34

Report

Off-Site Residential Well Inventory and Sampling Program

Mechanics Valley Trade Center
North East, Maryland

Porter, Wright, Morris
Columbus, Ohio

October 1988

O'BRIEN & GERE

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REPORT

OFF-SITE RESIDENTIAL WELL INVENTORY AND SAMPLING PROGRAM
MECHANICS VALLEY TRADE CENTER
NORTH EAST, MARYLAND

PORTER, WRIGHT, MORRIS & ARTHUR

COLUMBUS, OHIO

OCTOBER, 1988

O'BRIEN & GERE ENGINEERS, INC.
1304 BUCKLEY ROAD
SYRACUSE, NEW YORK 13112

AR100536

TABLE OF CONTENTS

	Page
SECTION 1 - INTRODUCTION	
1.01 General Description and History	1
SECTION 2 - FIELD INVESTIGATION	
2.01 Introduction	3
2.02 Work Tasks	3
2.02.1 Task 1 - Community Relations	3
2.02.2 Task 2 - Well Inventory and Sanitary Survey	4
2.02.3 Task 3 - Well Sampling and Analysis	4
SECTION 3 - INVENTORY AND SAMPLING RESULTS	
3.01 Well Inventory	5
3.02 Sanitary Survey	5
3.03 Sampling Results	5
3.04 Recommendations	6
TABLES	
1 Off-Site Residential Well Data	
2 Off-Site Residential Well Analytical Data	
FIGURES	
1 Site Location Map	
2 Off-Site Residence Location Map	
3 Concentration of Volatile Organics	
APPENDICES	
A Letter from USEPA	
B Residential Well Sampling Protocol	
C Analytical Data	
D Off-Site Residential Well Analytical Data Compiled by the Maryland Department of the Environment	

SECTION 1 - INTRODUCTION

1.01 General Description and History

The Mechanics Valley Trade Center (MVTC), formerly the Ordnance Products Inc. (OPI) site, is located in Cecil County at 1079 Mechanics Valley Road, approximately two miles northeast of the City of North East, Maryland. Figure 1 illustrates the location of the site with respect to local physical and cultural features. The site encompasses approximately 95 acres of wooded and open terrain. Situated on-site are 58 separate buildings, together with some trailers, and house trailers. Intermittent and perennial ponds and streams, as well as disposal/burn pits are also present within the site.

OPI purchased the site in 1960 to manufacture, pack and store ordnance and ordnance products. In 1969, KDI Corporation acquired OPI and continued site operations until 1973. There were no operations on the site from 1973 to 1986, when the property was sold to Mechanics Valley Trade Center, Incorporated, the current owner of the site.

The results of previous studies conducted at and around the site by the Maryland Department of the Environment (MDE), which revealed the presence of organic compounds in the environment, have been confirmed by a site assessment conducted on March 28, 1988, by the United States Environmental Protection Agency (USEPA) Region III's Office of Emergency Response. These studies involved an inspection of the site grounds and buildings for hazardous materials. Additionally sampling and analysis of on-site soils and surface water, and ground water from potable supply wells on and surrounding the site was performed. The investigations concluded that three off-site residental

supply wells had been effected with organic compounds that are associated with the MVTC site.

In June, 1988, the United States Environmental Protection Agency (USEPA), issued an Administrative Order to KDI Corporation. The order required that an off-site residential well inventorying and sampling program be completed (Article 8 paragraph F). Pursuant to this requirement O'Brien & Gere Engineers, on behalf of Porter, Wright, Morris and Aurther, counsel for KDI Corporation, developed a Work Plan for the efforts required as part off-site homeowner well investigations. The Work Plan was transmitted to USEPA Region III on July 21, 1988 and subsequently approved in correspondence from Mr. Christopher Thomas, USEPA Region III to Christopher Schraff, Esq. of Porter, Wright, Morris and Aurther. This document presents the results of the approved inventorying and sampling program.

AR100539

SECTION 2 - FIELD INVESTIGATION

2.01 Introduction

The Work Plan for the Off-Site Residential Well Inventory and Sampling Program called for the completion of six specific work tasks. These work tasks included;

1. Community Relations
2. Well Inventory and Sanitary Survey
3. Well Sampling and Analysis
4. Data Reporting
5. Well Treatment System Installation
6. Residential Supply Well Monitoring

To date, Tasks 1 through 3 have been completed. This report is submitted in completion of Task 4. Tasks 5 and 6 will be completed following the approval of this report.

2.02 Work Tasks

2.02.1 Task 1 - Community Relations

A letter drafted by USEPA Region III was both mailed and hand delivered by the O'Brien & Gere sampling team to area residences located within a one-half mile radius of the site. A copy of the letter is provided in Appendix A. A list of residential wells sampled is provided in Table 1; their locations are illustrated on Figure 2.

AR100540

2.02.2 Task 2 - Well Inventory and Sanitary Survey

Each residence was interviewed for information regarding their water well. More specifically residences were questioned as to well construction, depth to ground water, yield, and use of their supply well. A sanitary survey was also completed to develop information with regard to their septic system locations and construction.

2.02.3 Task 3 - Well Sampling and Analysis

Following completion of the well inventory and sanitary survey, ground water samples were collected from the residental well locations indicated on Table 1 and illustrated on Figure 2. Samples were collected in accordance with the approved residential well sampling protocol described in Appendix B. One in ten (10%) of the samples collected from the residental wells were collected in duplicate for quality assurance/quality control (QA/QC) purposes. The handling and shipping of samples was consistent with USEPA recommended procedures.

The collected residental well water samples were analyzed for volatile organic compounds using USEPA Methods 601 and 602. The detection limit of the analysis was 1 part per billion (ppb). The QA/QC for all laboratory analyses was consistent with that mandated by the prescribed USEPA analytical method.

AR100541

SECTION 3 - INVENTORY AND SAMPLING RESULTS

3.01 Well Inventory

All of the 53 residences surveyed were supplied by a private ground water supply consisting of a drilled or dug well or a spring (Table 1). Of those individuals who knew about their water supply, 3 sites were reported to be served by a spring, 12 by a dug well, and the remainder (30) were reportedly served by a drilled well. Less than half of the respondents identified the source of their water and of those all but one indicated that their ground water source was bedrock. Well yields between approximately 3 and 30 gallons per minute were reported.

3.02 Sanitary Survey

Of the 52 residences surveyed, 50 responded that their dwelling used a septic system or dry well for sanitary waste water disposal. One residence did not know how their waste water was handled. The only well inventoried, not associated with a structure serviced by a septic system, was the Murry residences barn at 277 Stevenson Road. A majority of residences were not aware of the location of their waste water disposal system relative to their well location.

3.03 Sampling Results

Water quality analysis results are summarized on Table 2. The locations of where detectable concentrations of volatile organics were identified are illustrated on Figure 3.

