.0	13.6	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	5.160	0.0	20.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	5.160	0.0	16.1	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	5.160	0.0	20.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	5.160	0.0	20.9	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	5.160	0.0	20.5	ND
67-66-3	Chloroform	119.38	1.0	5.160	0.0	25.2	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	5.160	0.0	28.1	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	5.160	0.0	32.4	ND
71-43-2	Benzene	78.11	1.0	5.160	0.0	16.5	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	5.160	0.0	20.9	ND
79-01-6	Trichloroethene	131.39	1.0	5.160	0.0	27.7	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	5.160	0.0	23.8	ND
75-27-4	Bromodichloromethane	163.83	1.0	5.160	0.0	34.6	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	5.160	0.0	23.4	ND
108-88-3	Toluene	92.14	1.0	5.160	0.0	19.4	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	5.160	0.0	23.4	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	5.160	0.0	28.1	ND
127-18-4	Tetrachloroethene	165.83	1.0	5.160	0.0	35.0	ND
124-48-1	Dibromochloromethane	208.28	1.0	5.160	0.0	43.9	ND
108-90-7	Chlorobenzene	112.56	1.0	5.160	0.0	23.7	ND
100-41-4	Ethylbenzene	106.17	1.0	5.160	0.0	22.4	ND
1330-20-7	Xylenes (total)	106.17	1.0	5.160	16.7	22.4	72.5
100-42-5	Styrene	104.15	1.0	5.160	0.0	22.0	ND
75-25-2	Bromoform	252.73	1.0	5.160	0.0	53.3	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	5.160	0.0	35.4	ND
75-09-2	Methylene Chloride	84.93	2.0	5.160	0.0	35.8	ND
67-64-1	Acetone	58.08	5.0	5.160	0.0	61.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	5.160	0.0	90.8	ND
78-93-3	2-Butanone	72.11	5.0	5.160	0.0	76.1	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	5.160	0.0	105.6	ND
591-78-6	2-Hexanone	100.16	5.0	5.160	0.0	105.6	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-04A						
CLIENT ID:	DW30, #575						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.660	0.0	9.6	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.660	0.0	11.9	ND
74-83-9	Bromomethane	94.94	1.0	4.660	0.0	18.1	ND
75-00-3	Chloroethane	64.51	1.0	4.660	0.0	12.3	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.660	0.0	18.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.660	0.0	14.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.660	0.0	18.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.660	0.0	18.9	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.660	0.0	18.5	ND
67-66-3	Chloroform	119.38	1.0	4.660	0.0	22.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.660	0.0	25.4	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.660	0.0	29.3	ND
71-43-2	Benzene	78.11	1.0	4.660	0.0	14.9	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.660	0.0	18.9	ND
79-01-6	Trichloroethene	131.39	1.0	4.660	0.0	25.0	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.660	0.0	21.5	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.660	0.0	31.2	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.660	0.0	21.1	ND
108-88-3	Toluene	92.14	1.0	4.660	0.0	17.6	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.660	0.0	21.1	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.660	0.0	25.4	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.660	0.0	31.6	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.660	0.0	39.7	ND
108-90-7	Chlorobenzene	112.56	1.0	4.660	0.0	21.4	ND
