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**FIELD INVESTIGATIONS OF  
UNCONTROLLED HAZARDOUS WASTE SITES**

**FIT PROJECT**

**TASK REPORT TO THE  
ENVIRONMENTAL PROTECTION AGENCY  
CONTRACT NO. 68-01-6056**

AR100001

**FIELD INVESTIGATIONS OF  
UNCONTROLLED HAZARDOUS WASTE SITES**

**FIT PROJECT**

**TASK REPORT TO THE  
ENVIRONMENTAL PROTECTION AGENCY  
CONTRACT NO. 68-01-6056**

Preliminary Assessment  
and  
Site Inspection

Modern Sanitation  
EPA No. F3-8205-05  
EPA No. PA-154

Preparation Date: September 10, 1982

Presented to: Linda Y. Boornazian, Acting DPO  
EPA Region III

Prepared by: Eugene Dennis

*Joseph G. McGovern, III*  
Joseph G. McGovern, FTL III

**ecology and environment, inc.**

International Specialists in the Environmental Sciences

AR100002

Modern Sanitation Landfill

TDD No. F3-8205-05

EPA No. PA-154

TABLE OF CONTENTS

Section 1 Summary and Recommendations

- 1.1 Summary
- 1.2 Recommendations

Section 2 Background Information

- 2.1 History of the Site
- 2.2 Geology/Hydrology
- 2.3 Critical Environments
- 2.4 Waste types, Quantities, and Characteristics
- 2.5 Demographics

Section 3 Field Trip Report

- 3.1 Introduction
- 3.2 Contacts
- 3.3 Pertinent Comments
- 3.4 Field Observations
- 3.5 Sample Log

Section 4 Preliminary Assessment Form

Section 5 Site Inspection Form With Supplemental Landfill Site Inspection Report

Section 6 Analytical Data

- 6.1 Sample Data Summary

Section 7 Toxicological Review

Section 8 Maps/Sketches

- 8.1 Topographic Map
- 8.2 Site Sketch Including Sampling/Photographic Locations

Section 9 Photographic Log

AR100003

Modern Sanitation Landfill  
EID No. F3-8205-05  
EPA No. PA-154  
Table of Contents

Section 10

Appendixes

- Appendix A - List of References
- Appendix B1 - Analysis Data Sheets
- Appendix B2 - Analysis Data Sheet of Resampling  
of Residential Wells by Region III  
TAT Team
- Appendix B3 - PA DER Sample Results
- Appendix C - Chain of Custody Sheets and  
Traffic Reports
- Appendix D - Conclusions of AGES Report No.  
43081 Dated September, 1981 and  
Revised March, 1982
- Appendix E - Eckhardt Report-Pennsylvania  
Waste Site Directory
- Appendix F - Letter Dated June 25, 1981 from  
PA DER to SCA Services Regarding  
Violations Noted During Inspection  
of June 4, 1981

AR100004



SECTION 1

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SUMMARY AND RECOMMENDATIONS

1.1 SUMMARY

The Modern Sanitation Landfill is a 72 acre facility located on Yorkana Road South of Route 124 in York County, Pennsylvania. The landfill property is owned by a Mr. Horace Heindel, a local farmer who resides in the area. The property is currently being leased by SCA Services Co., a Boston headquartered firm that operates the landfill. SCA Services purchased the landfill business along with a trash hauling business in September, 1980. These operations were purchased from Modern Trash of York, the previous land leasers and owner/operator of Modern Sanitation Landfill.

A current review of the site status reveals that it is state permitted and had notified under RCRA as a Treatment, storage and disposal (TSD) facility on August 18, 1980. However, applications for a T.S.D. permit were not submitted and the site was consequently removed from the RCRA list. The Eckhardt report revealed that the site was used for disposal of hazardous waste from 1975 to 1979. (Refer to Appendix E for Eckhardt Report Summary). The Pennsylvania Department of Environmental Resources (PA DER) also suspects that industrial waste was received at the site during the 1960's. The waste generators and transporters are unknown. SCA Services claim they were unaware that the site had received hazardous waste. The landfill has been the center of attention for local residents shortly before SCA Services bought the business until the present. These citizens are aware of on-site and off-site surface and groundwater contamination.

The PA DER inspected the landfill and conducted sampling on numerous occasions. Violations were noted and surface and groundwater contamination was found. Contamination of domestic wells has been a primary concern.

EIT Region III conducted surface and groundwater sampling at the landfill environs during a site inspection that took place on June 23, 1982.

ORIGINAL  
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Organic and inorganic contaminants are currently present in surface springs located at the south-western border of the landfill. These springs form a tributary that flows into Kreutz Creek at the north-western boundary of the site. Reportedly groundwater and spring-fed surface water are used by grazing livestock and for irrigation purposes by farms near the site.

Monitoring wells B-1, B-3, B-15, A-1 and A-2 were sampled and organic and inorganic contaminants were detected. Domestic wells that were sampled include the wells of Messrs. Peters, Druck and Frey. Organic contamination including volatiles, acid and base/neutral extractable compounds were detected below 10 ppb in all of these wells. Pesticides such as 4,4'-DDT and beta BHC were detected in the Frey well but the concentrations were not confirmed by the GC/MS. Other pesticides were detected in surface and groundwater but the concentrations were also not confirmed by the GC/MS. Pesticide contamination is further discussed in the toxicological review section of this report.

Significant concentrations of inorganic contaminants were detected in all of the above wells. Of significant concern is the barium concentrations noted in the Druck Well. The level found, 100,000 ppb, is such that it would have serious adverse impacts to those drinking this water source. Lead contamination is also of concern because it was detected in concentrations above drinking water criteria in the Frey well. (Resampling of this well by Ecology and Environment Region III TAT team revealed concentrations of lead significantly lower - see Appendix B-2 for TAT III re-sampling results). These residents are presently using an alternate source of water according to PA DER.

The landfill has a lateral interceptor that is located on the western perimeter. This interceptor is designed to operate as a leachate collection system which diverts groundwater to the on-site treatment plant. The treatment plant is currently inactive and groundwater flows through the plant without being treated and is discharged into a tributary of Kreutz Creek. FTT III sampled the leachate discharge and surface waters up and downstream of the discharge. These sample analyses revealed no significant concentrations of contaminants.

*low concentration, don't use phrase "no significant"*

A problem that currently exists is the potential for an underflow or overflow of contaminated groundwater that does not get collected by the interceptor. Instead, the leachate discharges directly into the tributary of Kreutz Creek. This problem is being addressed by SCA Services. AGES Corp. a Geotechnical and Environmental Service Corp. has been retained by SCA Services to perform a complete geohydrologic study of the landfill. Two parts of this study have been submitted by AGES (see Appendix D for conclusions of their latest report). A follow up to this study is scheduled for the near future.

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and will address the leachate collection system problem(s). SCA Services plans to resolve this problem upon completion of the AGES study. The site also has two storm water retention/sedimentation ponds located on the northwest and southwest perimeter of the landfill. These ponds were designed to collect and discharge surface (rain) water and have been approved by the PA DER.

## 1.2 RECOMMENDATIONS

Based on the above findings, FIP Region III recommends the following action items be considered:

o Periodic sampling of the nearby residential wells be performed to monitor off-site migration of contaminants. If significant concentrations of contaminants are observed the residents should be advised to use bottled water as a potable source. *what and how to monitor*

o Due to the reports of groundwater and surface water being used by area farms for livestock and irrigation purposes, additional sampling of these sources should be performed to determine the potential impacts upon these targets.

o Upon completion of the AGES study, it should be determined if the leachate collection system is completely effective. If the system is found not to be functioning correctly, remedial measures should be developed and expidited.

o Since the contaminated groundwater is discharging directly into a tributary of Kreutz Creek, the on-site treatment facility should be reactivated.

SECTION 2

AR100009

Modern Sanitation Landfill

TDD No. F3-8205-05

EPA No. PA-154

BACKGROUND INFORMATION

2.1 HISTORY OF THE SITE

The Modern Sanitation Landfill is located on Yorkana Road approximately 1/2 mile South of Route 124 in York County, Pennsylvania. The landfill property is owned by a Mr. Horace Heindel, a local farmer who resides in the area. The PA DER estimates that during the late 1940's Mr. Heindel began using his land as an open dump. For an unknown period of time domestic waste which consisted of trash and other debris was disposed of on the property, which became known as Heindel's dump.

Sometime after the creation of Heindel's dump, Mr. Heindel began leasing his property to other businesses who expanded the operation. One such company was Modern Trash of York, a trash hauling firm. It was during their operation that the site received hazardous waste during the period 1976 through 1979. However, it has been suspected by the PA DER that the site also received industrial waste during the 1960's.

The site is now known as Modern Sanitation Landfill and is presently operated by the SCA Services out of Boston, Mass. The trash hauling and disposal operations were purchased by SCA Services in September of 1980 from Modern Trash of York. The property is still owned by Mr. Heindel and is being leased by SCA Services. At the time of purchase, SCA representatives claim they were unaware of any hazardous waste being deposited on the site. Shortly before the purchase of the landfill business by SCA and up to the present time, the site has become a center of attention to the local citizens, state representatives and political figures. Surface water and groundwater contamination on and off site, are the primary concern.

Modern Sanitation Landfill  
TDD No. F3-8205-05  
EPA No. PA-154  
Background Information

The site has a state permit for municipal waste which was issued on August 17, 1978 and has an indefinite expiration date. PA DER's available records reveal that the site has been inspected on a regular basis since January of 1981. Sampling of groundwater and surface water was performed periodically and the results revealed surface and groundwater contamination. A PA DER inspection on June 4, 1981 revealed groundwater contamination and violations which included the breaching of two sedimentation basins without approval from the Department. These violations which resulted in non-compliance with the state permit have since been addressed. The PA DER reports that SCA has been working in conjunction with the State in order to correct past problems. However, recent sampling by FIT Region III still indicate the presence of contaminants in surface water and groundwater.

## 2.2 GEOLOGY/HYDROLOGY

A geohydrologic study is currently under progress by AGES for SCA to investigate the contamination problems and propose remedial measures. Two parts of the study have been completed and have evaluated the groundwater patterns and site geology. The conclusions of the study, completed and available to FIT III to date, are included in the Appendix D for referral. In summary the findings and conclusions of the study are as follows:

- o The site is underlain in folded, sheered and faulted cambrian, metamorphic bedrock units: the Antretam Quartsite and the Harper's Phyllite. These units are associated, in general, with the Martie Overthrust, a major fault time.

ORIGINAL

Modern Sanitation Landfill

TDD No. F3-8205-05

EPA No. PA-154

Background Information

o The overburden consists of colluvium, residual soil and regolith of variable thickness. The soils are deep red to rust colored sandy silts.

o The groundwater beneath the main portion of the site is at or near the overburden-rock contact. The pattern, however, is significantly affected by the low permeability of the overall tightly-structured bedrock, overthrust faulting and near vertical orientation of the stratigraphic units.

o Under non-pumping conditions, topography dictates the overall groundwater patterns. In places springs discharge from the groundwater and into the nearby streams.

o Pumping from residential wells significantly influence groundwater flow patterns and a few of them may have their quality affected by the landfill.

### 2.3 CRITICAL ENVIRONMENTS

Kreutz Creek is seasonally stocked with trout by the Starview Sportsman Club under the Pennsylvania Fish Commission Co-op Nursery Program. Other species of fish that exist in the Creek include catfish, and various types of panfish. The creek empties into the Susquehanna River near the town of Wrightsville.

It should be noted that the Snavelys school and Willis school which are located near the site are no longer in use.

The livestock on adjacent farms (see Demographics below) drink from the surface streams and springs, in part. Wells are also used for this purpose.



ORIGINAL

Modern Sanitation Landfill  
TDD No. F3-8205-05  
EPA No. PA-154  
Background Information

#### 2.4 WASTE TYPES, QUANTITIES AND CHARACTERISTICS

According to the Eckhardt list the chemical components of waste disposed of at this site include acid solutions (with pH < 3), base solutions (with pH > 12), heavy metals and trace metals (bonded organically and inorganically), radioactive residues (with over 50 pico-curies per gram), inorganics and miscellaneous waste materials (see Eckhardt Report Summary in the Appendix). However, because records were not kept during the time of disposal, waste quantities cannot be accurately reported.

Substances identified on-site include: benzene, chloroform, methylene chloride, di-n-butyl phthalate, trichlorofluoromethane, bis (2-ethylhexyl) phthalate, 1,1,1-trichloroethane, 1,1-dichloroethane, chloroethane, 1,2 trans-dichloroethylene, tetrachloroethylene, trichloroethylene, 1,1,2-trichloroethane, 1,1-dichloroethylene, toluene, 1,2-dichloroethane, 1,2 dichloropropane, vinyl chloride, phenol, ethyl benzene, 4,4'-DDT, beta-BHC, delta-BHC, alpha-BHC and gamma-BHC. Concentrations of the above substances identified as being on-site can be found in the Sample Data Summary, Section 6, in this report. Complete sample results are in the Appendix.

#### 2.5 DEMOGRAPHICS

Population within one mile of the site is approximately 800 people. Farming and agriculture are the dominant land uses in the area.<sup>2</sup> Grazing livestock exists to the North and West of the site and agricultural farms exists to the North, South and East. As stated earlier, there is no student enrollment at the Snavelys Willis Schools located nearby. Major transportation routes within the landfill proximity includes State Routes 124 and 462 and US Route 30.

SECTION 3

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Modern Sanitation Landfill  
TDD No. F3-8205-05  
EPA No. PA-154

FIELD TRIP REPORT

3.1 INTRODUCTION

FIT Region III representatives Eugene Dermis, Thomas Fromm, David Nickerson and Stephanie Phipps visited the Modern Sanitation landfill on June 23, 1982. The purpose of the visit was to conduct a Preliminary Assessment and a Site Inspection which included on-site and off-site sampling. During the inspection, the FIT team was accompanied by Joseph Kozlosky and Thomas Miller of the PA DER, Edward Prout of AGES Corporation and Richard Power and Jon Yinger of SCA Services.

3.2 CONTACTS

Thomas Miller  
Hydrogeologist  
PA DER-Harrisburg Region  
717/787-9697

Joseph Kozlosky  
Environmental Protection Specialist  
PA DEP-Harrisburg Region  
717/787-9697

Richard Power, P.E.  
Civil-Environmental Engineer  
SCA Services Inc.  
60 State Street  
Boston, Mass. 02109  
617/367-8300

Peter Michaud  
SCA Corporation  
5 Middlesex Avenue  
Summerville, Mass.  
617/367-8300

Jon Yinger  
Facility Manager  
Modern Trash of York, SCA Services Co.  
P.O. Box 1943, York, PA 17405  
717/845-8783

Ronald Hoffman  
Waterways Patrolman  
PA Fish Commission, South-Control  
R.D. 3, Box 109, Mifflintown, PA 17059  
717/436-2117

Paul Cover  
Local Manager  
Wrightsville Water Co.  
P.O. Box 1, Wrightsville PA 17368  
717/252-3711

Keith Frey  
Resident  
Box 116 RD #9  
York, PA 17402  
717/755-8979

William Drück  
Resident  
P.O. Box 317 RD #9  
York, PA 17402  
717/244-7970

Mr. Peters  
Resident  
RD #9  
York, PA 17402  
717/244-4345

Handwritten notes and stamps in the top right corner, including the word "Final" and a date "12/81".

Modern Sanitation Landfill  
TDD No. F3-8205-05  
EPA No. PA-154  
Field Trip Report

3.3 PERTINENT COMMENTS

Ronald Hoffman, Pennsylvania Fish Commission, in telecon 8/13/82-Mr. Hoffman stated that Kreutz Creek is seasonally stocked with trout by the Starview Sportsman Club under the Co-op Nursery Program.

Paul Cover, Wrightsville Water Supply, in telecon 8/23/82-Mr. Cover stated that Wrightsville obtains its water supply from the Susquehanna River, upstream from where Kreutz Creek discharges into it.

Richard Power, SCA Services, in telecon 8/13/82-Mr. Power stated that SCA Services was not aware of any hazardous waste being disposed of at the site or existing at the site before the site was purchased.

Jon Yinger, SCA Services, in telecon 8/13/82-Mr. Yinger stated that SCA Services does not have any records pertaining to the type and amount of hazardous waste disposed at the landfill.

Jon Yinger, SCA Services on-site conversation 6/23/82-Mr. Yinger stated that he would not permit photographs to be taken other than those of sampling procedures.

3.4 FIELD OBSERVATIONS

- o The weather during the site visit was sunny and warm with temperatures in the mid-70's.
- o The Modern Sanitation Landfill operated by SCA Services is currently active.
- o Typical landfill odors were noticed throughout the area of the site.
- o A small stream of water, which appeared to be rain water, was observed flowing near Spring house A into the unnamed tributary of Kreutz Creek. (See site sketch).

Modern Sanitation Landfill  
EED No. F3-8205-05  
EPA No. PA-154  
Field Trip Report

3/15/82

o Cloudy water was observed in the unnamed tributary to Kreutz Creek located on the western border of the site. (See site sketch).

o Springhouse A was observed to be overflowing, readily forming the tributary to Kreutz Creek. The water level in Springhouse B was relatively shallow and appeared to be stagnant, but state personnel recorded the temperature and determined that the water was fresh groundwater. These springs were sampled.

o An on-site treatment plant used for treating leachate and contaminated groundwater was observed at the facility. It should be noted that this treatment plant is presently inactive and any groundwater or leachate entering the plant is discharged untreated.

o The discharge pipe coming from the treatment plant was approximately 6" in diameter and the pipe was partially submerged under water. The discharge from this pipe was sampled. (See site sketch).

o A 24" discharge pipe was observed to be flowing into the unnamed tributary of Kreutz Creek from two on-site storm water retention/sedimentation ponds. State representatives stated the water was only rain water. (See site sketch).

o The following HNU readings were recorded. Ambient air readings around the landfill resulted in readings of (0 ppm).

- M.W. B-1 - No readings above background (0 ppm).
- M.W. B-3 - No readings above background (0 ppm).
- M.W. B-15 - No readings above background (0 ppm).
- M.W. A-1 - 5 ppm above background; background (0 ppm).
- M.W. A-2 - 1.5 ppm above background; background (0 ppm).

o Approximately 12 stand pipes, about 6' high, were observed at the southern end of the facility. Vapors were observed emanating from these pipes and it was later discovered that these pipes were serving the purpose of being air vents. (See site sketch).

o During sampling of monitoring well A-1, it was determined that the well contained insufficient quantities of water to obtain a complete sample. Therefore, FTT III obtained only enough water for volatile and inorganic analysis.





ORIGINAL

Modern Sanitation Landfill

TDD No. F3-8205-05

EPA No. PA-154

Field Trip Report

Monitoring well A-2 Depth of well - 62'  
 Low concentrations aqueous Depth to water - 54'  
 Organic traffic report C-1390 Ft. of standing water - 8'  
 Inorganic traffic report MC-8950  
 Tag #'s 5858, 5859, 5860, 5861, 5862  
 Time 1700, by Eugene Dennis  
 pH=5.84

Monitoring well A-1 Depth of well - 81'  
 Low concentration aqueous Depth to water - 79.6'  
 Organic traffic report C-1389 Ft. of standing water - 1.4'  
 Inorganic traffic report MC-8949  
 Tag # 5863  
 Time 1745, by Eugene Dennis  
 pH=6.9

S. W. #1 Spring house A N/A  
 Low concentrations aqueous  
 Organic traffic report C-1435  
 Inorganic traffic report MC-9024  
 Tag #'s 5823, 5824, 5825, 5826, 5827  
 Time 1148, by Thomas Fromm  
 pH=5.9



Modern Sanitation Landfill  
TDD No. F3-8205-05  
EPA No. PA-154  
Field Trip Report

Spring house B  
Low concentration aqueous  
Organic traffic report C-1436  
Inorganic traffic report MC-9025  
Tag #'s 5828, 5829, 5830, 5831, 5832  
Time 1205, by Thomas Fromm  
pH=5.8

Unnamed Western tributary to Kreutz Creek,  
upstream of retention pond discharge  
Low concentration aqueous  
Organic traffic report C-1437  
Inorganic traffic report MC-9026  
Tag #'s 5833, 5834, 5835, 5836, 5837  
Time 1345, by Thomas Fromm  
pH=7.00

Treatment Plant Discharge Pipe  
Low concentration aqueous  
Organic traffic report C-1438  
Inorganic traffic report MC-9027  
Tag #'s 5838, 5839, 5840, 5841, 5842  
Time 1400, by Thomas Fromm  
pH=7.6

Modern Sanitation Landfill

TDD No. F3-8205-05

EPA No. PA-154

Field Trip Report

08/23/82

Unnamed Western tributary to Kreutz Creek,

downstream of treatment plant discharge pipe

Low concentration aqueous

Organic traffic report C-1439

Inorganic traffic report MC-9028

Tag #'s 5843, 5844, 5845, 5846, 5847

Time 1415, by Thomas Fromm

pH=7.00

Unnamed northern tributary to Kreutz Creek, downstream

Low concentration aqueous

Organic traffic report C-1440

Inorganic traffic report MC-9029

Tag #'s 5873, 5874, 5875, 5876, 5877

Time 1700, by Eugene Dennis

pH=7.00

Unnamed northern tributary to Kreutz Creek, upstream

Low concentration aqueous

Organic traffic report C-1441

Inorganic traffic report MC-9030

Tag #'s 5878, 5879, 5880, 5881, 5882

Time 1715, by Eugene Dennis

pH=7.00

2/21/85

Modern Sanitation Landfill  
CDD No. F3-8205-05  
EPA No. PA-154  
Field Trip Report

Blank

Low concentration aqueous

Organic traffic report C-1445

Inorganic traffic report MC-9034

Tag #'s 5818, 5819, 5820, 5821, 5822

Time 0945, by Eugene Dennis

Labs

Organic, low concentration aqueous samples sent to:

West Coast Technical Service  
17605 Fabrica Way, Suite D  
Cerritos, CA 90701

Inorganic, low concentration aqueous samples sent to:

Rocky Mountain Analytical Labs  
5530 Marshall Street  
Arvado, CO 80002

SECTION 4

AR100024



POTENTIAL HAZARDOUS WASTE SITE  
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION	SITE NUMBER (to be assigned by HQ)
III	PA-154

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

## I. SITE IDENTIFICATION

A. SITE NAME Modern Sanitation Landfill		B. STREET (or other identifier) P.O. Box 1943; Yorkana Rd. South of Rt. 124	
C. CITY Windsor and Lower Windsor Townships		D. STATE PA	E. ZIP CODE 17405
		F. COUNTY NAME York County	
G. OWNER/OPERATOR (if known)			
1. NAME Modern Trash of York, SCA Services Co.		2. TELEPHONE NUMBER 717/845-8783	
H. TYPE OF OWNERSHIP			
<input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE <input type="checkbox"/> 6. UNKNOWN			

## I. SITE DESCRIPTION

I. SITE DESCRIPTION 72 acre municipal landfill	
J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) Eckhardt List	K. DATE IDENTIFIED (mo., day, & yr.) 11-79
L. PRINCIPAL STATE CONTACT	
1. NAME Thomas Miller / Joseph Kozlosky	2. TELEPHONE NUMBER 717/787-9697

## II. PRELIMINARY ASSESSMENT (complete this section last)

A. APPARENT SERIOUSNESS OF PROBLEM	
<input checked="" type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE <input type="checkbox"/> 5. UNKNOWN	
B. RECOMMENDATION	
<input type="checkbox"/> 1. NO ACTION NEEDED (no hazard) <input type="checkbox"/> 2. IMMEDIATE SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: _____ b. WILL BE PERFORMED BY: _____	
<input checked="" type="checkbox"/> 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: <u>Concurrent with PA</u> b. WILL BE PERFORMED BY: <u>E&amp;E FIT III</u>	
<input type="checkbox"/> 4. SITE INSPECTION NEEDED (low priority)	
C. PREPARER INFORMATION	
1. NAME Eugene Dennis	2. TELEPHONE NUMBER 609/665-1515
3. DATE (mo., day, & yr.) 8/2/82	

## III. SITE INFORMATION

A. SITE STATUS		
<input checked="" type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)	<input type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.)	<input type="checkbox"/> 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)
B. IS GENERATOR ON SITE?		
<input checked="" type="checkbox"/> 1. NO <input type="checkbox"/> 2. YES (specify generator's four-digit SIC Code): _____		
C. AREA OF SITE (in acres) 72 acres		D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES
		1. LATITUDE (deg.-min.-sec.) 39° 57' 34" N
		2. LONGITUDE (deg.-min.-sec.) 76° 35' 29" W
E. ARE THERE BUILDINGS ON THE SITE?		
<input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify): <u>Trailer used as office.</u>		

**IV. CHARACTERIZATION OF SITE ACTIVITY**

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/> A. TRANSPORTER	<input checked="" type="checkbox"/> B. STORER	<input checked="" type="checkbox"/> C. TREATER	<input checked="" type="checkbox"/> D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	<input checked="" type="checkbox"/> 1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS. TREATMENT	5. MIDDIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

**E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED**

Active landfill in receipt of municipal waste and rewater sludge. Past disposal included hazardous wastes and reportedly industrial wastes.

**V. WASTE RELATED INFORMATION**

**A. WASTE TYPE**

1. UNKNOWN     2. LIQUID     3. SOLID     4. SLUDGE     5. GAS

**B. WASTE CHARACTERISTICS**

1. UNKNOWN     2. CORROSIVE     3. IGNITABLE     4. RADIOACTIVE     5. HIGHLY VOLATILE  
 6. TOXIC     7. REACTIVE     8. INERT     9. FLAMMABLE

10. OTHER (specify):

**C. WASTE CATEGORIES**

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Eckhardt report-no records

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
Unknown		Unknown	Unknown		Unknown
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS	<input checked="" type="checkbox"/> (1) OILY WASTES	<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/> (1) ACIDS	<input checked="" type="checkbox"/> (1) FLYASH	<input checked="" type="checkbox"/> (1) LABORATORY PHARMACEUT.
<input type="checkbox"/> (2) METALS SLUDGES	<input type="checkbox"/> (2) OTHER (specify):	<input type="checkbox"/> (2) NON-HALOGENATED SOLVENTS	<input type="checkbox"/> (2) PICKLING LIQUORS	<input type="checkbox"/> (2) ASBESTOS	<input type="checkbox"/> (2) HOSPITAL
<input checked="" type="checkbox"/> (3) POTW		<input type="checkbox"/> (3) OTHER (specify):	<input checked="" type="checkbox"/> (3) CAUSTICS	<input checked="" type="checkbox"/> (3) MILLING/ MINE TAILINGS	<input type="checkbox"/> (3) RADIOACTIVE
<input type="checkbox"/> (4) ALUMINUM SLUDGE			<input type="checkbox"/> (4) PESTICIDES	<input checked="" type="checkbox"/> (4) FERROUS SMLTG. WASTES	<input type="checkbox"/> (4) MUNICIPAL
<input type="checkbox"/> (5) OTHER (specify):			<input type="checkbox"/> (5) DYES/INKS	<input type="checkbox"/> (5) NON-FERROUS SMLTG. WASTES	<input type="checkbox"/> (5) OTHER (specify):
			<input type="checkbox"/> (6) CYANIDE	<input type="checkbox"/> (6) OTHER (specify):	
			<input type="checkbox"/> (7) PHENOLS		
			<input type="checkbox"/> (8) HALOGENS		
			<input type="checkbox"/> (9) PCB		
			<input checked="" type="checkbox"/> (10) METALS		
			<input type="checkbox"/> (11) OTHER (specify):		

## V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

The following substances have been found to exist on site: Benzene, 1,2 dichloro-ethylene, trichloroethylene, vinyl chloride, tetrachloroethylene, 4,4'-DDT, BHC, toluene

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

The site currently has a leachate collection system designed to divert groundwater to the on-site treatment. Along the southern boundary of the site, stand pipes approximately 6' high serve the purpose of venting volatiles which are present in the landfill.

## VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH		X	FIT III visit 6/23/82	On-site and off-site well analysis indicate significant conc. of organic and inorganic contaminants.
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY		X	FIT III visit 6/23/82	See #2 above
6. CONTAMINATION OF FOOD CHAIN	X			Livestock at surrounding farms drink surface water spring and well water
7. CONTAMINATION OF GROUND WATER		X	FIT III visit 6/23/82	See above #2, also springs
8. CONTAMINATION OF SURFACE WATER		X	FIT III visit 6/23/82	Recent sample analysis indicate the presence of organic and inorganic contamination in surface streams.
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL	X			Tributary to Kreutz Creek which is stocked with trout is contaminated.
11. CONTAMINATION OF AIR		X	FIT III visit 6/23/82	HNU readings at selected monitoring well heads
12. NOTICEABLE ODORS		X		Typical landfill odors
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES	X			Eckhardt list indicate disposal of acids and bases into landfill.
21. MIDNIGHT DUMPING				
22. OTHER (specify):		X	FIT III site visit 6/23/82	On site treatment plant for leachate is inoperative. Leachate discharging to surface stream with treatment.