AR100542

Of the 52 wells sampled, 47 did not detect concentrations of volatile organics. These well samples that did contain detectable concentrations of VOC's were:

1. Site #1/Truitt residence
2. Site #14/Mechanics Valley Trade Center trailer
3. Site #45/Heath residence
4. Site #46/Romanek residence
5. Site #48/Hill residence

Of these locations, only sites #14, 46 and 48 contain concentrations in excess of drinking water maximum concentration limits. It is noteworthy that the sample from the Kamerman residence (site 47), where previous samplings have indicated concentrations of trichloroethene of between three and five parts per billion (ppb), did not detect this or any other VOC during this sampling.

Currently, three off-site residential wells are equipped with treatment systems for remaining VOC's. These systems were previously installed by KDI Corporation and are present at Site #46/Romanek, Site #47/Kamerman and Site #48/Hill residences.

3.04 Recommendations

The following recommendations with the July 21, 1988 Off-Site Residential Well Inventory and Sampling Program Work Plan. The recommendations comprise the installation and monitoring of treatment system and the verification of the analytical results presented in this report.

Sites #14, #46, and #48 are the only sites where contaminants were identified which exceeded the limits established by the USEPA. Site #14

AR100543

is a part of the Mechanics Valley Trade Center and the water supply for that site is reportedly being treated and managed by the owner. Sites #46 and #48 currently are reported to have treatment systems on line for their water supplies. In addition, Site #47 also has a treatment system.

It is recommended that the treatment systems at Sites #46, #47, and #48 be inspected to document that the systems meet the requirements identified in item H of the Administrative Order. Maintenance of these treatment systems should be provided. It is also recommended that sampling be initiated at the midpoint and at the tap of these treatment systems for volatile organic compounds identifiable using EPA Method 601. Sampling should be conducted weekly for a period of one month. Subsequent to the weekly sampling, sampling should be conducted at the midpoint every six weeks and at the water supply source quarterly.

The second area of recommendations involves the verification of data and monitoring of sites not currently subject to treatment. Site #53 had detectable concentrations of volatile organics in samples collected by the MDE, but volatile organics were not detected in the sample collected by O'Brien & Gere. The Site #45 sample collected by O'Brien & Gere detected volatile organics while previous samples analyzed by the MDE did not detect contaminants. These two sites should be resampled to verify previous results. In addition it is recommended that those residental wells where volatile organics were previously detected by O'Brien & Gere or MDE (Sites #1, #45, and #53) should be sampled quarterly and analyzed for those parameters identified using EPA Method 601.

These recommendations are consistent with the requirements of the Administrative Order and will provide the necessary monitoring and treatment of off-site residential water supplies.

Tables

O'BRIEN & GERE

TABLE 1

MECHANICS VALLEY TRADE CENTER
NORTHEAST, MARYLAND

OFF-SITE RESIDENTIAL WELL DATA

Site No.	Name	Address	Type Well	Well Depth	Ground Water Source	Depth to Bedrock	Septic System
1	Truitt	411 Stevenson Road	Drilled	135	Bedrock	25	yes
2	Hall	421 Stevenson Road	Dug	30	Sediments	30	yes
3	Goodchild	440 Stevenson Road	----	---	------	--	---
4	Zdrojewski	1183 Mechanics Valley Road	Drilled	148	Bedrock	1	yes
5	Drummund	385 Stevenson Road	Drilled	60	Bedrock	--	yes
6	Martin	32 Azure Lane	Drilled	98	Bedrock	18	yes
7	Martin (Apartment)	32 Azure Lane	Drilled	200	Bedrock	--	yes
8	Pallet	304 Stevenson Road	Drilled	250	Bedrock	--	yes
9	Bender	300 Stevenson Road	Drilled	84	Bedrock	--	yes
10	Roop	290 Stevenson Road	Drilled	87	Bedrock	--	yes
11	Murry	277 Stevenson Road	Drilled	---	Bedrock	--	yes
12	Murry (Barn)	277 Stevenson Road	----	---	-----	--	no
13	Holley	238 Stevenson Road	----	---	------	--	---
14	MVTC (trailer)	Mechanics Valley Road	----	---	------	--	---
15	Clausius	151 Stevenson Road	Drilled	40	------	--	yes
16	Cannon	284 Bouchelle Road	Drilled	42	Bedrock	--	yes
17	Barrow	272 Bouchelle Road	Drilled	---	Bedrock	--	yes
18 & 19	Ferguson	252 & 231 Bouchelle Road	Drilled	126	Bedrock	--	yes
20	Perry	230 Bouchelle Road	Drilled	77	Bedrock	--	yes
21	C. Combs	218 Bouchelle Road	Drilled	70	Bedrock	--	yes
22	Stenti	200 Bouchelle Road	Drilled	65	------	--	yes
23	Bell	196 Bouchelle Road	Drilled	100	Bedrock	30	yes
24	E. Combs	184 Bouchelle Road	----	---	------	--	---
25	Blizzard	176 Bouchelle Road	Drilled	200-300	Bedrock	--	yes
26	Reynolds	152 Bouchelle Road	Drilled	80	------	--	yes
27	Ferguson	145 Bouchelle Road	Drilled	176	------	--	yes
28	T. Welch	140 Bouchelle Road	Drilled	75	Bedrock	25	yes
29	Welch	116 Bouchelle Road	Dug	60	------	--	yes
30	T. Welch	Bouchelle Road	Drilled	--	------	--	---
31	Zionkowski	89 Bouchelle Road	Drilled	30	------	--	yes
32	Corder	65 Bouchelle Road	Drilled	105	Bedrock	--	yes

AR100547

TABLE 1

MECHANICS VALLEY TRADE CENTER
NORTHEAST, MARYLAND

OFF-SITE RESIDENTIAL WELL DATA
(Continued)

Site No.	Name	Address	Type Well	Well Depth	Ground Water Source	Depth to Bedrock	Septic System
33	Edwards	80 Bouchelle Road	Dug	---	------	--	yes
34	Sharpless	57 Bouchelle Road	Drilled	127	Bedrock	--	yes
35	Taylor	64 Bouchelle Road	Drilled	90	Bedrock	--	yes
36	A. Bouchelle	48 Bouchelle Road	Dug	---	-----	--	yes
37	J. Bouchelle	Bouchelle Road	Dug/Spring	33	Bedrock	--	yes
38	R. Bouchelle	51 Bouchelle Road	Dug	53	Bedrock	--	yes
39	Roberts	898 Mechanics Valley Road	Dug	--	------	--	yes
40	Bibbs	906 Mechanics Valley Road	Dug	18	-----	--	yes
41	Phillips	918 Mechanics Valley Road	Dug	---	------	--	yes
42	Whited	931 Mechanics Valley Road	Drilled	74	------	--	yes
43	Skinner	934 Mechanics Valley Road	Drilled/Dug	---	------	--	yes
44	Blevins	952 Mechanics Valley Road	Drilled	95	------	--	yes
45	Heath	Mechanics Valley Road	----	---	------	--	---
46	Romanek	1136 Mechanics Valley Road	Dug	---	------	--	yes
47	Kamerman	Mechanics Valley Road	----	---	------	--	yes
48	Hill	1168 Mechanics Valley Road	Drilled/Dug	100	Bedrock	20	yes
49	G. Bouchelle	17 Bouchelle Road	Spring	---	------	--	yes
50	May	103 Trussel Lane	Spring	4	------	--	yes
51	Dean	51 Deans Lane	Dug	20	Bedrock	--	yes
52	Smith	Deans Lane	----	110	------	--	yes
53	Overton	10 Deans Lane	Dug	15-20	------	--	yes