100-41-4	Ethylbenzene	106.17	1.0	4.660	0.0	20.2	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.660	0.0	20.2	ND
100-42-5	Styrene	104.15	1.0	4.660	0.0	19.8	ND
75-25-2	Bromoform	252.73	1.0	4.660	0.0	48.1	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.660	0.0	32.0	ND
75-09-2	Methylene Chloride	84.93	2.0	4.660	0.0	32.4	ND
67-64-1	Acetone	58.08	5.0	4.660	0.0	55.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.660	0.0	82.0	ND
78-93-3	2-Butanone	72.11	5.0	4.660	0.0	68.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.660	0.0	95.4	ND
591-78-6	2-Hexanone	100.16	5.0	4.660	0.0	95.4	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-05A						
CLIENT ID:	UW31, #445						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.042	0.0	8.3	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.042	0.0	10.3	ND
74-83-9	Bromomethane	94.94	1.0	4.042	0.0	15.7	ND
75-00-3	Chloroethane	64.51	1.0	4.042	0.0	10.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.042	0.0	16.0	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.042	0.0	12.6	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.042	0.0	16.0	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.042	0.0	16.4	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.042	0.0	16.0	ND
67-66-3	Chloroform	119.38	1.0	4.042	0.0	19.7	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.042	0.0	22.0	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.042	0.0	25.4	ND
71-43-2	Benzene	78.11	1.0	4.042	0.0	12.9	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.042	0.0	16.4	ND
79-01-6	Trichloroethene	131.39	1.0	4.042	0.0	21.7	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.042	0.0	18.7	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.042	0.0	27.1	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.042	0.0	18.3	ND
108-88-3	Toluene	92.14	1.0	4.042	0.0	15.2	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.042	0.0	18.3	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.042	0.0	22.0	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.042	0.0	27.4	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.042	0.0	34.4	ND
108-90-7	Chlorobenzene	112.56	1.0	4.042	0.0	18.6	ND
100-41-4	Ethylbenzene	106.17	1.0	4.042	0.0	17.5	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.042	0.0	17.5	ND
100-42-5	Styrene	104.15	1.0	4.042	0.0	17.2	ND
75-25-2	Bromoform	252.73	1.0	4.042	0.0	41.8	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.042	0.0	27.7	ND
75-09-2	Methylene Chloride	84.93	2.0	4.042	0.0	28.1	ND
67-64-1	Acetone	58.08	5.0	4.042	0.0	48.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.042	0.0	71.1	ND
78-93-3	2-Butanone	72.11	5.0	4.042	0.0	59.6	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.042	0.0	82.8	ND
591-78-6	2-Hexanone	100.16	5.0	4.042	0.0	82.8	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-06A						
CLIENT ID:	DW32, #291						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	3.984	0.0	8.2	ND
75-01-4	Vinyl Chloride	62.5	1.0	3.984	0.0	10.2	ND
74-83-9	Bromomethane	94.94	1.0	3.984	0.0	15.5	ND
75-00-3	Chloroethane	64.51	1.0	3.984	0.0	10.5	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	3.984	0.0	15.8	ND
75-15-0	Carbon Disulfide	76.13	1.0	3.984	0.0	12.4	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	3.984	0.0	15.8	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	3.984	0.0	16.1	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	3.984	0.0	15.8	ND