## VII. PERMIT INFORMATION

## A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

1. NPDES PERMIT     2. SPCC PLAN     3. STATE PERMIT (specify): No. 100113  
 4. AIR PERMITS     5. LOCAL PERMIT     6. RCRA TRANSPORTER  
 7. RCRA STORER     8. RCRA TREATER     9. RCRA DISPOSER  
 10. OTHER (specify): \_\_\_\_\_

## B. IN COMPLIANCE?

1. YES     2. NO     3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number): State Permit No. 100113\*

## VIII. PAST REGULATORY ACTIONS

- A. NONE     B. YES (summarize below)

Inspection by PA DER on June 4, 1981 revealed several violations which resulted in non-compliance with state permit No. 100113. Warnings were issued and the problems have since been addressed.

## IX. INSPECTION ACTIVITY (past or on-going)

- A. NONE     B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
Annual Sampling	1-27-81	State	Sampling of groundwater and surface water.
Annual Sampling	1-29-81	State	Sampling of groundwater
Annual Sampling	3-2-81	State	Sampling of groundwater and surface water
Annual Sampling	5-14-81	State	Sampling of discharge to Kreutz Creek.
Inspection of landfill	1-12-82	State	To determine if facility was in compliance.
	6-4-81	State	

## X. REMEDIAL ACTIVITY (past or on-going)

- A. NONE     B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
Surface water and groundwater contam.	In process	PA DER	Currently under study by SCA Services consultant

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

\*SCA Services are currently working with the PA DER to correct any problems that exist at the landfill.

AR100028



SECTION 5

AR100029



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

REGION III  
SITE NUMBER (to be assigned by HQ)

ORIGINAL (red)

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log file. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: Modern Sanitation Landfill.  
 B. STREET (or other identifier): Yorkanna Road, P.O. Box 1943 (South of Route 124)  
 C. CITY: Windsor and Lower Windsor Townships  
 D. STATE: PA  
 E. ZIP CODE: 17405  
 F. COUNTY NAME: York County

G. SITE OPERATOR INFORMATION  
 1. NAME: Modern Trash of York, SCA Services Company  
 2. TELEPHONE NUMBER: 717/845-8783  
 3. STREET: 700 North Hartley Street  
 4. CITY: York  
 5. STATE: PA  
 6. ZIP CODE: 17405

H. REALTY OWNER INFORMATION (if different from operator of site)  
 1. NAME: Mr. Horace Heindel  
 2. TELEPHONE NUMBER: 717-244-3780  
 3. CITY: Windsor and Lower Windsor Townships  
 4. STATE: PA  
 5. ZIP CODE: 17405

I. SITE DESCRIPTION: 72 acre municipal landfill.  
 J. TYPE OF OWNERSHIP:  1. FEDERAL  2. STATE  3. COUNTY  4. MUNICIPAL  5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.): August 27, 1982  
 B. APPARENT SERIOUSNESS OF PROBLEM:  1. HIGH  2. MEDIUM  3. LOW  4. NONE

PREPARER INFORMATION  
 1. NAME: Eugene Dennis  
 2. TELEPHONE NUMBER: 609-665-1515  
 3. DATE (mo., day, & yr.): August 2, 1982

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION  
 1. NAME: Eugene Dennis  
 2. TITLE: Field Technician  
 3. ORGANIZATION: Ecology and Environment, Inc. - FIT Region III  
 4. TELEPHONE NO. (area code & no.): 609-665-1515

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Thomas Fromm, David Nickerson, and Stephanie Phipps	Ecology and Environment, Inc.	609-665-1515
Joseph Kozlosky and Thomas Miller	Department of Environmental Resources Harrisburg Regional Office	717-787-9697

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Jon Yinger	Facility Manager 717-845-8783	P.O. Box 1943, York PA 17405
Richard M. Power	Civil-Environmental Eng. 617-367-8300	SCA Services, Inc. 60 State Street, Boston, MA 02109
Edward H. Prout, Jr.	215-666-7404	AGES Corporation 1151 S. Trooper Rd., Norristown, PA 19403

Continued From Front

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (source of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Unknown			

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Unknown			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
Not Applicable		

G. DATE OF INSPECTION H. TIME OF INSPECTION I. ACCESS GAINED BY: (credentials must be shown in all cases)

June 23, 1982 0800-1700  1. PERMISSION  2. WARRANT

J. WEATHER (describe)  
Clear, sunny, temperature approximately 70°

IV. SAMPLING INFORMATION

Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER	X	Inorganic - Rocky Mt. Analytical Labs Organics - West Coast Technical Service	08-04-82
b. SURFACE WATER	X	Inorganics - Rocky Mt. Analytical Labs Organics - West Coast Technical Service	08-04-82
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
HNU measurements	Monitoring Wells A-1, A-2	Readings of 1 to 5 ppm above background = 0 ppm
HNU measurements	Ambient air	No readings above 0 ppm
pH measurements	All aqueous samples	Readings range from 5.8 to 7.6

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS  
 1. TYPE OF PHOTOS Restricted by  
 B. GROUND  D. AERIAL operator Ecology and Environment, Inc. - FIT Region III  
 2. PHOTOS IN CUSTODY OF:  
 Ecology and Environment, Inc. - FIT Region III

D. SITE MAPPED?  
 YES. SPECIFY LOCATION OF MAPS: Ecology and Environment, Inc. - FIT Region III

E. COORDINATES  
 1. LATITUDE (deg.-min.-sec.) 39° 57' 34" N  
 2. LONGITUDE (deg.-min.-sec.) 76° 35' 29" W

V. SITE INFORMATION

A. SITE STATUS  
 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)  
 2. INACTIVE (Those sites which no longer receive wastes.)  
 3. OTHER (specify):

B. IS GENERATOR ON SITE?  
 1. NO  2. YES (specify generator's four-digit SIC Code):

C. AREA OF SITE (In acres) Approximately 72 acres  
 D. ARE THERE BUILDINGS ON THE SITE?  
 1. NO  2. YES (specify): Trailer used as office

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER		B. STORER		C. TREATER		D. DISPOSER	
<input checked="" type="checkbox"/> 1. RAIL		<input type="checkbox"/> 1. PILE		<input type="checkbox"/> 1. FILTRATION		<input checked="" type="checkbox"/> 1. LANDFILL	
<input type="checkbox"/> 2. SHIP		<input type="checkbox"/> 2. SURFACE IMPOUNDMENT		<input type="checkbox"/> 2. INCINERATION		<input type="checkbox"/> 2. LANDFARM	
<input type="checkbox"/> 3. BARGE		<input type="checkbox"/> 3. DRUMS		<input type="checkbox"/> 3. VOLUME REDUCTION		<input type="checkbox"/> 3. OPEN DUMP	
<input type="checkbox"/> 4. TRUCK		<input type="checkbox"/> 4. TANK, ABOVE GROUND		<input type="checkbox"/> 4. RECYCLING/RECOVERY		<input type="checkbox"/> 4. SURFACE IMPOUNDMENT	
<input type="checkbox"/> 5. PIPELINE		<input type="checkbox"/> 5. TANK, BELOW GROUND		<input type="checkbox"/> 5. CHEM./PHYS./TREATMENT		<input type="checkbox"/> 5. MIDNIGHT DUMPING	
<input type="checkbox"/> 6. OTHER (specify):		<input type="checkbox"/> 6. OTHER (specify):		<input type="checkbox"/> 6. BIOLOGICAL TREATMENT		<input type="checkbox"/> 6. INCINERATION	
				<input type="checkbox"/> 7. WASTE OIL REPROCESSING		<input type="checkbox"/> 7. UNDERGROUND INJECTION	
				<input type="checkbox"/> 8. SOLVENT RECOVERY		<input type="checkbox"/> 8. OTHER (specify):	
				<input type="checkbox"/> 9. OTHER (specify):			

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

1. STORAGE  2. INCINERATION  3. LANDFILL  4. SURFACE IMPOUNDMENT  5. DEEP WELL  
 6. CHEM/BIO/PHYS TREATMENT  7. LANDFARM  8. OPEN DUMP  9. TRANSPORTER  10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE  
 1. LIQUID  2. SOLID  3. SLUDGE  4. GAS

B. WASTE CHARACTERISTICS  
 1. CORROSIVE  2. IGNITABLE  3. RADIOACTIVE  4. HIGHLY VOLATILE  
 5. TOXIC  6. REACTIVE  7. INERT  8. FLAMMABLE  
 9. OTHER (specify):

C. WASTE CATEGORIES  
 1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.  
 Eckhardt List reports disposal of acid solutions (with pH less than 3), base solutions (with pH less than 12), heavy metals, radioactive residues, inorganics and miscellaneous waste materials.

AR100032

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE
Unknown				Unknown		Unknown				Unknown	
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS		<input checked="" type="checkbox"/> (1) OILY WASTES		<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS		<input checked="" type="checkbox"/> (1) ACIDS		<input checked="" type="checkbox"/> (1) FLYASH		<input checked="" type="checkbox"/> (1) LABORATORY, PHARMACEUT.	
(2) METALS SLUDGES		(2) OTHER (specify):		(2) NON-HALOGENATED SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL	
<input checked="" type="checkbox"/> (3) PCTW				(3) OTHER (specify):		<input checked="" type="checkbox"/> (3) CAUSTICS		(3) MILLING/MINE TAILINGS		<input checked="" type="checkbox"/> (3) RADIOACTIVE	
(4) ALUMINUM SLUDGE						(4) PESTICIDES		(4) FERROUS SMELTING WASTES		<input checked="" type="checkbox"/> (4) MUNICIPAL	
(5) OTHER (specify):						(5) DYES/INKS		(5) NON-FERROUS SMELTING WASTES		(5) OTHER (specify):	
						(6) CYANIDE		(6) OTHER (specify):			
						(7) PHENOLS					
						(8) HALOGENS					
						(9) PCB					
						<input checked="" type="checkbox"/> (10) METALS					
						(11) OTHER (specify):					

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SO-LID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
benzene		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			71432	35	ppb
1,2-dichloroethylene		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			75344	11	ppb
trichloroethylene		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			79016	76	ppb
vinyl chloride		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				75016	25	ppb
tetrachloroethylene		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				127184	17	ppb
4'4-DDT		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			50293	0.5	ppb
BHC (α, β, γ)		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			319-84-6	0.2	ppb
								319-85-7	0.5	ppb
								58-89-8		ppb
								319-86-8		ppb
toluene		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				108883	420	ppb

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

A. HUMAN HEALTH HAZARDS

Sample analysis indicate concentrations of barium at 100 ppm in the Druck Well, and concentrations of lead at 0.36 ppm in the Frey Well.

AR100033

Continued From Page 4

## VIII. HAZARD DESCRIPTION (continued)

 B. NON-WORKER INJURY/EXPOSURE

Sample analysis indicate concentrations of barium at 100 ppm in the Druck Well and concentrations of lead at 0.36 ppm in the Frey Well.

 C. WORKER INJURY/EXPOSURE

None reported.

 D. CONTAMINATION OF WATER SUPPLY

Recent sample analysis of monitoring wells indicate concentrations of organic and inorganic contaminants which potentially can migrate to off-site drinking supply wells. Some of the substances found in these wells are listed below:

methylene chloride	ethyl benzene	cadmium
1,1-dichloroethane	1,2-trans-dichloroethylene	aluminum
toluene	lead	manganese
1,2-dichloroethane	zinc.	

 E. CONTAMINATION OF FOOD CHAIN

Potentially exists - livestock at surrounding farms drink surface water, springs, and groundwater.

 F. CONTAMINATION OF GROUND WATER

Recent sample analysis of five on-site monitoring wells revealed a variety of organic contaminants including:

methylene chloride = 450-730 ppb	1,2-dichloroethane = 24 ppb
1,1-dichloroethane = 27-260 ppb	ethyl benzene = 53-69 ppb
1,2-trans-dichloroethylene = 120-150 ppb	
toluene = 230-420 ppb	

 G. CONTAMINATION OF SURFACE WATER

Potential exists because recent sample analysis of springhouses flowing into the tributary of Kreutz Creek reveal the following concentrations of contaminants.

Springhouse A: methylene chloride = 29 ppb, 1,1,1-trichloroethane = 12 ppb, 1,1-dichloroethane = 27 ppb.  
 Springhouse B: methylene chloride = 179 ppb, beta BHC = 0.2 ppb, delta BHC = 0.2 ppb, 1,1,1-trichloroethane = 55 ppb, 1,1-dichloroethane = 37 ppb, trichloroethylene = 75 ppb, 1,1-dichloroethylene = 11 ppb, 1,2-trans-dichloroethylene = 37 ppb.

VIII. HAZARD DESCRIPTION (continued)

H. DAMAGE TO FLORA/FAUNA

not applicable

I. FISH KILL

Potential exists due to the inorganic and organic contamination of tributaries leading to Kreutz Creek which is stocked with trout.

J. CONTAMINATION OF AIR

HNU readings of selected heads of monitoring wells:

Monitoring Well A-1 - 5 ppm above background; background (= 0 ppm)

Monitoring Well A-2 - 1.5 ppm above background; background (= 0 ppm)

K. NOTICEABLE ODORS

Typical landfill odors noticed throughout area of site.

L. CONTAMINATION OF SOIL

not applicable

M. PROPERTY DAMAGE

not applicable

VIII. HAZARD DESCRIPTION (continued)

N. FIRE OR EXPLOSION

none reported

O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

none reported

P. SEWER, STORM DRAIN PROBLEMS

not applicable

Q. EROSION PROBLEMS

not applicable

R. INADEQUATE SECURITY

not applicable

S. INCOMPATIBLE WASTES

Potential exists: Eckhardt List reports disposal of acids and bases into landfill.



VIII. HAZARD DESCRIPTION (continued)

T. MIDNIGHT DUMPING

none reported

U. OTHER (specify):

On site treatment plant for leachate is inoperative. Leachate is discharging directly to surface stream without treatment.

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	800	800/1 mile radius	200	1 mile radius
2. IN COMMERCIAL OR INDUSTRIAL AREAS	not applicable			
3. IN PUBLICLY TRAVELLED AREAS	Route 124			
4. PUBLIC USE AREAS (parks, schools, etc.)	not applicable			

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify units) approximately 50 ft.	B. DIRECTION OF FLOW northwest and northeast	C. GROUNDWATER USE IN VICINITY potable water
D. POTENTIAL YIELD OF AQUIFER approximately 5 - 10 gpm	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) less than 1/4 mile	F. DIRECTION TO DRINKING WATER SUPPLY north, south, east and west

G. TYPE OF DRINKING WATER SUPPLY

1. NON-COMMUNITY < 15 CONNECTIONS\*    
  2. COMMUNITY (specify town): \_\_\_\_\_ > 15 CONNECTIONS  
 3. SURFACE WATER    
  4. WELL

AR100037

ORIGINAL  
(200)

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
Druck	approx. 100'	R.D. #9 - Box 317 York, PA 17402	X	
Frey	35'	R.D. #9 - Box 116 York, PA 17402	X	
Peters	75'	R.D. #9 - Red Front Road York, PA 17402	X	

I. RECEIVING WATER

1. NAME: Kreutz Creek  
 2. SEWERS  3. STREAMS/RIVERS  
 4. LAKES/RESERVOIRS  5. OTHER (specify):

B. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Kreutz Creek is seasonally stocked with trout by the Starview Sportsman Club under the PA Fish Commission Co-op Nursery Program. It is also classified as a warm water fish protected waterway.

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

- A. KNOWN FAULT ZONE  B. KARST ZONE  C. 100 YEAR FLOOD PLAIN  D. WETLAND  
 E. A REGULATED FLOODWAY  F. CRITICAL HABITAT  G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

A. OVERBURDEN	B. BEDROCK (specify below)	C. OTHER (specify below)
X 1. SAND	X Harpers Phyllite	
X 2. CLAY	X Antietam Quartzite	
3. GRAVEL		

XIII. SOIL PERMEABILITY

- A. UNKNOWN  B. VERY HIGH (100,000 to 1000 cm/sec.)  C. HIGH (1000 to 10 cm/sec.)  
 D. MODERATE (10 to .1 cm/sec.)  E. LOW (.1 to .001 cm/sec.)  F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

1. YES  2. NO 3. COMMENTS:

H. DISCHARGE AREA

1. YES  2. NO 3. COMMENTS: Numerous springs are prevalent

I. SLOPE

1. ESTIMATE % OF SLOPE: 3-15%  
 2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: northeast/northwest

J. OTHER GEOLOGICAL DATA

Area of site is located on a known fault zone - the Martic Overthrust.

AR100038

ORIGINAL  
(Red)

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
State	PA DER	100113	8-17-78	none		*	

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

NONE  YES (summarize in this space)

A letter sent by the PA DER to SCA Services on June 25, 1981 regarding a June 4, 1981 inspection at the landfill, in which the following violations were observed:

1. The two sedimentation basins which were breached, without approval from the Department, must be repaired as soon as possible. Suitable risers and emergency spillways must be installed in accordance with Chapter 102 regulations and as specified in the design plans.
2. Samples collected at the facility on January 27, 1981 and March 2, 1981 revealed volatile organic compounds in the groundwater. The location and concentration of these compounds in monitoring wells strongly suggest the possibility of off-site migration of contaminants in the groundwater to the east of the landfill. Organics are also being discharged to a tributary of Kreutz Creek, through the inactive treatment plant's outfall.
3. The results of the inspection indicate that site conditions and operations at Modern Landfill are not in conformance with the Department approved design plans dated January 1975, updated design plans must be submitted depicting the actual site layout and construction.

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

\*SCA services are currently working with the PA DER to correct any problems that exist at the landfill.

LANDFILLS SITE INSPECTION REPORT  
(Supplemental Report)

INSTRUCTION

Answer and Explain  
as Directed.

1. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc)

YES  NO

2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMISOLIDS AND SLUDGES INTO THE LANDFILL

YES  NO

Sample results reveal groundwater contamination.

3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK

YES  NO

not applicable

4. WASTES SURROUNDED BY SOFTEN MATERIAL

YES  NO

not applicable

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED

YES  NO

surface water diversion

6. EVIDENCE OF PONDING OF WATER ON SITE

YES  NO

7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING

YES  NO

8. ADEQUATE LEACHATE COLLECTION SYSTEM (If "Yes", specify Type)

YES  NO

Leachate treatment plant is inoperative.  
Organics contamination in spring houses.

8a. SURFACE LEACHATE SPRING

YES  NO

9. RECORDS OF LEACHATE ANALYSIS

YES  NO

Inactive treatment plant discharge.

10. GAS MONITORING

YES  NO

Monitor vent pipes.

11. GROUNDWATER MONITORING WELLS

YES  NO

12. ARTIFICIAL MEMBRANE LINER INSTALLED

YES  NO

13. SPECIFIC CONTAINMENT MEASURES (Clay Bottom, Sides, etc)

YES  NO

14. FIXATION (Stabilization) OF WASTE

YES  NO

15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY

YES  NO

16. COVER (Type)

Silty clay.

16a. THICKNESS

6 inch daily covering  
2-3ft. final covering

16b. PERMEABILITY

low to moderate

16c. DAILY APPLICATION

YES  NO

6 inch daily covering

AR100040

SECTION 6

AR100041

SAMPLE DATA SUMMARY

ORIGINAL  
(Red)

Site Name: Moderns Sanitation Landfill  
 TDD No.: 8915-0E  
 EPA No.: PA-154  
 Date of Sample: 6-22-82

ORGANIC }  
 INORGANIC } COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous); ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendixes)

Element/Compound Name

Sample I.D. No. Types and Location	4-HP-DOT	alpha-BHC	beta-BHC	gamma-BHC	delta-BHC	beta-NF	Chlordane	Methoxychlor	Comment
Sample Blank 1445							10		
Lab Blank									
1432 Duck Well					*	*	*		
1434 P-22s Well							*		
1437 FRY Well	** 0.5	** 0.3					*		
1438 Springhouse A							29		
1436 Springhouse B		** 0.2		** 0.2	*		170		
1437 USTREAM d Discharge					*		*		
1436 TREATMENT PLANT DISCHARGE							*		
1434 DOWNSTREAM OF DISCHARGE	** 0.1						*		
1440 DS - N. tributary					*		*		
1441 US of N tributary							*		
1433 M.W. B-1					12		450		
1435 M.W. B-3		** 0.3					*		
1301 M.W. B-15		** 0.5	** 0.2				*		
1200 M.W. A-2		** 0.3			35		730		
14 M.W. A-2					18		*		Volatile analysis only
< 10ug/l									
* Not determined by GC/MS									

AR100042

SAMPLE DATA SUMMARY

Site Name: Mogera Sanitation Limited  
 TDD No.: 603-03  
 EPA No.: VA-154  
 Date of Sample: 10-27-80

- ORGANIC
- INORGANIC

COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous); ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendix)

Sample I.D. No. Types and Location	Element / Compound Name								Comments
	As	Cd	Cu	Cr	Pb	Mn	Hg	Other	
Sample Blank C 1445	*								
Lab Blank									
1440 RIVER WELL	*								
1437 FRYE WELL	*								
1435 SPRINGHOUSE A	*				12	27	*	*	*
1436 SPRINGHOUSE B				*	55	.37	*	*	5
1439 UPRSTREAM DISCHARGE	*								
1438 TREATMENT PLANT DISCHARGE	*								
1439 DOWNSTREAM OF DISCHARGE									
1440 DS. N. TRIBUTARY									
1441 U.S. N. TRIBUTARY	*		*						*
1420 M.W. B-1	*	*	*	*	65		*	17	76
1424 M.W. B-3	*								
1391 M.W. B-15	*	*							
376 M.W. A-2	*			*	260	12	*	23	
384 M.W. A-1									Volatile analysis cu
< 10 ug/l									ORIGINAL (ppb)

\* Not confirmed by GC/MS

AR100043

SAMPLE DATA SUMMARY

Site Name: Modern Sanitation Landfill  
 TDD No.: 8205-05  
 EPA No.: VA-154  
 Date of Sample: 6-23-82

ORGANIC  
 INORGANIC

COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous) ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendix)

Sample I.D. No. Type and Location	Element/Compound Name									
	1,1,2-trichloroethane	1,2-dichloroethane	1,1-dichloroethylene	1,1,1-trichloroethylene	1,1,2,2-tetrachloroethane	1,1,1,2-tetrachloroethane	1,1,2,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2-trichloroethane	1,1,1-trichloroethane
Sample Blank C1445										
Lab Blank										
C1435 DUCK WELL										
C1440 P. FPC WELL										
C1437 FREY WELL										
C1435 Springhouse A				*						
C1436 Springhouse B	*		11	37						
C1437 UPSTREAM Discharge										
C1438 TREATMENT PLANT DISCHARGE										
C1439 DOWNSTREAM of DISCHARGE										
C1440 DS of N-tributory							*			
C1441 US of N-tributory				*						
C1433 M.W. B-1		24	*	150	*			18		
C1434 M.W. B-3										
C1391 N.W. B-15										
C1370 M.W. A-2		24	*	120	*	1120	25	190	53	
C1389 M.W. A-1		*				230	*	19		Volatiles analysis ca
< 10 ug/l										
* NOT CONFIRMED BY GC/MS										

AR100044

ORIGINAL







SECTION 7

AR100047

ECOLOGY AND ENVIRONMENT, INC.  
TOXICOLOGICAL ASSESSMENT  
SITE: Modern Sanitation  
TDD NO.: F3-8205-05  
EPA NO.: PA-154  
DATE: September 8, 1982

Based on review of Background Information, Site Observations and Laboratory Analytical Data, the following conclusions are indicated:

- There is no indication of an imminent or severe adverse toxicological impact to public health or the environment.
- There are possible indication(s) of potential adverse toxicological and/or environmental impact. A more comprehensive Site Investigation and Sampling Program is recommended.
- A review of the information presented herein is sufficient to indicate a potential adverse impact on human health and/or the environment. A Toxicological Impact Assessment is advised.

Comments: On 6/23/82, TAT III sampled ground and surface waters at Modern Sanitation Landfill.

Sampling included three private drinking water wells, 2 spring and 5 monitoring wells as well as two site adjacent tributaries to Kreutz Creek.

Less than 10 ug/l of carcinogenic benzene and the suspect carcinogen chloroform were detected in Druck's well, located less than 1/4 mile south of the landfill. Of immediate concern is barium detected at 100,000 ug/l in this well. The maximum barium concentration reported in community water supplies in the U.S. is 1,550 ug/l and the normal daily barium intake is 1.2 to 16 mg. The fatal dose in man is .8 to .9 g of BaCl<sub>2</sub> (.55-.6g as barium). Drinking 2 liters of this water per day would correspond to a barium intake of over .2g. Ingestion of barium may cause gastroenteritis, bradycardia with extrasystoles and symptoms of muscular paralysis. Ventricular fibrillation and hypohalemia (potassium deficiency) may occur. Special groups at risk are those taking heart medication (digitalis) and certain other pre-existing disease states.

Frey's well, north of the landfill, contained hazardous levels of lead (360 ug/l) and cadmium at 10 ug/l. DDT at 0.5 ug/l and B-BHC at 0.3 ug/l were also detected in this well. DDT and B-BHC are suspected carcinogens. It should be noted that resampling of these wells for lead by TAT III and site owners revealed significantly lower levels of contamination, (i.e. 5.2 ug/l lead in Frey's well). The effects of lead on the CNS are well documented and children have a higher sensitivity to the toxic effects of lead. Cadmium is cumulative and may produce kidney disease. This metal also may be carcinogenic. The iron and manganese levels in Frey's well are above National Secondary Drinking Water Standards and may cause taste and odor problems.

ORIGINAL  
(Red)

AR100048

Toxicological Assessment

TDD No. F3-8205-05

EPA No. PA-154

Page Two

Peter's well contained trace amounts of freon-11 and 39 ug/l lead. The Water Quality Criteria for lead is 50 ug/l. Freon-11 is relatively non-toxic and probably would not cause any discernable adverse health effects at the level found in this well.

The groundwater under Modern Sanitation Landfill appears to contain known and suspected carcinogens as well as toxic solvents and metals. There is potential for this groundwater to continue to further the contamination of the drinking water supplies in the area. Monitoring wells on the landfill show extensive contamination by various volatiles including the human carcinogens vinyl chloride monomer detected up to 25 ug/l in well A-2 and benzene at 35 ug/l. Suspected carcinogens identified in monitoring wells include TCE at 76 ug/l and PCE at 17 ug/l. Benzene in the groundwater is a serious threat to domestic drinking water supplies as it may cause leukemia and hemopathies from chronic exposure. Among other priority pollutants detected were methylene chloride (700 ug/l), phenol (190 ug/l), toluene (420 ug/l), etc., (see data summary sheets).

Toxic levels of barium at 7100 ug/l, cadmium at 580 ug/l and lead up to 350 ug/l were also detected in a monitoring well (B-1). Two springs at the southwest portion of the landfill appear to have similar contaminants. The carcinogen benzene (less than 10 ug/l) and the potential carcinogen TCE at 75 ug/l in spring B, PCE at less than 10 ug/l in both springs and 1,1-dichloroethylene at 11 ppb in spring B were detected. Other solvents found in the springs include 1,1,1-trichloroethane at 55 ug/l in spring B, 1,1-dichloroethane from 2.7 to 37 ppb and methylene chloride from 29 to 170 ug/l. The springs are not used, however, both flow into an unnamed western tributary of Kreutz Creek which is stocked with trout.

Surface water samples collected by FIT III from the unnamed tributaries leading to Kreutz Creek used for recreational fishing revealed cadmium at 16 ug/l and trace amounts of benzene and toluene in the north tributary, and 0.1 ug/l BHC in the west tributary. BHC does bioaccumulate and since Kreutz Creek is used as a water supply for meat cattle, it should be resampled when wells are resampled. Dilution and the volatile nature of the solvents on the springs may account for non detection of these compounds in the tributaries. The level of cadmium in the north tributary (16 ug/l) may be enough to effect certain sensitive salmonoid fishes that maybe in Kreutz Creek Quality Criteria For Water, 1976, p.27).

HNU readings of ambient air taken during the FIT site inspection revealed no apparent release of contaminants into the air.