AR100548

TABLE 2

MECHANICS VALLEY TRADE CENTER
NORTHEAST, MARYLAND

OFF-SITE RESIDENTIAL WELL ANALYTICAL DATA

Site No.	Name	Address	Compounds (ppb)
1	Truitt	411 Stevenson Road	Trichloroethene 2.0
2	Hall	421 Stevenson Road	N/D
3	Goodchild	440 Stevenson Road	N/D
4	Zdrojewski	1183 Mechanics Valley Road	N/D
5	Drummund	385 Stevenson Road	N/D
6	Martin	32 Azure Lane	N/D
7	Martin (Apartment)	32 Azure Lane	N/D
8	Pallet	304 Stevenson Road	N/D
9	Bender	300 Stevenson Road	N/D
10	Roop	290 Stevenson Road	N/D
11	Murry	277 Stevenson Road	N/D
12	Murry (Barn)	277 Stevenson Road	N/D
13	Holley	238 Stevenson Road	N/D
14*	MVTC (trailer)	Mechanics Valley Road	Trichloroethene 130.0; t-1,2-Dichloroethene 200.0; 1,1-Dichloroethene 2.0; Vinyl Chloride 90.0; Tetrachloroethene 68.0
15	Clausius	151 Stevenson Road	N/D
16	Cannon	284 Bouchelle Road	N/D
17	Barrow	272 Bouchelle Road	N/D
18 & 19	Ferguson	252 & 231 Bouchelle Road	N/D
20	Perry	230 Bouchelle Road	N/D
21	C. Combs	218 Bouchelle Road	N/D
22	Stenti	200 Bouchelle Road	N/D
23	Bell	196 Bouchelle Road	N/D
24	E. Combs	184 Bouchelle Road	N/D
25	Blizzard	176 Bouchelle Road	N/D
26	Reynolds	152 Bouchelle Road	N/D
27	Ferguson	145 Bouchelle Road	N/D
28	T. Welch	140 Bouchelle Road	N/D
29	Welch	116 Bouchelle Road	N/D
30	T. Welch	Bouchelle Road	N/D
31	Zionkowski	89 Bouchelle Road	N/D
32	Corder	65 Bouchelle Road	N/D
33	Edwards	80 Bouchelle Road	N/D

AR100549

TABLE 2

MECHANICS VALLEY TRADE CENTER
NORTHEAST, MARYLAND

OFF-SITE RESIDENTIAL WELL ANALYTICAL DATA
(Continued)

Site No.		Name	Address	Compounds (ppb)
34		Sharpless	57 Bouchelle Road	N/D
35		Taylor	64 Bouchelle Road	N/D
36		A. Bouchelle	48 Bouchelle Road	N/D
37		J. Bouchelle	Bouchelle Road	N/D
38		R. Bouchelle	51 Bouchelle Road	N/D
39		Roberts	898 Mechanics Valley Road	N/D
40		Bibbs	906 Mechanics Valley Road	N/D
41		Phillips	918 Mechanics Valley Road	N/D
42		Whited	931 Mechanics Valley Road	N/D
43		Skinner	934 Mechanics Valley Road	N/D
44		Blevins	952 Mechanics Valley Road	N/D
45		Heath	Mechanics Valley Road	Trichloroethene 1.0
46	(T)	Romanek	1136 Mechanics Valley Road	Trichloroethene 10.0
47	(T)	Kamerman	Mechanics Valley Road	N/D
48	(T)	Hill	1168 Mechanics Valley Road	Trichloroethene 46.0 / t-1,2-Dichloroethene 7.0
49		G. Bouchelle	17 Bouchelle Road	N/D
50		May	103 Trussel Lane	N/D
51		Dean	51 Deans Lane	N/D
52		Smith	Deans Lane	N/D
53		Overton	10 Deans Lane	N/D

Notes:

* Well sampled by Maryland Department of Environment

** Residence 18 and 19 serviced by the same well; well is located at home 19

N/D Below detected limit

(T) equipped with treatment system

Figures

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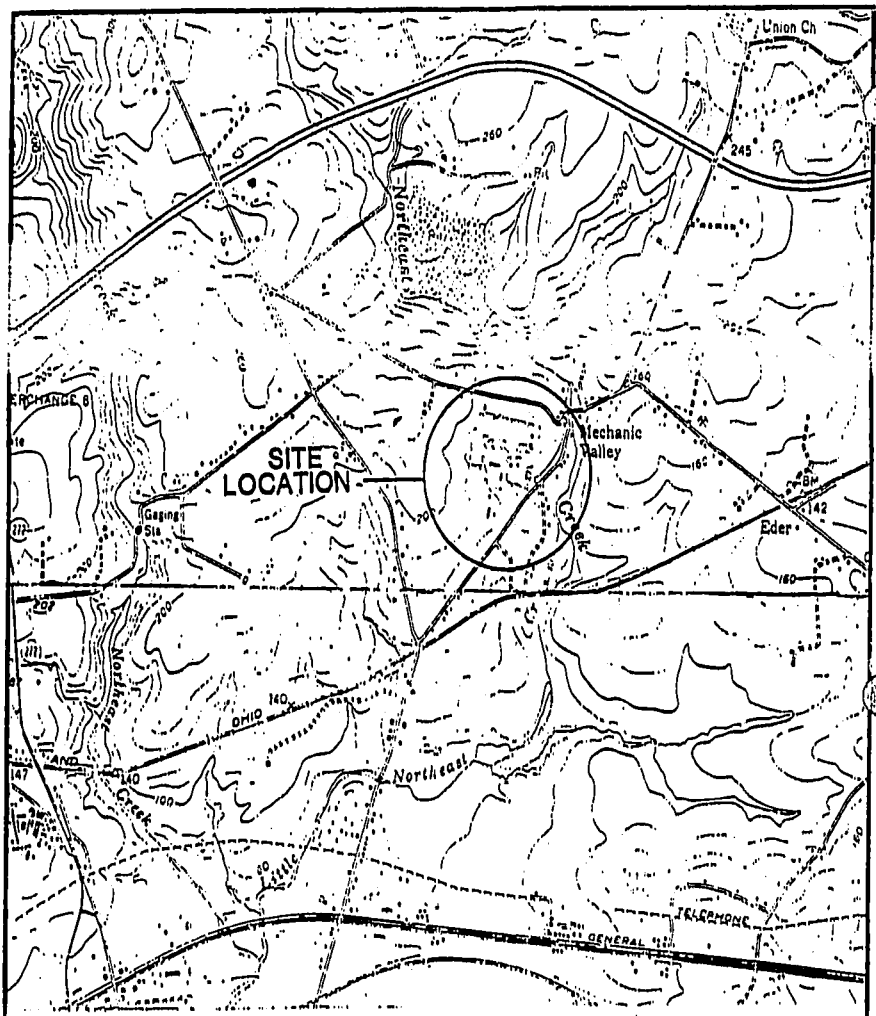
FIGURE 1