67-66-3	Chloroform	119.38	1.0	3.984	0.0	19.4	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	3.984	0.0	21.7	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	3.984	0.0	25.1	ND
71-43-2	Benzene	78.11	1.0	3.984	0.0	12.7	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	3.984	0.0	16.1	ND
79-01-6	Trichloroethene	131.39	1.0	3.984	0.0	21.4	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	3.984	0.0	18.4	ND
75-27-4	Bromodichloromethane	163.83	1.0	3.984	0.0	26.7	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	3.984	0.0	18.1	ND
108-88-3	Toluene	92.14	1.0	3.984	0.0	15.0	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	3.984	0.0	18.1	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	3.984	0.0	21.7	ND
127-18-4	Tetrachloroethene	165.83	1.0	3.984	0.0	27.0	ND
124-48-1	Dibromochloromethane	208.28	1.0	3.984	0.0	33.9	ND
108-90-7	Chlorobenzene	112.56	1.0	3.984	0.0	18.3	ND
100-41-4	Ethylbenzene	106.17	1.0	3.984	0.0	17.3	ND
1330-20-7	Xylenes (total)	106.17	1.0	3.984	0.0	17.3	ND
100-42-5	Styrene	104.15	1.0	3.984	0.0	17.0	ND
75-25-2	Bromoform	252.73	1.0	3.984	0.0	41.2	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	3.984	0.0	27.3	ND
75-09-2	Methylene Chloride	84.93	2.0	3.984	0.0	27.7	ND
67-64-1	Acetone	58.08	5.0	3.984	0.0	47.3	ND
108-05-4	Vinyl Acetate	86.09	5.0	3.984	0.0	70.1	ND
78-93-3	2-Butanone	72.11	5.0	3.984	0.0	58.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	3.984	0.0	81.6	ND
591-78-6	2-Hexanone	100.16	5.0	3.984	0.0	81.6	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-07A						
CLIENT ID:	DW32CO, #134						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.596	0.0	9.5	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.596	0.0	11.7	ND
74-83-9	Bromomethane	94.94	1.0	4.596	0.0	17.8	ND
75-00-3	Chloroethane	64.51	1.0	4.596	0.0	12.1	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.596	0.0	18.2	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.596	0.0	14.3	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.596	0.0	18.2	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.596	0.0	18.6	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.596	0.0	18.2	ND
67-66-3	Chloroform	119.38	1.0	4.596	0.0	22.4	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.596	0.0	25.1	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.596	0.0	28.9	ND
71-43-2	Benzene	78.11	1.0	4.596	0.0	14.7	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.596	0.0	18.6	ND
79-01-6	Trichloroethene	131.39	1.0	4.596	0.0	24.7	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.596	0.0	21.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.596	0.0	30.8	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.596	0.0	20.9	ND
108-88-3	Toluene	92.14	1.0	4.596	0.0	17.3	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.596	0.0	20.9	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.596	0.0	25.1	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.596	0.0	31.2	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.596	0.0	39.1	ND
108-90-7	Chlorobenzene	112.56	1.0	4.596	0.0	21.1	ND
100-41-4	Ethylbenzene	106.17	1.0	4.596	0.0	19.9	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.596	0.0	19.9	ND
100-42-5	Styrene	104.15	1.0	4.596	0.0	19.6	ND
75-25-2	Bromoform	252.73	1.0	4.596	0.0	47.5	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.596	0.0	31.5	ND
75-09-2	Methylene Chloride	84.93	2.0	4.596	0.0	31.9	ND
67-64-1	Acetone	58.08	5.0	4.596	0.0	54.6	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.596	0.0	80.9	ND
