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(Red)

FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES

FIT PROJECT

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

A Site Inspection
of

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51

Preparation Date: May 14, 1982

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

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ecology and environment, inc.

International Specialists in the Environmental Sciences

63100

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Baltimore, MD
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SUMMARY AND RECOMMENDATIONS

Summary

Baltimore Steel Drum (formerly Buck's Steel Drum) is an abandoned drum reclaiming operation located off of Kresson Street in southeast Baltimore. The site consists of two abandoned buildings and an incinerator on a one acre plot. There are about 600 drums of which one-third (1/3) may be containing waste. The yard area has at least eighteen inches (18") of incinerator ash and sludge covering it. Compounds found in significant quantities on site included PCB's, 1,1,1-trichloroethane, fluoranthene, toluene, barium, chromium, copper, zinc, cadmium and lead. The surface runoff showed low concentrations of boron, zinc, cadmium and lead. Off-site soil contains PCB's and several of the metals. No ambient air readings above background were noted on site. However, when the soil was dug up to sample, readings of 5-10 ppm were noted. Due to the low temperature (30°F), volatilization of the organics found on site would be low.

The MD Department of Health and Mental Hygiene presently has a Complaint and Order issued on December 28, 1981, to cease and desist discharges from the property, clean up and remove all waste drums, chemicals, and debris and to submit a report detailing actions and disposal sites. Barton Kline, the present owner, has not complied with this order which was to be met by January 15, 1982.

Recommendations

The following recommendations are submitted to better determine the extent of contamination and to prevent further contamination:

- Conduct additional air monitoring during the warmer months.

- Conduct more extensive drum sampling to determine characteristics of other wastes on site and the quantity of drums containing waste.

- Conduct soil augering or backhoe excavation of yard to determine depth of sludge in the yard.

- Assist the State of Maryland in enforcement of Complaint and Order against Barton Kline. (Kline Cooperage, the holding company, is located in Lehigh Valley, PA.)

- Secure the site by adding to and mending the existing fence to prevent public access due to the presence of PCB's on site.

- Secure the site to prevent further runoff of contaminants.

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FIELD TRIP REPORT

Introduction

On 19 February 1982, FIT Region III performed a site investigation and sampling at Baltimore Steel Drum (formerly Buck's Steel Drum). FIT Region III members were Elizabeth Gross, Alton Stone, Terrence Shannon and Eugene Dennis. Accompanying FIT Region III was Mike Bromberg from MD Department of Health and Mental Hygiene (MD DHMH). Since there was no available representative from Baltimore Steel Drum, Sandy Shapiro and John Schnepf of Cambridge Iron and Metal Company, Inc. were interviewed during the site visit. Cambridge Iron operates a scrap metal yard adjacent to the east and south of Baltimore Steel Drum. Cambridge Iron and Metal Company has been in operation during most of the years Buck operated the drum reclaiming business.

The day was overcast and raining/snowing most of the day. The temperature was in the low 30°F.

Site Description

Baltimore Steel Drum occupies about 1 acre in southeast Baltimore on Kresson Street 500' north of O'Donnell Street (lat. 39° 16' 54" N; long. 76° 33' 37" W). The area is primarily industrial.

Baltimore Steel Drum was formerly Buck's Steel Drum owned and operated by Harry and Herman Buck prior to the sale of the business to Barton Kline. The business was originally owned and operated by Harry and Herman Buck's grandfather. The business has been in operation since the late 1930's. The drum cleaning operation was originally done by hand and progressed to a series of incineration, caustic soda bath, blowing out the dents and sanding. One reported incident of worker injury was related. One worker slipped near the wash sump and his foot and leg was severly burned. The worker was hospitalized.

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Also noted at one time was the burning of some substance which created an ash which blew all over the area. Odors are noticeable during the warmer months.

Since the 28 December 1981 Complaint and Order issued by the MD DHMH to clean up the site, the equipment used in the operation and some of the empty reclaimed drums have been removed. The buildings had been emptied of all equipment and machinery.

There are two buldings on site. One is a cinderblock building with a small office and restroom in the southeast corner. Most of the drums are open and filled with scrap metal and miscellaneous parts. There are about 20 closed drums in the building. Seventeen are grouped against the west wall. A sample (#20) was obtained of spillage near these drums. Near the northwest column is a closed silver drum. OVA readings were over 1000 ppm at the drum head. Among the 55 gallon drums were 5 gallon square lacquer cans and 5 gallon buckets.

The other buliding is a frame structure covered partly in corrugated metal and fibre glass panels. The southern wall of the building has been torn down. This building is where the drums were fed to the adjacent incinerator and washed. The building contained a boiler tank, an oil tank, two sumps and the washwater pit. There was a stack of 50 pound bags of caustic soda against the east wall. Approximately eighty (80) drums, half of which were closed, are located throughout the building. Samples were taken from both sumps, the washwater pit, spillage at the south end of the building and one open ring top drum.

The yard which must have served as a delivery and staging area is approximatley 130' by 200'. The only vegetation on the site was one dead tree and some vines on the fence. (the fence on the south side was broken down.)

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Along the west fence was a pile of smashed carboys and trash. About 125 - 55 gallon drums were grouped in four areas around the yard (See Figure 4). Reportedly there is no concrete padding in the yard. An eighteen inch (18") deep hole was near the incinerator in an attempt to reach the original soil. After eighteen inches of black fill, in which rubble, trash, a buried drum lid and a layer of whitish-gray clay-like material were found, the original soil was not encountered. Nine soil samples were taken throughout the yard and two aqueous samples of pooled water.

Stacked behind the cinder block building were about 250 - 55 gallon drums. It is estimated that one-third to one-half of these may contain wastes. A dozen drums have fallen over the fence onto the adjacent property near the storage tanks (See Photograph 16).

The last area of drums is along the east wall of the frame building on Kresson Street. About 45 drums plus some in the back of the truck are located here (See Photographs 17-20).

A sample of runoff from the site was obtained along the southwest corner of the property. Most of the runoff from the site was generated from the rain and the melting snow. Most surface runoff from the site and the adjacent parking lot and road ran to a storm sewer about 75 - 100' southwest of the site. The drainage grate was located in front of the maintenance building for Cambridge Iron and Metal. Due to the quantity of water draining throughout the area to the storm sewer, no sample was obtained at sewer. Sample #19 is representative of the runoff from the site. Six hundred drums are estimated to be on site. As many as one-half of these may contain wastes.

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TOXICOLOGICAL REVIEW

Based on the results contained herein, toxicological concern on Baltimore Steel Drum can be limited to chronic effects of persons coming in contact with the waste for extended time periods since the waste is mostly confined to the site.

Although many inorganic compounds were detected in an on-site soil and in two off-site soil locations, these elements are not present in the runoff from the site, therefore there is no reason to believe these are getting into the Patapsco River from Baltimore Steel Drum. These substances would be of greater concern had they been detected in drinking water in the concentrations that appeared in the soil.

Analysis of surface soil samples shows numerous toxic agents on site as well as adjacent to the site. There appears to be up to 18 inches of toxic sludge covering most of the property. Surface soil on Baltimore Steel Drum shows low level contamination from PCB's from 1.29 to 21.95 ppm. Off site, adjacent to the property showed PCB concentrations from 1.29 - 2.31 ppm and PCB contamination in a composite sample of the sludge from surface to 18" below surface was found to be 75.3 ppm. The toxic action of PCB's manifests itself by skin lesions and/or a toxic effect on the liver. Care should be taken not to carry these PCB's off site and not to directly contact the PCB's. PCB's are considered carcinogens.

Other organics found on the surface soil (Samples 5 through 9) are anthracene (11-42 ppm), fluoranthene (11-29 ppm), 1,1,1-trichloroethane (14-420 ppm), and ethyl benzene (up to 17 ppm). Some of these compounds were detected in surface runoff. Anthracene and flouranthene (polynuclear arometics) are suspect carcinogens. They are only in soil samples and are relatively insoluble

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in water. The levels detected on the property, in the soil may be high enough so that it is possible for these agents to get into the surface runoff in significant amounts.