  
Gregg Crystall, Industrial Hygienist

  
Kenneth G. Symms, Ph.D., Toxicologist

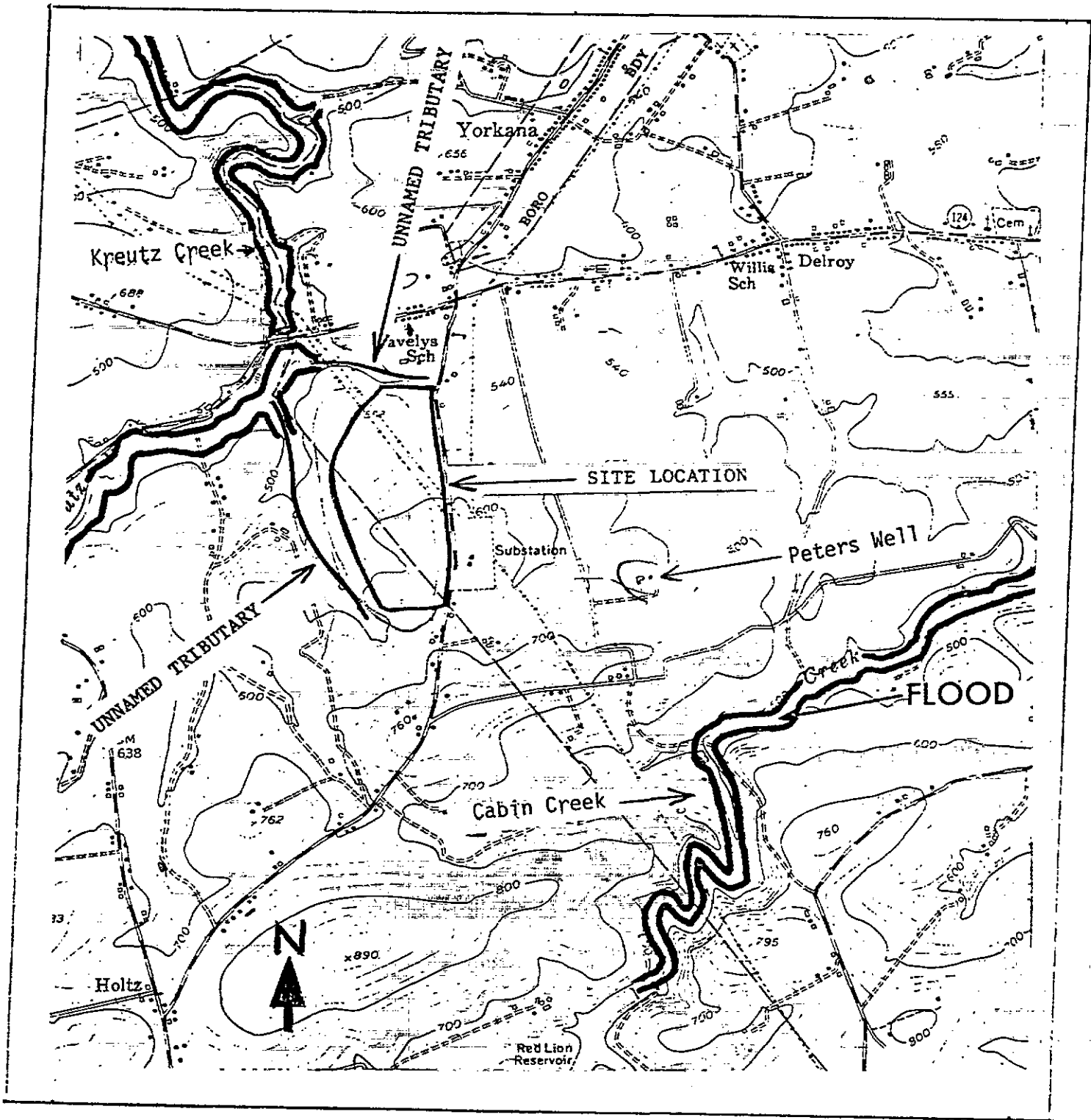
AR100049

ORIGINAL  
(2 of 4)

SECTION 8

AR100050

SITE NAME: Modern Sanitation Landfill  
TID NO.: 2205-05  
EPA NO.: PA-134  
TITLE: Site Location Map  
FIGURE NO. B.1



SOURCE: U.S.G.S. Topographic - Red Lion, Pa.

SCALE: 1" = 2000'

AR100051

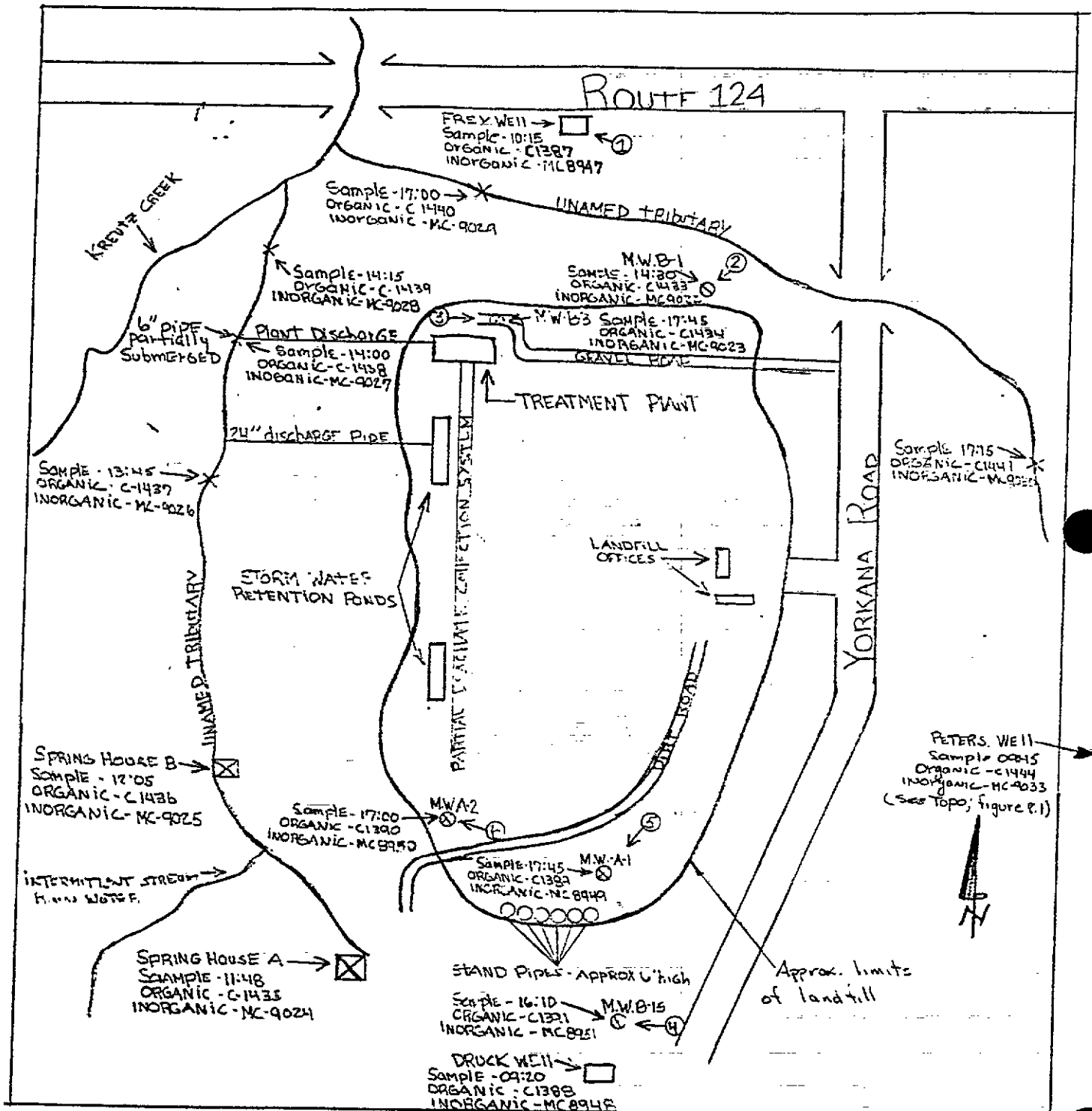
ORIGINAL

SITE NAME: MODERN SANITATION LANDFILL

UID NO.: 8205-05

EPA NO.: PA-154

TITLE: SITE SKETCH WITH SAMPLING/PHOTOGRAPH LOCATIONS  
FIGURE NO. B.2



SOURCE: SITE OBSERVATIONS 6-23-87

SCALE: NONE

ORIGINAL  
(201)

AR100052



SECTION 9

AR100053

Modern Sanitation Landfill  
TDD No. F3-8205-05  
EPA No. PA-154

PHOTOGRAPHIC LOG

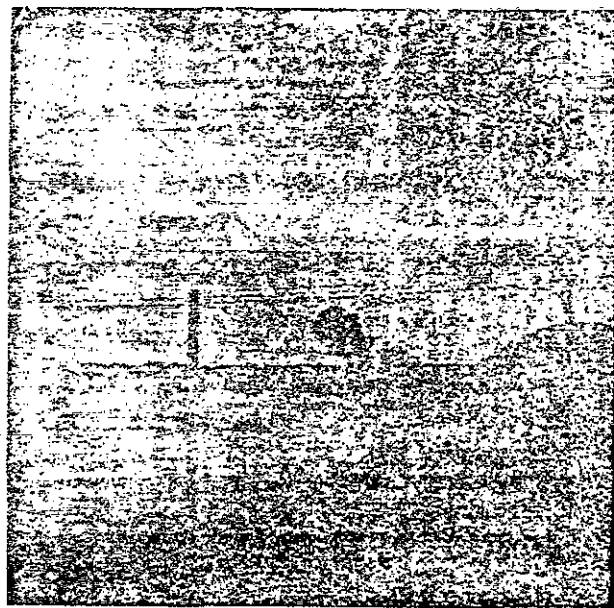
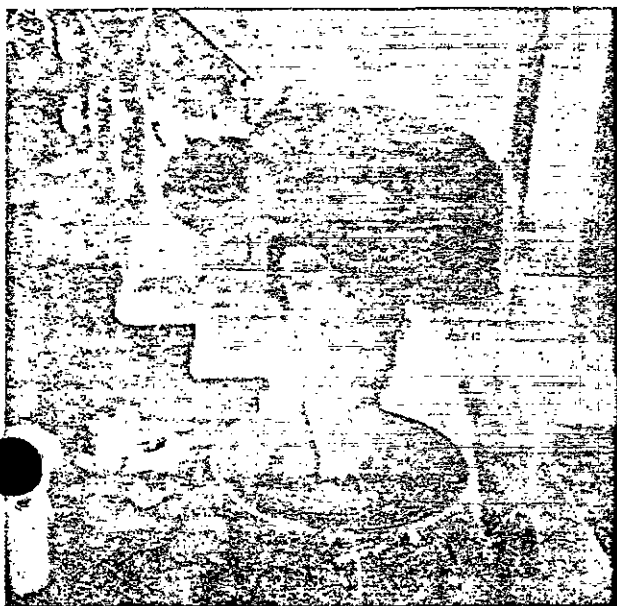
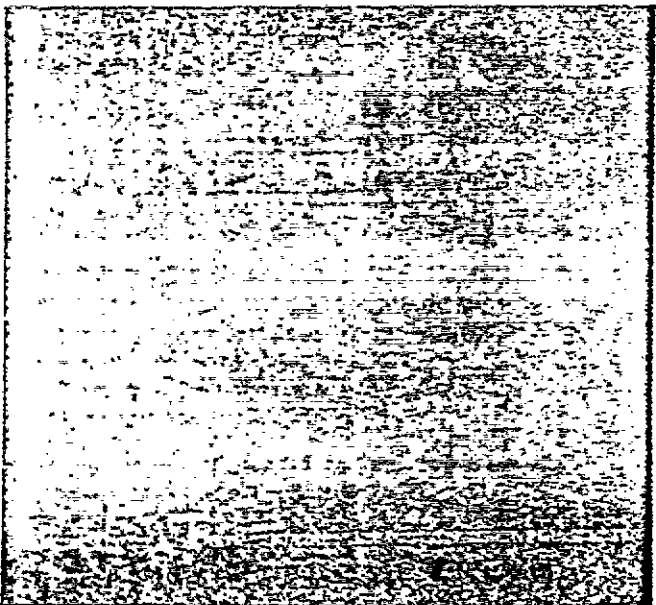


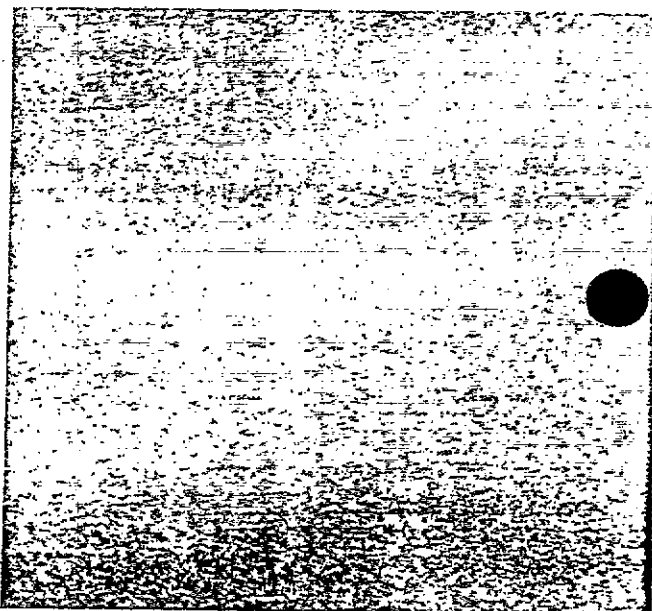
Photo 1 - Sampling of Frey Well.

Photo 2 - Monitoring Well B-1.

ORIGINAL  
17



<sup>12</sup>  
Dave Nicholas  
18.55 Bailey for Well 8205-05  
June 23, 1982 Models Scintation  
Atthemo Phipps



121151.0709  
Well #1 for Monlow (2)  
Dave Nicholas 8205-05  
L. J. Jones for Models Scintation

AR100055

Modern Sanitation Landfill

FDD No. F3-8205-05

EPA No. PA-154

Photographic Log

ORIGINAL  
1/27/71

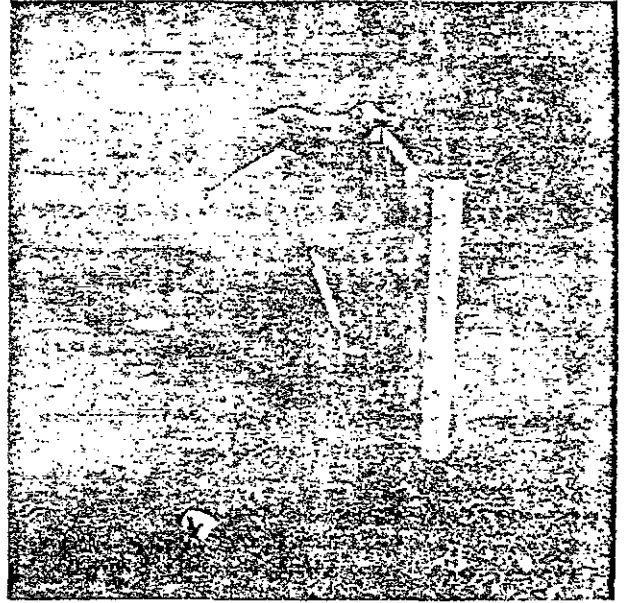
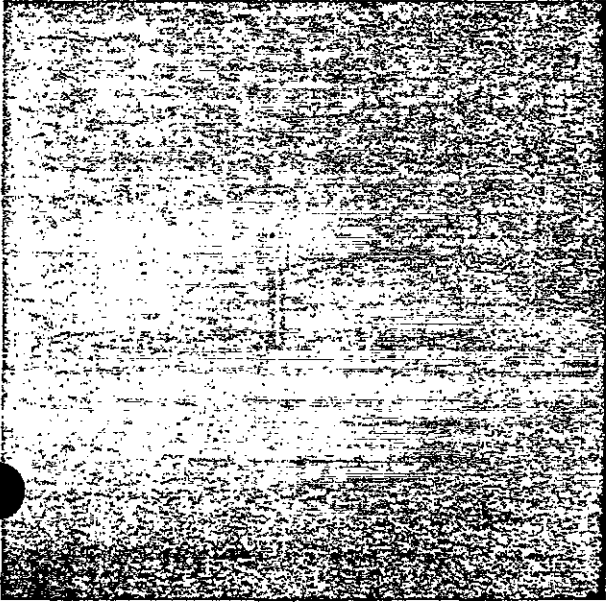
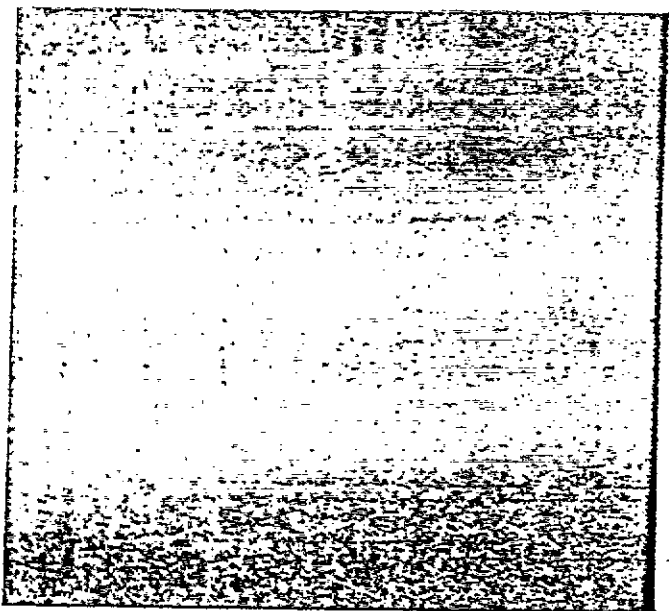
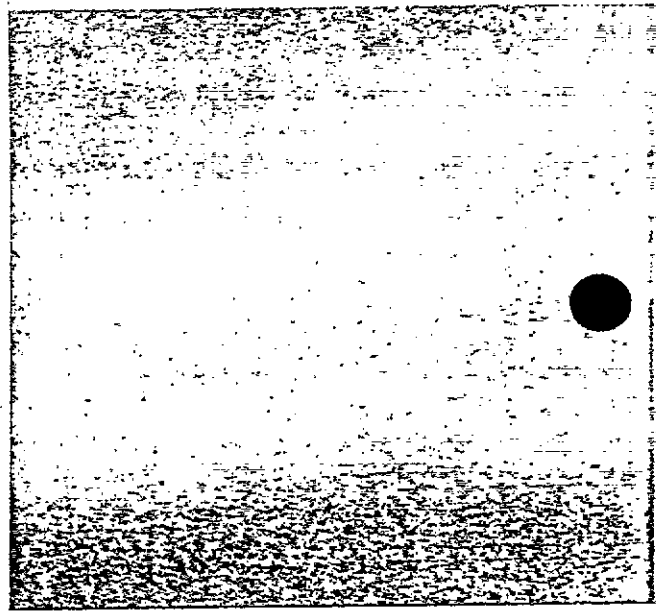


Photo 3 - Monitoring Well B-3. Photo 4 - Sampling Monitoring Well B-15.

ORIGINAL  
(7/27)



Well B-3 Modern Sonotone  
\$3.00 8205-05  
Thomas W. Jerns 6-23-82



B-15 Modern Sonotone  
Thomas W. Jerns 4.00 8205-05  
6-27-82

AR100057

ORIGINAL

Modern Sanitation Landfill  
TDD No. F3-8205-05  
EPA No. PA-154  
Photographic Log

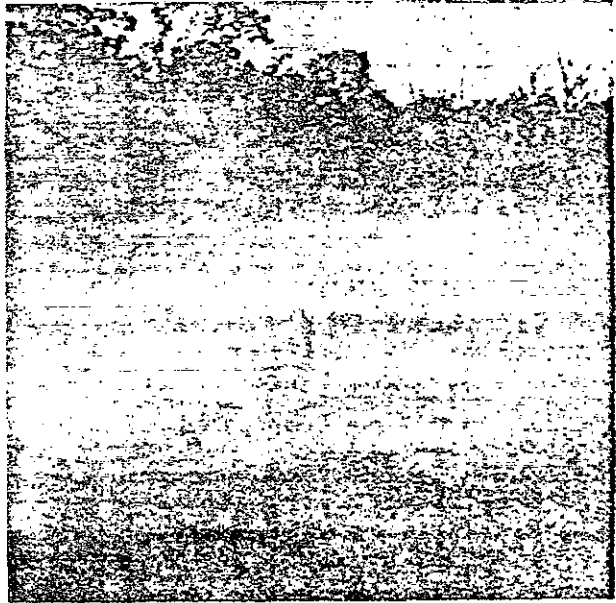
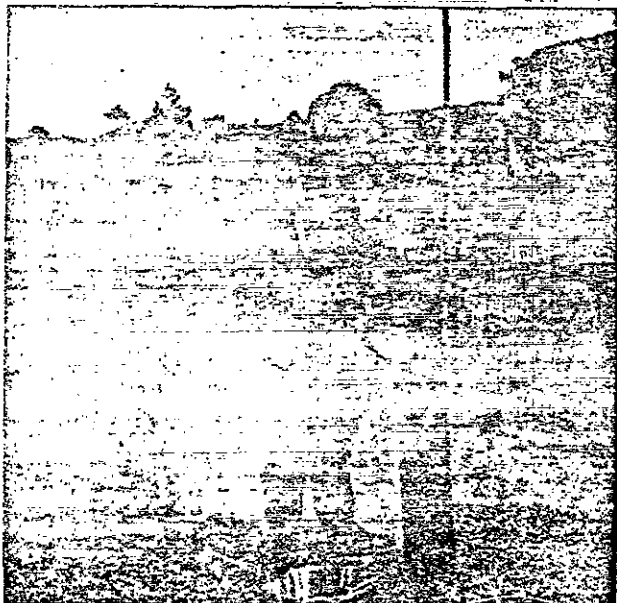
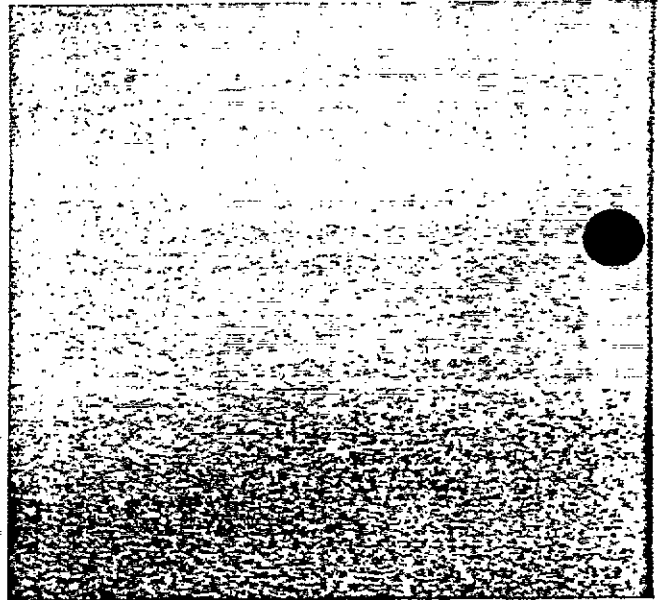
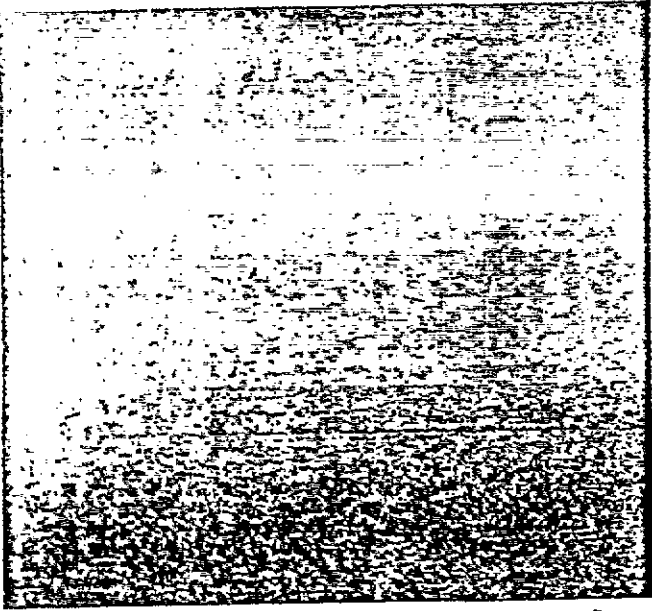


Photo 5 - Sampling Monitoring Well A-1.

Photo 6 - Monitoring Well A-2.

ORIGINAL



Modern Scientific  
8205-05  
6-27-82

1700  
well A-2

AR100059

SECTION 10

AR100060



APPENDIX A

AR100061

ORIGINAL  
(Red)

APPENDIX A

LIST OF REFERENCES

1) AGES Corp. Report No. 43081 September 1981. Revised March, 1982.

2) Soil Survey -- York County Pennsylvania  
Series 1959, No. 23  
Issued May, 1963

AR100062

APPENDIX B1

AR100063

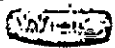
112/221

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C1387	SAMPLE ID C1387
LAB ID 23927A13	LAB ID 23937B15
DATE EXTRACTED 6-26-82	DATE EXTRACTED 6-25-82
DATE INJECTED 7-26-82	DATE INJECTED 7-19-82
STD ID SENS273 PHEN431	STD ID BENZ6000 BNSTD593
CONC FACTOR 1000	CONC FACTOR 1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl) phthalate	ND
		67B butyl benzyl phthalate	ND
		68B di-n-butyl phthalate	*
		69B di-n-octyl phthalate	ND
1B acenaphthene	ND	70B diethyl phthalate	ND
5B benzidine	ND	71B dimethyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	72B benzo(a) anthracene	ND
9B hexachlorobenzene	ND	73B benzo(a)pyrene	ND
12B hexachloroethane	ND	74B 3,4-benzofluoranthene	ND
18B bis(2-chloroethyl)ether	ND	75B benzo(k)fluoranthene	ND
20B 2-chloronaphthalene	ND	76B chrysene	ND
25B 1,2-dichlorobenzene	ND	77B acenaphthylene	ND
26B 1,3-dichlorobenzene	ND	78B anthracene	ND
27B 1,4-dichlorobenzene	ND	79B benzo(ghi)perylene	ND
28B 3,3'-dichlorobenzidine	ND	80B fluorene	ND
35B 2,4-dinitrotoluene	ND	81B phenanthrene	ND
36B 2,6-dinitrotoluene	ND	82B dibenzo(a,h)anthracene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND	83B indeno(1,2,3-cd)pyrene	ND
39B fluoranthene	ND	84B pyrene	ND
40B 4-chlorophenyl phenyl ether	ND	129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

ART00064



WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(red)

SAMPLE ID C1387  
 LAB ID 23927V17  
 DATE INJECTED 7-15-82  
 STD ID BFB011 VOL344  
 CONC. FACTOR

SAMPLE ID C1387  
 LAB ID TRACE #7618  
 DATE EXTRACTED 6-27-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7616  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	ND
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	*
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	0.5**
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	0.3**
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

ARI00065



WEST COAST TECHNICAL SERVICE INC.  
ORGANICS ANALYSIS DATA SHEET - Page 3

ORIGINAL

QC Report No: 6077-12

Sample Number  
C1387

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	48	50	96
1-Chloro-2-Bromopropane	VOA	44	50	88
Toluene - d8	VOA	48	50	96
2-Fluorophenol	ACID	54	107	50
Phenol - d5	ACID	1	10	10
Nitrobenzene - d5	B/N	109	104	105
2-Fluorobiphenyl	B/N	97	101	96
Naphthalene=D8	B/N	119	102	117

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	B/N #78	NO GOOD FIT
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				AR100066

DRUCK well

ORIGINAL  
(3/4)

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID            C1388  
 LAB ID                23927A11  
 DATE EXTRACTED        6-26-82  
 DATE INJECTED         7-26-82  
 STD ID                SENS273 PHEN431  
 CONC FACTOR            1000

SAMPLE ID            C1388  
 LAB ID                23927B12  
 DATE EXTRACTED        6-25-82  
 DATE INJECTED         7-18-82  
 STD ID                BENZ598 BNSTD592  
 CONC FACTOR            1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds	ug/l
1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloropethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

ARI00067

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C1388  
 LAB ID 23927V15  
 DATE INJECTED 7-15-82  
 STD ID BFB011 VOL344  
 CONC. FACTOR

SAMPLE ID C1388  
 LAB ID TRACE #7619  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7616  
 CONC. FACTOR 100

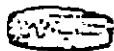
Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	*
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	ND
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	*
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	*
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

ARI00068





WEST COAST TECHNICAL SERVICE INC.  
ORGANICS ANALYSIS DATA SHEET - Page 3

ORIGINAL  
(1974)

QC Report No: 6077-12

Sample Number  
C1388

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	41	50	82
1-Chloro-2-Bromopropane	VOA	41	50	82
Toluene - d8	VOA	43	50	46
2-Fluorophenol	ACID	54	107	50
Phenol - d5	ACID	1	10	10
Nitrobenzene - d5	B/N	74	104	71
2-Fluorobiphenyl	B/N	78	101	77
Naphthalene-D8	B/N	31	102	30

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	B/N #226	NO GOOD FIT
2.		UNKNOWN	B/N #371	NO GOOD FIT
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				AR100069

R.W.A-1

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

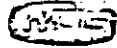
ORIGINAL  
7-21

SAMPLE ID <u>C1389</u>	SAMPLE ID <u>NO SAMPLE</u>
LAB ID <u>23927V28</u>	LAB ID _____
DATE INJECTED <u>7-16-82</u>	DATE EXTRACTED _____
STD ID <u>VOL346 23927V22</u>	DATE INJECTED _____
CONC. FACTOR _____	STD ID _____
	CONC. FACTOR _____