78-93-3	2-Butanone	72.11	5.0	4.596	0.0	67.7	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.596	0.0	94.1	ND
591-78-6	2-Hexanone	100.16	5.0	4.596	0.0	94.1	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-08A						
CLIENT ID:	DW33, #346						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	4.814	0.0	9.9	ND
75-01-4	Vinyl Chloride	62.5	1.0	4.814	0.0	12.3	ND
74-83-9	Bromomethane	94.94	1.0	4.814	0.0	18.7	ND
75-00-3	Chloroethane	64.51	1.0	4.814	0.0	12.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	4.814	0.0	19.1	ND
75-15-0	Carbon Disulfide	76.13	1.0	4.814	0.0	15.0	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	4.814	0.0	19.1	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	4.814	0.0	19.5	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	4.814	0.0	19.1	ND
67-66-3	Chloroform	119.38	1.0	4.814	0.0	23.5	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	4.814	0.0	26.3	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	4.814	0.0	30.3	ND
71-43-2	Benzene	78.11	1.0	4.814	0.0	15.4	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	4.814	0.0	19.5	ND
79-01-6	Trichloroethene	131.39	1.0	4.814	0.0	25.9	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	4.814	0.0	22.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	4.814	0.0	32.2	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	4.814	0.0	21.8	ND
108-88-3	Toluene	92.14	1.0	4.814	0.0	18.1	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	4.814	0.0	21.8	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	4.814	0.0	26.3	ND
127-18-4	Tetrachloroethene	165.83	1.0	4.814	0.0	32.6	ND
124-48-1	Dibromochloromethane	208.28	1.0	4.814	0.0	41.0	ND
108-90-7	Chlorobenzene	112.56	1.0	4.814	0.0	22.2	ND
100-41-4	Ethylbenzene	106.17	1.0	4.814	0.0	20.9	ND
1330-20-7	Xylenes (total)	106.17	1.0	4.814	0.0	20.9	ND
100-42-5	Styrene	104.15	1.0	4.814	0.0	20.5	ND
75-25-2	Bromoform	252.73	1.0	4.814	0.0	49.7	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	4.814	0.0	33.0	ND
75-09-2	Methylene Chloride	84.93	2.0	4.814	0.0	33.4	ND
67-64-1	Acetone	58.08	5.0	4.814	0.0	57.2	ND
108-05-4	Vinyl Acetate	86.09	5.0	4.814	0.0	84.7	ND
78-93-3	2-Butanone	72.11	5.0	4.814	0.0	71.0	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	4.814	0.0	98.6	ND
591-78-6	2-Hexanone	100.16	5.0	4.814	0.0	98.6	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-09A						
CLIENT ID:	DW33FB, #257						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	119.686	0.0	247.1	ND
75-01-4	Vinyl Chloride	62.5	1.0	119.686	0.0	305.8	ND
74-83-9	Bromomethane	94.94	1.0	119.686	0.0	464.6	ND
75-00-3	Chloroethane	64.51	1.0	119.686	0.0	315.7	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	119.686	0.0	474.3	ND
75-15-0	Carbon Disulfide	76.13	1.0	119.686	0.0	372.5	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	119.686	0.0	474.3	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	119.686	0.0	484.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	119.686	0.0	474.3	ND
67-66-3	Chloroform	119.38	1.0	119.686	0.0	584.1	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	119.686	0.0	652.7	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	119.686	0.0	752.7	ND
71-43-2	Benzene	78.11	1.0	119.686	0.0	382.2	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	119.686	0.0	484.2	ND
79-01-6	Trichloroethene	131.39	1.0	119.686	0.0	642.9	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	119.686	0.0	552.9	ND
75-27-4	Bromodichloromethane	163.83	1.0	119.686	0.0	801.6	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	119.686	0.0	543.0	ND