Ethyl benzene and 1,1,1 trichloroethane although not detected in the surface runoff, may appear at times when the runoff is of less volume. 1,1,1 trichloroethane has a threshold limit value (TLV) of 350 ppm via inhalation route. Although no air readings were detected at the time of the site visit, it must be taken into consideration that minimal volatilization was occuring during this period of low temperatures and significant air contamination is expected during warm weather in the areas where this compound was found.

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EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION	SITE NUMBER (to be assigned by Hq)
III	(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 Tack Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET (or other identifier)		
Baltimore Steel Drum (formerly Buck's)	910 Kresson Street		
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
Baltimore	MD	21224	Baltimore

G. SITE OPERATOR INFORMATION

1. NAME		2. TELEPHONE NUMBER	
Kline Cooperage, Inc.		215-437-0781	
3. STREET	**4. CITY**	**5. STATE**	**6. ZIP CODE**
701 E. Highland Street	Allentown	PA	18103

H. REALTY OWNER INFORMATION (*if different from operator of site*)

1. NAME	2. TELEPHONE NUMBER	
Barton Kline	215-437-0781	
3. CITY	**4. STATE**	**5. ZIP CODE**
P.O. Box 2287, Lehigh Valley	PA	18001

SITE DESCRIPTION
Abandoned drum reclaiming operation.

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.*)	B. APPARENT SERIOUSNESS OF PROBLEM
June 1, 1982	☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (*mo., day, & yr.*)
Elizabeth Gross	609-665-1515	March 1, 1982

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME	2. TITLE	
Elizabeth Gross	Environmental Engineer	
ORGANIZATION		**4. TELEPHONE NO.** (*area code & no.*)
Ecology and Environment, Inc. - FIT Region III		609-665-1515

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Terrence Shannon	Ecology and Environment, Inc.	609-665-1515
Alton Stone	Ecology and Environment, Inc.	609-665-1515
Eugene Dennis	Ecology and Environment, Inc.	609-665-1515

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

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Mike Bromberg	Inspector 301-383-6650	201 W. Preston Street Baltimore, MD
Paul Thompson	Regional Chief 301-383-6650	201 W. Preston Street Baltimore, MD
Sandy Shapiro	Owner 301-327-7867	Cambridge Iron and Metal Co., Inc. * 2030 Aliceanna St., Baltimore, MD
John Schnepf	301-327-7867	Cambridge Iron and Metal Co., Inc. 2030 Aliceanna St., Baltimore, MD
		*Scrap yard location - adjacent to Buck Steel Drum

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III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Cheverolet (reportedly)		Baltimore, MD	rubber dough
unknown			

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Ryan's Moving and	-	4807 Valley Forge Road Randallstown, MD 21200	unknown - hauled for previous owners
Hauling			

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
none known		

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
2-19-82	1000-1600	☒ 1. PERMISSION ☐ 2. WARRANT

J. WEATHER (describe)
Rain and snow; 31°F

IV. SAMPLING INFORMATION

A. 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			
b. SURFACE WATER			
c. WASTE	X	NEIC for extractions; Western Labs - Inorganic; Meade Technology Lab - Organic	3-23-82
d. AIR			
e. RUNOFF	X	Meade Technology Laboratory - Organic Rocky Mountain Analytical - Inorganic	3-23-82
f. SPILL	X	NEIC for extractions; Western Regional Lab - Organic; Meade Technology Lab - Organic	3-23-82
g. SOIL	X	Meade Technology Laboratory - Organic; Rocky Mountain Analytical - Inorganic	3-23-82
h. VEGETATION			
i. OTHER (specify) pooled water on site	X	Meade Technology Laboratory - Organic Rocky Mountain Analytical - Inorganic	3-23-82

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

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
explosimeter	entire site	none noted
HNU	entire site	4-5 ppm background; 50 ppm at drum head (silver) pegged on 200 scale at drum head by incinerator 5-10 ppm - disturbed soil
OVA	entire site	16 ppm background; pegged on 1000 ppm scale- drum head: 1000 ppm-drum head (silver)

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS
   - [x] a. GROUND
   - [ ] b. AERIAL
2. PHOTOS IN CUSTODY OF: Ecology and Environment, Inc. - File No. F3-8201-24

D. SITE MAPPED?

- [x] YES. SPECIFY LOCATION OF MAPS: in report

E. COORDINATES

1. LATITUDE (deg.-min.-sec.): 39° 16' 54" N
2. LONGITUDE (deg.-min.-sec.): 76° 33' 37" W

V. SITE INFORMATION

A. SITE STATUS

- [ ] 1. ACTIVE (Those inductrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)
- [x] 2. INACTIVE (Those sites which no longer receive wastes.)
- [ ] 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?

- [x] 1. NO
- [ ] 2. YES (specify generator's four-digit SIC Code): _____

AREA OF SITE (in acres): 1.06 acres

D. ARE THERE BUILDINGS ON THE SITE?

- [ ] 1. NO
- [x] 2. YES (specify): 2 abandoned buildings and an incinerator

VI. CHARACTERIZATION OF SITE ACTIVITY

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

'X'	A. TRANSPORTER	'X'	B. STORER	'X'	C. TREATER	'X'	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT	X	2. INCINERATION		2. LANDFARM
	3. BARGE	X	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. MIDNIGHT 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. 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

- [x] 1. LIQUID
- [x] 2. SOLID
- [x] 3. SLUDGE
- [ ] 4. GAS

B. WASTE CHARACTERISTICS

- [x] 1. CORROSIVE
- [x] 2. IGNITABLE
- [ ] 3. RADIOACTIVE
- [x] 4. HIGHLY VOLATILE
- [x] 5. TOXIC
- [x] 6. REACTIVE
- [x] 7. INERT
- [ ] 8. FLAMMABLE
- [ ] 9. OTHER (specify):

C. WASTE CATEGORIES

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

No

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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 1450	AMOUNT	AMOUNT	AMOUNT approx. 200	AMOUNT	AMOUNT
UNIT OF MEASURE cubic yards	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE 55 gal. drums	UNIT OF MEASURE	UNIT OF MEASURE
'X' (1) PAINT, PIGMENTS	'X' (1) OILY WASTES	'X' (1) HALOGENATED SOLVENTS	'X' (1) ACIDS	'X' (1) FLYASH	'X' (1) LABORATORY, PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER *(specify)*:	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER *(specify)*:	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
X (5) OTHER *(specify)*: incinerator residue/ash			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER *(specify)*:
			(6) CYANIDE	(6) OTHER *(specify)*:	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			X (11) OTHER *(specify)*: unknown		

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

1. SUBSTANCE	2. FORM *(mark 'X')* a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY *(mark 'X')* a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. ~~AMOUNT~~ concentration	6. UNIT (ppm)
lead	X			X					110-1900	mg/kg
zinc	X			X					350-7800	mg/kg
chromium	X			X					4-140	mg/kg
PCB's	X			X					1-75	mg/kg
fluoranthene	X					X	suspected carcinogen		10-30	ug/ml
trichloroethylene	X				X				4.5	ug/ml
toluene	X				X				2-3	ug/ml
1,1,1 trichloroethane	X				X				1-420	ug/ml

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.

X **A. HUMAN HEALTH HAZARDS**

Organic vapor readings were not noted in ambient air. However, cold weather does not promote volitilization. Readings on the HNU and OVA were noted when soil was disturbed and at some drum heads. Odors have been noted during warmer weather. Possibility of organic vapors exist. Neighboring scrap yard parking lot is adjacent to site.