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	NA
3V acrylonitrile	ND	90P dieldrin	NA
4V benzene	18	91P chlordane	NA
6V carbon tetrachloride	ND	92P 4,4'-DDT	NA
7V chlorobenzene	ND	93P 4,4'-DDE	NA
10V 1,2-dichloroethane	*	94P 4,4'-DDD	NA
11V 1,1,1-trichloroethane	ND	95P alpha-endosulfan	NA
13V 1,1-dichloroethane	ND	96P beta-endosulfan	NA
14V 1,1,2-trichloroethane	ND	97P endosulfan sulfate	NA
15V 1,1,2,2-tetrachloroethane	ND	98P endrin	NA
16V chloroethane	ND	99P endrin aldehyde	NA
17V bis(chloromethyl) ether	ND	100P heptachlor	NA
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	NA
23V chloroform	ND	102P alpha-BHC	NA
29V 1,1-dichloroethylene	ND	103P beta-BHC	NA
30V 1,2-trans-dichloroethylene	ND	104P gamma-BHC	NA
32V 1,2-dichloropropane	ND	105P delta-BHC	NA
33V 1,3-dichloropropylene	ND	106P PCB-1242	NA
38V ethylbenzene	69	107P PCB-1254	NA
44V methylene chloride	*	108P PCB-1221	NA
45V methyl chloride	ND	109P PCB-1232	NA
46V methyl bromide	ND	110P PCB-1248	NA
47V bromoform	ND	111P PCB-1260	NA
48V dichlorobromomethane	ND	112P PCB-1016	NA
49V trichlorofluoromethane	ND	113P toxaphene	NA
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND		
85V tetrachloroethylene	ND		
86V toluene	230		
87V trichloroethylene	ND		
88V vinyl chloride	*		

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100070



ORIGINAL  
(Red)

OC Report No: 6077-12

Sample Number  
C1389

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	45	50	90
1-Chloro-2-Bromopropane	VOA	41	40	82
Toluene - d8	VOA	39	50	78
2-Fluorophenol	ACID	NA	NA	NA
Phenol - d5	ACID	NA	NA	NA
Nitrobenzene - d5	B/N	NA	NA	NA
2-Fluorobiphenyl	B/N	NA	NA	NA
Naphthalene-D8	B/N	NA	NA	NA

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA #95	NO GOOD FIT
2.		ISOPROPANOL	VOA #108	916
3.		UNKNOWN	VOA #115	NO GOOD FIT
4.		ETHYL ETHER	VOA #152	826
5.		UNKNOWN	VOA #211	NO GOOD FIT
6.		2-HEXANONE	VOA #285	923
7.		UNKNOWN	VOA #298	NO GOOD FIT
8.		UNKNOWN	VOA #356	NO GOOD FIT
9.		UNKNOWN	VOA #442	NO GOOD FIT
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				AR100071

M.W. A-2

ORIGINAL  
(Red)

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID	C1390	SAMPLE ID	C1390
LAB ID	23927A9	LAB ID	23927B11
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-18-82
STD ID	SENS273 PHEN431	STD ID	BENZ598 BNSTD592
CONC FACTOR	1000	CONC FACTOR	1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	190	63B N-nitrosodi-n-propylamine	ND

Base/Neutral Compounds	ug/l	Base/Neutral Compounds	ug/l
1B acenaphthene	ND	67B butyl benzyl phthalate	ND
5B benzidine	ND	68B di-n-butyl phthalate	*
8B 1,2,4-trichlorobenzene	ND	69B di-n-octyl phthalate	ND
9B hexachlorobenzene	ND	70B diethyl phthalate	ND
12B hexachloroethane	ND	71B dimethyl phthalate	ND
18B bis(2-chloroethyl) ether	ND	72B benzo(a) anthracene	ND
20B 2-chloronaphthalene	ND	73B benzo(a) pyrene	ND
25B 1,2-dichlorobenzene	ND	74B 3,4-benzofluoranthene	ND
26B 1,3-dichlorobenzene	ND	75B benzo(k)fluoranthene	ND
27B 1,4-dichlorobenzene	ND	76B chrysene	ND
28B 3,3'-dichlorobenzidine	ND	77B acenaphthylene	ND
35B 2,4-dinitrotoluene	ND	78B anthracene	ND
36B 2,6-dinitrotoluene	ND	79B benzo(ghi)perylene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND	80B fluorene	ND
39B fluoranthene	ND	81B phenanthrene	ND
40B 4-chlorophenyl phenyl ether	ND	82B dibenzo(a,h)anthracene	ND
		83B indeno(1,2,3-cd)pyrene	ND
		84B pyrene	ND
		129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

ARI00072

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(Red)

SAMPLE ID C1390  
 LAB ID 23927V13  
 DATE INJECTED 7-15-82  
 STD ID BFB011 VOL344  
 CONC. FACTOR -----

SAMPLE ID C1390  
 LAB ID TRACE #7620  
 DATE EXTRACTED 6-27-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7616  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	35
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	24
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	260
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	12
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	*
30V 1,2-trans-dichloroethylene	120
32V 1,2-dichloropropane	*
33V 1,3-dichloropropylene	ND
38V ethylbenzene	53
44V methylene chloride	730
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	*
86V toluene	420
87V trichloroethylene	23
88V vinyl chloride	25

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	0.3**
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100073



ORIGINAL  
(Red)

OC Report No: 6077-12

Sample Number  
C1390

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	48	50	96
1-Chloro-2-Bromopropane	VOA	45	50	90
Toluene - d8	VOA	42	50	94
2-Fluorophenol	ACID	84	107	79
Phenol - d5	ACID	7	10	70
Nitrobenzene - d5	B/N	18	104	17
2-Fluorobiphenyl	B/N	71	101	70
Naphthalene-D8	B/N	72	102	70

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		DICHLOROFLUOROMETHANE	VOA #95	954
2.		ACETONE	VOA #112	920
3.		2-PROPANOL	VOA #125	912
4.		1,1-OXYBISETHANE	VOA #169	941
5.		2-BUTANONE	VOA #181	939
6.		2-BUTANOL	VOA #191	921
7.		UNKNOWN	VOA #250	NO GOOD FIT
8.		UNKNOWN	VOA #300	NO GOOD FIT
9.		4-METHYL-2-PENTANOL	VOA #314	923
10.		XYLENE	B/N #45	992
11.		UNKNOWN	B/N #460	NO GOOD FIT
12.		PROPANOIC ACID	ACID #36	938
13.		BUTANOIC ACID	ACID #54	890
14.		PENTANOIC ACID	ACID #79	924
15.		HEXANOIC ACID	ACID #105	939
16.		METHYLPHENOL	ACID #147	GENERAL FIT
17.				
18.				
19.				
20.				

AR100074

M.W. 15-15

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

1518A  
(7-82)

SAMPLE ID C1391  
 LAB ID 23927A14  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 7-26-82  
 STD ID SENS273 PHEN431  
 CONC FACTOR 1000

SAMPLE ID C1391  
 LAB ID 23927B16  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-19-82  
 STD ID BENZ6000 BNSTD593  
 CONC FACTOR 1000

Acid Compounds ug/l

21A 2,4,6-trichlorophenol ND  
 22A p-chloro-m-cresol ND  
 24A 2-chlorophenol ND  
 31A 2,4-dichlorophenol ND  
 34A 2,4-dimethylphenol ND  
 57A 2-nitrophenol ND  
 58A 4-nitrophenol ND  
 59A 2,4-dinitrophenol ND  
 60A 4,6-dinitro-o-cresol ND  
 64A pentachlorophenol ND  
 65A phenol ND

Base/Neutral Compounds ug/l

41B 4-bromophenyl phenyl ether ND  
 42B bis(2-chloroisopropyl) ether ND  
 43B bis(2-chloroethoxy) methane ND  
 52B hexachlorobutadiene ND  
 53B hexachlorocyclopentadiene ND  
 54B isophorone ND  
 55B naphthalene ND  
 56B nitrobenzene ND  
 61B N-nitrosodimethylamine ND  
 62B N-nitrosodiphenylamine ND  
 63B N-nitrosodi-n-propylamine ND  
 66B bis(2-ethylhexyl) phthalate \*  
 67B butyl benzyl phthalate ND  
 68B di-n-butyl phthalate \*  
 69B di-n-octyl phthalate ND  
 70B diethyl phthalate ND  
 71B dimethyl phthalate ND  
 72B benzo(a) anthracene ND  
 73B benzo(a)pyrene ND  
 74B 3,4-benzofluoranthene ND  
 75B benzo(k)fluoranthene ND  
 76B chrysene ND  
 77B acenaphthylene ND  
 78B anthracene ND  
 79B benzo(ghi)perylene ND  
 80B fluorene ND  
 81B phenanthrene ND  
 82B dibenzo(a,h)anthracene ND  
 83B indeno(1,2,3-cd)pyrene ND  
 84B pyrene ND  
 129B 2,3,7,8-tetrachlorodibenzo-  
 p-dioxin

Base/Neutral Compounds

1B acenaphthene ND  
 5B benzidine ND  
 8B 1,2,4-trichlorobenzene ND  
 9B hexachlorobenzene ND  
 12B hexachloroethane ND  
 18B bis(2-chloroethyl)ether ND  
 20B 2-chloronaphthalene ND  
 25B 1,2-dichlorobenzene ND  
 26B 1,3-dichlorobenzene ND  
 27B 1,4-dichlorobenzene ND  
 28B 3,3'-dichlorobenzidine ND  
 35B 2,4-dinitrotoluene ND  
 36B 2,6-dinitrotoluene ND  
 37B 1,2-diphenylhydrazine  
 (as azobenzene) ND  
 39B fluoranthene ND  
 40B 4-chlorophenyl phenyl ether ND

AR100075 ND

ORIGINAL  
(7/82)

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY \_\_\_\_\_

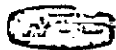
SAMPLE ID	C1391	SAMPLE ID	C1391
LAB ID	23927V21	LAB ID	TRACE #7621
DATE INJECTED	7-15-82	DATE EXTRACTED	6-25-82
STD ID	BFB012 VOA345	DATE INJECTED	7-10-82
CONC. FACTOR	-----	STD ID	TRACE #7625
		CONC. FACTOR	100

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	ND
3V acrylonitrile	ND	90P dieldrin	ND
4V benzene	ND	91P chlordane	ND
6V carbon tetrachloride	ND	92P 4,4'-DDT	ND
7V chlorobenzene	ND	93P 4,4'-DDE	ND
10V 1,2-dichloroethane	ND	94P 4,4'-DDD	ND
11V 1,1,1-trichloroethane	ND	95P alpha-endosulfan	ND
13V 1,1-dichloroethane	ND	96P beta-endosulfan	ND
14V 1,1,2-trichloroethane	ND	97P endosulfan sulfate	ND
15V 1,1,2,2-tetrachloroethane	ND	98P endrin	ND
16V chloroethane	ND	99P endrin aldehyde	ND
17V bis(chloromethyl) ether	ND	100P heptachlor	ND
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	ND
23V chloroform	ND	102P alpha-BHC	ND
29V 1,1-dichloroethylene	ND	103P beta-BHC	0.5**
30V 1,2-trans-dichloroethylene	ND	104P gamma-BHC	0.2**
32V 1,2-dichloropropane	ND	105P delta-BHC	ND
33V 1,3-dichloropropylene	ND	106P PCB-1242	ND
38V ethylbenzene	ND	107P PCB-1254	ND
44V methylene chloride	*	108P PCB-1221	ND
45V methyl chloride	ND	109P PCB-1232	ND
46V methyl bromide	ND	110P PCB-1248	ND
47V bromoform	ND	111P PCB-1260	ND
48V dichlorobromomethane	ND	112P PCB-1016	ND
49V trichlorofluoromethane	ND	113P toxaphene	ND
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND		
85V tetrachloroethylene	ND		
86V toluene	ND		
87V trichloroethylene	ND		
88V vinyl chloride	ND		

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100076





ORIGINAL  
(2 of 2)

QC Report No: 6077-12

Sample Number  
C1391

\*SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	51	50	102
1-Chloro-2-Bromopropane	VOA	48	50	96
Toluene - d8	VOA	50	50	100
2-Fluorophenol	ACID	19	107	18
Phenol - d5	ACID	2	10	20
Nitrobenzene - d5	B/N	108	104	104
2-Fluorobiphenyl	B/N	90	101	89
Naphthalene-D8	B/N	98	102	96

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	B/N #74	NO GOOD FIT
2.		DIMETHYLBENZENEMETHANOL	B/N #140	992
3.		UNKNOWN	B/N #298	NO GOOD FIT
4.		NONYLPHENOL	B/N #303	877
5.		UNKNOWN	B/N #310	NO GOOD FIT
6.		PHTHALATE	B/N #370	964
7.		UNKNOWN	B/N #545	NO GOOD FIT
8.		UNKNOWN	B/N #575	NO GOOD FIT
9.		UNKNOWN	B/N #614	NO GOOD FIT
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				AR100077



WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

M.W. 3-1

ORIGINAL

SAMPLE ID	C1433	SAMPLE ID	C1433
LAB ID	23927A15	LAB ID	23927B17
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-19-82
STD ID	SENS273 PHEN431	STD ID	BENZ000 BNSTD593
CONC FACTOR	1000	CONC FACTOR	1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl) phthalate	*
		67B butyl benzyl phthalate	ND
		68B di-n-butyl phthalate	*
		69B di-n-octyl phthalate	ND
1B acenaphthene	ND	70B diethyl phthalate	ND
5B benzidine	ND	71B dimethyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	72B benzo(a) anthracene	ND
9B hexachlorobenzene	ND	73B benzo(a)pyrene	ND
12B hexachloroethane	ND	74B 3,4-benzofluoranthene	ND
18B bis(2-chloroethyl)ether	ND	75B benzo(k)fluoranthene	ND
20B 2-chloronaphthalene	ND	76B chrysene	ND
25B 1,2-dichlorobenzene	ND	77B acenaphthylene	ND
26B 1,3-dichlorobenzene	ND	78B anthracene	ND
27B 1,4-dichlorobenzene	ND	79B benzo(ghi)perylene	ND
28B 3,3'-dichlorobenzidine	ND	80B fluorene	ND
35B 2,4-dinitrotoluene	ND	81B phenanthrene	ND
36B 2,6-dinitrotoluene	ND	82B dibenzo(a,h)anthracene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND	83B indeno(1,2,3-cd)pyrene	ND
39B fluoranthene	ND	84B pyrene	ND
40B 4-chlorophenyl phenyl ether	ND	129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

AR100078

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(2/7)

SAMPLE ID C1433  
 LAB ID 23927V20  
 DATE INJECTED 7-15-82  
 STD ID BFB012 VOA345  
 CONC. FACTOR ---

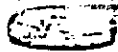
SAMPLE ID C1433  
 LAB ID TRACE #7622  
 DATE EXTRACTED 6-27-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7625  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	12
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	24
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	65
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	*
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	*
30V 1,2-trans-dichloroethylene	150
32V 1,2-dichloropropane	*
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	450
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	*
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	17
86V toluene	ND
87V trichloroethylene	76
88V vinyl chloride	18

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

ARI00079



ORIGINAL  
(2 of 2)

QC Report No: 6077-12

Sample Number  
C1433

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	52	50	104
1-Chloro-2-Bromopropane	VOA	49	50	98
Toluene - d8	VOA	50	50	100
2-Fluorophenol	ACID	50	107	47
Phenol - d5	ACID	ND	10	0
Nitrobenzene - d5	B/N	121	104	117
2-Fluorobiphenyl	B/N	92	101	91
Naphthalene-D8	B/N	98	102	96

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		DIETHYLETHER	VOA #169	946
2.		METHYL SULFIDE	VOA #113	986
3.		DICHLOROFLUOROMETHANE	VOA #96	998
4.				
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19.				
20.				AR100080

M.W. 8-3

ORIGINAL  
7-25-82

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C1434  
 LAB ID 23927A7  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 7-26-82  
 STD ID SENS273 PHEN431  
 CONC FACTOR 1000

SAMPLE ID C1434  
 LAB ID 23927B7  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-18-82  
 STD ID BENZ598 BNSTD592  
 CONC FACTOR 1000

Acid Compounds		ug/l	Base/Neutral Compounds		ug/l
21A	2,4,6-trichlorophenol	ND	41B	4-bromophenyl phenyl ether	ND
22A	p-chloro-m-cresol	ND	42B	bis(2-chloroisopropyl) ether	ND
24A	2-chlorophenol	ND	43B	bis(2-chloroethoxy) methane	ND
31A	2,4-dichlorophenol	ND	52B	hexachlorobutadiene	ND
34A	2,4-dimethylphenol	ND	53B	hexachlorocyclopentadiene	ND
57A	2-nitrophenol	ND	54B	isophorone	ND
58A	4-nitrophenol	ND	55B	naphthalene	ND
59A	2,4-dinitrophenol	ND	56B	nitrobenzene	ND
60A	4,6-dinitro-o-cresol	ND	61B	N-nitrosodimethylamine	ND
64A	pentachlorophenol	ND	62B	N-nitrosodiphenylamine	ND
65A	phenol	ND	63B	N-nitrosodi-n-propylamine	ND
			66B	bis(2-ethylhexyl) phthalate	ND
			67B	butyl benzyl phthalate	ND
			68B	di-n-butyl phthalate	*
			69B	di-n-octyl phthalate	ND
			70B	diethyl phthalate	ND
			71B	dimethyl phthalate	ND
			72B	benzo(a) anthracene	ND
			73B	benzo(a)pyrene	ND
			74B	3,4-benzofluoranthene	ND
			75B	benzo(k)fluoranthene	ND
			76B	chrysene	ND
			77B	acenaphthylene	ND
			78B	anthracene	ND
			79B	benzo(ghi)perylene	ND
			80B	fluorene	ND
			81B	phenanthrene	ND
			82B	dibenzo(a,h)anthracene	ND
			83B	indeno(1,2,3-cd)pyrene	ND
			84B	pyrene	ND
			129B	2,3,7,8-tetrachlorodibenzo-	
				p-dioxin	ND

ART00081

ORIGINAL  
(12-5)

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C1434  
LAB ID 23927V11  
DATE INJECTED 7-15-82  
STD ID VOL344 23927V8  
CONC. FACTOR -----

SAMPLE ID C1434  
LAB ID TRACE #7623  
DATE EXTRACTED 6-27-82  
DATE INJECTED 7-10-82  
STD ID TRACE #7625  
CONC. FACTOR 100

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	ND
3V acrylonitrile	ND	90P dieldrin	ND
4V benzene	ND	91P chlordane	ND
6V carbon tetrachloride	ND	92P 4,4'-DDT	ND
7V chlorobenzene	ND	93P 4,4'-DDE	ND
10V 1,2-dichloroethane	ND	94P 4,4'-DDD	ND
11V 1,1,1-trichloroethane	ND	95P alpha-endosulfan	ND
13V 1,1-dichloroethane	ND	96P beta-endosulfan	ND
14V 1,1,2-trichloroethane	ND	97P endosulfan sulfate	ND
15V 1,1,2,2-tetrachloroethane	ND	98P endrin	ND
16V chloroethane	ND	99P endrin aldehyde	ND
17V bis(chloromethyl) ether	ND	100P heptachlor	ND
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	ND
23V chloroform	ND	102P alpha-BHC	ND
29V 1,1-dichloroethylene	ND	103P beta-BHC	0.3**
30V 1,2-trans-dichloroethylene	ND	104P gamma-BHC	ND
32V 1,2-dichloropropane	ND	105P delta-BHC	ND
33V 1,3-dichloropropylene	ND	106P PCB-1242	ND
38V ethylbenzene	ND	107P PCB-1254	ND
44V methylene chloride	*	108P PCB-1221	ND
45V methyl chloride	ND	109P PCB-1232	ND
46V methyl bromide	ND	110P PCB-1248	ND
47V bromoform	ND	111P PCB-1260	ND
48V dichlorobromomethane	ND	112P PCB-1016	ND
49V trichlorofluoromethane	ND	113P toxaphene	ND
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND		
85V tetrachloroethylene	ND		
86V toluene	ND		
87V trichloroethylene	ND		
88V vinyl chloride	ND		

\* = Less than 10 ug/l  
(pesticides less than 5 ug/l)  
ND = Not detected  
\*\* = Not confirmed by GCMS

ARI00082



ORIGINAL  
(7/8)

OC Report No: 6077-12

Sample Number  
C1434

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	50	50	100
1-Chloro-2-Bromopropane	VOA	44	50	88
Toluene - d8	VOA	49	50	98
2-Fluorophenol	ACID	45	107	42
Phenol - d5	ACID	3	10	30
Nitrobenzene - d5	B/N	89	104	86
2-Fluorobiphenyl	B/N	90	101	89
Naphthalene-D8	B/N	84	102	82

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.				
2.				
3.				
4.				
5.				
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14.				
15.				
16.				
17.				
18.				
19.				
20.				

AR100083

SPRING HOUSE

ORIGINAL  
7/24

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID	C1435	SAMPLE ID	C1435
LAB ID	23927A2	LAB ID	23927B2
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-17-82
STD ID	SENS273 PHEN431	STD ID	BENZ597 BNSTD591
CONC FACTOR		CONC FACTOR	1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl) phthalate	ND
Base/Neutral Compounds		67B butyl benzyl phthalate	ND
		68B di-n-butyl phthalate	*
1B acenaphthene	ND	69B di-n-octyl phthalate	ND
5B benzidine	ND	70B diethyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	71B dimethyl phthalate	ND
9B hexachlorobenzene	ND	72B benzo(a) anthracene	ND
12B hexachloroethane	ND	73B benzo(a)pyrene	ND
18B bis(2-chloroethyl)ether	ND	74B 3,4-benzofluoranthene	ND
20B 2-chloronaphthalene	ND	75B benzo(k)fluoranthene	ND
25B 1,2-dichlorobenzene	ND	76B chrysene	ND
26B 1,3-dichlorobenzene	ND	77B acenaphthylene	ND
27B 1,4-dichlorobenzene	ND	78B anthracene	ND
28B 3,3'-dichlorobenzidine	ND	79B benzo(ghi)perylene	ND
35B 2,4-dinitrotoluene	ND	80B fluorene	ND
36B 2,6-dinitrotoluene	ND	81B phenanthrene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND	82B dibenzo(a,h)anthracene	ND
39B fluoranthene	ND	83B indeno(1,2,3-cd)pyrene	ND
40B 4-chlorophenyl phenyl ether	ND	84B pyrene	ND
		129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

AR100084  
ND



ORIGINAL  
(7/82)

SAMPLE ID C1435  
 LAB ID 23927V24  
 DATE INJECTED 7-16-82  
 STD ID VOL346 23927V22  
 CONC. FACTOR -----

SAMPLE ID C1435  
 LAB ID TRACE #7624  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7625  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	12
13V 1,1-dichloroethane	27
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	*
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	*
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	29
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	*
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	*
86V toluene	ND
87V trichloroethylene	*
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100085



ORIGINAL  
 (7-2)

QC Report No: 6077-13

Sample Number  
 C1435

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	50	50	100
1-Chloro-2-Bromopropane	VOA	46	50	92
Toluene - d8	VOA	50	50	100
2-Fluorophenol	ACID	10	107	9
Phenol - d5	ACID	1	10	10
Nitrobenzene - d5	B/N	47	104	45
2-Fluorobiphenyl	B/N	64	101	63
Naphthalene-D8	B/N	55	102	54

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		DICHLOROFLUOROMETHANE	VOA #96	960
2.		COLUMN ARTIFACT	VOA #403	849
3.				
4.				
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20.				

AR100086

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C1436  
 LAB ID 23927A3  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 6-27-82  
 STD ID SENS273 PHEN431  
 CONC FACTOR 1000

SAMPLE ID C1436  
 LAB ID 23927B3  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-17-82  
 STD ID BENZ597 BNSTD591  
 CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	ND

Base/Neutral Compounds	ug/l
1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl) ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a) pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k) fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi) perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h) anthracene	ND
83B indeno(1,2,3-cd) pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrahydro-2-benzo- p-dioxin	ND

AR100087

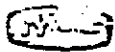
## WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(1-7-82)

SAMPLE ID	C1436	SAMPLE ID	C1436
LAB ID	23927V9	LAB ID	TRACE #7626
DATE INJECTED	7-15-82	DATE EXTRACTED	6-27-82
STD ID	23927V8 VOL344	DATE INJECTED	7-10-82
CONC. FACTOR	-----	STD ID	TRACE #7625
		CONC. FACTOR	100

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	ND
3V acrylonitrile	ND	90P dieldrin	ND
4V benzene	*	91P chlordane	ND
6V carbon tetrachloride	ND	92P 4,4'-DDT	ND
7V chlorobenzene	ND	93P 4,4'-DDE	ND
10V 1,2-dichloroethane	ND	94P 4,4'-DDD	ND
11V 1,1,1-trichloroethane	55	95P alpha-endosulfan	ND
13V 1,1-dichloroethane	37	96P beta-endosulfan	ND
14V 1,1,2-trichloroethane	*	97P endosulfan sulfate	ND
15V 1,1,2,2-tetrachloroethane	ND	98P endrin	ND
16V chloroethane	*	99P endrin aldehyde	ND
17V bis(chloromethyl) ether	ND	100P heptachlor	ND
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	ND
23V chloroform	ND	102P alpha-BHC	ND
29V 1,1-dichloroethylene	11	103P beta-BHC	0.2**
30V 1,2-trans-dichloroethylene	37	104P gamma-BHC	ND
32V 1,2-dichloropropane	ND	105P delta-BHC	0.2**
33V 1,3-dichloropropylene	ND	106P PCB-1242	ND
38V ethylbenzene	ND	107P PCB-1254	ND
44V methylene chloride	170	108P PCB-1221	ND
45V methyl chloride	ND	109P PCB-1232	ND
46V methyl bromide	ND	110P PCB-1248	ND
47V bromoform	ND	111P PCB-1260	ND
48V dichlorobromomethane	ND	112P PCB-1016	ND
49V trichlorofluoromethane	*	113P toxaphene	ND
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND	* = Less than 10 ug/l	
85V tetrachloroethylene	*	(pesticides less than 5 ug/l)	
86V toluene	ND	ND = Not detected	
87V trichloroethylene	75	** = Not confirmed by GCMS	
88V vinyl chloride	ND		

AR100088



WEST COAST TECHNICAL SERVICE INC.  
ORGANICS ANALYSIS DATA SHEET - Page 3

ORIGINAL  
(Red)

QC Report No: 6077-13

Sample Number  
C1436

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	49	50	98
1-Chloro-2-Bromopropane	VOA	45	50	90
Toluene - d8	VOA	48	50	96
2-Fluorophenol	ACID	70	107	65
Phenol - d5	ACID	7	10	70
Nitrobenzene - d5	B/N	57	104	55
2-Fluorobiphenyl	B/N	77	101	76
Naphthalene-D8	B/N	69	102	68

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.				
2.				
3.				
4.				
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20.				AR100089

Jefferson of Plant Discharge

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(12)

SAMPLE ID	C1437	SAMPLE ID	C1437
LAB ID	23927A4	LAB ID	23927B4
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-17-82
STD ID	SENS273 PHEN431	STD ID	BENZ597 BNSTD591
CONC FACTOR	1000	CONC FACTOR	1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 2,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl) phthalate	ND
		67B butyl benzyl phthalate	ND
		68B di-n-butyl phthalate	*
		69B di-n-octyl phthalate	ND
		70B diethyl phthalate	ND
		71B dimethyl phthalate	ND
		72B benzo(a) anthracene	ND
		73B benzo(a)pyrene	ND
		74B 3,4-benzofluoranthene	ND
		75B benzo(k)fluoranthene	ND
		76B chrysene	ND
		77B acenaphthylene	ND
		78B anthracene	ND
		79B benzo(ghi)perylene	ND
		80B fluorene	ND
		81B phenanthrene	ND
		82B dibenzo(a,h)anthracene	ND
		83B indeno(1,2,3-cd)pyrene	ND
		84B pyrene	ND
		129B 2,3,7,8-tetrahydro-2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

AR100090

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(25)

SAMPLE ID C1437  
 LAB ID 23927V5  
 DATE INJECTED 7-14-82  
 STD ID BFB071482 VOA343  
 CONC. FACTOR -----

SAMPLE ID C1437  
 LAB ID TRACE #7627  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7625  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	*
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	ND
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	*
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100091

ORIGINAL  
(REV)

OC Report No: 6077-13

Sample Number  
C1437

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	57	50	114
1-Chloro-2-Bromopropane	VOA	46	50	92
Toluene - d8	VOA	57	50	114
2-Fluorophenol	ACID	59	107	55
Phenol - d5	ACID	ND	10	0
Nitrobenzene - d5	B/N	63	104	61
2-Fluorobiphenyl	B/N	68	101	67
Naphthalene-D8	B/N	46	102	45

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.				
2.				
3.				
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20.				AR100092



WEST COA. TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

LABORATORY

SAMPLE ID C1438  
 LAB ID 23927A5  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 7-26-82  
 STD ID SENS273 PHEN431  
 CONC FACTOR 1000

SAMPLE ID C1438  
 LAB ID 23927B5  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-17-82  
 STD ID BENZ597 BNSTD591  
 CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

Base/Neutral Compounds	ug/l
1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

ART00093

ORIGINAL COPY

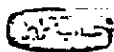
WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C1438  
 LAB ID 23927V6  
 DATE INJECTED 7-14-82  
 STD ID BFB071482 VOA343  
 CONC. FACTOR -----

SAMPLE ID C1438  
 LAB ID TRACE #7628  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7625  
 CONC. FACTOR 100