MECHANICS VALLEY TRADE CENTER

NORTH EAST, MARYLAND

SITE LOCATION MAP

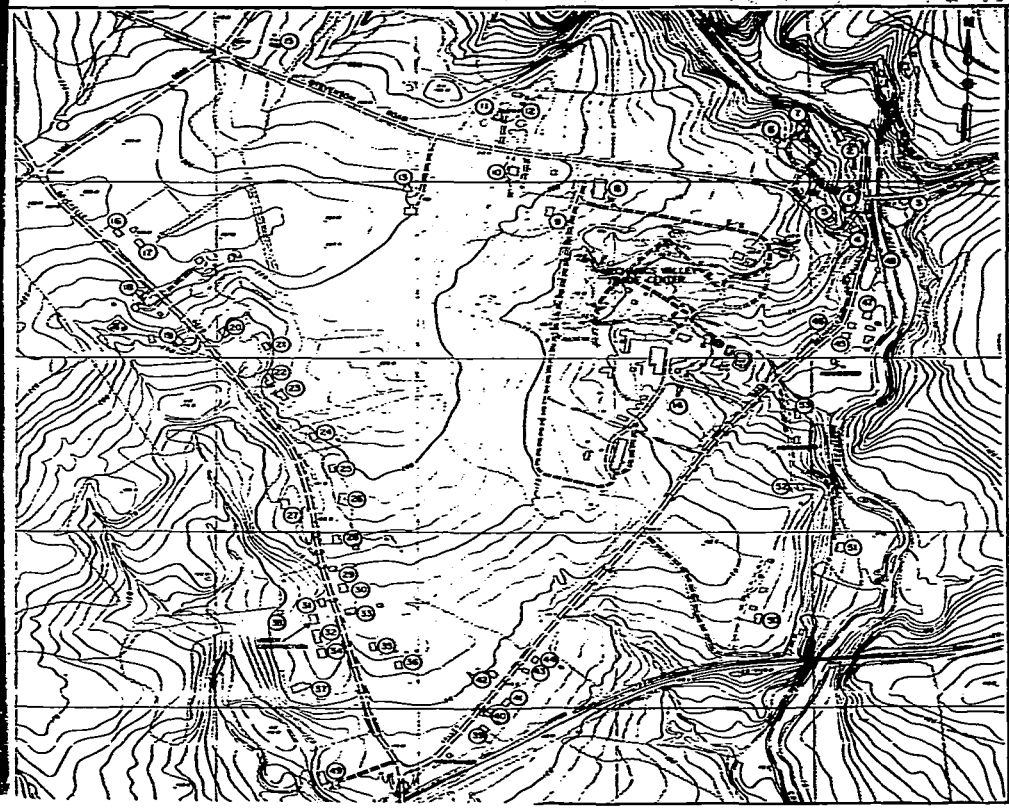
SCALE:

2000 0 2000 4000

1 IN. = 2000 FT.

NOTE: ADAPTED FROM NORTH EAST, MD. AND BAY VIEW, MD.-PA. 7.5 MINUTE U.S.G.S. TOPOGRAPHIC MAPS.

FIGURE 2



OFF - SITE RESIDENTIAL WELL LOCATION MAP

MECHANICS VALLEY TRADE CENTER

LEGEND

RESIDENTIAL WELL SITE

SCALE

O'BRIEN & GERE

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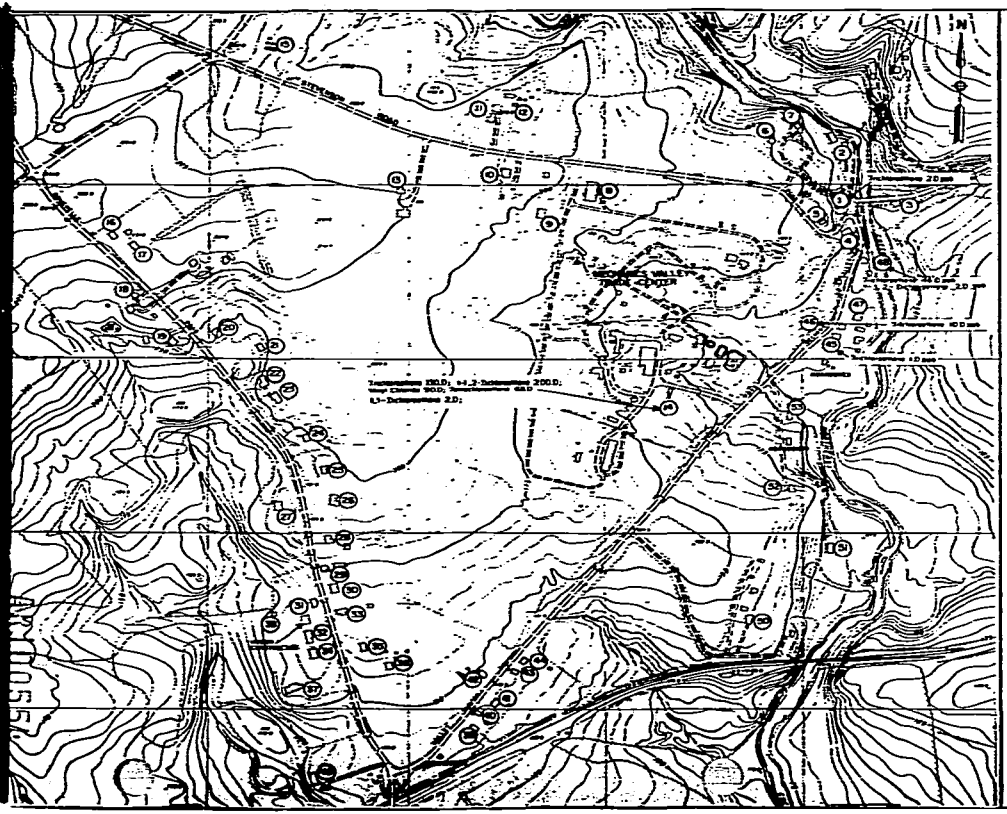
FIGURE 3



CONCENTRATION OF VOLATILE ORGANICS

MECHANICS VALLEY TRADE CENTER

LEGEND

REDIGENTIAL WELL SITE

SCALE

O'BRIEN & GERE

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Appendices

APPENDIX A

LETTER FROM USEPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

In Reply Refer to: 3HW14

Re: Ordnance Products Site

Dear Sirs:

The U.S. Environmental Protection Agency recently issued an Administrative Order to KDI, Corporation to sample all residential drinking water wells in the vicinity of the Ordnance Products Site on Mechanics Valley Road in North East, Maryland.