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VIII. HAZARD DESCRIPTION *(continued)*

☐ **B. NON-WORKER INJURY/EXPOSURE**

none reported

☒ **C. WORKER INJURY/EXPOSURE**

Report of one worker at the facility who slipped and put his foot in the drum washwater. He was severely burned and hospitalized. This occured when Buck's owned and operated the site.

☐ **D. CONTAMINATION OF WATER SUPPLY**

Baltimore water supply consists of reservoirs north and west of the city.

☐ **E. CONTAMINATION OF FOOD CHAIN**

Site location is highly industrial area. Possibility is remote to none.

☒ **F. CONTAMINATION OF GROUND WATER**

There is groundwater recharge by infiltration in the area. However, due to layers of clay in the area there may not be significant groundwater contamination.

☒ **G. CONTAMINATION OF SURFACE WATER**

A Complaint and Order was issued to Kline on December 28, 1981 with respect to surface runoff discharging into an unnamed storm sewer which enters the Patapsco River.

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VIII. HAZARD DESCRIPTION *(continued)*

☐ H. DAMAGE TO FLORA/FAUNA

There was an apparently dead tree on site. Some vines clung to the fence on the west side but no other vegetation was noted.

☐ I. FISH KILL

None reported/not applicable.

☐ J. CONTAMINATION OF AIR

No ambient air readings noted on site. However, during the operation of the incinerator there was at least one incident of discharge of a "flyash" material. This occured when Buck's owned and operated the site.

☒ K. NOTICEABLE ODORS

Odors have been noted on site particularly during warmer weather.

☒ L. CONTAMINATION OF SOIL

A hole was dug on site to determine the depth of sludge. Approximately eighteen inches (18") depth of partially frozen sludge was excavated by shovel without reaching the soil. HNU readings were noted when soil was disturbed.

☒ M. PROPERTY DAMAGE

A frame building on site had 3/4 of its south wall torn down. The fence surrounding the site was also down in two areas. Damage to the adjacent property could have occurred from surface runoff and sludge contamination.

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VIII. HAZARD DESCRIPTION (continued)

☐ **N. FIRE OR EXPLOSION**

No positive explosimeter readings were noted on site. Possibility of fire exists only from an outside source unless incompatable wastes are shown to exist on site.

☒ **O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID**

Several of the drums on site were leaking (Sample #20). Site runoff was noted being washed to the storm sewer (Sample #19). Standing liquid was noted in several places (Samples #10 and #11).

☒ **P. SEWER, STORM DRAIN PROBLEMS**

The runoff from the site was noted to enter an unnamed storm sewer about 60' south of the perimeter of Baltimore Steel Drum property. A Complaint and Order was filed in December 1981 with respect to this sewer.

☒ **Q. EROSION PROBLEMS**

There were runoff patterns from the site through the dirt parking lot indicating erosion problems.

☒ **R. INADEQUATE SECURITY**

The entrance to the property has no gate across it. In addition, the fence is broken down on the south side and cut in a section of the west side.

☒ **S. INCOMPATIBLE WASTES**

The possibility exists. However, without analysis of each drum this is unknown.

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VIII. HAZARD DESCRIPTION *(continued)*

☐ T. MIDNIGHT DUMPING

All wastes appear to have been brought on site during the time the business was in operation.

☐ U. OTHER *(specify)*:

Not Applicable.

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	Highlandtown Community			3,500' west
2. IN COMMERCIAL OR INDUSTRIAL AREAS	immediate area primarily industrial/commercial		26	¼ mi. radius
3. IN PUBLICLY TRAVELLED AREAS	Baltimore Harbor Thruway			1700' east
4. PUBLIC USE AREAS *(parks, schools, etc.)*	5 elementary schools, 2 libraries, 1 post office, 1 junior high school, Baltimore City Hospitals			1 mi. radius

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER *(specify unit)*	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
shallow	southwesterly	industrial
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY** *(specify unit of measure)*	**F. DIRECTION TO DRINKING WATER SUPPLY**
–	approximately 15 miles	north and northwest

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS ☒ 2. COMMUNITY *(specify town)*: > 15 CONNECTIONS City of Baltimore

☒ 3. SURFACE WATER ☐ 4. WELL ~~Liberty Reservoir, Prettyboy Reservoir,~~ Lockhaven Reservoir

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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')
		none - not applicable		

I. RECEIVING WATER

1. NAME: Patapsco River

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Commercial, Industrial
Patapsco River enters Chesapeake Bay - recreational, commercial

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN: None Applicable.

☐ 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.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND		crystalline bedrock		
	2. CLAY 1.6' - 100'		150' - 200' below		
	3. GRAVEL		overburden		

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.) to ☒ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS: some percolation may occur where there are no clay lenses

H. DISCHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS: to Patapsco River and Chesapeake Bay

I. SLOPE

1. ESTIMATE % OF SLOPE: 3%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: south - southwest

J. OTHER GEOLOGICAL DATA

Area is highly industrialized. The changes to the area from construction and railroads may influence the original geology of the area.

 Continue On Reverse

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
RCRA Notifier	EPA	MDD000730556	11/7/80	N/A		X	

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☒ YES (summarize in this space)

11/20/79 - Order to cease and desist all dumping and to remove all drums and spilled material from the Buck's 8234 Rosebank Ave. property. Order was complied with. (Herman and Harry Buck - Owners)

07/07/80 - Order to submit information, plans and specifications regarding waste management at 910 Kresson Street facility. (Bart Kline - Owner)

04/24/81 - Field investigation and sampling by the MD DHMH. (Paul Stancil)

12/28/81 - Complaint and Order issued stating violation of Natural Resources Articles 8-1413(a) and 43 Sections 388 and 397. Ordered to cease and desist discharges from property, clean-up and remove all waste drums, chemicals and debris, and to submit a report detailling actions and disposal sites. (Barton Kline - Owner) Order was to be met by 1/15/82. He has not complied.

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.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51

MAP LOG

Figure 1 USGS Flood Prone Map, Baltimore East, MD Quad

Figure 2 Baltimore and Baltimore Co. MD Street Map

Figure 3 Sketch Map of vicinity near Baltimore Steel Drum

Figure 4 Sketch Map of Baltimore Steel Drum - Buildings and Property

ORIGINAL
(Red)