Volatiles		ug/l	Pesticides		ug/l
2V	acrolein	ND	89P	aldrin	ND
3V	acrylonitrile	ND	90P	dieldrin	ND
4V	benzene	ND	91P	chlordan	ND
6V	carbon tetrachloride	ND	92P	4,4'-DDT	ND
7V	chlorobenzene	ND	93P	4,4'-DDE	ND
10V	1,2-dichloroethane	ND	94P	4,4'-DDD	ND
11V	1,1,1-trichloroethane	ND	95P	alpha-endosulfan	ND
13V	1,1-dichloroethane	ND	96P	beta-endosulfan	ND
14V	1,1,2-trichloroethane	ND	97P	endosulfan sulfate	ND
15V	1,1,2,2-tetrachloroethane	ND	98P	endrin	ND
16V	chloroethane	ND	99P	endrin aldehyde	ND
17V	bis(chloromethyl) ether	ND	100P	heptachlor	ND
19V	2-chloroethylvinyl ether	ND	101P	heptachlor epoxide	ND
23V	chloroform	ND	102P	alpha-BHC	ND
29V	1,1-dichloroethylene	ND	103P	beta-BHC	ND
30V	1,2-trans-dichloroethylene	ND	104P	gamma-BHC	ND
32V	1,2-dichloropropane	ND	105P	delta-BHC	ND
33V	1,3-dichloropropylene	ND	106P	PCB-1242	ND
38V	ethylbenzene	ND	107P	PCB-1254	ND
44V	methylene chloride	*	108P	PCB-1221	ND
45V	methyl chloride	ND	109P	PCB-1232	ND
46V	methyl bromide	ND	110P	PCB-1248	ND
47V	bromoform	ND	111P	PCB-1260	ND
48V	dichlorobromomethane	ND	112P	PCB-1016	ND
49V	trichlorofluoromethane	ND	113P	toxaphene	ND
50V	dichlorodifluoromethane	ND			
51V	chlorodibromomethane	ND	* = Less than 10 ug/l		
85V	tetrachloroethylene	ND	(pesticides less than 5 ug/l)		
86V	toluene	ND	ND = Not detected		
87V	trichloroethylene	ND	** = Not confirmed by GCMS		
88V	vinyl chloride	ND			

AR100094



WEST COAST TECHNICAL SERVICE INC.  
ORGANICS ANALYSIS DATA SHEET - Page 3

ORIGINAL  
(Red)

QC Report No: 6077-13

Sample Number  
C1438

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	57	50	114
1-Chloro-2-Bromopropane	VOA	48	50	96
Toluene - d8	VOA	56	50	112
2-Fluorophenol	ACID	48	107	45
Phenol - d5	ACID	ND	10	0
Nitrobenzene - d5	B/N	61	104	59
2-Fluorobiphenyl	B/N	71	101	70
Naphthalene-D8	B/N	51	102	50

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass-Matching Routine: <u>FIT</u> (specify)
1.				
2.				
3.				
4.				
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AR100095

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL

SAMPLE ID	C1439	SAMPLE ID	C1439
LAB ID	23927A6	LAB ID	23927B6
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-17-82
STD ID	SENS273 PHEN431	STD ID	BENZ597 BNSTD591
CONC FACTOR	1000	CONC FACTOR	1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	21B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl) phthalate	ND
		67B butyl benzyl phthalate	ND
		68B di-n-butyl phthalate	ND
		69B di-n-octyl phthalate	ND
1B acenaphthene	ND	70B diethyl phthalate	ND
5B benzidine	ND	71B dimethyl phthalate	ND
8B 1,2,4-trichlorobenzene	ND	72B benzo(a) anthracene	ND
9B hexachlorobenzene	ND	73B benzo(a)pyrene	ND
12B hexachloroethane	ND	74B 3,4-benzofluoranthene	ND
18B bis(2-chloroethyl) ether	ND	75B benzo(k)fluoranthene	ND
20B 2-chloronaphthalene	ND	76B chrysene	ND
25B 1,2-dichlorobenzene	ND	77B acenaphthylene	ND
26B 1,3-dichlorobenzene	ND	78B anthracene	ND
27B 1,4-dichlorobenzene	ND	79B benzo(ghi)perylene	ND
28B 3,3'-dichlorobenzidine	ND	80B fluorene	ND
35B 2,4-dinitrotoluene	ND	81B phenanthrene	ND
36B 2,6-dinitrotoluene	ND	82B dibenzo(a,h)anthracene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND	83B indeno(1,2,3-cd)pyrene	ND
39B fluoranthene	ND	84B pyrene	ND
40B 4-chlorophenyl phenyl ether	ND	129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

ART00096

SAMPLE ID C1439  
 LAB ID 23927V7  
 DATE INJECTED 7-14-82  
 STD ID BFB071482 VOA343  
 CONC. FACTOR -----

SAMPLE ID C1439  
 LAB ID TRACE #7629  
 DATE EXTRACTED 6-25-82  
 DATE INJECTED 7-10-82  
 STD ID TRACE #7625  
 CONC. FACTOR 50

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	ND
3V acrylonitrile	ND	90P dieldrin	ND
4V benzene	ND	91P chlordane	ND
6V carbon tetrachloride	ND	92P 4,4'-DDT	ND
7V chlorobenzene	ND	93P 4,4'-DDE	ND
10V 1,2-dichloroethane	ND	94P 4,4'-DDD	ND
11V 1,1,1-trichloroethane	ND	95P alpha-endosulfan	ND
13V 1,1-dichloroethane	ND	96P beta-endosulfan	ND
14V 1,1,2-trichloroethane	ND	97P endosulfan sulfate	ND
15V 1,1,2,2-tetrachloroethane	ND	98P endrin	ND
16V chloroethane	ND	99P endrin aldehyde	ND
17V bis(chloromethyl) ether	ND	100P heptachlor	ND
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	ND
23V chloroform	ND	102P alpha-BHC	0.1**
29V 1,1-dichloroethylene	ND	103P beta-BHC	ND
30V 1,2-trans-dichloroethylene	ND	104P gamma-BHC	ND
32V 1,2-dichloropropane	ND	105P delta-BHC	ND
33V 1,3-dichloropropylene	ND	106P PCB-1242	ND
38V ethylbenzene	ND	107P PCB-1254	ND
44V methylene chloride	*	108P PCB-1221	ND
45V methyl chloride	ND	109P PCB-1232	ND
46V methyl bromide	ND	110P PCB-1248	ND
47V bromoform	ND	111P PCB-1260	ND
48V dichlorobromomethane	ND	112P PCB-1016	ND
49V trichlorofluoromethane	ND	113P toxaphene	ND
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND		
85V tetrachloroethylene	ND		
86V toluene	ND		
87V trichloroethylene	ND		
88V vinyl chloride	ND		

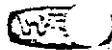
\* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

\*\* = Not confirmed by GCMS

AR100097



ORIGINAL  
(Red)

QC Report No: 6077-13

Sample Number  
C1439

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	59	50	118
1-Chloro-2-Bromopropane	VOA	48	50	96
Toluene - d8	VOA	57	50	114
2-Fluorophenol	ACID	56	107	52
Phenol - d5	ACID	3	10	30
Nitrobenzene - d5	B/N	65	104	63
2-Fluorobiphenyl	B/N	85	101	84
Naphthalene-D8	B/N	16	102	16

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	B/N #225	NO GOOD FIT
2.		UNKNOWN	B/N #368	NO GOOD FIT
3.				
4.				
5.				
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16.				
17.				
18.				
19.				
20.				AR100098

ORIGINAL  
(Red)

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C1440  
LAB ID 23427A10  
DATE EXTRACTED 6-26-82  
DATE INJECTED 7-26-82  
STD ID SENS273 PHEN431  
CONC FACTOR ----1000

SAMPLE ID C1440  
LAB ID 23927B10  
DATE EXTRACTED 6-25-82  
DATE INJECTED 7-18-82  
STD ID BENZ598 BNSTD592  
CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	ND

Base/Neutral Compounds	ug/l
1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

AR100099

ORIGINAL  
(Red)

SAMPLE ID C1440  
 LAB ID 23927V14  
 DATE INJECTED 7-15-82  
 STD ID BFB011 VOA344  
 CONC. FACTOR

SAMPLE ID C1440  
 LAB ID TRACE #7633  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 7-11-82  
 STD ID TRACE #7635  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	*
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	ND
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	*
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100100





ORIGINAL

OC Report No: 6077-13

Sample Number  
 C1440

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	44	50	88
1-Chloro-2-Bromopropane	VOA	42	50	84
Toluene - d8	VOA	45	50	90
2-Fluorophenol	ACID	44	107	41
Phenol - d5	ACID	3	10	30
Nitrobenzene - d5	B/N	50	104	48
2-Fluorobiphenyl	B/N	61	101	60
Naphthalene-D8	B/N	19	102	18

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	B/N #227	NO GOOD FIT
2.		UNKNOWN	B/N #371	NO GOOD FIT
3.				
4.				
5.				
6.				
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AR100101

Upstream of North Tributary

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL

SAMPLE ID	C1441	SAMPLE ID	C1441
LAB ID	23927A8	LAB ID	23927B8
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-18-82
STD ID	SENS273 PHEN431	STD ID	BENZ598 BNSTD592
CONC FACTOR	1000	CONC FACTOR	1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl) phthalate	ND
		67B butyl benzyl phthalate	ND
		68B di-n-butyl phthalate	*
		69B di-n-octyl phthalate	ND
		70B diethyl phthalate	ND
		71B dimethyl phthalate	ND
		72B benzo(a) anthracene	ND
		73B benzo(a)pyrene	ND
		74B 3,4-benzofluoranthene	ND
		75B benzo(k)fluoranthene	ND
		76B chrysene	ND
		77B acenaphthylene	ND
		78B anthracene	ND
		79B benzo(ghi)perylene	ND
		80B fluorene	ND
		81B phenanthrene	ND
		82B dibenzo(a,h)anthracene	ND
		83B indeno(1,2,3-cd)pyrene	ND
		84B pyrene	ND
		129B 2,3,7,8-tetrachlorodibenzo-	
		p-dioxin	ND

AR100102

ORIGINAL  
(Red)

SAMPLE ID C1441  
 LAB ID 23927V12  
 DATE INJECTED 7-15-82  
 STD ID VOL344 23927V8  
 CONC. FACTOR -----

SAMPLE ID C1441  
 LAB ID TRACE #7634  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 7-11-82  
 STD ID TRACE #7635  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	*
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	*
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	*
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	*
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1222	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100103



ORIGINAL  
(Red)

OC Report No: 6077-13

Sample Number  
C1441

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	49	50	98
1-Chloro-2-Bromopropane	VOA	46	50	92
Toluene - d8	VOA	49	50	98
2-Fluorophenol	ACID	46	107	43
Phenol - d5	ACID	2	10	20 *
Nitrobenzene - d5	B/N	76	104	73
2-Fluorobiphenyl	B/N	82	101	81
Naphthalene-D8	B/N	10	102	10

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	B/N #227	NO GOOD FIT
2.		UNKNOWN	B/N #365	NO GOOD FIT
3.		UNKNOWN	B/N #371	NO GOOD FIT
4.				
5.				
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17.				
18.				
19.				
20.				

AR100104

ORIGINAL (Red)

SAMPLE ID	C1444	SAMPLE ID	C1444
LAB ID	23927A16	LAB ID	23927B18
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-19-82
STD ID	SENS273 PHEN431	STD ID	BENZ6000 BNSTD593
CONC FACTOR	----1000	CONC FACTOR	1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

Base/Neutral Compounds	ug/l
1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

AR100105 ND

ORIGINAL  
(Red)

SAMPLE ID	C1444	SAMPLE ID	C1444
LAB ID	23927V25	LAB ID	TRACE #7639
DATE INJECTED	7-16-82	DATE EXTRACTED	6-26-82
STD ID	VOL346 23927V22	DATE INJECTED	7-13-82
CONC. FACTOR		STD ID	TRACE #7636
		CONC. FACTOR	50

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	ND
3V acrylonitrile	ND	90P dieldrin	ND
4V benzene	ND	91P chlordane	ND
6V carbon tetrachloride	ND	92P 4,4'-DDT	ND
7V chlorobenzene	ND	93P 4,4'-DDE	ND
10V 1,2-dichloroethane	ND	94P 4,4'-DDD	ND
11V 1,1,1-trichloroethane	ND	95P alpha-endosulfan	ND
13V 1,1-dichloroethane	ND	96P beta-endosulfan	ND
14V 1,1,2-trichloroethane	ND	97P endosulfan sulfate	ND
15V 1,1,2,2-tetrachloroethane	ND	98P endrin	ND
16V chloroethane	ND	99P endrin aldehyde	ND
17V bis(chloromethyl) ether	ND	100P heptachlor	ND
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	ND
23V chloroform	ND	102P alpha-BHC	ND
29V 1,1-dichloroethylene	ND	103P beta-BHC	ND
30V 1,2-trans-dichloroethylene	ND	104P gamma-BHC	ND
32V 1,2-dichloropropane	ND	105P delta-BHC	ND
33V 1,3-dichloropropylene	ND	106P PCB-1242	ND
38V ethylbenzene	ND	107P PCB-1254	ND
44V methylene chloride	*	108P PCB-1221	ND
45V methyl chloride	ND	109P PCB-1232	ND
46V methyl bromide	ND	110P PCB-1248	ND
47V bromoform	ND	111P PCB-1260	ND
48V dichlorobromomethane	ND	112P PCB-1016	ND
49V trichlorofluoromethane	*	113P toxaphene	ND
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND		
85V tetrachloroethylene	ND		
86V toluene	ND		
87V trichloroethylene	ND		
88V vinyl chloride	ND		

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100106



QC Report No: 6077-13

Sample Number  
C1444

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	50	50	100
1-Chloro-2-Bromopropane	VOA	45	50	90
Toluene - d8	VOA	49	50	98
2-Fluorophenol	ACID	45	107	42
Phenol - d5	ACID	ND	10	0
Nitrobenzene - d5	B/N	115	104	110
2-Fluorobiphenyl	B/N	90	101	89
Naphthalene-D8	B/N	85	102	83

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	ACID #171	NO GOOD FIT
2.				
3.				
4.				
5.				
6.				
7.				
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AR100107

Block

ORIGINAL

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID	C1445	SAMPLE ID	C1445
LAB ID	23927A12	LAB ID	23927B14
DATE EXTRACTED	6-26-82	DATE EXTRACTED	6-25-82
DATE INJECTED	7-26-82	DATE INJECTED	7-19-82
STD ID	SENS273 PHEN431	STD ID	BENZ6000 BNSTD593
CONC FACTOR	1000	CONC FACTOR	1000

Acid Compounds	ug/l	Base/Neutral Compounds	ug/l
21A 2,4,6-trichlorophenol	ND	41B 4-bromophenyl phenyl ether	ND
22A p-chloro-m-cresol	ND	42B bis(2-chloroisopropyl) ether	ND
24A 2-chlorophenol	ND	43B bis(2-chloroethoxy) methane	ND
31A 2,4-dichlorophenol	ND	52B hexachlorobutadiene	ND
34A 2,4-dimethylphenol	ND	53B hexachlorocyclopentadiene	ND
57A 2-nitrophenol	ND	54B isophorone	ND
58A 4-nitrophenol	ND	55B naphthalene	ND
59A 2,4-dinitrophenol	ND	56B nitrobenzene	ND
60A 4,6-dinitro-o-cresol	ND	61B N-nitrosodimethylamine	ND
64A pentachlorophenol	ND	62B N-nitrosodiphenylamine	ND
65A phenol	ND	63B N-nitrosodi-n-propylamine	ND
		66B bis(2-ethylhexyl) phthalate	ND
		67B butyl benzyl phthalate	ND
		68B di-n-butyl phthalate	*
		69B di-n-octyl phthalate	ND
		70B diethyl phthalate	ND
		71B dimethyl phthalate	ND
		72B benzo(a) anthracene	ND
		73B benzo(a) pyrene	ND
		74B 3,4-benzofluoranthene	ND
		75B benzo(k)fluoranthene	ND
		76B chrysene	ND
		77B acenaphthylene	ND
		78B anthracene	ND
		79B benzo(ghi)perylene	ND
		80B fluorene	ND
		81B phenanthrene	ND
		82B dibenzo(a,h)anthracene	ND
		83B indeno(1,2,3-cd)pyrene	ND
		84B pyrene	ND
		129B 2,3,7,8-tetrachlorodibenzo-	
		p-dioxin	ND

AR100108



SAMPLE ID CI445  
 LAB ID 23927V16  
 DATE INJECTED 7-15-82  
 STD ID BFB011 VOL344  
 CONC. FACTOR -----

SAMPLE ID CI445  
 LAB ID TRACE #7640  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 7-13-82  
 STD ID TRACE #7636  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	ND
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	10
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

\*\* = Not confirmed by GCMS

AR100109



ORIGINAL  
(Red)

QC Report No: 6077-13

Sample Number  
C1445

\* SEE METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	44	50	88
1-Chloro-2-Bromopropane	VOA	37	50	74
Toluene - d8	VOA	43	50	86
2-Fluorophenol	ACID	5	107	5
Phenol - d5	ACID	ND	10	0
Nitrobenzene - d5	B/N	130	104	125
2-Fluorobiphenyl	B/N	97	101	96
Naphthalene-D8	B/N	112	102	110

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		UNKNOWN	B/N #74	NO GOOD FIT
2.				
3.				
4.				
5.				
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19.				
20.				

AR100110

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL

SAMPLE ID \_\_\_\_\_ LAB BLANK \_\_\_\_\_  
 LAB ID \_\_\_\_\_ 23927V3 \_\_\_\_\_  
 DATE INJECTED \_\_\_\_\_ 7-14-82 \_\_\_\_\_  
 STD ID \_\_\_\_\_ BFB071482 VOA343 \_\_\_\_\_  
 CONC. FACTOR \_\_\_\_\_ ---- \_\_\_\_\_

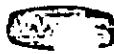
SAMPLE ID \_\_\_\_\_ METHOD BLANK \_\_\_\_\_  
 LAB ID \_\_\_\_\_ TRACE #7527 \_\_\_\_\_  
 DATE EXTRACTED \_\_\_\_\_ 6-27-82 \_\_\_\_\_  
 DATE INJECTED \_\_\_\_\_ 7-4-82 \_\_\_\_\_  
 STD ID \_\_\_\_\_ TRACE #7530 \_\_\_\_\_  
 CONC. FACTOR \_\_\_\_\_ 100 \_\_\_\_\_

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	ND
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	*
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100111



ORIGINAL  
(Red)

QC Report No: \_\_\_\_\_

Sample Number  
 LAB BLANK  
 (7-14-82)

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	53	50	106
1-Chloro-2-Bromopropane	VOA	45	50	90
Toluene - d8	VOA	52	50	104
2-Fluorophenol	ACID	NA	NA	NA
Phenol - d5	ACID	NA	NA	NA
Nitrobenzene - d5	B/N	NA	NA	NA
2-Fluorobiphenyl	B/N	NA	NA	NA
Naphthalene-D8	B/N	NA	NA	NA

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
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20.				

AR100112

## WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(Part)

SAMPLE ID \_\_\_\_\_ METHOD BLANK \_\_\_\_\_  
 LAB ID \_\_\_\_\_ 23927A1 \_\_\_\_\_  
 DATE EXTRACTED 6-26-82 \_\_\_\_\_  
 DATE INJECTED 7-26-82 \_\_\_\_\_  
 STD ID \_\_\_\_\_ PHEN431 SENS273 \_\_\_\_\_  
 CONC FACTOR \_\_\_\_\_ 1000 \_\_\_\_\_

SAMPLE ID \_\_\_\_\_ METHOD BLANK \_\_\_\_\_  
 LAB ID \_\_\_\_\_ 23927B13 \_\_\_\_\_  
 DATE EXTRACTED 6-25-82 \_\_\_\_\_  
 DATE INJECTED 7-19-82 \_\_\_\_\_  
 STD ID \_\_\_\_\_ BENZ6000 BNSTD593 \_\_\_\_\_  
 CONC FACTOR \_\_\_\_\_ 1000 \_\_\_\_\_

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	*
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

AR100113

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
7-21

SAMPLE ID LAB BLANK  
 LAB ID 23927V18  
 DATE INJECTED 7-15-82  
 STD ID BFB012 VOA345  
 CONC. FACTOR -----

SAMPLE ID METHOD BLANK  
 LAB ID TRACE #7638  
 DATE EXTRACTED 6-26-82  
 DATE INJECTED 7-13-82  
 STD ID TRACE #7636  
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	ND
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	*
16V chloroethane	ND
17V bis(chloromethyl) ether	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	*
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100114



ORIGINAL  
(2ed)

QC Report No: 6077-13

Sample Number  
METHOD BLANK

\* - PHENOL-D5 SPIKED INADVERTANTLY AT QUAN. LIMIT THEREFORE, LOW RECOVERY

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	50	50	100
1-Chloro-2-Bromopropane	VOA	49	50	98
Toluene - d8	VOA	48	50	96
2-Fluorophenol	ACID	43	107	40
Phenol - d5	ACID	1	10	10
Nitrobenzene - d5	B/N	76	104	73
2-Fluorobiphenyl	B/N	75	101	74
Naphthalene-D8	B/N	78	102	77

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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11.				
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20.				

AR100115

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(22)

SAMPLE ID	LAB BLANK	SAMPLE ID	NO SAMPLE
LAB ID	23927V23	LAB ID	
DATE INJECTED	7-16-82	DATE EXTRACTED	
STD ID	VOL346 23927V23	DATE INJECTED	
CONC. FACTOR		STD ID	
		CONC. FACTOR	

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	NA
3V acrylonitrile	ND	90P dieldrin	NA
4V benzene	ND	91P chlordane	NA
6V carbon tetrachloride	ND	92P 4,4'-DDT	NA
7V chlorobenzene	ND	93P 4,4'-DDE	NA
10V 1,2-dichloroethane	ND	94P 4,4'-DDD	NA
11V 1,1,1-trichloroethane	ND	95P alpha-endosulfan	NA
13V 1,1-dichloroethane	ND	96P beta-endosulfan	NA
14V 1,1,2-trichloroethane	ND	97P endosulfan sulfate	NA
15V 1,1,2,2-tetrachloroethane	*	98P endrin	NA
16V chloroethane	ND	99P endrin aldehyde	NA
17V bis(chloromethyl) ether	ND	100P heptachlor	NA
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	NA
23V chloroform	ND	102P alpha-BHC	NA
29V 1,1-dichloroethylene	ND	103P beta-BHC	NA
30V 1,2-trans-dichloroethylene	ND	104P gamma-BHC	NA
32V 1,2-dichloropropane	ND	105P delta-BHC	NA
33V 1,3-dichloropropylene	ND	106P PCB-1242	NA
38V ethylbenzene	ND	107P PCB-1254	NA
44V methylene chloride	*	108P PCB-1221	NA
45V methyl chloride	ND	109P PCB-1232	NA
46V methyl bromide	ND	110P PCB-1248	NA
47V bromoform	ND	111P PCB-1260	NA
48V dichlorobromomethane	ND	112P PCB-1016	NA
49V trichlorofluoromethane	ND	113P toxaphene	NA
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND		
85V tetrachloroethylene	ND		
86V toluene	ND		
87V trichloroethylene	ND		
88V vinyl chloride	ND		

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100116





ORIGINAL  
(Red)

OC Report No: \_\_\_\_\_

Sample Number  
METHOD BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	51	50	102
1-Chloro-2-Bromopropane	VOA	46	50	92
Toluene - d8	VOA	48	50	96
2-Fluorophenol	ACID	NA	NA	NA
Phenol - d5	ACID	NA	NA	NA
Nitrobenzene - d5	B/N	NA	NA	NA
2-Fluorobiphenyl	B/N	NA	NA	NA
Naphthalene-D8	B/N	NA	NA	NA

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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AR100117

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

ORIGINAL  
(Red)

SAMPLE ID	LAB BLANK	SAMPLE ID	NO SAMPLE
LAB ID	23927V10	LAB ID	
DATE INJECTED	7-15-82	DATE EXTRACTED	
STD ID	23927V8 VOL344	DATE INJECTED	
CONC. FACTOR		STD ID	
		CONC. FACTOR	

Volatiles	ug/l	Pesticides	ug/l
2V acrolein	ND	89P aldrin	NA
3V acrylonitrile	ND	90P dieldrin	NA
4V benzene	ND	91P chlordane	NA
6V carbon tetrachloride	ND	92P 2,4'-DDT	NA
7V chlorobenzene	ND	93P 4,4'-DDE	NA
10V 1,2-dichloroethane	ND	94P 4,4'-DDD	NA
11V 1,1,1-trichloroethane	ND	95P alpha-endosulfan	NA
13V 1,1-dichloroethane	ND	96P beta-endosulfan	NA
14V 1,1,2-trichloroethane	ND	97P endosulfan sulfate	NA
15V 1,1,2,2-tetrachloroethane	ND	98P endrin	NA
16V chloroethane	ND	99P endrin aldehyde	NA
17V bis(chloromethyl) ether	ND	100P heptachlor	NA
19V 2-chloroethylvinyl ether	ND	101P heptachlor epoxide	NA
23V chloroform	ND	102P alpha-BHC	NA
29V 1,1-dichloroethylene	ND	103P beta-BHC	NA
30V 1,2-trans-dichloroethylene	ND	104P gamma-BHC	NA
32V 1,2-dichloropropane	ND	105P delta-BHC	NA
33V 1,3-dichloropropylene	ND	106P PCB-1242	NA
38V ethylbenzene	ND	107P PCB-1254	NA
44V methylene chloride	*	108P PCB-1221	NA
45V methyl chloride	ND	109P PCB-1232	NA
46V methyl bromide	ND	110P PCB-1248	NA
47V bromoform	ND	111P PCB-1260	NA
48V dichlorobromomethane	ND	112P PCB-1016	NA
49V trichlorofluoromethane	ND	113P toxaphene	NA
50V dichlorodifluoromethane	ND		
51V chlorodibromomethane	ND		
85V tetrachloroethylene	ND		
86V toluene	ND		
87V trichloroethylene	ND		
88V vinyl chloride	ND		

\* = Less than 10 ug/l  
 (pesticides less than 5 ug/l)  
 ND = Not detected  
 \*\* = Not confirmed by GCMS

AR100118



ORIGINAL  
(Red)

QC Report No: \_\_\_\_\_

Sample Number  
LAB BLANK

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	Recovery %
Benzene - d6	VOA	48	50	96
1-Chloro-2-Bromopropane	VOA	43	50	86
Toluene - d8	VOA	46	50	92
2-Fluorophenol	ACID	NA	NA	NA
Phenol - d5	ACID	NA	NA	NA
Nitrobenzene - d5	B/N	NA	NA	NA
2-Fluorobiphenyl	B/N	NA	NA	NA
Naphthalene-D8	B/N	NA	NA	NA

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.				
2.				
3.				
4.				
5.				
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AR100119

U. S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office

114 North Columbus Street - Alexandria, Virginia 22314

Laboratory Name ROCKY MOUNTAIN ANALYTICAL Case No. 1138, 1143 QC Report No. 114

ASK 1. Units (mg/l) or mg/kg (circle one)

PA Sample No.	RMA Sample No.	Ag	Al	B	Ba	Be	Cr	Co	Cu	Fe	Mn	Ni	V	Zn
8948	6023-01	ND	ND		100	ND	ND	ND	0.070	ND	ND	ND	ND	0.10
29033	-02		ND		ND				0.15	ND	ND			0.058
8947	-03		2.3	N					0.75	7.0	0.42			1.6
29034	-04		ND						ND	ND	ND			ND
29024	-05									ND	0.67			0.032
29025	-06									0.43	0.25			0.040
29026	-07									0.20	0.040			ND
29027	-08			P						0.10	0.040			0.032
29028	-09				0.25					0.26	0.054			ND
29029	-10		V		ND	V	V	V	V	0.11	0.030	V	V	0.031

ASK 2. Units (mg/l) or mg/kg (circle one)

PA Sample No.	RMA Sample No.	As	Cd	Hg	Pb	Sb	Se	Sn	Tl	CN	NH <sub>3</sub>	S
8948	5023-01	ND	ND	ND	0.011	ND	ND	ND	ND	ND		
29033	-02		ND		0.039							
8947	-03		0.010		0.36							
29034	-04		ND		ND							
29024	-05				ND						N/A	
29025	-06				0.020							
29026	-07				ND							
29027	-08				0.031							
29028	-09		V		ND							
29029	-10		0.014		0.15		V	V	V	V		

TASK 3. Units (mg/l) or mg/kg (circle one)

PA Sample No.	RMA Sample No.	As	Cd	Hg	Pb	Sb	Se	Sn	Tl	CN	NH <sub>3</sub>	S
8948	5023-01	ND	ND	ND	0.011	ND	ND	ND	ND	ND		
29033	-02		ND		0.039							
8947	-03		0.010		0.36							
29034	-04		ND		ND							
29024	-05				ND						N/A	
29025	-06				0.020							
29026	-07				ND							
29027	-08				0.031							
29028	-09		V		ND							
29029	-10		0.014		0.15		V	V	V	V		

ORIGINAL (Red)

U. S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office

114 North Columbus Street - Alexandria, Virginia 22314

Laboratory Name ROCKY MOUNTAIN ANALYTICAL Case No. 1138, 1143 QC Report No. 114

TASK 1. Units (mg/L or mg/kg (circle one))

EPA Sample No.	RMA Sample No.	Ag	Al	B	Ba	Be	Cr	Co	Cu	Fe	Mn	Ni	V	Zn	Mn
C 9030	5023-11	ND	ND		ND	ND	ND	ND	ND	0.15	0.2041	ND	ND	0.019	0.041
C 9022	-12	2.4	N		7.1		0.015		0.18	800	0.080			35	8.2
C 9023	-13	0.35			ND		ND		ND	10	0.080			0.19	0.17
C 8951	-14	ND			ND		ND		ND	3.1	0.013	ND		0.040	1.3
C 8950	-15	2.0	A		ND		ND	0.10	0.170	250	0.028	ND		0.18	2.8
C 8949	-16	3.3			0.30	V	0.020	0.090	ND	330	2.6	0.085	V	0.89	2.6

TASK 2. Units (mg/L or mg/kg (circle one))

EPA Sample No.	RMA Sample No.	As	Cd	Hg	Pb	Sb	Se	Sn	Tl	CN	NH <sub>3</sub>	S
C 9030	5023-11	ND	ND	ND	ND	ND	ND	ND	ND	ND		
C 9022	-12	0.58			0.35							
C 9023	-13	ND			0.045						N/A	
C 8951	-14	ND			0.036							
C 8950	-15	0.003			0.051							
C 8949	-16	0.012	V		0.11	V	V	V				

TASK 3. Units (mg/L or mg/kg (circle one))

EPA Sample No.	RMA Sample No.	As	Cd	Hg	Pb	Sb	Se	Sn	Tl	CN	NH <sub>3</sub>	S
C 9030	5023-11	ND	ND	ND	ND	ND	ND	ND	ND	ND		
C 9022	-12	0.58			0.35							
C 9023	-13	ND			0.045						N/A	
C 8951	-14	ND			0.036							
C 8950	-15	0.003			0.051							
C 8949	-16	0.012	V		0.11	V	V	V				

ORIGINAL (Red)

APPENDIX B2

AR100122



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III  
CENTRAL REGIONAL LABORATORY  
839 BESTGATE ROAD  
ANNAPOLIS, MARYLAND 21401

301-224-2740  
FTS-922-3752

ORIGINAL  
(Red)

Sample results of resampling of residential wells by region III TAT team.