O'Brien & Gere, the consultant retained by KDI, Corporation to carry out the requirement of the EPA enforcement action, will be sampling residential wells in the vicinity of the Ordnance Products site within the next 30 days. The purpose of the sampling is to determine whether contamination form the Ordnance Products Site has impacted residential drinking water wells in the area surrounding the site.

You will be contacted within approximately one week of receiving this letter by representatives of O'Brien & Gere who will perform well inspections and well sampling. EPA recommends that you provide O'Brien & Gere with any assistance or information that they may require in order for them to effectively carryout the terms of the Administrative Order. I must emphasize that your cooperation is important in this matter. We sincerely hope that you will not be too inconvenienced by this matter.

363

Should you have any problems, concerns, or questions please feel free to contact me at 215/597-4458. The Maryland Department of the Environment will assist EPA in monitoring the sampling activities of O'Brien & Gere. Residents will be given copies of the sampling results as they become available. Sampling will be repeated if necessary.

Sincerely,

Christopher P. Thomas

Christopher P. Thomas, Environmental Engineer
CERCLA Removal Enforcement Section

364

APPENDIX B

RESIDENTIAL WELL SAMPLING PROTOCOL

APPENDIX B

RESIDENTIAL WELL SAMPLING PROTOCOL

Locate the water tap closest to the well head. If there is treatment equipment on the water system, the sample will be collected before the treatment system is possible.

When sampling from a water tap (faucet), turn on water and allow the system to flush. After flushing, reduce water flow and collect sample from the gently flowing stream.

Specific Sampling Procedures

a. Turn on water and allow the system to flush for 5 minutes, unless field conditions indicate a different time would be appropriate.

b. Reduce the water flow.

c. Tilt the sample bottle and collect the sample from the gently flowing stream.

d. Preserve the sample for the analyses to be done.

e. Record all pertinent information on a Chain of Custody form. Check to see that information on the sample container is identical with information on Chain of Custody form.

f. Store sample in an insulated ice cooler at 4°C for shipment to laboratory.

APPENDIX C

ANALYTICAL DATA

OBG LABORATORIES, INC.

Purgeable Priority Pollutants

367

CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-9-88 DATE REC'D. 8-10-88 DATE ANALYZED 8-14-88

DESCRIPTION:	#1 Truitt	#2 Hall	#3 Goodchild	#4 Zdrojewski	#4 Zdrojewski	#5 Drummond
SAMPLE NO.:	H3520	H3521	H3522	H3523	H3524	H3525
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	2.	↓	↓	↓	↓	↓
Benzene	<1.	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 11, 1988

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

OBG LABORATORIES, INC.

Purgeable Priority Pollutants

CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-9-88 DATE REC'D. 8-10-88 DATE ANALYZED 8-14-88

DESCRIPTION:	#6 Martin	#7 Martin Apt	#8 Polo Pallet	#9 Bender	#10 Roop	#11 Murray House
SAMPLE NO.:	H3526	H3527	H3528	H3529	H3530	H3531
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [illegible]

Date: September 1, 1988

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Purgeable Priority Pollutants

CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-9-88 DATE REC'D. 8-10-88 DATE ANALYZED 8-13-88

DESCRIPTION:	#12 Murray Barn	#13 Holley				
SAMPLE NO.:	H3832	H3833				
Chloromethane	<1.	<1.				
Bromomethane						
Vinyl chloride						
Chloroethane						
Methylene chloride						
1,1-Dichloroethene						
1,1-Dichloroethane						
t-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Carbon tetrachloride						
Bromodichloromethane						
1,2-Dichloropropane						
t-1,3-Dichloropropene						
Trichloroethene						
Benzene						
Dibromochloromethane						
1,1,2-Trichloroethane						
c-1,3-Dichloropropene						
2-Chloroethylvinyl ether	<10.	<10.				
Bromoform	<10.	<10.				
1,1,2,2-Tetrachloroethane	<1.	<1.				
Tetrachloroethene						
Toluene						
Chlorobenzene						
Ethylbenzene						
Xylenes						

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 12, 1988

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Purgeable Priority Pollutants

370

CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-10-88 DATE REC'D. 8-11-88 DATE ANALYZED 8-15-88

DESCRIPTION:	#14 MVTC Site	#15 Clausius	#16 Cannon	#17 Barrow	#20 Perry	#24 Comos
SAMPLE NO.:	H3614	H3615	H3616	H3617	H3618	H3619
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	90.					
Chloroethane	<1.					
Methylene chloride	↓					
1,1-Dichloroethene	2.					
1,1-Dichloroethane	<1.					
t-1,2-Dichloroethene	200.					
Chloroform	<10.					
1,2-Dichloroethane	<1.					
1,1,1-Trichloroethane	↓					
Carbon tetrachloride	↓					
Bromodichloromethane	↓					
1,2-Dichloropropane	<10.					
t-1,3-Dichloropropene	↓					
Trichloroethene	130.					
Benzene	<1.					
Dibromochloromethane	<10.					
1,1,2-Trichloroethane	↓					
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	↓	<10.	<10.	<10.	<10.	<10.
Bromoform	↓	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	68.	↓	↓	↓	↓	↓
Toluene	<1.	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

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CLIENT: PORTER, WRIGHT, MORRIS & ARTHUR — JOB NO. 4057.002.517

DESCRIPTION: Mechanics Valley Trade Center

DATE COLLECTED: 8-10-88 — DATE REC'D: 8-11-88 — DATE ANALYZED: 8-15/16-88

DESCRIPTION:	#25 Blizzard	#26 Reynolds	#27 Ferguson	#27 Duplicate	#30 Welsh	#32 Corder
SAMPLE NO.:	H3620	H3621	H3622	H3623	H3624	H3625
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 1, 1988

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CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB. NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-11-88 DATE REC'D. 8-16-88 DATE ANALYZED 8-18/22-88

DESCRIPTION:	#21 Combs	#22 Stenti	#23 Bell	#29 Welch	#33 Edwards	#34 Sharpless
SAMPLE NO.:	H3776	H3777	H3778	H3779	H3780	H3781
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 1, 1988

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CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-11-88 DATE REC'D. 8-16-88 DATE ANALYZED 8-19-88

DESCRIPTION:	#36 Bouchelle	#37 Bouchelle	#38 Bouchelle	#38 Duplicate	#39 Roberts	#41 Phillips
SAMPLE NO.:	H3782	H3783	H3784	H3785	H3786	H3787
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 1, 1988

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CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-11-88 DATE REC'D. 8-16-88 DATE ANALYZED 8-19-88

DESCRIPTION:	#42 Whited	#43 Skinner	#44 Blevins	#45 Heath	#46 Romanek	#46 Duplicate
SAMPLE NO.:	H3788	H3789	H3790	H3791	H3792	H3793
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	1.	10.	10.
Benzene	↓	↓	↓	<1.	<1.	<1.
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [illegible]