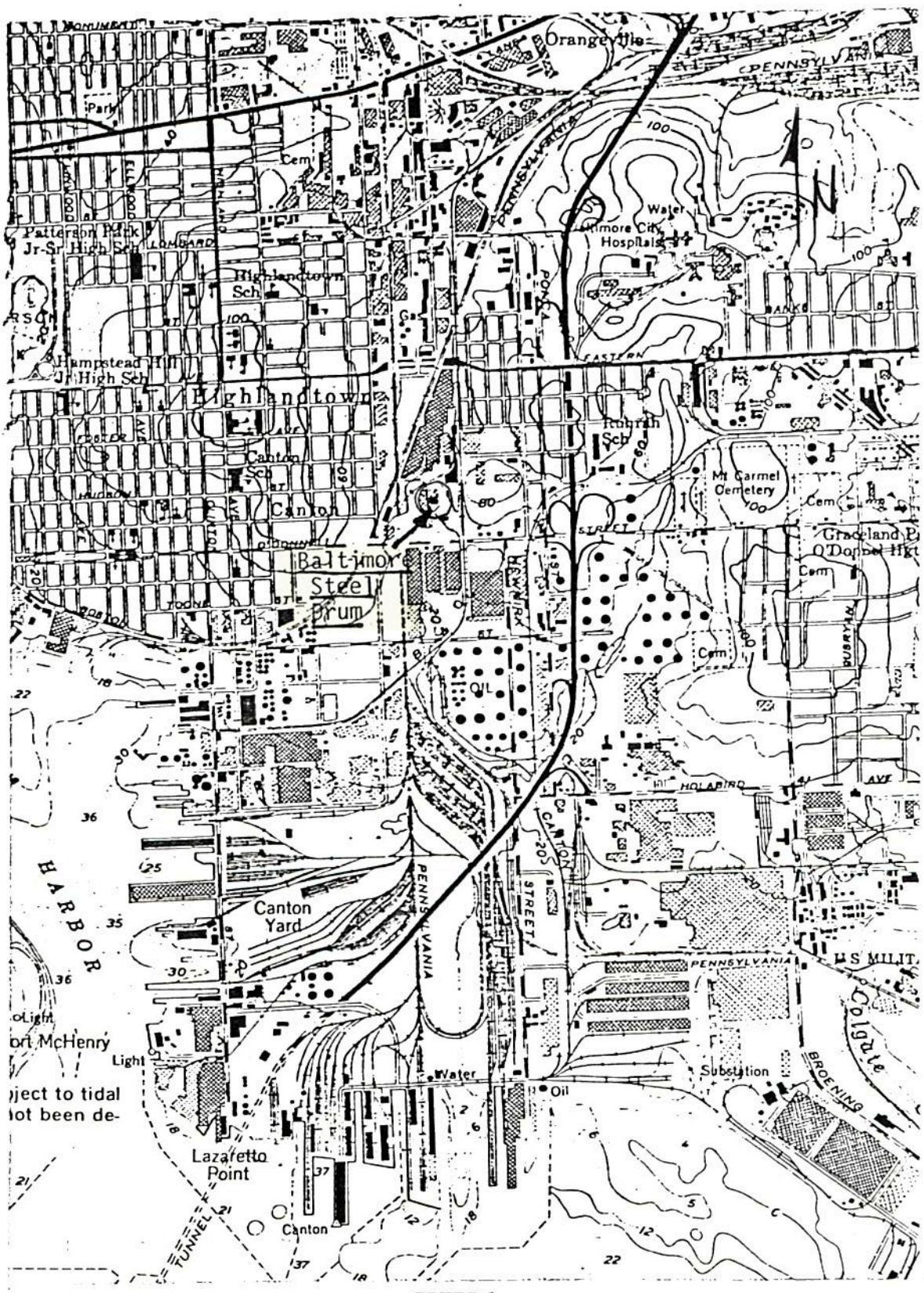


FIGURE 1
Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Baltimore East, MD Quad
USGS Flood Prone Map/7.5 Minute Series
©1953 (PR1966)

FIGURE 2
Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Baltimore and Baltimore Co., MD Street Map
Alexandria Drafting Co.
©1980

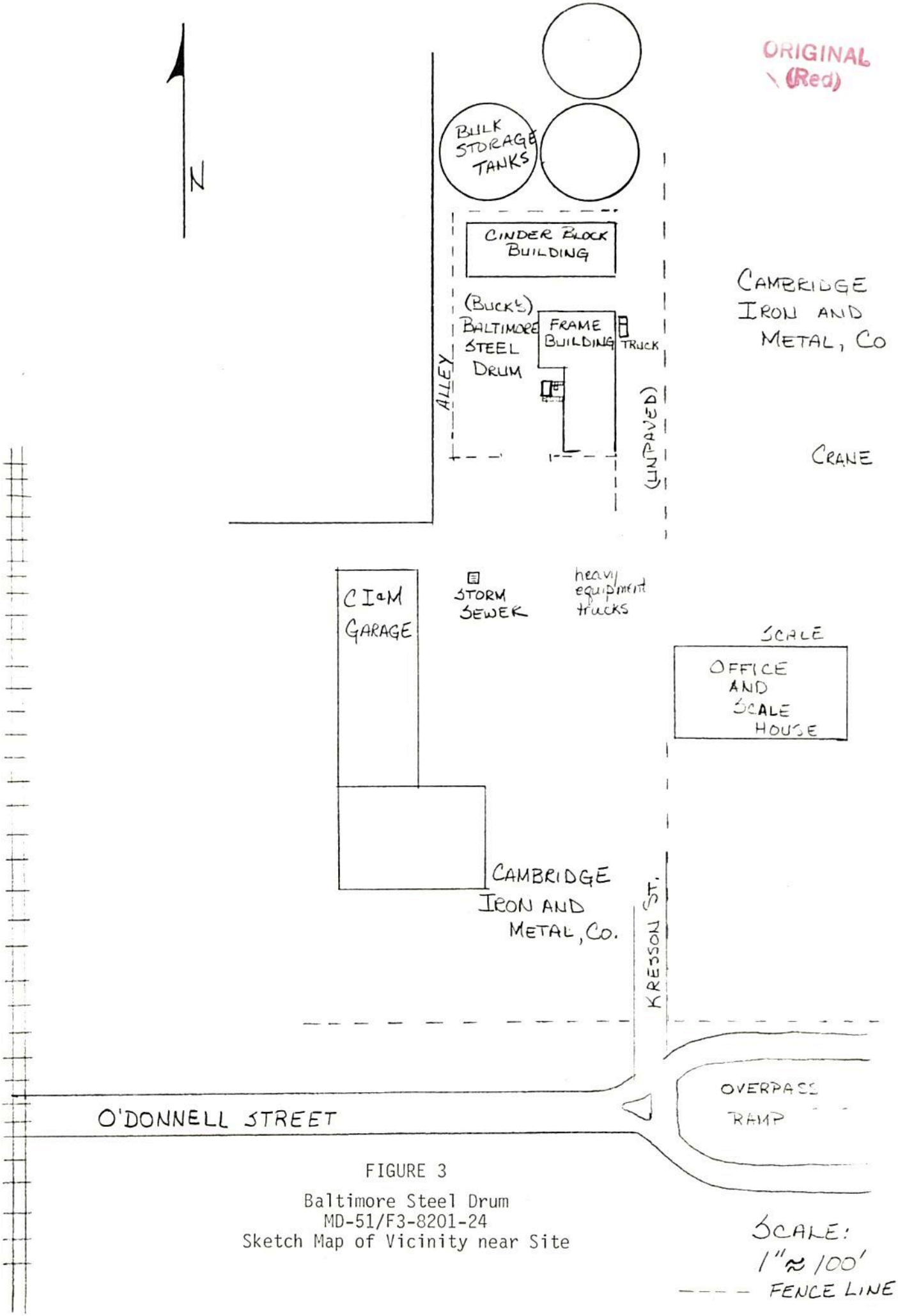


FIGURE 3

Baltimore Steel Drum
MD-51/F3-8201-24
Sketch Map of Vicinity near Site

ORIGINAL (Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51

ORGANIC COMPOUNDS IDENTIFIED IN SAMPLE RESULTS
HIGH HAZARD SAMPLES

Concentrations in: µg/10 ml
µg/10 ml
L - aqueous
S - solid

Compound Name / Sample Number	14 (S)	15 (S)	20 (S)								
ethylbenzene	270	520									
phenol		200									
2-fluorophenol		540	620								
naphthalene		200									
bis (2-ethylhexyl) phthalate		200									
D - Nitrobenzene		600	800								
toluene		18000									
g/0.2mls chlordane		21.29									

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51

INORGANIC COMPOUNDS IDENTIFIED IN SAMPLE RESULTS
HIGH HAZARD SAMPLES

Concentrations in: µg/ml (L)
µg/g (S)
L - aqueous
S - solid

Compound Name / Sample Number	14 (S)	15 (S)	20 (S)								
beryllium	<10	15	18								
aluminum	800	19000	300								
antimony	22	45	33								
arsenic	7	15	6								
barium	<100	900	<100								
cadmium	35	30	35								
chromium	35	250	30								
copper	110	520	110								
lead	90	660	1000								
nickel	120	210	110								
zinc	210	2400	180								
cobalt	280	310	240								
thallium	27	65	64								
mercury		33									