108-88-3	Toluene	92.14	1.0	119.686	0.0	450.9	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	119.686	0.0	543.0	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	119.686	0.0	652.7	ND
127-18-4	Tetrachloroethene	165.83	1.0	119.686	0.0	811.4	ND
124-48-1	Dibromochloromethane	208.28	1.0	119.686	0.0	1019.1	ND
108-90-7	Chlorobenzene	112.56	1.0	119.686	0.0	550.8	ND
100-41-4	Ethylbenzene	106.17	1.0	119.686	0.0	519.5	ND
1330-20-7	Xylenes (total)	106.17	1.0	119.686	0.0	519.5	ND
100-42-5	Styrene	104.15	1.0	119.686	0.0	509.6	ND
75-25-2	Bromoform	252.73	1.0	119.686	0.0	1236.6	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	119.686	0.0	821.3	ND
75-09-2	Methylene Chloride	84.93	2.0	119.686	0.0	831.1	ND
67-64-1	Acetone	58.08	5.0	119.686	0.0	1421.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	119.686	0.0	2106.2	ND
78-93-3	2-Butanone	72.11	5.0	119.686	0.0	1764.2	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	119.686	0.0	2450.5	ND
591-78-6	2-Hexanone	100.16	5.0	119.686	0.0	2450.5	ND

ROSS Analytical Services, Inc. - TO-14 Analysis

LAB ID:	96-01-045-10A						
CLIENT ID:	DW22FB, #606						
CAS NUMBER	ANALYTE	FW (G/MOL)	EQL PPB	DIL. FACT.	PPB(V/V)	EQL UG/M3	RESULT UG/M3
74-87-3	Chloromethane	50.49	1.0	92.485	0.0	190.9	ND
75-01-4	Vinyl Chloride	62.5	1.0	92.485	0.0	236.3	ND
74-83-9	Bromomethane	94.94	1.0	92.485	0.0	359.0	ND
75-00-3	Chloroethane	64.51	1.0	92.485	0.0	243.9	ND
75-35-4	1,1-Dichloroethene	96.94	1.0	92.485	0.0	366.5	ND
75-15-0	Carbon Disulfide	76.13	1.0	92.485	0.0	287.9	ND
156-60-5	trans-1,2-Dichloroethene	96.94	1.0	92.485	0.0	366.5	ND
107-06-2	1,1-Dichloroethane	98.96	1.0	92.485	0.0	374.2	ND
156-59-2	cis-1,2-Dichloroethene	96.94	1.0	92.485	0.0	366.5	ND
67-66-3	Chloroform	119.38	1.0	92.485	0.0	451.4	ND
71-55-6	1,1,1-Trichloroethane	133.4	1.0	92.485	0.0	504.4	ND
56-23-5	Carbon Tetrachloride	153.82	1.0	92.485	0.0	581.6	ND
71-43-2	Benzene	78.11	1.0	92.485	0.0	295.3	ND
75-34-3	1,2-Dichloroethane	98.96	1.0	92.485	0.0	374.2	ND
79-01-6	Trichloroethene	131.39	1.0	92.485	0.0	496.8	ND
78-87-5	1,2-Dichloropropane	112.99	1.0	92.485	0.0	427.2	ND
75-27-4	Bromodichloromethane	163.83	1.0	92.485	0.0	619.5	ND
10061-01-5	cis-1,3-Dichloropropene	110.97	1.0	92.485	0.0	419.6	ND
108-88-3	Toluene	92.14	1.0	92.485	0.0	348.4	ND
10061-02-6	trans-1,3-Dichloropropene	110.97	1.0	92.485	0.0	419.6	ND
79-00-5	1,1,2-Trichloroethane	133.4	1.0	92.485	0.0	504.4	ND
127-18-4	Tetrachloroethene	165.83	1.0	92.485	0.0	627.0	ND
124-48-1	Dibromochloromethane	208.28	1.0	92.485	0.0	787.5	ND
108-90-7	Chlorobenzene	112.56	1.0	92.485	0.0	425.6	ND
100-41-4	Ethylbenzene	106.17	1.0	92.485	0.0	401.4	ND
1330-20-7	Xylenes (total)	106.17	1.0	92.485	0.0	401.4	ND
100-42-5	Styrene	104.15	1.0	92.485	0.0	393.8	ND
75-25-2	Bromoform	252.73	1.0	92.485	0.0	955.6	ND
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.0	92.485	0.0	634.7	ND
75-09-2	Methylene Chloride	84.93	2.0	92.485	0.0	642.3	ND
67-64-1	Acetone	58.08	5.0	92.485	0.0	1098.0	ND
108-05-4	Vinyl Acetate	86.09	5.0	92.485	0.0	1627.6	ND
78-93-3	2-Butanone	72.11	5.0	92.485	0.0	1363.3	ND
108-10-1	4-Methyl-2-Pentanone	100.16	5.0	92.485	0.0	1893.6	ND
591-78-6	2-Hexanone	100.16	5.0	92.485	0.0	1893.6	ND

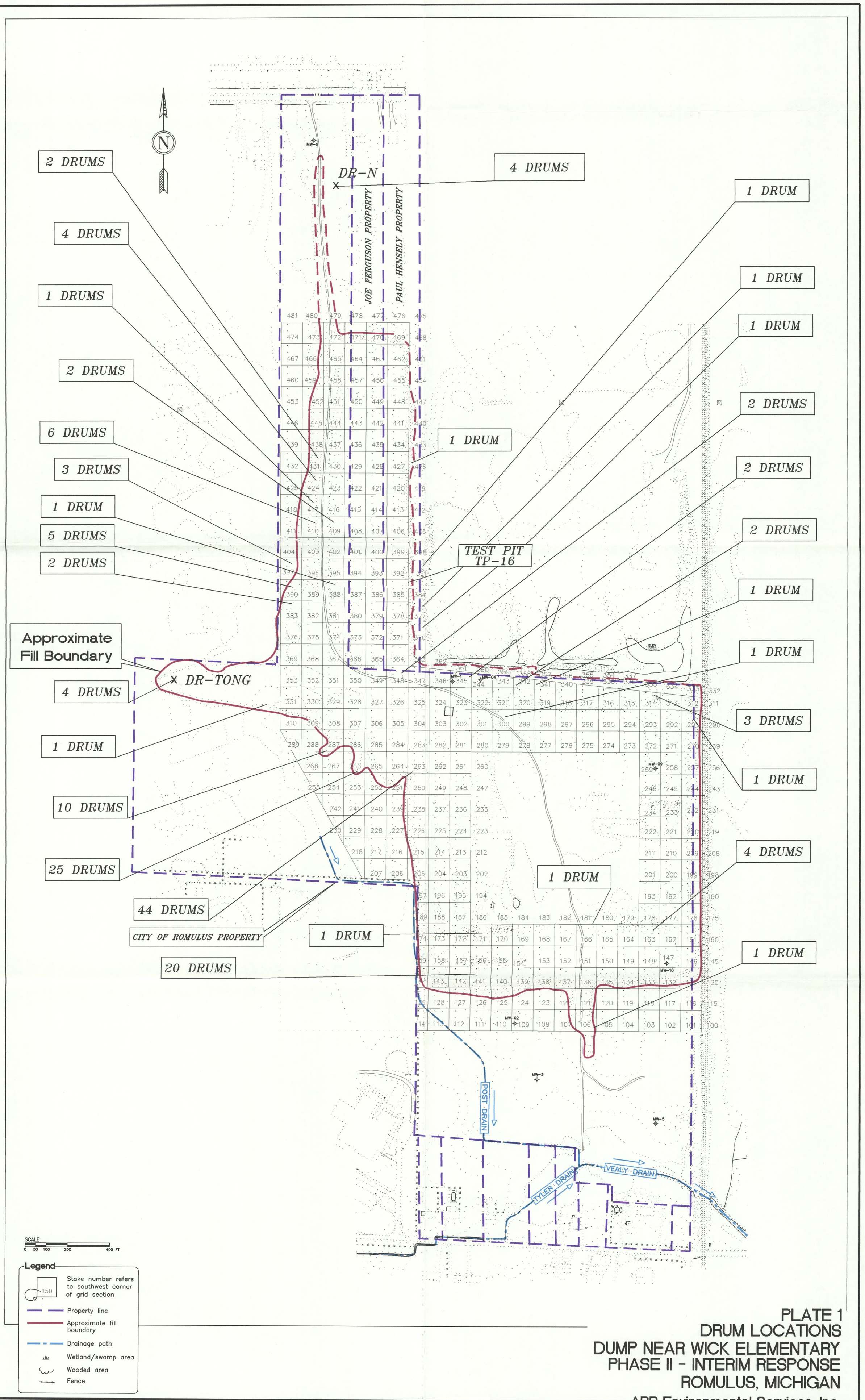


PLATE 1
DRUM LOCATIONS
DUMP NEAR WICK ELEMENTARY
PHASE II - INTERIM RESPONSE
ROMULUS, MICHIGAN

ABB Environmental Services, Inc.

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