Date: September 1, 1988

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Purgeable Priority Pollutants

CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-11/12-88 DATE REC'D. 8-16-88 DATE ANALYZED 8-22-88

DESCRIPTION:	#48 Hill	#49 Bouchelle	#51 Dean	#51 Duplicate	#52 Smith	#53 Overton
SAMPLE NO.:	H3794	H3795	H3796	H3797	H3798	H3799
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	2.	↓	↓	↓	↓	↓
Chloroform	<1.	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	46.	↓	↓	↓	↓	↓
Benzene	<1.	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [illegible]

Date: September 11, 1988

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CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-12-88 DATE REC'D. 8-16-88 DATE ANALYZED 8-19-88

DESCRIPTION:	QC Trip Blank					
SAMPLE NO.:	H3500					
Chloromethane	<1.					
Bromomethane	↓					
Vinyl chloride	↓					
Chloroethane	↓					
Methylene chloride	↓					
1,1-Dichloroethene	↓					
1,1-Dichloroethane	↓					
t-1,2-Dichloroethene	↓					
Chloroform	↓					
1,2-Dichloroethane	↓					
1,1,1-Trichloroethane	↓					
Carbon tetrachloride	↓					
Bromodichloromethane	↓					
1,2-Dichloropropane	↓					
t-1,3-Dichloropropene	↓					
Trichloroethene	↓					
Benzene	↓					
Dibromochloromethane	↓					
1,1,2-Trichloroethane	↓					
c-1,3-Dichloropropene	↓					
2-Chloroethylvinyl ether	<10.					
Bromoform	<10.					
1,1,2,2-Tetrachloroethane	<1.					
Tetrachloroethene	↓					
Toluene	↓					
Chlorobenzene	↓					
Ethylbenzene	↓					
Xylenes	↓					

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 12, 1988

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Purgeable Priority Pollutants

CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-24-88 DATE REC'D. 8-25-88 DATE ANALYZED 8-26-88

DESCRIPTION:	#47 Kamerman	#50 May	#31 Zionkowski	#19 Ferguson	#28 Welch	#35 Taylor
SAMPLE NO.:	H4198	H4199	H4200	H4201	H4202	H4203
Chloromethane	<1.	<1.	<1.	<1.	<1.	<1.
Bromomethane	↓	↓	↓	↓	↓	↓
Vinyl chloride	↓	↓	↓	↓	↓	↓
Chloroethane	↓	↓	↓	↓	↓	↓
Methylene chloride	↓	↓	↓	↓	↓	↓
1,1-Dichloroethene	↓	↓	↓	↓	↓	↓
1,1-Dichloroethane	↓	↓	↓	↓	↓	↓
t-1,2-Dichloroethene	↓	↓	↓	↓	↓	↓
Chloroform	↓	↓	↓	↓	↓	↓
1,2-Dichloroethane	↓	↓	↓	↓	↓	↓
1,1,1-Trichloroethane	↓	↓	↓	↓	↓	↓
Carbon tetrachloride	↓	↓	↓	↓	↓	↓
Bromodichloromethane	↓	↓	↓	↓	↓	↓
1,2-Dichloropropane	↓	↓	↓	↓	↓	↓
t-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
Trichloroethene	↓	↓	↓	↓	↓	↓
Benzene	↓	↓	↓	↓	↓	↓
Dibromochloromethane	↓	↓	↓	↓	↓	↓
1,1,2-Trichloroethane	↓	↓	↓	↓	↓	↓
c-1,3-Dichloropropene	↓	↓	↓	↓	↓	↓
2-Chloroethylvinyl ether	<10.	<10.	<10.	<10.	<10.	<10.
Bromoform	<10.	<10.	<10.	<10.	<10.	<10.
1,1,2,2-Tetrachloroethane	<1.	<1.	<1.	<1.	<1.	<1.
Tetrachloroethene	↓	↓	↓	↓	↓	↓
Toluene	↓	↓	↓	↓	↓	↓
Chlorobenzene	↓	↓	↓	↓	↓	↓
Ethylbenzene	↓	↓	↓	↓	↓	↓
Xylenes	↓	↓	↓	↓	↓	↓

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [illegible] AR120572

Date: September 1, 1988

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Purgeable Priority Pollutants

37

CLIENT PORTER, WRIGHT, MORRIS & ARTHUR JOB NO. 4057.002.517

DESCRIPTION Mechanics Valley Trade Center

DATE COLLECTED 8-24-88 DATE REC'D. 8-25-88 DATE ANALYZED 8-26-88

DESCRIPTION:	QC Trip Blank					
SAMPLE NO.:	H1204					
Chloromethane	<1.					
Bromomethane	↓					
Vinyl chloride	↓					
Chloroethane	↓					
Methylene chloride	↓					
1,1-Dichloroethene	↓					
1,1-Dichloroethane	↓					
t-1,2-Dichloroethene	↓					
Chloroform	↓					
1,2-Dichloroethane	↓					
1,1,1-Trichloroethane	↓					
Carbon tetrachloride	↓					
Bromodichloromethane	↓					
1,2-Dichloropropane	↓					
t-1,3-Dichloropropene	↓					
Trichloroethene	↓					
Benzene	↓					
Dibromochloromethane	↓					
1,1,2-Trichloroethane	↓					
c-1,3-Dichloropropene	↓					
2-Chloroethylvinyl ether	<10.					
Bromoform	<10.					
1,1,2,2-Tetrachloroethane	<1.					
Tetrachloroethene	↓					
Toluene	↓					
Chlorobenzene	↓					
Ethylbenzene	↓					
Xylenes	↓					

Methodology: Federal Register—40 CFR, Part 136, October 26, 1984

Units: µg/l (ppb) unless otherwise noted

Comments:

Authorized: [signature]

Date: September 1, 1988.

OBG Laboratories, Inc.
Box 4942 / 1304 Buckley Rd. / Syracuse, NY 13221 / (315) 457-1494

AR100573

OBG LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

File 4057 002

SURVEY: Mechanics Valley Trade Center : Residential

SAMPLERS: (Signature) Robert H. Forest

STATION NUMBER	STATION LOCATION	DATE	TIME	SAMPLE TYPE: Water Comp.	SAMPLE TYPE: Water Grab	SAMPLE TYPE: Air	SEQ. NO.	NO. OF CONTAINERS	ANALYSIS REQUIRED
1	#1 Trull	8/9/88	1:15P		✓		1	2	EPA methods 601 + 602
2	#2 Hall	8/9/88	1:45P		✓		2	2	Contact Guy Swenson
3	#3 Goodchild	8/9/88	2:00P		✓		3	2	if you have questions.
5	#5 Drummond	8/9/88	2:30P		✓		4	2	
6	#6 Martin	8/9/88	2:40P		✓		5	2	
7	#7 Martin Apt.	8/9/88	2:50P		✓		6	2	
8	#8 Polo Pallet	8/9/88	3:30P		✓		7	2	
4	#4 Zdrojewski	8/9/88	4:30P		✓		8	4	Duplicate collected
9	#9 Bender	8/9/88	4:52P		✓		9	2	
10	#10 Roop	8/9/88	5:20P		✓		10	2	
11	#11 Murry (house)	8/9/88	5:45P		✓		11	2	
12	#12 Murry (barnwell)	8/9/88	5:50P		✓		12	2	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Robert H. Forest 8/9/88 →	Guy A. Swenson, III	8/9/88 6:00P
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature) Guy Swenson	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time