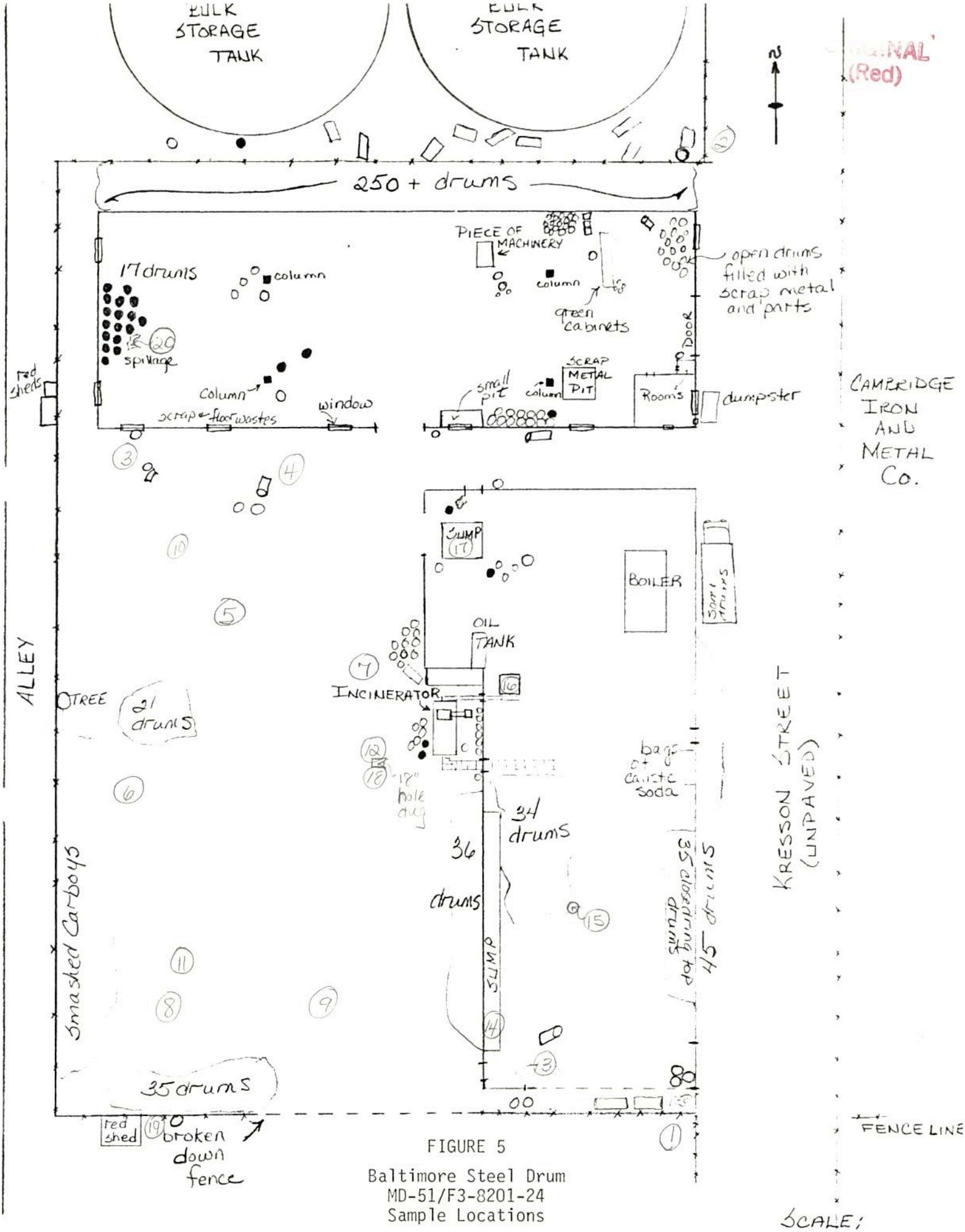


FIGURE 5

Baltimore Steel Drum
MD-51/F3-8201-24
Sample Locations

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Date: February 19, 1982

DRUM INVENTORY

Location Number	No. of Drums	Condition	Markings/Readings
A	17	closed - ring top and bung some spillage	blackened - no visible markings
B	4	3 rusted - open 1 silver - closed	silver drum - "Continental"
C	3	rusted	From Emery Ind., Inc., Lockhaven, PA, Rt. 274 - Gilbraltar Road, c/o 500 Pear Street
D	2	good - open top some 20 gallon cans	"streets - dependable chemicals for finer dry cleaning" "Drydene - motor oil"
E	28	assorted 5 gallon buckets	laquer, paint cans
F	1	crushed	
G	20	5 gallon tar buckets	
H	14	assorted sizes	filled with scrap parts
I	1	55 - gallon	"Drydene"
J	13	empty - rusted, open	
K	4	2 in fair condition 2 rusted	green - Stephan's Chemical Co. - Millsdale, IL, Stephan foam SX-195-T, 8787, L-9-87557

NAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Drum Inventory
Page Two

Location Number	No. of Drums	Condition	Markings/Readings
M	2	rusted	
N	5	poor - rusted	
O	1	old boiler tank	
P	1	in sump	
Q	35	closed - blackened spillage	no visible markings
R	34	tumbled, messy	Calgon - Cationic Polymer E-850; Pfizer - Sorbitol Solution 70% - Notice: store in warm place; American Foods - Instant Lecithinatal Stabilizer
S	3	20 - gallon	
T	5	in corner (SE)	
U	36		
V	35		
W	21		
X	14		
Y	6	one crushed	

...NAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Drum Inventory
Page Three

Location Number	No. of Drums	Condition	Markings/Readings
Z	unknown	trashed carboys	
AA	4	2 good 2 rusted	blue and white - Calgon Corp. - bung green
BB	45	some crushed	various colors
CC	250+	drums were piled behind the cinder block building - three deep and about 15 rows high (on their side)	estimated count - judged about 50% to contain wastes
DD	12	drums tumbled over the fence rusted	
estimated total	618		