DATE: August 16, 1982

SUBJECT: Analysis of York County Samples (820810-01 - 06) for Lead - Superfund

FROM: E. R. Trovato *ERT*  
Chemist

RECEIVED

AUG 24 1982

TO: Daniel K. Donnelly  
Chief, Lab Section

ecology and  
environment, Inc.  
Philadelphia

Samples 820810-01 - 06 were analyzed by flameless atomic absorption for lead. The sample identifications and analytical results are presented below.

Lab #	Identification	Pb (µg/L)
820810-01	York County, Pa., Wells, Sample Blank	<2.0
-02	York County, Pa., Frey Well	5.2 (MSA*)
-03	York County, Pa., Kaufman Well	3.7 (MSA)
-04	York County, Pa., Gordon Well	2.9 (MSA)
-05	York County, Pa., Peters Well	5.9 (MSA)
-06	York County, Pa., Druck Well	4.9 (MSA)

\*MSA = Method of Standard Additions

Additional quality control data is available upon request.

ERT:ad

cc: P. J. Krantz  
QAO

AR100123

APPENDIX B3

AR100124



Department of Environmental Resources  
Bureau of Laboratories  
WATER OR WASTE QUALITY REPORT

1308 (Rev. 1/58)  
ORIGINAL

Case: Adrian Landfill - Annual Sampling Lab No: B-15

City: York State: PA County: York District: SW Name: Joseph A. Kozlowski

Latitude: 41° 11' N Longitude: 76° 11' W Date: 10/2/74 Time: 10:58 AM

Agency: SWM 28101055 Sample Number: 3640 Relative Point: 58

Quantity: 2 bottles, 1 fixed for metal Additional Lab Analyses:

Location: B-15 well  
Please Return Results to: Joseph A. Kozlowski  
1000 W. 2nd Street, York, PA 17401

FIELD ANALYSES				LAB ANALYSES			
Color	55-62	55-62	55-62	Color	100380	100380	100380
Turbidity	55-62	55-62	55-62	Turbidity	100070	100070	100070
Temperature	55-62	55-62	55-62	Temperature	100430	100430	100430
pH	55-62	55-62	55-62	pH	100430	100430	100430
Alkalinity	55-62	55-62	55-62	Alkalinity	100430	100430	100430
Hardness	55-62	55-62	55-62	Hardness	100340	100340	100340
Total Solids	55-62	55-62	55-62	Total Solids	100340	100340	100340
Dissolved Solids	55-62	55-62	55-62	Dissolved Solids	100310	100310	100310
5-Day BOD	55-62	55-62	55-62	5-Day BOD	100310	100310	100310
Total Dissolved Solids (TDS)	55-62	55-62	55-62	TDS	100355	100355	100355
Ammonia Nitrogen	55-62	55-62	55-62	Ammonia Nitrogen	101105	101105	101105
Nitrate Nitrogen	55-62	55-62	55-62	Nitrate Nitrogen	101027	101027	101027
Nitrite Nitrogen	55-62	55-62	55-62	Nitrite Nitrogen	101034	101034	101034
Copper	55-62	55-62	55-62	Copper	101042	101042	101042
Iron	55-62	55-62	55-62	Iron	101045	101045	101045
Manganese	55-62	55-62	55-62	Manganese	101055	101055	101055
Nickel	55-62	55-62	55-62	Nickel	101087	101087	101087
Zinc	55-62	55-62	55-62	Zinc	101051	101051	101051

CUSTODY LOG  
 Shipped by: Hand Carried Date: 1/29  
 Seal No: 3640  
 Received by: JAK

AR 1.00125

Department of Environmental Resources  
Bureau of Laboratories  
WATER OR WASTE QUALITY REPORT

13081 ORIGINAL

Modern Landfill - Annual Sampling Duck House Well

NY 16 - V. Windsor S.W. Joseph A. Kostachy

City: [ ] State: [ ] Est: [ ] Date: [ ] Fz: [ ] M: [ ] D: [ ] Y: [ ] H: [ ] Min: [ ]

10/27/78 1020

SAMPLE NUMBER 364: 511054

CONTAINER TO: 2 Bottles, 1 Filled For metal

LOCATION WHERE SAMPLE TAKEN: Sample From Duck House Well

LAB ANALYSES

APPEARANCE: Clear

Color: 61-62

Turbidity: 53-64

PH: 65

Temperature: 66

Acidity: 67-68

Alkalinity: 69-70

Hardness: 71-72

Iron: 73-74

Copper: 75-76

Zinc: 77-78

Manganese: 79-80

Nickel: 81-82

Cadmium: 83-84

Lead: 85-86

Chloride: 87-88

Sulfate: 89-90

Fluoride: 91-92

Ammonia: 93-94

Nitrate: 95-96

Nitrite: 97-98

Phosphate: 99-100

Silica: 101-102

Calcium: 103-104

Magnesium: 105-106

Sodium: 107-108

Potassium: 109-110

Total Solids: 111-112

Dissolved Solids: 113-114

CUSTOMY LOG

Shipped hand carry Date 1/29

Seal No. [ ]

Received by [ ]

Signature [ ]

AR100126

ORIGINAL  
 13081

Site Name: Term Landfill - Annual Sampling Trench

City: Windsor SW Joseph A. Korlosky

Agency: SW 278V/10010

Agency ID: 5WV42810/1053

Quantity: 2 BOTTLES, 1 Fixed For Metals

Description: Trench at Term Landfill

Field Analyses: slight suspended solids

Lab Analyses: PH, Temp, Turbidity, etc.

Flow Meters: Flow 1, 2, 3, 4

Flow Meters: Flow 5, 6, 7, 8

Flow Meters: Flow 9, 10, 11, 12

Flow Meters: Flow 13, 14, 15, 16

CUSTODY LOG  
 Shipped by: Hand Carried Date: 1/29  
 Seal No.: 24667  
 Received by: [Signature]  
 Location of Seal: OK

ARI00127

FIELD NO. SAMPLE  
 STREAM/RESERVOIR NAME  
 DATE/TIME

Department of Environmental Resources  
 Bureau of Laboratories  
 WATER OR WASTE QUALITY REPORT

ORIGINAL  
 (Red)

13051

*Water Treatment Plant - Municipal Wastewater Treatment Plant*

*Water* *Substation SW Joseph A. ...*

City	Map	Y	Est	Case	Fac	M	D	Y	H	Min	
AGENCY 35 37		SAMPLE NUMBER 38 41				STREAM NAME 44 51			RELATIVE HUMIDITY 56		
5 MAY 1979 01:06 1											

PROPERTY TO: *2 bottles, 1 fixed for metals*  
 WHERE SAMPLE TAKEN: *Treatment Plant*  
 PLEASE RETURN RESULTS TO: *Joseph A. ...*  
*109 S. Cameron St. Hbg. 13101 - Bureau of*  
*Water Quality Control*

FIELD ANALYSES				LAB ANALYSES			
Color	19-50			Density	1.0000		1130/61
IRON	61-02			Temp	100070		2.00
Alkalinity	63-64			Turbidity	100423		0.00
Phosphate	65			DO	100085		0.00
Temp	66			DO	100410		0.00
DO	67-68			DO	100436		0.00
DO	69			DO	100437		0.00
DO	70			DO	100425		0.00
DO	71			DO	100580		0.00
DO	72			DO	100340		0.00
DO	73			DO	100310		0.00
DO	74			DO	100625		0.00
DO	75			DO	100625		0.00
DO	76			DO	101155		0.00
DO	77			DO	101027		0.00
DO	78			DO	101034		0.00
DO	79			DO	101042		0.00
DO	80			DO	101045		0.00
DO	81			DO	101055		0.00
DO	82			DO	101067		0.00
DO	83			DO	101051		0.00
DO	84			DO	101052		0.00

CUSTODY LOG  
 Shipped *hand down* Date *5/29*  
 Seal No *78553 39659*  
 Received by *...*  
 Signature of Seal *...*

AR100128









COMMONWEALTH OF PENNSYLVANIA  
 Department of Environmental Resources  
 Bureau of Laboratories  
 WATER OR WASTE QUALITY REPORT

13081

ORIGINAL

Landfill - Annual Samples 3

York E. Windsor S. to Joseph A. Kozlosky

City	State	County	Latitude	Longitude	Date	Time
					0128EV	11 212

AGENCY NO. 37 SAMPLE NUMBER 3642 STATION NAME 275 RELATIVE POINT SE

5 WY 280 / 0 56

CONTAINER TO: 2 BOTTLES, 7 Fixed For Metals

LOCATION WHERE SAMPLE TAKEN: E-1 Well

FIELD ANALYSES

LAB ANALYSES

WELL

1130181

Turbid  
 Iron Red  
 Color

Code	Field Value	Lab Code	Lab Value
82-60		100020	
81-62		100070	
83-64		100400	1.49
85		100605	0.175
86		100410	0.300
87-68		100430	
88		100435	
89		100830	
90		100340	0.00
91		100310	4.0
92		100255	1.05
93		101105	7.50
94	5.5	101027	1.05
95		101034	1.00
96		101042	2.0
97	2.82	101045	0.44870
98		101051	0.0400
99		101067	5.0
100		101051	7.14
101		101092	3.750

CUSTODY LOG

Sampled by: [Signature] Date: 4/29

Field Seal No: 34660

Received by: [Signature]

Signature of Analyst: OK

ARI00132











FACILITY SAMPLE

COMMONWEALTH OF PENNSYLVANIA

Lab Number

2391

STREAM RANDOM SAMPLE

DEPARTMENT OF ENVIRONMENTAL RESOURCES

Date Entered

3/2/01

NETWORK SAMPLE

BUREAU OF WATER QUALITY MANAGEMENT

WATER OF WASTE QUALITY REPORT - SPECIAL ANALYSES

10200  
MUNICIPALITY: Windsor SW TOWNSHIP  
COUNTY: Schuylkill  
DATE: 3/2/01  
TIME: 2:33

IC CODE FALL 24-45-4 10  
LITHIUM NAME: 4457  
RELATIVE POINT: 0

AGENCY: SWIMZSTC

DESCRIPTION WHERE SAMPLE TAKEN

CUSTODY LOG

QUALITATIVE REPORT

richloroethane at 2-200 ft

QUANTITATIVE RESULTS

SUBST.	UNITS	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
1,1,1-trichloroethane (VCM)	ug/l		5
1,1,2-trichloroethane	ug/l		11
2,2-dichloroethane	ug/l		61
1,1,1-trichloroethane	ug/l		110
1,1,2-trichloroethane	ug/l		714
tetrachloroethane	ug/l		5
chlorobenzene	ug/l		11

ANALYST: J.E. Pringle  
SIGNATURE: [Signature]  
DATE: 3/10/01

DATA PROCESSING AR100137

LAB NUMBER  
 Date Received 3/2/81

MUNICIPALITY: Union PROGRAM: SW COLL. NAME: J. Miller  
 ID CODE (ALE CARDS 4 16): 10 LATITUDE 4 10: 10 LONGITUDE 11 10: 10 DATE 1981: 3 02 81 TIME 3 20: 12 51 5  
 AGENCY 3537: SW 112810-101513 ESTHER NAME 4457: 101513 RELATIVE POINT 52

DESCRIPTION WHERE SAMPLE TAKEN: SW 112810-101513  
 CUSTODY LOG: SW 112810-101513  
 Date: 3/2/81  
 No. 30578  
 by: J. Miller  
 Lab Conditions: SW 112810-101513

QUALITATIVE REPORT

trichloroethylene methane at 20-200 ppb  
trichloroethylene at 20-200 ppb  
monochloro ethide at 2-20 ppb  
possible but not confirmed for SW 112810-101513

QUANTITATIVE RESULTS

ANALYSIS CODE	UNITS	RESULTS (SHOW DECIMAL POINTS ON LINES)
<u>Chloroethene (VICM)</u>	<u>ug/l</u>	<u>30</u>
<u>Chloroethane</u>	<u>"</u>	<u>18</u>
<u>1,1-Dichloroethane</u>	<u>"</u>	<u>63</u>
<u>2,2-Dichloroethane</u>	<u>"</u>	<u>160</u>
<u>1,1,1-Trichloroethane</u>	<u>"</u>	<u>27</u>
<u>1,1,2-Trichloroethane</u>	<u>"</u>	<u>12</u>
<u>Benzene</u>	<u>"</u>	<u>6</u>
<u>Trichloroethene</u>	<u>"</u>	<u>39</u>
<u>Tetrachloroethene</u>	<u>"</u>	<u>2</u>

ANALYST: J. Miller SIGNATURE: J. Miller DATE: 3/2/81



REGULAR SAMPLE

SYSTEM RANDOM SAMPLE

NATURE OF SAMPLE

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

FILE NUMBER

2033

DATE SAMPLED

3/2/81

WATER OF WASTE QUALITY REPORT - SPECIAL ANALYSES

COLLECTOR

2810

TYPE OF ANALYSIS

STD ANALYSIS

TIME 25'28

RELATIVE POINT 58

ID CODE (ALL SAMPLES)

LATITUDE 4 10

LONGITUDE 11 10

DATE 1974

TIME 25'28

REL. P. 58

Cont

Map

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Est

Cont

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Est

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Cont

T

Est

AGENCY

3522

SAMPLE NUMBER 3843

TETRA M NAME 425

RELATIVE POINT 58

STUDY 2810

1054

BY TO

ADDITIONAL LAB ANALYSES

LOCATION WHERE SAMPLE TAKEN

CUSTODY LOG

DATE 3/2/81

NO. 34574

BY

QUALITATIVE REPORT

Initial Condition:

- No volatile organics detected

QUANTITATIVE RESULTS

ANALYST

UNITS

ANALYSIS CODE

RESULTS (SHOW DECIMAL POINTS ON LINES)

[Grid box]

[Grid box]

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ANALYST

[Signature]

SIGNATURE

DATE

3/12/81

DATA PROCESSING

AR100140

ORIGINAL

(24)









FACILITY SAMPLE

STREAM/RANDOM SAMPLE

NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

WATER OF WASTE QUALITY REPORT - SPECIAL ANALYSES

Date Received

03715

5/15/81

Name: Windsor SW I J Miller Springhouse 28  
 MUNICIPALITY: Windsor COUNTY: SW TOWNSHIP: I J Miller TYPE: Springhouse STA. NO.: 28  
 COUNTY: 0 COUNTY: 05 COUNTY: 128 COUNTY: 109 COUNTY: 50  
 AGENCY JOB: SWTM2810-10194 STREAM NAME: 44 RELATIVE POINT: 52

DESCRIPTION WHERE SAMPLE TAKEN: Springhouse - Western  
 CUSTODY LOG: present at 10:40  
 Date: 5/15/81  
 BY: 34636  
 Condition: QUALITATIVE REPORT

Subsistence methane - est 10-100 ug/l

QUANTITATIVE RESULTS

ANALYSIS CODE	UNITS	RESULTS (SHOW DECIMAL POINTS ON LINE)
<u>Methylene chloride</u>	<u>ug/l</u>	<u>est 400</u>
<u>trichloroethylene</u>	<u>"</u>	<u>14</u>
<u>1-dichloroethane</u>	<u>"</u>	<u>22</u>
<u>2-dichloroethane(cis)</u>	<u>"</u>	<u>1</u>
<u>2-dichloroethane</u>	<u>"</u>	<u>1</u>
<u>1,1-trichloroethane</u>	<u>"</u>	<u>21</u>
<u>trichloroethane</u>	<u>"</u>	<u>6</u>
<u>tetrachloroethane</u>	<u>"</u>	<u>4</u>

ANALYST: J. E. Arizola SIGNATURE: [Signature] DATE: 5/15/81  
 CENTRAL OFFICE AR100144 ORIGINAL (2nd)







FACILITY SAMPLE

FIELD RANDOM SAMPLE

NATURAL SAMPLE

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

WATER OR WASTE QUALITY REPORT - SPECIAL ANALYSES

Date Received

5/15/81

Loc: Windsor SW T.J. Mill  
 MUNICIPALITY: Windsor COUNTY: Switzerland  
 PROGRAM: SWIM SOURCE NAME: T.J. Mill

ID CODE: 101 ALL CATEGORIES: 10 LATITUDE: 40 LONGITUDE: 81.15 DATE: 5/15/81 TIME: 12:15

AGENCY: SWIM SAMPLE NUMBER: 101-101919 ESTABLISHMENT: 101 RELATIVE POINT: 101

DESCRIPTION WHERE SAMPLE TAKEN: East stream crossing road

CUSTODY LOG: Lead Agency Date 5/15/81

BY: 34262

QUALITATIVE REPORT

dichlorofluoromethane - est 2-20 ug/l  
 1,1 dichloroethane - possible mass est 0.1 ug/l

QUANTITATIVE RESULTS

NAME	UNITS	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
Methylene chloride	ug/l		1
trichlorofluoromethane	"		2
1,1 dichloroethane	"		10
1,2 dichloroethane (total)	"	est	120
1,1-trichloroethane	"		74
trichloroethene	"		79
tetrachloroethene	"		2
chloroethene (VCM)	"		4

ANALYST: J. E. Asmugle  
 SIGNATURE: [Signature]

DATE: 5/15/81

CENTRAL OFFICE

AR100148

ORIGINAL (5-1)







FACTORY SAMPLE  
STREET/RANDOM SAMPLE

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
BUREAU OF WATER QUALITY MANAGEMENT

File Number 03753  
Date Received 5/15/81

WATER OF WASTE QUALITY REPORT - SPECIAL ANALYSES

Location: Long Beach Windsor SW T.S. Miller  
Municipality: Windsor SW T.S. Miller  
EPA CODE: 0 051481131010  
RELATIVE POINT: 58

TO: STW 12810-102  
ADDITIONAL LAB ANALYSES

CUSTODY LOG  
Date: 5/15/81  
No: 2666

QUALITATIVE REPORT

also detected dichloroethene (est 70-200)  
dichloroethane (est 10, 100) and several low  
level organochlorines

QUANTITATIVE RESULTS

ANALYSIS CODE	UNITS	RESULTS (SHOW DECIMAL POINTS ON LINES)
	<u>µg/l</u>	<u>211</u>
	<u>"</u>	<u>2</u>
	<u>"</u>	<u>90</u>
	<u>"</u>	<u>est 290</u>
	<u>"</u>	<u>29</u>
	<u>"</u>	<u>6</u>
	<u>"</u>	<u>21</u>
	<u>"</u>	<u>est 140</u>
	<u>"</u>	<u>31</u>
	<u>"</u>	<u>72</u>
	<u>"</u>	

ANALYST: J. E. Spiggle DATE: 5/18/81  
SIGNATURE: J. E. Spiggle





FACILITY SAMPLE

STREAM/BRANCH/CHANNEL SAMPLE

WATER SAMPLE

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF LABORATORIES

WATER OR WASTE QUALITY REPORT

LAB NUMBER

DATE SAMPLED

STATION NAME: LAKE LANDFILL CASE: \_\_\_\_\_ FACILITY: \_\_\_\_\_ COLL. NUMBER: \_\_\_\_\_

LOCALITY: LAKE WINDSOR T-W R SCOTT PROJECT: \_\_\_\_\_ COLL. NAME: \_\_\_\_\_ TYPE TR: \_\_\_\_\_ STD ANALYSIS: \_\_\_\_\_

GRID CO: \_\_\_\_\_ ID CODE: ALL CARDS: 4-11 LATITUDE: 4-10 LONGITUDE: 11-18 DATE: 19-24 TIME: 25-28 KMS: 29

BUREAU: 23-37 AMIS SAMPLE NUMBER: 38-43 STREAM NAME: 44-57 RELATIVE POINT: 58

UNITARY TO: \_\_\_\_\_ ADDITIONAL LAB ANALYSES: \_\_\_\_\_

DESCRIPTION WHERE SAMPLE TAKEN: Discharge to Unit. Kreitz = C. ... imposed on N.W. corner of landfill 3 bottles: 1 for metals, 1 for Cl<sub>2</sub>

FIELD ANALYSES

LAB ANALYSES

Sample	52-60	01	Chemist	<u>[Signature]</u>	Date Analyzed	1/13/82
Vol of Sample	61-62	0.7	Color	(00080)	Total Solids	(00500)
Vol Sampled	63-64	0.7	Turb	(00070)	Susp Solids	(00530)
Dist	Proportions Uniform	55	pH	(00403)	Set Solids	(00545)
	Proportions Satisfactory	6E	Spec Cond	(00095)	Total Solids	(00115)
	Aliquots	57-66	Alk	(00410)	NO <sub>3</sub> -N	(00615)
	Estimated Measured	65	pH	(00435)	NO <sub>2</sub> -N	(00620)
	Active - 1 Backup - 3	60	DRB	(00437) (00438)	NH <sub>4</sub> -N	(00625)
Flow-CFS	(00061)		T.O.C	(00630)	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	(00625)
Flow-MGD	(00051)		5-Day BOD	(00310)	Hardness	(00400)
Flow-MGD	(00050)		P	(00665) (00666)	Ca <sup>++</sup> -diss	(00915)
Flow-Ft	(00055)		Al-Tot ug/l	(01105)	Mg <sup>++</sup> -diss	(00925)
Flow	(00010)		Co-Tot ug/l	(01027)	SC	(00945)
	(00400)		Cr-Tot ug/l	(01034)	Cl	(00948)
	(00900)		Cu-Tot ug/l	(01042)	F	(00951)
Cl	(00080)		Fe-Tot ug/l	(01045)	MSAS	(02280)
Br	(01871)		Mn-Tot ug/l	(01055)	Phenols	Dr. (49002) Ds. (32730)
I	(01666)		Ni-Tot ug/l	(01067)	Cyanide	(00720)
Cond	(00094)		Pb-Tot ug/l	(01051)		
Specific	(48001)		Zn-Tot ug/l	(01092)		
Temp	(01330)					

CUSTODY LOG

Shipped \_\_\_\_\_ Date \_\_\_\_\_  
 Seal No. \_\_\_\_\_  
 Analyzed by \_\_\_\_\_  
 Name of Staff \_\_\_\_\_

ORIGINAL

APPENDIX C

AR100155



# ORGANIC TRAFFIC REPORT

<p>① Case Number:</p> <hr/> <p>Sample Site Name/Code:</p> <hr/> <hr/>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To:</p> <hr/> <p>Attn:</p> <hr/> <p>Transfer</p> <p>Ship To:</p>
---	--	--

<p>⑤ Regional Office: _____</p> <p>Sampling Personnel:</p> <hr/> <p>(Name)</p> <hr/> <p>(Phone)</p> <p>Sampling Date:</p> <hr/> <p>(Begin) (End)</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1"> <thead> <tr> <th></th> <th>Number of Containers</th> <th>Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td></td> <td></td> </tr> <tr> <td>Water (VOA)</td> <td></td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)			Water (VOA)			Soil/Sediment			Water (Ext/VOA)			Other			
	Number of Containers	Approximate Total Volume																		
Water (Extractable)																				
Water (VOA)																				
Soil/Sediment																				
Water (Ext/VOA)																				
Other																				
<p>⑦ Shipping Information</p> <hr/> <p>Name of Carrier</p> <hr/> <p>Date Shipped:</p> <hr/> <p>Airbill Number:</p>																				

<p>⑧ Sample Description</p> <p><input type="checkbox"/> Surface Water    <input type="checkbox"/> Mixed Media</p> <p><input type="checkbox"/> Ground Water    <input type="checkbox"/> Solids</p> <p><input type="checkbox"/> Leachate    <input type="checkbox"/> Other (specify) _____</p>	<p>⑨ Sample Location</p> <hr/> <hr/>
--	--------------------------------------

⑩ Special Handling Instructions:  
(e.g., safety precautions, hazardous nature)

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ORIGINAL  
(20)

REGIONAL OFFICE FILE COPY **AR100156**





# ORGANICS TRAFFIC REPORT

① Case Number: \_\_\_\_\_

Sample Site Name/Code: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

② SAMPLE CONCENTRATION  
(Check One)

Low Concentration  
 Medium Concentration

③ SAMPLE MATRIX  
(Check One)

Water  
 Soil/Sediment

④ Ship To: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Attn: \_\_\_\_\_

Transfer \_\_\_\_\_

Ship To: \_\_\_\_\_

⑤ Regional Office: \_\_\_\_\_

Sampling Personnel: \_\_\_\_\_

(Name) \_\_\_\_\_

(Phone) \_\_\_\_\_

Sampling Date: \_\_\_\_\_

Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	1	10-1
Water (VOA)		

⑦ Shipping Information

Name of Carrier \_\_\_\_\_

Date Shipped: \_\_\_\_\_

Airbill Number: \_\_\_\_\_

Soil/Sediment		
Water (Ext/VOA)		
Other		

⑧ Sample Description

Surface Water     Mixed Media

Ground Water     Solids

Leachate     Other (specify) \_\_\_\_\_

⑨ Sample Location

\_\_\_\_\_

\_\_\_\_\_

⑩ Special Handling Instructions:  
(e.g., safety precautions, hazardous nature)

\_\_\_\_\_

ORIGINAL

REGIONAL OFFICE FILE COPY **AR100157**



# ORGANIC TRAFFIC REPORT

<p>① Case Number: _____</p> <p>Sample Site Name/Code: _____</p> <p>_____</p> <p>_____</p>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input type="checkbox"/> Low Concentration</p> <p><input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input checked="" type="checkbox"/> Water</p> <p><input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____</p> <p>_____</p> <p>Attn: _____</p> <p>Transfer _____</p> <p>Ship To: _____</p>
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<p>⑤ Regional Office: _____</p> <p>Sampling Personnel: _____</p> <p>(Name)</p> <p>(Phone)</p> <p>Sampling Date: _____</p> <p>(Begin) (End)</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Number of Containers</th> <th style="text-align: center;">Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td style="text-align: center;">2</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Water (VOA)</td> <td></td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)	2	100	Water (VOA)			Soil/Sediment			Water (Ext/VOA)			Other									
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<p>⑧ Sample Description</p> <p><input type="checkbox"/> Surface Water    <input type="checkbox"/> Mixed Media</p> <p><input type="checkbox"/> Ground Water    <input type="checkbox"/> Solids</p> <p><input checked="" type="checkbox"/> Leachate        <input type="checkbox"/> Other (specify) _____</p>	<p>⑨ Sample Location</p> <p>_____</p> <p>_____</p>
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⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

\_\_\_\_\_

ORIGINAL

REGIONAL OFFICE FILE COPY **AR 100158**



# ORGANICS TRAFFIC REPORT

<p>① Case Number: _____</p> <p>Sample Site Name/Code: _____</p> <p>_____</p> <p>_____</p>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____</p> <p>_____</p> <p>Attn: _____</p> <p>Transfer _____</p> <p>Ship To: _____</p>
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⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature) \_\_\_\_\_

ORIGINAL

REGIONAL OFFICE FILE COPY **AR100159**



# ORGANICS TRAFFIC REPORT

<p>① Case Number: _____</p> <p>Sample Site Name/Code: _____</p> <p>_____</p> <p>_____</p>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____</p> <p>_____</p> <p>Attn: _____</p> <p>Transfer _____</p> <p>Ship To: _____</p>
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<p>⑧ Sample Description</p> <p><input type="checkbox"/> Surface Water      <input type="checkbox"/> Mixed Media</p> <p><input type="checkbox"/> Ground Water      <input type="checkbox"/> Solids</p> <p><input type="checkbox"/> Leachate      <input type="checkbox"/> Other (specify) _____</p>	<p>⑨ Sample Location</p> <p>_____</p> <p>_____</p>
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⑩ Special Handling Instructions:  
(e.g., safety precautions, hazardous nature)