Dispatched by: (Signature)	Date/Time	Received for Laboratory by:	Date/Time
		KKlukinski	8/10/88 10:10

Method of Shipment: Commercial Airline

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OBG LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

File 4057 002

SURVEY: Mechanics Valley Trade Center : Residential

SAMPLERS: (Signature) Robert J Foesti

STATION NUMBER	STATION LOCATION	DATE	TIME	SAMPLE TYPE Water	Comp.	Grab	AIR	SEQ. NO.	NO. OF CONTAINERS	ANALYSIS REQUIRED
3	[illegible]	8/9/88	[illegible]			✓		13	2	Metals [illegible]
										Contact Guy Swenson
										If you have questions

Relinquished by: (Signature) Robert J. Foesti 8/9/88	Received by: (Signature) Guy A. Swenson, III	Date/Time 8/9/88 6:30P
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature) Guy A. Swenson III	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature) Date/Time	Received for Laboratory by: [illegible]	Date/Time 8/10/88 10:10
Method of Shipment: Commercial airline		

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AR100575

381

OBG LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

Job # 4057.002 Sheet 1 of 1

SURVEY (MECHANICS VALLEY, MARYLAND) KDI Corp. Off-Site Well Survey

SAMPLERS: (Signature) Robert A. Foresti Div. 10

STATION NUMBER	STATION LOCATION	DATE	TIME	SAMPLE TYPE Water Comp.	Water Grab	Air	SEQ. NO.	NO. OF CONTAINERS	ANALYSIS REQUIRED
14	MVTC Site	8/10/88	9:00am		✓		1	2	601 + 602
15	Clausius	8/10/88	9:40am		✓		2	2	601 + 602
16	Cannon	8/10/88	10:05am		✓		3	2	601 + 602
17	Barrow	8/10/88	10:30am		✓		4	2	601 + 602
20	Perry	8/10/88	11:00am		✓		5	2	601 + 602
24	Combs	8/10/88	11:45		✓		6	2	601 + 602
25	Blizzard	8/10/88	12:05		✓		7	2	601 + 602
27	Ferguson	8/10/88	1:20		✓		9	4	601 + 602
30	Welsh	8/10/88	2:03pm		✓		10	2	601 + 602
32	Corder	8/10/88	2:20		✓		11	2	601 + 602
26	Reynolds	8/10/88	1:15pm		✓		8	2	601 + 602

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Robert A. Foresti 4:30pm 8/10/88	Y. Brackins	8-10-88 16:30
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature) Date/Time	Received for Laboratory by: C. Kukliński	Date/Time 8/11/88 13:15

Method of Shipment: Via overnight express mail #31951023

Please contact G. A. Swenson and/or Bob Martin immediatly upon reciept...

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AR100576

OBG LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

Job # 4057.002.130 Sheet 1 of 2

SURVEY: KDI Corp Maryland

SAMPLERS: (Signature) Robert A. Foresta

STATION NUMBER	STATION LOCATION	DATE	TIME	SAMPLE TYPE: Water Comp.	Water Grab	Air	SEQ. NO.	NO. OF CONTAINERS	ANALYSIS REQUIRED
21	Combs	8/11/88	8:50 am		✓			2	EPA 601 & 602
22	Stenti	8/11/88	9:30 am		✓			2	
23	Bell	8/11/88	8:20 am		✓			2	
29	Welch	8/11/88	10:10 am		✓			2	
33	Edwards	8/11/88	11:05 am		✓			2	
34	Sharpless	8/11/88	3:00 pm		✓			2	
36	Bouchelle	8/11/88	11:40 am		✓			2	
[illegible]	Bouchelle	8/11/88	2:15 pm		✓			2	
38	Bouchelle	8/11/88	2:45 pm		✓			4	
39	Roberts	8/11/88	3:05 pm		✓			2	
41	Phillips	8/11/88	3:30 pm		✓			2	
42	Whited	8/11/88	4:00 pm		✓			2	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Robert A. Foresta 5:50 pm 8/12/88	Mike Tashuski	8/12/88 5:50
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time

Dispatched by: (Signature)	Date/Time	Received for Laboratory by:	Date/Time

Method of Shipment: Via airline w/ RHF. 8/12/88

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AR100577

OBG LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

Job # 4057.002.130 Sheet 2 of 2

SURVEY: KDI Corp., Maryland

SAMPLERS: (Signature) Robert A. Forestt

STATION NUMBER	STATION LOCATION	DATE	TIME	SAMPLE TYPE ✓ Water Comp.	Water Grab	Air	SEQ. NO.	NO. OF CONTAINERS	ANALYSIS REQUIRED
43	Skinner	8/11/88	11:30 am		✓			2	EPA 601 & 602
44	Blevins	8/11/88	4:35 pm		✓			2	
45	Heath	8/11/88	6:30 pm		✓			2	
46	Romanek	8/11/88	6:50 pm		✓			4	
48	Hill	8/11/88	7:20 pm		✓			2	
49	Rouchelle	8/12/88	11:50 am		✓			2	
51	Dean	8/12/88	12:38 pm		✓			4	
52	Smith	8/12/88	12:15 pm		✓			2	
53	Overton	8/12/88	12:55 pm		✓			2	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Robert A. Forestt 5:50 pm 8/12/88	Mike Tuskowski	8/12/88 5:50
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature) Date/Time	Received for Laboratory by:	Date/Time

Method of Shipment: Via airline w/ RAF 8/12/88

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OBG LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

#4057-002-390 Sheet #1 of 1

SURVEY: North East, Maryland. KDI Com. Residential Well Survey

SAMPLERS: (Signature) Robert A. Foresti

STATION NUMBER	STATION LOCATION	DATE	TIME	SAMPLE TYPE Water Comp.	Water Grab	Air	SEQ. NO.	NO. OF CONTAINERS	ANALYSIS REQUIRED
[illegible]	Kammerman	8/24/88	6:30 pm		✓		1	2	601 & 602
50	May	8/24/88	7:00 pm		✓		2	2	
31	Zionkowski	8/24/88	7:25 pm		✓		3	2	
19	Ferguson	8/24/88	7:45 pm		✓		4	2	
28	Welch	8/24/88	8:00 pm		✓		5	2	
35	Taylor	8/24/88	8:20 pm		✓		6	2	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Robert A. Foresti 11:50 AM 8/25/88		
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time

Dispatched by: (Signature)	Date/Time	Received for Laboratory by:	Date/Time
		Wendy Smith	8/25/88 11:50 AM

Method of Shipment:

Note: Site 19 well also serves site #18 i.e. one set collected for #19 only. R.J.F.