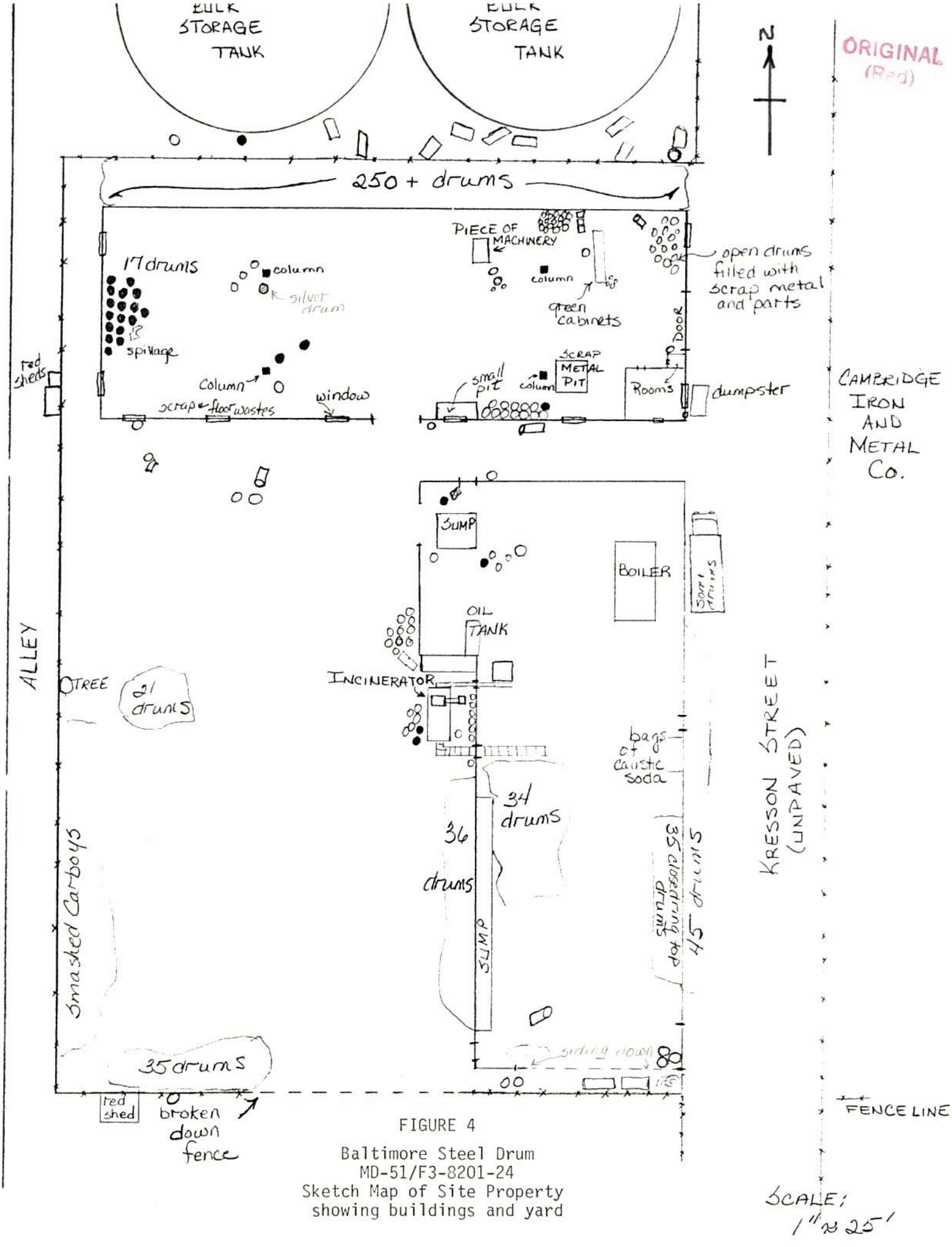


FIGURE 4

Baltimore Steel Drum
MD-51/F3-8201-24
Sketch Map of Site Property
showing buildings and yard

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51

SAMPLE LOG

All samples were collected on 19 February 1982.

Sample 1

Soil sample taken from Cambridge Iron and Metal Co. parking lot southeast and adjacent to the frame building. TIME: 1220

Organic TR No. - C01110 Tag No. 3-4682

Inorganic TR No. - MC08751 Tag No. 3-4683

Sample 2

Soil sample taken from Kresson Street northeast and adjacent to cinder block building. TIME: 1225

Organic TR No. - C01111 Tag No. 3-4684

Inorganic TR No. - MC8752 Tag No. 3-4685

Sample 3

Soil sample taken from northwest corner of the yard near the cinder block building. TIME 1230

Organic TR No. - C01112 Tag No. 3-4686

Inorganic TR No. - MC8753 Tag No. 3-4687

Sample 4

Soil sample taken from the yard near the cinder block building. TIME: 1235

Organic TR No. - C01113 Tag No. 3-4688

Inorganic TR No. - MC8754 Tag No. 3-4689

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Sample Log
Page Two

Sample 5

Soil sample taken from the center of the yard across from the frame building north entrance. TIME: 1240

Organic TR No. - C01114 Tag No. 3-4690

Inorganic TR No. - MC8755 Tag No. 3-4691

Sample 6

Soil sample taken near the tree and crushed carboys. TIME: 1245

Organic TR No. - C01115 Tag No. 3-4692

Inorganic TR No. - MC8756 Tag No. 3-4693

Sample 7

Soil sample taken by the drums near the incinerator. TIME: 1250

Organic TR No. - C01116 Tag No. 3-4694

Inorganic TR No. - MC8757 Tag No. 3-4695

Sample 8

Soil sample taken from the southwest corner of the yard. TIME: 1255

Organic TR No. - C01117 Tag No. 3-4696

Inorganic TR No. - MC8758 Tag No. 3-4697

Sample 9

Soil sample taken from the southeast area of the yard near the drum storage area. TIME:1300

Organic TR No. - C01118 Tag No. 3-4698

Inorganic TR No. - MC8759 Tag No. 3-4699

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Sample Log
Page Three

Sample 10

Pooled water on the surface of the yard located in the northwest corner near the cinder block bulding. TIME: 1315

Organic TR No. - C01119 Tag No. 3-4700

Inorganic TR No. - MC8760 Tag No. 3-4701

Sample 11

Pooled water on the surface of the southwest corner of the yard near soil Sample 8. TIME: 1320

Organic TR No. - C01120 Tag No. 3-4702

Inorganic TR No. - MC8761 Tag No. 3-4703

Sample 12

Soil sample taken from the bottom of an eighteen inch hole dug off the southwest corner of the incinerator. TIME: 1330

Organic TR No. - C01121 Tag No. 3-4704

Inorganic TR No. - MC8762 Tag No. 3-4705

Sample 13

Sample of pooled liquid and sludge inside the frame building at the south end. TIME: 1330

Organic TR NMo. - C01122 Tag No. 3-4706

Inorganic TR No. - MC8763 Tag No. 3-4707

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Sample Log
Page Four

Sample 14

Sludge sample obtained from the south end of a sump which runs along the west wall of the frame building. TIME: 1335

NEIC TR No. - C5040 Tag No. 3-4709

Sample 15

Solid sample obtained from open top drum located in frame building. See location on map. TIME: 1340

NEIC TR No. - C5041 Tag No. 3=4711

Sample 16

Liquid sample obtained from old drum washing pit in the center of the frame building. TIME: 1345

Organic TR No. - C01123 Tag No. 3-4712

Inorganic TR No. - MC8764 Tag No. 3-4713

Sample 17

Liquid sample taken from a sump in the north end of the frame building. TIME: 1348

Organic TR No. - C01124 Tag No. 3-4714

Inorganic TR No. - MC8765 Tag No. 3-4715

Sample 18

Solid sample taken from the hole dug in Sample 12. The sample was a composite taken from the side of hole. TIME: 1400

Organic TR No. - C01125 Tag No. 3-4716

Inorganic TR No. - MC8766 Tag No. 3-4717

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Sample Log
Page Five

Sample 19

Liquid sample of runoff from the southwest corner of the property.
TIME: 1430

Organic TR No. - C01126 Tag No. 3-4718
Inorganic TR No. - MC8767 Tag No. 3-4719

Sample 20

Sludge sample taken from spilled contents near drums along the west wall of the cinder block building. TIME: 1445

NEIC TR No. - C5042 Tag No. 3-4721

Blank

Organic TR No. - C01127 Tag No. 3-4722
Inorganic TR No. - MC8768 Tag No. 3-4723

The following sample numbers were considered medium concentration: 1 through 13, and 16 through 19 inclusive and the blank.

Sample numbers 14, 15 and 20 were sent as high concentration samples to NEIC for extraction.