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ORIGINAL  
(2 of 4)

REGIONAL OFFICE FILE COPY **AR 100160**



# ORGANICS TRAFFIC REPORT

<p>① Case Number:</p> <hr/> <p>Sample Site Name/Code:</p> <hr/> <hr/> <hr/>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To:</p> <hr/> <p>Attn:</p> <p><del>XXXXXXXXXXXXXXXXXXXXXXXXXXXX</del></p> <p>Transfer</p> <p>Ship To:</p>
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<p>⑤ Regional Office: _____</p> <p>Sampling Personnel:</p> <hr/> <p>(Name)</p> <hr/> <p>(Phone)</p> <p>Sampling Date:</p> <hr/> <p>(Begin) (End)</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1"> <thead> <tr> <th></th> <th>Number of Containers</th> <th>Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td></td> <td></td> </tr> <tr> <td>Water (VOA)</td> <td></td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)			Water (VOA)			Soil/Sediment			Water (Ext/VOA)			Other			<p>⑦ Shipping Information</p> <hr/> <p>Name of Carrier</p> <hr/> <p>Date Shipped:</p> <hr/> <p>Airbill Number:</p> <hr/>
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⑩ Special Handling Instructions:  
(e.g., safety precautions, hazardous nature)

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ORGANICS

TRAFFIC REPORT

0 1437

<p>① Case Number:</p> <hr/> <p>Sample Site Name/Code:</p> <hr/> <hr/> <hr/>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To:</p> <hr/> <p>Attn:</p> <hr/> <p>Transfer</p> <p>Ship To:</p>
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<p>⑤ Regional Office: _____</p> <p>Sampling Personnel:</p> <hr/> <p>(Name)</p> <hr/> <p>(Phone)</p> <p>Sampling Date:</p> <hr/> <p>Begin: _____ End: _____</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1"> <thead> <tr> <th></th> <th>Number of Containers</th> <th>Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td>2</td> <td></td> </tr> <tr> <td>Water (VOA)</td> <td></td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)	2		Water (VOA)			Soil/Sediment			Water (Ext/VOA)			Other									
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<p>⑧ Sample Description</p> <p><input type="checkbox"/> Surface Water    <input type="checkbox"/> Mixed Media</p> <p><input type="checkbox"/> Ground Water    <input type="checkbox"/> Solids</p> <p><input type="checkbox"/> Leachate    <input type="checkbox"/> Other (specify) _____</p>	<p>⑨ Sample Location</p> <hr/>
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⑩ Special Handling Instructions:  
(e.g., safety precautions, hazardous nature)

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REGIONAL OFFICE FILE COPY 00162

ORIGINAL



# ORGANIC TRAFFIC REPORT

<p>① Case Number: _____</p> <p>Sample Site Name/Code: <u>Home (Gardens)</u> <u>1050</u></p>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: <u>1755 F...</u> <u>...</u></p> <p>Attn: _____</p> <p>Transfer _____</p> <p>Ship To: _____</p>
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<p>⑤ Regional Office: _____</p> <p>Sampling Personnel: <u>Tom F...</u> (Name) <u>703-603-1315</u> (Phone)</p> <p>Sampling Date: (Begin) _____ (End) _____</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1"> <thead> <tr> <th></th> <th>Number of Containers</th> <th>Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td></td> <td></td> </tr> <tr> <td>Water (VOA)</td> <td></td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)			Water (VOA)			Soil/Sediment			Water (Ext/VOA)			Other			
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Soil/Sediment																				
Water (Ext/VOA)																				
Other																				
<p>Shipping Information</p> <p>Name of Carrier: _____</p> <p>Date Shipped: <u>07/27/84</u></p> <p>Airbill Number: _____</p>																				

<p>⑧ Sample Description</p> <p><input type="checkbox"/> Surface Water    <input type="checkbox"/> Mixed Media</p> <p><input type="checkbox"/> Ground Water    <input type="checkbox"/> Solids</p> <p><input type="checkbox"/> Leachate    <input type="checkbox"/> Other (specify) _____</p>	<p>⑨ Sample Location</p> <p><u>...</u></p>
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⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

REGIONAL OFFICE FILE COPY **AR100163**

**ORIGINAL (Red)**



# ORGANICS TRAFFIC REPORT

<p>① Case Number: _____</p> <p>Sample Site Name/Code: _____</p> <p>_____</p> <p>_____</p>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____</p> <p>Attn: _____</p> <p>Transfer _____</p> <p>Ship To: _____</p>
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<p>⑤ Regional Office: _____</p> <p>Sampling Personnel: _____</p> <p>(Name) _____</p> <p>(Phone) _____</p> <p>Sampling Date: _____</p> <p>(Begin) _____ (End) _____</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1"> <thead> <tr> <th></th> <th>Number of Containers</th> <th>Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td>2</td> <td>1.5</td> </tr> <tr> <td>Water (VOA)</td> <td>2</td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)	2	1.5	Water (VOA)	2		Soil/Sediment			Water (Ext/VOA)			Other									
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Water (VOA)	2																									
Soil/Sediment																										
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Other																										
<p>⑦ Shipping Information</p> <p>Name of Carrier: _____</p> <p>Date Shipped: _____</p> <p>Airbill Number: _____</p>																										

<p>⑧ Sample Description</p> <p><input checked="" type="checkbox"/> Surface Water    <input type="checkbox"/> Mixed Media</p> <p><input type="checkbox"/> Ground Water    <input type="checkbox"/> Solids</p> <p><input type="checkbox"/> Leachate    <input type="checkbox"/> Other (specify) _____</p>	<p>⑨ Sample Location</p> <p>_____</p> <p>_____</p>
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⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ORIGINAL (Red)

REGIONAL OFFICE FILE COPY **RR100164**





# ORGANICS TRAFFIC REPORT

Case Number: \_\_\_\_\_  
 Sample Site Name/Code: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

② SAMPLE CONCENTRATION  
 (Check One)  
 Low Concentration  
 Medium Concentration

③ SAMPLE MATRIX  
 (Check One)  
 Water  
 Soil/Sediment

④ Ship To: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Transfer  
 Ship To: \_\_\_\_\_

⑤ Regional Office: \_\_\_\_\_  
 Sampling Personnel: \_\_\_\_\_  
 \_\_\_\_\_  
 (Name)  
 \_\_\_\_\_  
 (Phone)  
 Sampling Date: \_\_\_\_\_  
 (Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	200ml
Water (VOA)	2	200ml
Soil/Sediment	1	200ml
Water (Ext/VOA)	1	200ml
Other		

⑦ Shipping Information  
 Name of Carrier: \_\_\_\_\_  
 Date Shipped: \_\_\_\_\_  
 Airbill Number: \_\_\_\_\_

⑧ Sample Description

Surface Water       Mixed Media  
 Ground Water       Solids  
 Leachate             Other (specify) \_\_\_\_\_

⑨ Sample Location  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

⑩ Special Handling Instructions:  
 (e.g., safety precautions, hazardous nature)  
 \_\_\_\_\_  
 \_\_\_\_\_



# ORGANIC TRAFFIC REPORT

<p>① Case Number:</p> <hr/> <p>Sample Site Name/Code:</p> <p><i>W. Summit</i></p> <p><i>100-65</i></p> <hr/>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input type="checkbox"/> Low Concentration</p> <p><input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input type="checkbox"/> Water</p> <p><input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To:</p> <p>Attn:</p> <p>Transfer</p> <p>Ship To:</p>
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<p>⑤ Regional Office:</p> <p>Sampling Personnel:</p> <p><i>John Deane</i></p> <p>(Name)</p> <p>(Phone)</p> <p>Sampling Date:</p> <p>(Begin) (End)</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1"> <thead> <tr> <th></th> <th>Number of Containers</th> <th>Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td><i>2</i></td> <td><i>160</i></td> </tr> <tr> <td>Water (VOA)</td> <td><i>=</i></td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)	<i>2</i>	<i>160</i>	Water (VOA)	<i>=</i>		Soil/Sediment			Water (Ext/VOA)			Other			<p>⑦ Shipping Information</p> <p><i>Fed Ex</i></p> <p>Name of Carrier:</p> <p><i>1-23-85</i></p> <p>Date Shipped:</p> <p><i>1-23-85</i></p> <p>Airbill Number:</p>
	Number of Containers	Approximate Total Volume																		
Water (Extractable)	<i>2</i>	<i>160</i>																		
Water (VOA)	<i>=</i>																			
Soil/Sediment																				
Water (Ext/VOA)																				
Other																				

<p>⑧ Sample Description</p> <p><input checked="" type="checkbox"/> Surface Water    <input type="checkbox"/> Mixed Media</p> <p><input type="checkbox"/> Ground Water    <input type="checkbox"/> Solids</p> <p><input type="checkbox"/> Leachate    <input type="checkbox"/> Other (specify): _____</p>	<p>⑨ Sample Location</p> <p><i>W. Summit</i></p> <p><i>100-65</i></p>
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⑩ Special Handling Instructions:  
(e.g., safety precautions, hazardous nature)

REGIONAL OFFICE FILE # **AB-00166**

ORIGINAL (2 of 2)



# ORGANIC ANALYTICAL REPORT

① Case Number: \_\_\_\_\_

Sample Site Name/Code: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

② SAMPLE CONCENTRATION (Check One)

Low Concentration

Medium Concentration

③ SAMPLE MATRIX (Check One)

Water

Soil/Sediment

④ Ship To: \_\_\_\_\_

\_\_\_\_\_

Attn: \_\_\_\_\_

Transfer \_\_\_\_\_

Ship To: \_\_\_\_\_

⑤ Regional Office: \_\_\_\_\_

Sampling Personnel: \_\_\_\_\_

(Name) \_\_\_\_\_

(Phone) \_\_\_\_\_

Sampling Date: \_\_\_\_\_

(Begin) \_\_\_\_\_ (End) \_\_\_\_\_

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1.5L
Water (VOA)	2	1.5L
Soil/Sediment		
Water (Ext/VOA)		
Other		

Shipping Information

Name of Carrier: \_\_\_\_\_

Date Shipped: \_\_\_\_\_

Airbill Number: \_\_\_\_\_

⑧ Sample Description

Surface Water     Mixed Media

Ground Water     Solids

Leachate     Other (specify) \_\_\_\_\_

⑨ Sample Location

\_\_\_\_\_

\_\_\_\_\_

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

\_\_\_\_\_

\_\_\_\_\_

ORIGINAL (Red)



# ORGANIC TRAFFIC REPORT

① Case Number: \_\_\_\_\_

Sample Site Name/Code: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

② SAMPLE CONCENTRATION  
(Check One)

Low Concentration

Medium Concentration

③ SAMPLE MATRIX  
(Check One)

Water

Soil/Sediment

④ Ship To: \_\_\_\_\_

Attn: \_\_\_\_\_

Transfer \_\_\_\_\_

Ship To: \_\_\_\_\_

⑤ Regional Office: \_\_\_\_\_

Sampling Personnel: \_\_\_\_\_

(Name) \_\_\_\_\_

(Phone) \_\_\_\_\_

Sampling Date: \_\_\_\_\_

(Begin) \_\_\_\_\_ (End) \_\_\_\_\_

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	100
Water (VOA)	2	100

⑦ Shipping Information

Name of Carrier: \_\_\_\_\_

Date Shipped: \_\_\_\_\_

Airbill Number: \_\_\_\_\_

	Number of Containers	Approximate Total Volume
Soil/Sediment		
Water (Ext/VOA)		
Other		

⑧ Sample Description

Surface Water       Mixed Media

Ground Water       Solids

Leachate       Other (specify) \_\_\_\_\_

⑨ Sample Location

\_\_\_\_\_

\_\_\_\_\_

⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

\_\_\_\_\_

\_\_\_\_\_

REGIONAL OFFICE FILE COPY      AR100168      ORIGINAL (Red)



# ORGANICS TRAFFIC REPORT

<p>Case Number: _____</p> <p>Sample Site Name/Code: _____</p> <p>_____</p> <p>_____</p>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____</p> <p>Attn: _____</p> <p>Transfer _____</p> <p>Ship To: _____</p>
---	--	--

<p>⑤ Regional Office: _____</p> <p>Sampling Personnel: _____</p> <p>(Name)</p> <p>(Phone)</p> <p>Sampling Date: _____</p> <p>(Begin) (End)</p>	<p>⑥ For each sample collected specify number of containers used and mark volume level on each bottle.</p> <table border="1"> <thead> <tr> <th></th> <th>Number of Containers</th> <th>Approximate Total Volume</th> </tr> </thead> <tbody> <tr> <td>Water (Extractable)</td> <td></td> <td></td> </tr> <tr> <td>Water (VOA)</td> <td></td> <td></td> </tr> <tr> <td>Soil/Sediment</td> <td></td> <td></td> </tr> <tr> <td>Water (Ext/VOA)</td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Number of Containers	Approximate Total Volume	Water (Extractable)			Water (VOA)			Soil/Sediment			Water (Ext/VOA)			Other									
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Water (VOA)																										
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Water (Ext/VOA)																										
Other																										
<p>Shipping Information</p> <p>Name of Carrier: _____</p> <p>Date Shipped: _____</p> <p>Airbill Number: _____</p>																										

<p>⑧ Sample Description</p> <p><input type="checkbox"/> Surface Water      <input type="checkbox"/> Mixed Media</p> <p><input checked="" type="checkbox"/> Ground Water      <input type="checkbox"/> Solids</p> <p><input type="checkbox"/> Leachate      <input type="checkbox"/> Other (specify) _____</p>	<p>⑨ Sample Location</p> <p>_____</p> <p>_____</p>
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⑩ Special Handling Instructions: (e.g., safety precautions, hazardous nature)

\_\_\_\_\_



# ORGANICS TRAFFIC REPORT

<p>① Case Number:</p> <hr/> <p>Sample Site Name/Code:</p> <hr/> <hr/> <hr/>	<p>② SAMPLE CONCENTRATION (Check One)</p> <p><input checked="" type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One)</p> <p><input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To:</p> <hr/> <p>Attn:</p> <hr/> <p>Transfer</p> <p>Ship To:</p> <hr/>
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⑩ Special Handling Instructions:  
(e.g., safety precautions, hazardous nature)

*VOA - Analysis Only*



CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CON-TAINERS		REMARKS			
1380 JA	1380 JA						
SAMPLERS: (Signature) [Signature]							
[Signature]							
STA. NO.	DATE	TIME	COM	GRAB	STATION LOCATION	NO. OF CON-TAINERS	REMARKS
1-1388	6-23-82	9:20		X	Duck Well		
1-1444	6-23-82	9:20		X	Flux Well		
1-1387	6-23-82	10:15		X	Duck Well		
1-1445	6-23-82	9:45		X	FLUX Well		
1-1435	6-23-82	11:45		X	Spring House A		
1-1436	6-23-82	12:05		X	Spring House B		
1-1437	6-23-82	13:45		X	Upstream of Duck Well		
1-1438	6-23-82	14:05		X	Duck Well		
1-1439	6-23-82	14:15		X	Flux Well		
1-1440	6-23-82	17:05		X	Flux Well		
1-1441	6-23-82	17:15		X	Flux Well		
1-1442	6-23-82	19:30		X	Flux Well		
1-1443	6-23-82	17:45		X	Flux Well		
1-1444	6-23-82	18:05		X	Flux Well		
1-1445	6-23-82	18:15		X	Flux Well		
1-1446	6-23-82	18:25		X	Flux Well		
1-1447	6-23-82	18:35		X	Flux Well		
1-1448	6-23-82	18:45		X	Flux Well		
1-1449	6-23-82	18:55		X	Flux Well		
1-1450	6-23-82	19:05		X	Flux Well		
1-1451	6-23-82	19:15		X	Flux Well		
1-1452	6-23-82	19:25		X	Flux Well		
1-1453	6-23-82	19:35		X	Flux Well		
1-1454	6-23-82	19:45		X	Flux Well		
1-1455	6-23-82	19:55		X	Flux Well		
1-1456	6-23-82	20:05		X	Flux Well		
1-1457	6-23-82	20:15		X	Flux Well		
1-1458	6-23-82	20:25		X	Flux Well		
1-1459	6-23-82	20:35		X	Flux Well		
1-1460	6-23-82	20:45		X	Flux Well		
1-1461	6-23-82	20:55		X	Flux Well		
1-1462	6-23-82	21:05		X	Flux Well		
1-1463	6-23-82	21:15		X	Flux Well		
1-1464	6-23-82	21:25		X	Flux Well		
1-1465	6-23-82	21:35		X	Flux Well		
1-1466	6-23-82	21:45		X	Flux Well		
1-1467	6-23-82	21:55		X	Flux Well		
1-1468	6-23-82	22:05		X	Flux Well		
1-1469	6-23-82	22:15		X	Flux Well		
1-1470	6-23-82	22:25		X	Flux Well		
1-1471	6-23-82	22:35		X	Flux Well		
1-1472	6-23-82	22:45		X	Flux Well		
1-1473	6-23-82	22:55		X	Flux Well		
1-1474	6-23-82	23:05		X	Flux Well		
1-1475	6-23-82	23:15		X	Flux Well		
1-1476	6-23-82	23:25		X	Flux Well		
1-1477	6-23-82	23:35		X	Flux Well		
1-1478	6-23-82	23:45		X	Flux Well		
1-1479	6-23-82	23:55		X	Flux Well		
1-1480	6-23-82	00:05		X	Flux Well		
1-1481	6-23-82	00:15		X	Flux Well		
1-1482	6-23-82	00:25		X	Flux Well		
1-1483	6-23-82	00:35		X	Flux Well		
1-1484	6-23-82	00:45		X	Flux Well		
1-1485	6-23-82	00:55		X	Flux Well		
1-1486	6-23-82	01:05		X	Flux Well		
1-1487	6-23-82	01:15		X	Flux Well		
1-1488	6-23-82	01:25		X	Flux Well		
1-1489	6-23-82	01:35		X	Flux Well		
1-1490	6-23-82	01:45		X	Flux Well		
1-1491	6-23-82	01:55		X	Flux Well		
1-1492	6-23-82	02:05		X	Flux Well		
1-1493	6-23-82	02:15		X	Flux Well		
1-1494	6-23-82	02:25		X	Flux Well		
1-1495	6-23-82	02:35		X	Flux Well		
1-1496	6-23-82	02:45		X	Flux Well		
1-1497	6-23-82	02:55		X	Flux Well		
1-1498	6-23-82	03:05		X	Flux Well		
1-1499	6-23-82	03:15		X	Flux Well		
1-1500	6-23-82	03:25		X	Flux Well		
1-1501	6-23-82	03:35		X	Flux Well		
1-1502	6-23-82	03:45		X	Flux Well		
1-1503	6-23-82	03:55		X	Flux Well		
1-1504	6-23-82	04:05		X	Flux Well		
1-1505	6-23-82	04:15		X	Flux Well		
1-1506	6-23-82	04:25		X	Flux Well		
1-1507	6-23-82	04:35		X	Flux Well		
1-1508	6-23-82	04:45		X	Flux Well		
1-1509	6-23-82	04:55		X	Flux Well		
1-1510	6-23-82	05:05		X	Flux Well		
1-1511	6-23-82	05:15		X	Flux Well		
1-1512	6-23-82	05:25		X	Flux Well		
1-1513	6-23-82	05:35		X	Flux Well		
1-1514	6-23-82	05:45		X	Flux Well		
1-1515	6-23-82	05:55		X	Flux Well		
1-1516	6-23-82	06:05		X	Flux Well		
1-1517	6-23-82	06:15		X	Flux Well		
1-1518	6-23-82	06:25		X	Flux Well		
1-1519	6-23-82	06:35		X	Flux Well		
1-1520	6-23-82	06:45		X	Flux Well		
1-1521	6-23-82	06:55		X	Flux Well		
1-1522	6-23-82	07:05		X	Flux Well		
1-1523	6-23-82	07:15		X	Flux Well		
1-1524	6-23-82	07:25		X	Flux Well		
1-1525	6-23-82	07:35		X	Flux Well		
1-1526	6-23-82	07:45		X	Flux Well		
1-1527	6-23-82	07:55		X	Flux Well		
1-1528	6-23-82	08:05		X	Flux Well		
1-1529	6-23-82	08:15		X	Flux Well		
1-1530	6-23-82	08:25		X	Flux Well		
1-1531	6-23-82	08:35		X	Flux Well		
1-1532	6-23-82	08:45		X	Flux Well		
1-1533	6-23-82	08:55		X	Flux Well		
1-1534	6-23-82	09:05		X	Flux Well		
1-1535	6-23-82	09:15		X	Flux Well		
1-1536	6-23-82	09:25		X	Flux Well		
1-1537	6-23-82	09:35		X	Flux Well		
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1-1540	6-23-82	10:05		X	Flux Well		
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1-1542	6-23-82	10:25		X	Flux Well		
1-1543	6-23-82	10:35		X	Flux Well		
1-1544	6-23-82	10:45		X	Flux Well		
1-1545	6-23-82	10:55		X	Flux Well		
1-1546	6-23-82	11:05		X	Flux Well		
1-1547	6-23-82	11:15		X	Flux Well		
1-1548	6-23-82	11:25		X	Flux Well		
1-1549	6-23-82	11:35		X	Flux Well		
1-1550	6-23-82	11:45		X	Flux Well		
1-1551	6-23-82	11:55		X	Flux Well		
1-1552	6-23-82	12:05		X	Flux Well		
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1-1554	6-23-82	12:25		X	Flux Well		
1-1555	6-23-82	12:35		X	Flux Well		
1-1556	6-23-82	12:45		X	Flux Well		
1-1557	6-23-82	12:55		X	Flux Well		
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1-1571	6-23-82	15:15		X	Flux Well		
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1-1587	6-23-82	17:55		X	Flux Well		
1-1588	6-23-82	18:05		X	Flux Well		
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1-1591	6-23-82	18:35		X	Flux Well		
1-1592	6-23-82	18:45		X	Flux Well		
1-1593	6-23-82	18:55		X	Flux Well		
1-1594	6-23-82	19:05		X	Flux Well		





CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	REMARKS
03-03		Atlantic State University			
SAMPLERS: (Signature)		STATION LOCATION		NO. OF CONTAINERS	REMARKS
12/18/94		Atlantic State University			
STA. NO.	DATE	TIME	GRAB	COMP	
12-5448	6-22-94	9:45			
12-5433	6-23-94	9:45			
12-5447	6-22-94	10:50			
12-5438	6-22-94	9:45			
12-5424	6-22-94	11:45			
12-5421	6-22-94	12:05			
12-5426	6-22-94	11:45			
12-5422	6-22-94	11:45			
12-5420	6-22-94	11:45			
12-5424	6-22-94	12:05			
12-5423	6-22-94	11:45			
12-5422	6-22-94	11:45			
12-5421	6-22-94	11:45			
12-5420	6-22-94	11:45			
12-5419	6-22-94	11:45			
12-5418	6-22-94	11:45			
12-5417	6-22-94	11:45			
12-5416	6-22-94	11:45			
12-5415	6-22-94	11:45			
12-5414	6-22-94	11:45			
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12-5408	6-22-94	11:45			
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12-5352	6-22-94	11:45			
12-5351	6-22-94	11:45			
12-5350	6-22-94	11:45			
12-5349	6-22-94	11:45			
12-5348	6-22-94	11:45			
12-5347	6-22-94	11:45			
12-5346	6-22-94	11:45			
12-5345	6-22-94	11:45			
12-5344	6-22-94	11:45			
12-5343	6-22-94	11:45			
12-5342	6-22-94	11:45			
12-5341	6-22-94	11:45			
12-5340	6-22-94	11:45			
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12-5333	6-22-94	11:45			
12-5332	6-22-94	11:45			
12-5331	6-22-94	11:45			
12-5330	6-22-94	11:45			
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12-5328	6-22-94	11:45			
12-5327	6-22-94	11:45			
12-5326	6-22-94	11:45			
12-5325	6-22-94	11:45			
12-5324	6-22-94	11:45			
12-5323	6-22-94	11:45			
12-5322	6-22-94	11:45			
12-5321	6-22-94	11:45			
12-5320	6-22-94	11:45			
12-5319	6-22-94	11:45			
12-5318	6-22-94	11:45			
12-5317	6-22-94	11:45			
12-5316	6-22-94	11:45			
12-5315	6-22-94	11:45			
12-5314	6-22-94	11:45			
12-5313	6-22-94	11:45			
12-5312	6-22-94	11:45			
12-5311	6-22-94	11:45			
12-5310	6-22-94	11:45			
12-5309	6-22-94	11:45			
12-5308	6-22-94	11:45			
12-5307	6-22-94	11:45			
12-5306	6-22-94	11:45			
12-5305	6-22-94	11:45			
12-5304	6-22-94	11:45			
12-5303	6-22-94	11:45			
12-5302	6-22-94	11:45			
12-5301	6-22-94	11:45			
12-5300	6-22-94	11:45			
12-5299	6-22-94	11:45			
12-5298	6-22-94	11:45			
12-5297	6-22-94	11:45			
12-5296	6-22-94	11:45			
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12-5294	6-22-94	11:45			
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12-5289	6-22-94	11:45			
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12-5235	6-22-94	11:45			
12-5234	6-22-94	11:45			
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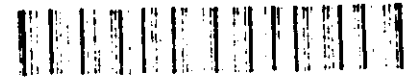
SHIPPERS COPY

SHIPPER ALWAYS REFER TO BOTH ORIGINAL AIRBILL NUMBER AND THIS CROSS REFERENCE NUMBER WHEN MAKING INQUIRIES



DATE RANGE

591337283



Sender information fields: TO: Recipient's Name, COMPANY, STREET ADDRESS, CITY, STATE, ZIP

Sender information fields: TO: Recipient's Name, COMPANY, STREET ADDRESS, CITY, STATE, ZIP

Account information: ACCOUNT NO. 591337283, BILL TO: Shipper, Recipient, or 3rd Party

Account information: ACCOUNT NO. 591337283, BILL TO: Shipper, Recipient, or 3rd Party

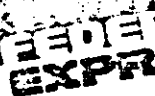
Service selection: PRIORITY ONE (P-1), OVERNIGHT LETTER, COURIER PAK, STANDARD AIR, OVERNIGHT IS NEXT BUSINESS DAY

Delivery and special handling: DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED, HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION

Table with columns: PIECES, WEIGHT, DECLARED VALUE, OS. Includes 'RECEIVED AT' section with checkboxes for Shipper's Door, Regular Stop, On-Call Stop, F.B.C. LOC.

Charges section: AGT/PRO, ADVANCE ORIGIN, ADVANCE DESTINATION, OTHER, TOTAL CHARGES. Includes an airplane illustration.

SHIPPERS COPY



SHIPPERS COPY

SHIPPER ALWAYS REFER TO BOTH ORIGINAL AIRBILL NUMBER AND THIS CROSS REFERENCE NUMBER WHEN MAKING INQUIRIES



DATE RANGE

591337294



Sender information fields: TO: Recipient's Name, COMPANY, STREET ADDRESS, CITY, STATE, ZIP

Sender information fields: TO: Recipient's Name, COMPANY, STREET ADDRESS, CITY, STATE, ZIP

Account information: IBILL NO. 591337294, BILL TO: Shipper, Recipient, or 3rd Party

Account information: IBILL NO. 591337294, BILL TO: Shipper, Recipient, or 3rd Party

Service selection: PRIORITY ONE (P-1), OVERNIGHT LETTER, COURIER PAK, STANDARD AIR, OVERNIGHT IS NEXT BUSINESS DAY

Delivery and special handling: DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED, HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION

Table with columns: PIECES, WEIGHT, DECLARED VALUE, OS. Includes 'RECEIVED AT' section with checkboxes for Shipper's Door, Regular Stop, On-Call Stop, F.B.C. LOC.

Charges section: AGT/PRO, ADVANCE ORIGIN, ADVANCE DESTINATION, OTHER, TOTAL CHARGES. Includes an airplane illustration.