OBG Laboratories, Inc.
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AR100579

APPENDIX D

OFF-SITE RESIDENTIAL WELL ANALYTICAL DATA COMPILED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-BUTD	ELDC	EBEN	TOL	XYL
– Nottingham Rd. –														
Rille 42 Nottingham Rd	10/28/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
J. Clemons 50 Nottingham Rd	10/28/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
P. Poe 80 Nottingham Rd	10/28/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Unknown N. of Szymanski	10/28/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
– Bouchelle Rd. –														
G. Bouchelle 17 Bouchelle Rd	10/28/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Kirkwood 57 Bouchelle Rd	8/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
R. Welsh 102 Bouchelle Rd	8/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
T & J Welsh	8/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

AR100031

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-BD	TLOC	EBEN	TOL	XYL
140 Bouchelle Rd														
Taylor 64 Bouchelle Rd	8/18/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Reynolds 152 Bouchelle Rd	8/18/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Blizzard 176 Bouchelle Rd	8/10/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
W. & B. Welsh 116 Bouchelle Rd	8/10/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Corder 65 Bouchelle Rd	8/10/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Edwards 80 Bouchelle Rd	8/10/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Zionkowski 89 Bouchelle Rd	8/10/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

AR100532

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2 PRO	ELAC	EBEN	TOL	XYL
- Stevenson Rd. -														
Truitt	4/27/88	1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
411 Stevenson Rd	11/30/87	3	1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	10/28/87	3	1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	10/15/87	3	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	10/02/87	3	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	9/24/87	3	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Clemons 460 Stevenson Rd	10/28/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Hodorwicz 304 Stevenson Rd	8/18/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Holley 238 Stevenson Rd	10/02/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
D & C Drummond	10/13/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
385 Stevenson Rd	9/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-1-BD	ELAC	EBEN	TOL	XYL
Hall 421 Stevenson Rd	9/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
- Mechanic's Valley Rd -														
Guiberson 811 Mechanic's Valley Rd	10/28/87	<1	<1	2	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Hill 1168 Mechanic's Valley Rd	4/27/88	48	2*	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	2/24/88	111	7	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	2/02/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	11/30/87 (T)	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	11/30/87	115	8	<1	<1	<1	1	<1	ND	ND	ND	<1	<1	<2
	10/15/87	54	3*	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
J. Szymanski 752 Mechanic's Valley Rd	3/24/88	1	<1	<1	<1	<1	3	<1	33	ND	ND	<1	<1	<2
	10/22/87	<1	<1	<1	<1	<1	12	<1	ND	ND	ND	<1	<1	<2
	10/15/87	<1	<1	<1	<1	<1	13	<1	ND	ND	ND	<1	<1	<2

echanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	[illegible]	ELAC	EBEN	TOL	XYL
Phillips/Romanek	5/02/88	3	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
1136 Mechanic's	9/04/87	4	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Valley Rd	8/25/87	10	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	8/18/87	10	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Kammerman	11/25/87 (T)	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
1140 Mechanic's	11/25/87	4	1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Valley Rd	10/28/87	3	1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	10/13/87	3	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	10/02/87	4	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	9/28/87	5	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	8/25/87	2	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	8/18/87	3	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
B. Phillips	8/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
918 Mechanic's														
Valley Rd														
Skinner	8/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
934 Mechanic's														
Valley Rd														

AR100085

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-PPD	ELAC	EBEN	TOL	XYL
Belvins 952 Mechanic's Valley Rd	8/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
M. Osborne 620 Mechanic's Valley Rd	5/02/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
H. Zdrojwski 1183 Mechanic's Valley Rd	3/11/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	10/14/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	10/13/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
- Dean's Lane -														
Overton 10 Dean's Lane	10/15/87	<1	<1	2	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	9/28/87	<1	<1	4	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
	9/02/87	<1	<1	22	17	<1	<1	<1	58	ND	ND	<1	<1	<2
	8/19/87	<10	<10	53	1800	<10	<10	<10	59500	17234	35	32	39	111
M.H. Mahoney 22 Dean's Lane	8/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-HBD	ELAC	EBEN	TOL	XYL
Pat Dean 51 Dean's Lane	10/13/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
A. Smith Dean's Lane	10/13/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
- Azure Lane -														
Martin (Apartment) 32 Azure Lane	9/24/87	Trace	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Martin (Residence) 32 Azure Lane	9/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
- Falls Rd -														
C.E. Adams 57 Falls Rd	5/02/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
S. Hobson 24 Falls Rd	5/02/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

AR100587

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-PRO	ELAC	EBEN	TOL	XYL
I. Wharton 16 Falls Rd	5/02/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
- Indian Road -														
W. Blake 9 Indian Road	5/02/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Residential Address Unknown -														
Howell	10/02/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Reeves	10/02/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Town & Country MHP Office Unit	5/11/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Weaver Apts #6	5/11/88	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

- Surface Water Off-Site Residential -

AR100588

393

Mechanics Valley Trade Center
Northeast, Maryland
Residential and Off-site Sampling Data
Compiled by the Maryland Dept. of the Environment

Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-PRO	ELAC	EBEN	TOL	XYL
Trip to Little NE Creek Creek Behind Guiberson	10/28/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little NE Creek After Truitts	10/28/87	5	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little NE Creek Below Overton Property	9/03/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little NE Creek Still Water Area Behind 1130 Mechanic's Valley Rd	9/03/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little NE Creek Sampled in Stream Above Ordnance Products	9/03/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little NE Creek Sample From above NE Ordnance Products	9/04/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

AR100589

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Well Site	Date Sampled	TCE	T-1,2-D	CHL	MCL	1,2-DCA	PCE	VCL	ACE	2-PRO	ELAC	EBEN	TOL	XYL
Little NE Creek Sample Taken Downstream from Ordnance	9/04/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little NE Creek Intersection of Mechanic's Valley & Stevenson Rd	9/24/87	<1	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little Ne Creek Sample Taken in Flowing Water	9/02/87	5	<1	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2
Little NE Creek Drainage Ditch		2	2	<1	<1	<1	<1	<1	ND	ND	ND	<1	<1	<2

KEY

TCE	Trichloroethene
T-1,2-D	trans-1,2-Dichloroethene
CHL	Chloroform
MCL	Methylene Chloride
1,2-DCA	1,2-Dichlorethane
PCE	Tetrachloroethene
VCL	Vinyl Chloride
ACE	Acetone
2-PRO	2-Propanol
ELAC	Ethylacetate
EBEN	Ethylbenzene
TOL	Toluene
XYL	Total Xylenes

Notes:

* - Values for compound may be either cis or trans isomer.

(1) - Water sample taken after treatment system.