Laboratories

medium concentration samples:

organic analysis -
Meade Technology Laboratory
inorganic analysis -
Rocky Mountain Analytical

high concentration extractions:

organic analysis -
Meade Technology Laboratory
inorganic analysis -
Western Regional Laboratory

Case No.: 883/SAS 124-C
Bottle Lot No.: 090281-1

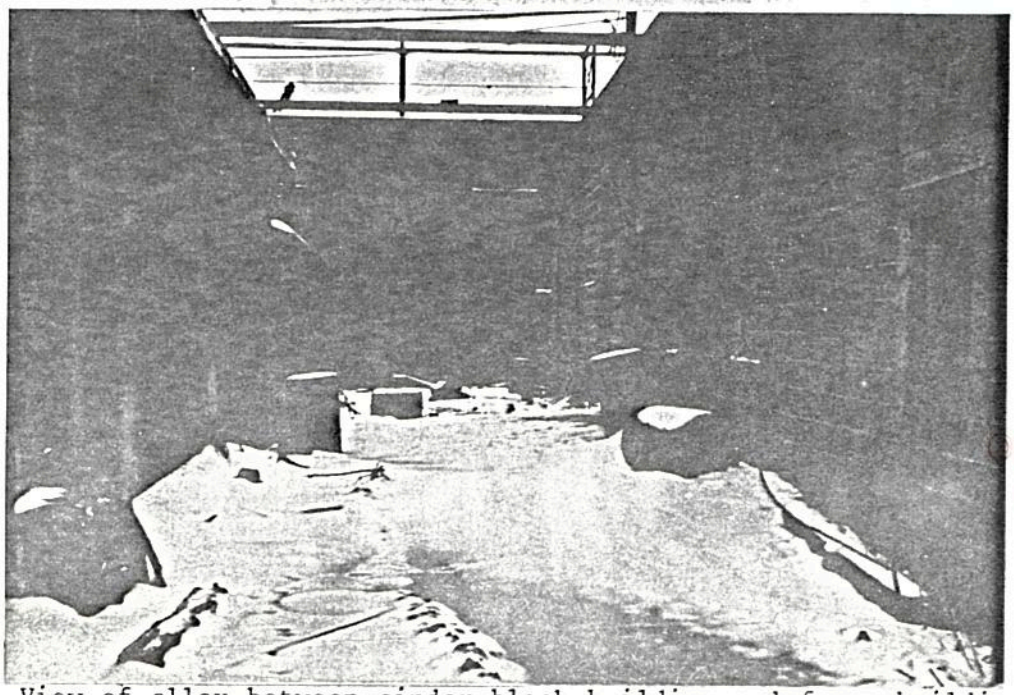
ORIGINAL (Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51

INORGANIC COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: mg/l (L)
mg/kg (S)
(L) - aqueous
(S) - solid

Compound Name \ Sample Number	1 (S)	2 (S)	3 (S)	4 (S)	5 (S)	6 (S)	7 (S)	8 (S)	9 (S)	10 (L)	11 (L)	12 (S)	13 (S)	16 (L)	17 (L)	18 (S)	19 (L)
Ag		2.5															
Al	1000	3300	700	950	1800	1400	1100	900	1000			300	300			600	
B	14	26	16	16			13	12	17	0.13	.28	10	10	.59	.20	19	.23
Ba	65	180	400	530	370	290	290	170	200		.30	80				80	
Cr	16	32	140	78	59	47	87	41	57	0.20		5.0	3.9		.02	27	
Co	8.0	7.0	7.1	25	14	19	39	15	20			10				7.8	
Cu	150	760	150	110	200	350	1900	150	190			18	25		.09	42	
Fe	1500	11000	1100	3600	5800	14000	10000	6400	7800			2700	770	.23	.11	3800	
Mn	220	500	130	160	150	190	170	130	130			90	30		.03	120	
Ni	11	52	11	49	22	21	43	25	18			18				13	
V	41			46		35		38	43								
Zn	1500	2900	7800	3200	1700	1500	4700	1600	2200			2100	350	.035	.24	1500	.05
As	5.6	1.6	1.0	1.2	1.1	2.8	4.5		1.8			5.2					
Cd	7.9	11	3.0	7.9	6.0	6.9	8.5	4.9	6.8			3.0	.81	.002	.006	2.8	.004



ORIGINAL
(Red)

Photograph 21 - View of alley between cinder block building and frame building looking west from Kresson Street.

Photograph 22 - Sample location 1 - off site southeast corner of property. Eugene Dennis collected sample.

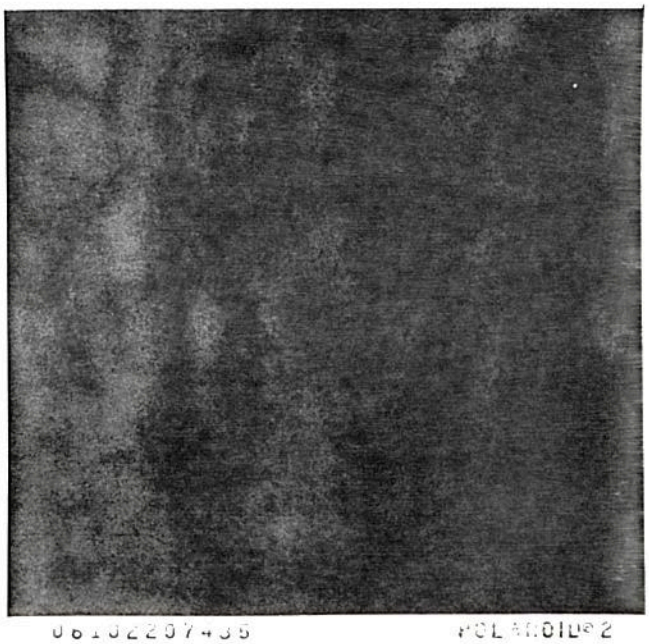
ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Eighteen

Terrence A. Shannon 2/19/82

(21) F3-8201-24
MD-51

View of alley between
frame and under block bldgs

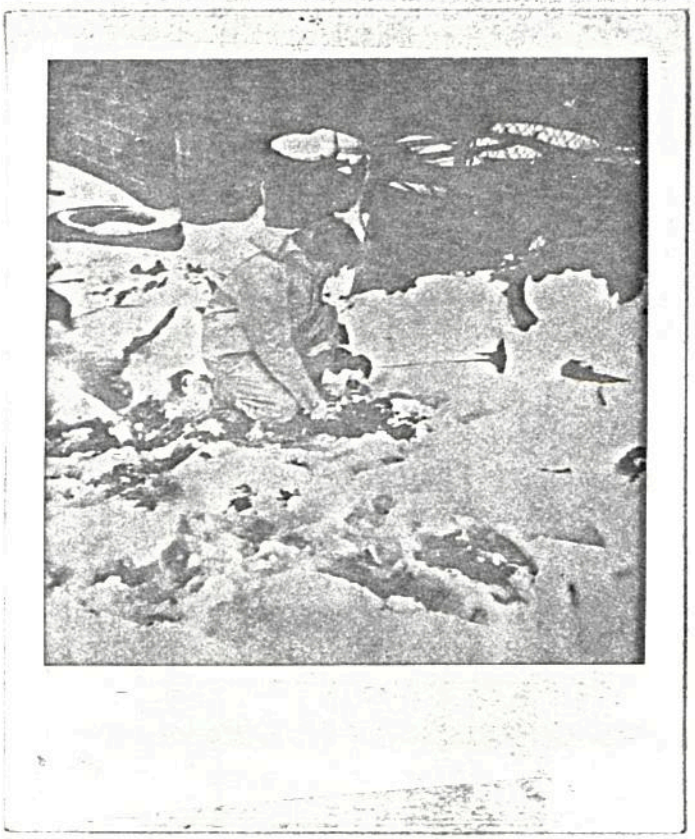


06102207435 POLAROID 2

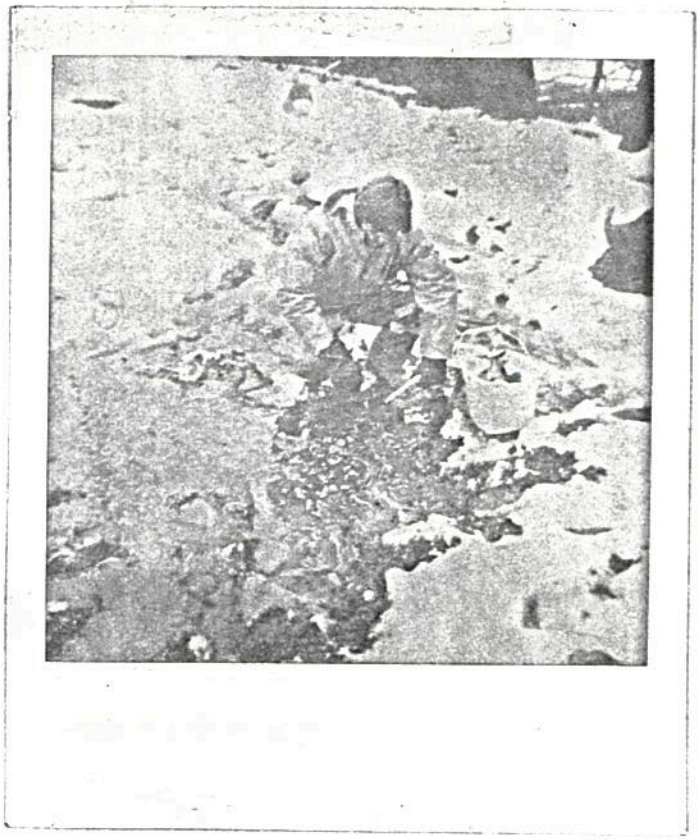
#1 Sample 1
Location
MD-51 22

Terrence A. Shannon
2/19/82
F3 8201 24

ORIGINAL
(Red)