SHIPPERS COPY

ORIGINAL

PART #2041730700





# INORGANIC TRAFFIC REPORT

MO 9036

<p>① Case Number: _____          Sample Site Name/Code: _____          _____          _____</p>	<p>② SAMPLE CONCENTRATION          (Check One)  <input type="checkbox"/> Low Concentration  <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX          (Check One)  <input type="checkbox"/> Water  <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____          _____          Attn: _____          Transfer Ship To: _____</p>
<p>⑤ Sampling Office: _____          Sampling Personnel:          (Name) _____          (Phone) _____          Sampling Date:          (Begin) _____ (End) _____</p>	<p>⑥ Shipping Information:          Name Of Carrier: _____          _____          Date Shipped: _____          Airbill Number: _____</p>	
<p>⑦ Sample Description:          (Check One)  <input type="checkbox"/> Surface Water  <input type="checkbox"/> Ground Water  <input type="checkbox"/> Leachate  <input type="checkbox"/> Mixed Media  <input type="checkbox"/> Solids  <input type="checkbox"/> Other _____          (specify)</p> <p>MATCHES ORGANIC SAMPLE NO. _____</p>	<p>⑧ Mark Volume Level          On Sample Bottle          Check Analysis required</p> <p><input type="checkbox"/> Task 1 &amp; 2  <input type="checkbox"/> Task 3 Ammonia              Sulfide              Cyanide</p> <p><input type="checkbox"/> TOC  <input type="checkbox"/> Fluoride &amp; pH</p>	

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AR100178

ORIGINAL  
(254)



# INORGANICS TRAFFIC REPORT

Sample Number  
**MC 8947**

Case Number: _____ Sample Site Name/Code: _____ _____ _____ _____	<b>② SAMPLE CONCENTRATION</b> (Check One) <input type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration <b>③ SAMPLE MATRIX</b> (Check One) <input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment	<b>④ Ship To:</b>  Attn: _____ Transfer Ship To: _____
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<b>⑤ Sampling Office:</b> _____ Sampling Personnel: (Name) _____ (Phone) _____ Sampling Date: (Begin) _____ (End) _____	<b>⑥ Shipping Information:</b> Name Of Carrier: _____  Date Shipped: _____ Airbill Number: _____	
--	--	--

<b>⑦ Sample Description:</b> (Check One) <input type="checkbox"/> Surface Water <input type="checkbox"/> Ground Water <input type="checkbox"/> Leachate <input type="checkbox"/> Mixed Media <input type="checkbox"/> Solids <input checked="" type="checkbox"/> Other _____ (specify) MATCHES ORGANIC SAMPLE NO. _____	<b>⑧ Mark Volume Level</b> <b>On Sample Bottle</b> Check Analysis required <input type="checkbox"/> Task 1 & 2 <input type="checkbox"/> Task 3 Ammonia Sulfide Cyanide <input type="checkbox"/> TOC <input type="checkbox"/> Fluoride & pH	
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AR100179 ORIGINAL  
12/81



# INORGANIC STRAIN REPORT

Sample Number  
**MC 903**

① Case Number: \_\_\_\_\_  
 Sample Site Name/Code: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

② SAMPLE CONCENTRATION  
 (Check One)  
 Low Concentration  
 Medium Concentration

③ SAMPLE MATRIX  
 (Check One)  
 Water  
 Soil/Sediment

④ Ship To: \_\_\_\_\_  
 \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Transfer Ship To: \_\_\_\_\_

⑤ Sampling Office: \_\_\_\_\_  
 Sampling Personnel: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 (Phone) \_\_\_\_\_  
 Sampling Date: \_\_\_\_\_  
 (Begin) \_\_\_\_\_ (End) \_\_\_\_\_

⑥ Shipping Information:  
 Name Of Carrier: \_\_\_\_\_  
 \_\_\_\_\_  
 Date Shipped: \_\_\_\_\_  
 Airbill Number: \_\_\_\_\_

⑦ Sample Description:  
 (Check One)  
 Surface Water  
 Ground Water  
 Leachate  
 Mixed Media  
 Solids  
 Other \_\_\_\_\_ (specify)  
 MATCHES ORGANIC SAMPLE NO. \_\_\_\_\_

⑧ Mark Volume Level  
 On Sample Bottle  
 Check Analysis required  
 Task 1 & 2  
 Task 3 Ammonia  
                   Sulfide  
                   Cyanide  
 TOC  
 Fluoride & pH

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ORIGINAL  
(100)





# INORGANIC STRATEGIC REPORT

Sample Number  
**MC 900**

Case Number: _____ Sample Site Name/Code: _____ _____ _____	<b>② SAMPLE CONCENTRATION</b> (Check One) <input type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration <b>③ SAMPLE MATRIX</b> (Check One) <input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment	<b>④ Ship To:</b>  Attn: _____ Transfer Ship To: _____
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<b>⑤ Sampling Office:</b> _____ Sampling Personnel: (Name) _____ (Phone) _____ Sampling Date: (Begin) _____ (End) _____	<b>⑥ Shipping Information:</b> Name Of Carrier: _____  Date Shipped: _____ Airbill Number: _____	
--	--	--

<b>⑦ Sample Description:</b> (Check One) <input type="checkbox"/> Surface Water <input type="checkbox"/> Ground Water <input type="checkbox"/> Leachate <input type="checkbox"/> Mixed Media <input type="checkbox"/> Solids <input checked="" type="checkbox"/> Other _____ (specify) MATCHES ORGANIC SAMPLE NO. _____	<b>⑧ Mark Volume Level</b> <b>On Sample Bottle</b> Check Analysis required <input type="checkbox"/> Task 1 & 2 <input type="checkbox"/> Task 3 Ammonia Sulfide Cyanide <input type="checkbox"/> TOC <input type="checkbox"/> Fluoride & pH	
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ORIGINAL  
(204)  
AR100181



# INORGANIC STRATEGIC REPORT

Sample Number  
**MC 9825**

<p>① Case Number: _____ Sample Site Name/Code: _____ _____ _____</p>	<p>② SAMPLE CONCENTRATION (Check One) ____ Low Concentration ____ Medium Concentration</p> <p>③ SAMPLE MATRIX (Check One) ____ Water ____ Soil/Sediment</p>	<p>④ Ship To: _____  Attn: _____  Transfer Ship To: _____</p>
--	---	---

<p>⑤ Sampling Office: _____ Sampling Personnel: _____  (Name) _____ (Phone) _____ Sampling Date: _____  (Begin) _____ (End) _____</p>	<p>⑥ Shipping Information: Name Of Carrier: _____  Date Shipped: _____ Airbill Number: _____</p>	
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<p>⑦ Sample Description: (Check One) ____ Surface Water ____ Ground Water ____ Leachate ____ Mixed Media ____ Solids ____ Other _____ (specify) MATCHES ORGANIC SAMPLE NO. _____</p>	<p>⑧ Mark Volume Level On Sample Bottle Check Analysis required ____ Task 1 &amp; 2 ____ Task 3 Ammonia     Sulfide     Cyanide ____ TOC ____ Fluoride &amp; pH</p>	
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# INORGANIC STRAIN CENTER

Sample Number  
**MC 902**

Case Number: _____ Sample Site Name, Code: _____ _____ _____	<b>2 SAMPLE CONCENTRATION</b> (Check One) <input type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration <b>3 SAMPLE MATRIX</b> (Check One) <input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment	<b>4 Ship To:</b>  Attn: _____ Transfer Ship To: _____
<b>5 Sampling Office:</b> _____ Sampling Personnel: (Name) _____ (Phone) _____ Sampling Date: (Begin) _____ (End) _____	<b>6 Shipping Information:</b> Name Of Carrier: _____  Date Shipped: _____ Airbill Number: _____	          
<b>7 Sample Description:</b> (Check One) <input type="checkbox"/> Surface Water <input type="checkbox"/> Ground Water <input type="checkbox"/> Leachate <input type="checkbox"/> Mixed Media <input checked="" type="checkbox"/> Solids <input type="checkbox"/> Other _____ (specify) MATCHES ORGANIC SAMPLE NO. _____	<b>8 Mark Volume Level</b> <b>On Sample Bottle</b> Check Analysis required <input type="checkbox"/> Task 1 & 2 <input type="checkbox"/> Task 3 Ammonia Sulfide Cyanide <input type="checkbox"/> TOC <input type="checkbox"/> Fluoride & pH	          

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REGIONAL  
(30)



# INORGANIC ANALYSIS REPORT

Sample Number

MC 002

<p>① Case Number: _____          Sample Site Name/Code: _____          _____          _____</p>	<p>② SAMPLE CONCENTRATION          (Check One)  <input type="checkbox"/> Low Concentration  <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX          (Check One)  <input type="checkbox"/> Water  <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____          _____          Attn: _____          Transfer Ship To: _____</p>
<p>⑤ Sampling Office: _____          Sampling Personnel: _____          (Name) _____          (Phone) _____          Sampling Date: _____          (Begin) _____ (End) _____</p>	<p>⑥ Shipping Information:          Name Of Carrier: _____          _____          Date Shipped: _____          Airbill Number: _____</p>	
<p>⑦ Sample Description:          (Check One)  <input type="checkbox"/> Surface Water  <input type="checkbox"/> Ground Water  <input type="checkbox"/> Leachate  <input type="checkbox"/> Mixed Media  <input type="checkbox"/> Solids  <input type="checkbox"/> Other _____          (specify)          MATCHES ORGANIC SAMPLE NO. _____</p>	<p>⑧ Mark Volume Level          On Sample Bottle          Check Analysis required  <input type="checkbox"/> Task 1 &amp; 2  <input type="checkbox"/> Task 3 Ammonia              Sulfide              Cyanide  <input type="checkbox"/> TOC  <input type="checkbox"/> Fluoride &amp; pH</p>	

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3/1/84



# INORGANIC STRAIGHT THROUGH

Sample Number  
**MC 300**

Case Number: _____ Sample Site Name/Code: _____ _____ _____	<b>2 SAMPLE CONCENTRATION</b> (Check One) <input type="checkbox"/> Low Concentration <input type="checkbox"/> Medium Concentration <b>3 SAMPLE MATRIX</b> (Check One) <input type="checkbox"/> Water <input type="checkbox"/> Soil/Sediment	<b>4 Ship To:</b>  Attn: _____ Transfer Ship To: _____
--	--	--

<b>5 Sampling Office:</b> _____ Sampling Personnel: (Name) _____ (Phone) _____ Sampling Date: (Begin) _____ (End) _____	<b>6 Shipping Information:</b> Name Of Carrier: _____  Date Shipped: _____ Airbill Number: _____	
--	--	--

<b>7 Sample Description:</b> (Check One) <input type="checkbox"/> Surface Water <input type="checkbox"/> Ground Water <input type="checkbox"/> Leachate <input type="checkbox"/> Mixed Media <input type="checkbox"/> Solids <input checked="" type="checkbox"/> Other _____ (specify) <b>MATCHES ORGANIC SAMPLE NO.</b> _____	<b>8 Mark Volume Level</b> <b>On Sample Bottle</b> Check Analysis required <input type="checkbox"/> Task 1 & 2 <input type="checkbox"/> Task 3 Ammonia Sulfide Cyanide <input type="checkbox"/> TOC <input type="checkbox"/> Fluoride & pH	
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# INORGANIC STRAIN REPORT

Sample Number  
M 7 812

<p>① Case Number: _____          Sample Site Name, Code: _____          _____          _____</p>	<p>② SAMPLE CONCENTRATION          (Check One)  <input type="checkbox"/> Low Concentration  <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX          (Check One)  <input type="checkbox"/> Water  <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____          _____          Attn: _____          Transfer Ship To: _____</p>
--	---	--

<p>⑤ Sampling Office: _____          Sampling Personnel: _____          (Name) _____          Phone) _____          Sampling Date: _____          (Begin) _____ (End) _____</p>	<p>⑥ Shipping Information:          Name Of Carrier: _____          _____          Date Shipped: _____          Airbill Number: _____</p>	
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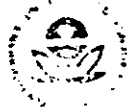
<p>⑦ Sample Description:          (Check One)  <input type="checkbox"/> Surface Water  <input type="checkbox"/> Ground Water  <input type="checkbox"/> Leachate  <input type="checkbox"/> Mixed Media  <input type="checkbox"/> Solids  <input type="checkbox"/> Other _____ (specify)          MATCHES ORGANIC SAMPLE NO. _____</p>	<p>⑧ Mark Volume Level          On Sample Bottle          Check Analysis required  <input type="checkbox"/> Task 1 &amp; 2  <input type="checkbox"/> Task 3 Ammonia              Sulfide              Cyanide  <input type="checkbox"/> TOC  <input type="checkbox"/> Fluoride &amp; pH</p>	
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000001  
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# INORGANIC STRAIN REPORT

Sample Number  
**MO 002**

<p>① Case Number: _____          Sample Site Name/Code: _____          _____          _____</p>	<p>② SAMPLE CONCENTRATION          (Check One)  <input type="checkbox"/> Low Concentration  <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX          (Check One)  <input type="checkbox"/> Water  <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____          _____          _____</p> <p>Attn: _____</p> <p>Transfer Ship To: _____</p>
<p>⑤ Sampling Office: _____          Sampling Personnel: _____          (Name) _____          (Phone) _____          Sampling Date: _____          (Begin) _____ (End) _____</p>	<p>⑥ Shipping Information:          Name Of Carrier: _____          _____          Date Shipped: _____          Airbill Number: _____</p>	
<p>⑦ Sample Description:          (Check One)  <input type="checkbox"/> Surface Water  <input type="checkbox"/> Ground Water  <input type="checkbox"/> Leachate  <input type="checkbox"/> Mixed Media  <input type="checkbox"/> Solids  <input type="checkbox"/> Other _____          (specify)</p> <p>MATCHES ORGANIC SAMPLE NO. _____</p>	<p>⑧ Mark Volume Level          On Sample Bottle          Check Analysis required</p> <p><input type="checkbox"/> Task 1 &amp; 2  <input type="checkbox"/> Task 3 Ammonia                            Sulfide                            Cyanide</p> <p><input type="checkbox"/> TOC  <input type="checkbox"/> Fluoride &amp; pH</p>	

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# INORGANIC STRAIGHT REPORT

Sample Number

MC 2051

<p>① Case Number: _____          Sample Site Name/Code: _____          _____          _____</p>	<p>② SAMPLE CONCENTRATION          (Check One)  <input type="checkbox"/> Low Concentration  <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX          (Check One)  <input type="checkbox"/> Water  <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____          _____          Attn: _____          Transfer          Ship To: _____</p>
<p>⑤ Sampling Office: _____          Sampling Personnel:          (Name) _____          (Phone) _____          Sampling Date:          (Begin) _____ (End) _____</p>	<p>⑥ Shipping Information:          Name Of Carrier: _____          _____          Date Shipped: _____          Airbill Number: _____</p>	
<p>⑦ Sample Description:          (Check One)  <input type="checkbox"/> Surface Water  <input type="checkbox"/> Ground Water  <input type="checkbox"/> Leachate  <input type="checkbox"/> Mixed Media  <input type="checkbox"/> Solids  <input type="checkbox"/> Other _____          (specify)          MATCHES ORGANIC SAMPLE NO. _____</p>	<p>⑧ Mark Volume Level          On Sample Bottle          Check Analysis required  <input type="checkbox"/> Task 1 &amp; 2  <input type="checkbox"/> Task 3 Ammonia                            Sulfide                            Cyanide  <input type="checkbox"/> TOC  <input type="checkbox"/> Fluoride &amp; pH</p>	

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AR100190

ORIGINAL



# INORGANIC STRAIN (GHEP) 11

Sample Number  
**MC 257**

Case Number: \_\_\_\_\_  
Sample Site Name/Code: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

② **SAMPLE CONCENTRATION**  
(Check One)  
\_\_\_\_ Low Concentration  
\_\_\_\_ Medium Concentration  
③ **SAMPLE MATRIX**  
(Check One)  
\_\_\_\_ Water  
\_\_\_\_ Soil/Sediment

④ **Ship To:**  
  
Attn: \_\_\_\_\_  
  
Transfer  
Ship To: \_\_\_\_\_

⑤ **Sampling Office:** \_\_\_\_\_  
**Sampling Personnel:**  
  
(Name) \_\_\_\_\_  
(Phone) \_\_\_\_\_  
Sampling Date:  
(Begin) \_\_\_\_\_ (End) \_\_\_\_\_

⑥ **Shipping Information:**  
Name Of Carrier: \_\_\_\_\_  
  
Date Shipped: \_\_\_\_\_  
Airbill Number: \_\_\_\_\_

⑦ **Sample Description:**  
(Check One)  
\_\_\_\_ Surface Water  
\_\_\_\_ Ground Water  
\_\_\_\_ Leachate  
\_\_\_\_ Mixed Media  
\_\_\_\_ Solids  
\_\_\_\_ Other \_\_\_\_\_  
(specify)  
**MATCHES ORGANIC SAMPLE NO.** \_\_\_\_\_

⑧ **Mark Volume Level**  
**On Sample Bottle**  
Check Analysis required  
\_\_\_\_ Task 1 & 2  
\_\_\_\_ Task 3 Ammonia  
    Sulfide  
    Cyanide  
\_\_\_\_ TOC  
\_\_\_\_ Fluoride & pH

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AR100191 ORIGINAL



# INORGANIC STRATIGRAPHY

Sample Number  
**MD 8917**

<p>① Case Number: _____          Sample Site Name/Code: _____          _____          _____</p>	<p>② SAMPLE CONCENTRATION          (Check One)  <input type="checkbox"/> Low Concentration  <input type="checkbox"/> Medium Concentration</p> <p>③ SAMPLE MATRIX          (Check One)  <input type="checkbox"/> Water  <input type="checkbox"/> Soil/Sediment</p>	<p>④ Ship To: _____          Attn: _____          Transfer Ship To: _____</p>
<p>⑤ Sampling Office: _____          Sampling Personnel:          Name: _____          (Phone) _____          Sampling Date:          (Begin) _____ (End) _____</p>	<p>⑥ Shipping Information:          Name Of Carrier: _____          Date Shipped: _____          Airbill Number: _____</p>	
<p>⑦ Sample Description:          (Check One)  <input type="checkbox"/> Surface Water  <input type="checkbox"/> Ground Water  <input type="checkbox"/> Leachate  <input type="checkbox"/> Mixed Media  <input type="checkbox"/> Solids  <input type="checkbox"/> Other _____          (specify)  <b>MATCHES ORGANIC SAMPLE NO.</b> _____</p>	<p>⑧ Mark Volume Level          On Sample Bottle          Check Analysis required  <input type="checkbox"/> Task 1 &amp; 2  <input type="checkbox"/> Task 3 Ammonia                            Sulfide                            Cyanide  <input type="checkbox"/> TOC  <input type="checkbox"/> Fluoride &amp; pH</p>	

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AR100192

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(Red)

APPENDIX D

AR100193

CONCLUSIONS

1. Ground water flows and quality are dominated by the complex geologic setting in the vicinity of the Modern Sanitary Landfill. In the study area ground water flows generally in a southeast-northwest direction within the upper surface of the bedrock. Under non-pumping conditions, topography dictates the overall ground water patterns. In the northern most portion of the study area, the ground water table approaches the ground surface and in places discharges into the streams as springs.
2. The firm bedrock units strike N60°E and, as discussed elsewhere, have relatively low permeability (K) along strike and even lower permeability normal to strike. As a result, the bedrock units constitute a barrier to vertical and horizontal migration of ground water.
3. The regional hydrogeology is such that localized significant distortion (including reversal) of the principal ground water flow pattern can occur as a result of pumping of domestic water supply wells.

The principal factors which influence the magnitude and character of groundwater flow pattern distortions include the effects of overthrust faulting, near vertical orientation of the stratigraphic units, and overall tight bedrock structure. In the southern section of the study area, the "Brown New Well" pumping test results show that nominal ground water well yields are very low. Further, the water table drawdown magnitude and well influence distances, when related to the low well yields, are substantial. In fact, localized ground water table reversals occurred during the pump test.

ORIGINAL  
(Red)

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4. The pump test performed in the southern portion of the study area shows that the ground water table drawdown pattern shape is an ellipse with its major axis approximately parallel to the rock strike (N60°E) and fault zone. This phenomenon is in addition to the previous observation, in Conclusion No. 3, as to the reversal of ground water gradients.
5. The pump test results indicate that wells located in the southern portion of the study area may have their water quality affected by the landfill, if their zone of influence extends therein. The shape, extent and size of the influence zone is affected by well depth, casing depth, the pumping rate, rock strike, rock permeability and by the amount of uncased well which lies within the faulted crushed rock zone. It is concluded that only wells located within approximately 500 feet of the southern landfill perimeter will have their water quality affected thereby. An exception could occur if a well uses as its primary water source the crushed rock associated with the suspected fault zone. The specific character of the fault zone which appears to underlie a significant portion of the landfill remains unidentified with the presently available information. However, it is postulated that as the fault zone moves south from the landfill, its attitude is probably of increasing depth. Further, it is postulated that the fault zone becomes less permeable as a result of an increasingly tight structure. To the south of the landfill, it is probable that the fault zone attains such a depth as to not be penetrated by wells of the domestic type.
6. As previously discussed, bedrock structure is tight. As such it acts as a relatively impervious barrier, which inhibits the migration of any landfill associated contaminants and contains them within the landfill

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boundaries. However, the existence of the thrust fault, its probable breaching in the old iron exploratory pits (Drawing No. 2, Geologic report) and associated jointing-fracture patterns provide a possible southern outlet for landfill associated contaminants (Note: joints are secondary fractures which form in the rock and lie at various angles with and can intersect with the rock bedding which parallels strike. Joint permeabilities are usually significantly lower than the permeabilities in the direction of bedrock strike).

7. Available information indicates that the Druck well and the "Brown New Well" draw their water from the bed rock fractures which lie along the same strike. As a result the quality of the "Brown New Well" and the Druck well are interrelated. The test results show that pumping of the "Brown Wells" accelerates the migration of landfill associated contaminants into the water bearing fractions common to both wells. The purchase of the Brown property by SCA Services has resulted in the existing wells being terminated as a source of domestic water. Termination of pumping substantially reduces the continued forceful migration of landfill associated contaminants into the vicinity of the "Brown Wells" and into their associated fracture water reservoirs. Consequently, the potential for reducing the migration of landfill associated contaminants into the Druck Well as a result of ground water table reversals is also greatly reduced, if not completely eliminated. While it is clear that the termination of utilization of the "Brown Wells" will protect the long term water quality in the Druck well, the possible existence of secondary fractures (joints) makes it impossible to insure its complete protection. A simplified pumping test, as described in the



recommendation section, should be performed on the Druck well to address this question. The results of this test would assist in the definition of the region of interaction between the landfill and local wells in the southern portion of the study area.

8. The elevated concentrations of volatile organics found within the landfill ground water in the vicinity of monitoring wells A-1 and A-2, suggest that this is the primary source of region contaminants being detected at the landfill perimeter zones.
9. Upgrading and maintenance of local ground water quality should be based on a program of control and removal of the substances found within the landfill in the vicinity of monitoring wells A-1 and A-2.
10. Ground and surface water quality in the western and northern regions of the landfill area is presently satisfactory. However, low concentrations of volatile organics have been detected. While the level and distribution of volatile organics which have been detected do not require a remedial program, volatile organics monitoring should be implemented.
11. The existing interceptor trench and pipe, along the western side of the landfill, should be fully assessed as to its adequacy to effectively intercept any shallow contaminant movement from the landfill. This evaluation would include, pipe and trench length, depth and setting of invert elevations, and establishment of meaningful ground water table elevations.

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APPENDIX E

AR100198

YELLOW GROVE EASTERN MATERIALS, 124 BRENTWOOD DRIVE 19990

SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1975. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS NO LONGER IN USE. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), ORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE REPROCESSING AND/OR RECYCLING.

UNREPORTED HOPPERS COMPANY, INC., FAIRVIEW TOWNSHIP

SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1949 TO 196. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS POSSIBLY OPEN OR CLOSED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE ORGANICS AND INORGANICS. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL.

UNREPORTED STRAVAGGI'S, WASHINGTON COUNTY

SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS POSSIBLY OPEN OR CLOSED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE ORGANICS AND INORGANICS. METHODS OF DISPOSAL ARE NOT KNOWN.

TOOK TROOPERS SANITARY LANDFILL, ADDRESS UNREPORTED
SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1974 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS STILL BEING USED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE ACID SOLUTIONS (WITH PH < 3), BASE SOLUTIONS (WITH PH > 11), HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), RADIOACTIVE RESIDUES (WITH OVER 30 PICO-CURIES PER GRAM), INORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL.

TOOK HADDIS HILLS BL. R.D. 922 N. SHERMAN STREET 19402

SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1979 TO 1978. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS NO LONGER IN USE. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY) AND ORGANICS. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL.

TOOK HADDIS HILLS BL. R.D. 922 N. SHERMAN STREET 19403

SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1948 TO 1965. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS NO LONGER IN USE. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY) AND ORGANICS. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL.

TOOK STANBARD CONCRETE PRODUCTS, 708 N. SHERMAN ST. 17403

SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS STILL BEING USED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE ACID SOLUTIONS (WITH PH < 3), HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), RADIOACTIVE RESIDUES (WITH OVER 50 PICO-CURIES PER GRAM), ORGANICS AND INORGANICS. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL AND MIXED INDUSTRIAL WASTE LANDFILL.

TOOK UNION OIL CO OF CALIF, 358 N. SHERMAN ST. 19403

SITE IS LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY AND IS KNOWN TO HAVE BEEN USED FOR DISPOSAL IN 1979 AT LATEST. SITE IS NO LONGER IN USE. AMOUNT OF CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE THROUGH 1978 WAS REPORTED AS 1 IMPURED TONS. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE ACID SOLUTIONS (WITH PH < 3), BASE SOLUTIONS (WITH PH > 11), HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), RADIOACTIVE RESIDUES (WITH OVER 30 PICO-CURIES PER GRAM), INORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL AND PITS, POND AND LAGOONS.

A LANDFILL, BRIDGE STREET HILL 10840

PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS NO LONGER IN USE. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE ACID SOLUTIONS (WITH PH < 3), BASE SOLUTIONS (WITH PH > 11), HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), ORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL, UNPURIFIED HIGH MUNICIPAL WASTES CO-DISPOSED, PITS, POND AND LAGOONS AND

TECHNICALS COMP., 400 RIVER BR. 19420

PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS POSSIBLY OPEN OR CLOSED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL ARE NOT KNOWN.

INC. INDUSTRIAL WASTE

PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS STILL BEING USED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), ORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL.

UNION PA PLANT, WEST WILIE AVENUE 35301
PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY AND IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS NO LONGER IN USE. AMOUNT OF CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE WAS REPORTED AS 2 IMPURED TONS. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), ORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE PITS, POND AND LAGOONS AND

UNION H MARTIN LANDFILL, NORTH MAIN STREET EXTENSION 15301

PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS STILL BEING USED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), ORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE LANDFILL IN WHICH MUNICIPAL WASTE MATERIAL, METHODS OF DISPOSAL INCLUDE PITS, POND AND LAGOONS.

UNION SAINT/FRONTS CO BALLS, ADDRESS UNREPORTED 19420

PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1949 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS STILL BEING USED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY) AND ORGANICS. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL.

UNION TECHNICALS COMP., 400 RIVER BR. 19420

PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS POSSIBLY OPEN OR CLOSED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL ARE NOT KNOWN.

UNION INC. INDUSTRIAL WASTE

PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1978 TO 1979. AT TIME OF USE, SITE WAS OWNED BY PRIVATE CONCERN OTHER THAN CHEMICAL COMPANY INCLUDED IN THIS SURVEY. SITE IS STILL BEING USED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE HEAVY METALS AND TRACE METALS (BORON ORGANICALLY AND INORGANICALLY), ORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL IN WHICH MUNICIPAL WASTE IS CO-DISPOSED.

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APPENDIX F

AR100200



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES

Bureau of Solid Waste Management  
407 South Cameron Street  
Harrisburg, Pennsylvania 17101

(717) 787-9697

June 25, 1981



SCA Services, Inc.  
700 North Hartley Street  
York, PA 17405

RE: Recent Inspection of Modern Landfill  
I. D. No. 100113  
Windsor & Lower Windsor Townships  
York County

Gentlemen:

This letter concerns violations observed by Department personnel at Modern Landfill on June 4, 1981. The inspection was conducted to determine the facility's compliance with permit No. 100113 issued by the Department. The writer was accompanied by Thomas Miller, Hydrogeologist, and Glen Ayers, Soil Scientist, representing the Solid Waste Management Technical Staff of the Harrisburg Regional Office.

The following discrepancies were noted and must be corrected to achieve compliance with the Rules and Regulations of the Department.

1. The two sedimentation basins which were breached, without approval from the Department, must be repaired as soon as possible. Suitable risers and emergency spillways must be installed in accordance with Chapter 102 regulations and as specified in the design plans.
2. Volatile organic analysis was performed on samples collected at this facility on January 27, 1981 and again on March 2, 1981. These samples confirmed the presence of various industrial organic compounds in the groundwater. The location and concentration of these compounds in monitoring wells strongly suggests the possibility of off-site migration of contaminants in the groundwater to the east of the landfill. Organics are also being discharged to a tributary of Kreutz Creek, through the inactive treatment plant's outfall.

A competent hydrogeologic consultant should be retained to determine the mechanisms and extent of all off-site pollution migration and propose a method for alleviating this condition. This study should arrange to relocate the upgradient or background quality monitoring well to assume the function of the now contaminated B-15. The old well B-15 should be retained in the monitoring network.

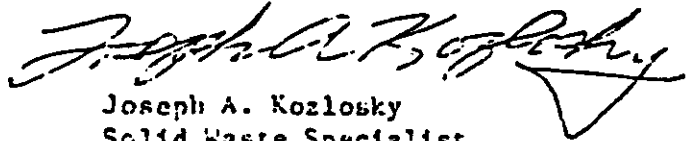
3. The results of the inspection indicate that site conditions and operations at Modern Landfill are not in conformance with the Department approved design plans dated January, 1975. Updated design plans must be submitted depicting the actual site lay out construction.

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A Services, Inc.  
June 25, 1981  
Page 2

Please respond to the above comments within fifteen (15) days upon receipt of this letter, and provide the Department with a time schedule indicating corrective measures. Without revised plans approved by the Department for the design and operation of this facility, the Department can only find Modern Landfill in non-compliance with permit No. 100113. If there are any questions concerning this letter, please feel free to contact this office.

Respectfully,



Joseph A. Kozlosky  
Solid Waste Specialist  
Harrisburg Regional Office

JAK/rra

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