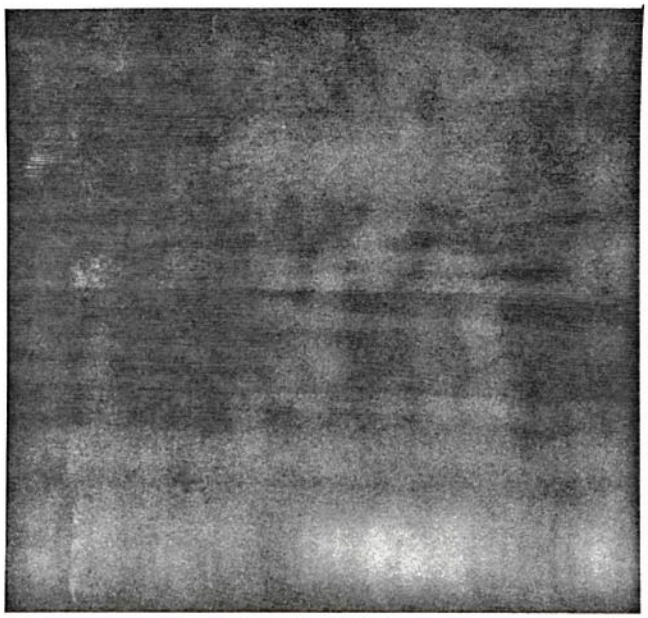
Photograph 23 - Sample location 2 - off site northeast corner of property. Eugene Dennis collecting sample.



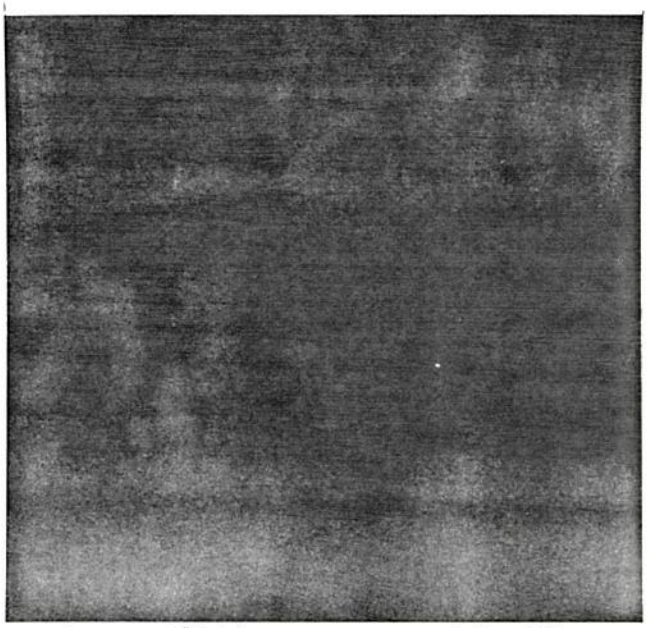
Photograph 24 - Sample location 3 - northwest corner of yard. Eugene Dennis collecting sample.

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twenty

ORIGINAL
(Red)



#2 Sample Lin a Thom
23 location 2/19/82
2 MD-51 F3-8201-24



#3 Sample Lin a Thom
24 location 2/19/82
MD-51 3 F3-8201-24

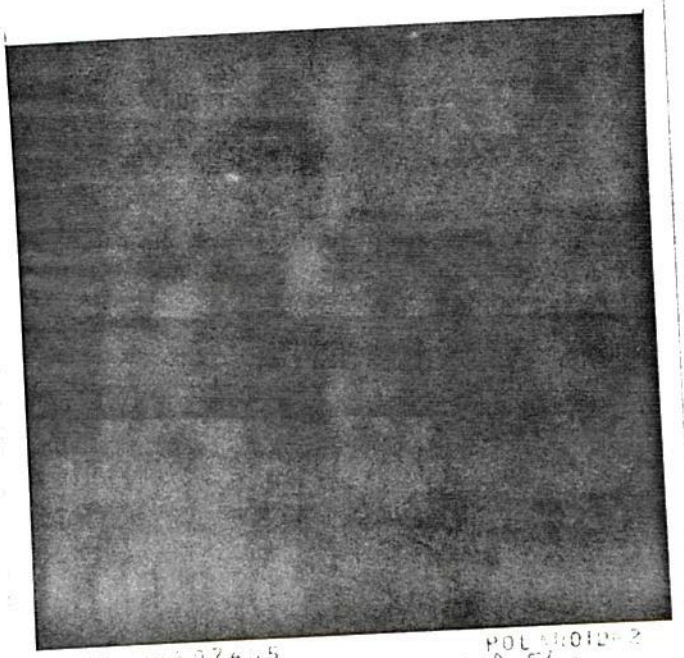
ORIGINAL
(Red)

Photograph 25 - Sample location 4 - north end of yard east of location 3. Eugene Dennis collecting sample.

Photograph 26 - Sample location 5 - center of the yard. Eugene Dennis collecting sample.

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twenty-Two

ORIGINAL
(Red)

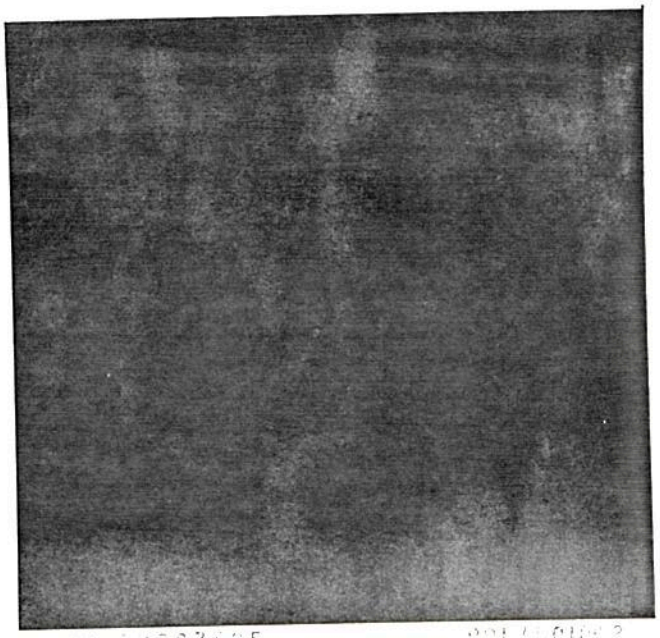


08-02207405

POL MD-51

Sample #4
location 4 25

MD-51
2/19/82
F3-8201-24



08-02207405

POL MD-51

Sample #5 26
location #5

MD-51
2/19/82
F3-8201-24

ORIGINAL
(Red)

Photograph 27 - Sample location 6 - west side of site near smashed carboys. Eugene Dennis collecting sample.

Photograph 28 - Sample location 7 - east side of yard near incinerator. Eugene Dennis collecting sample.

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
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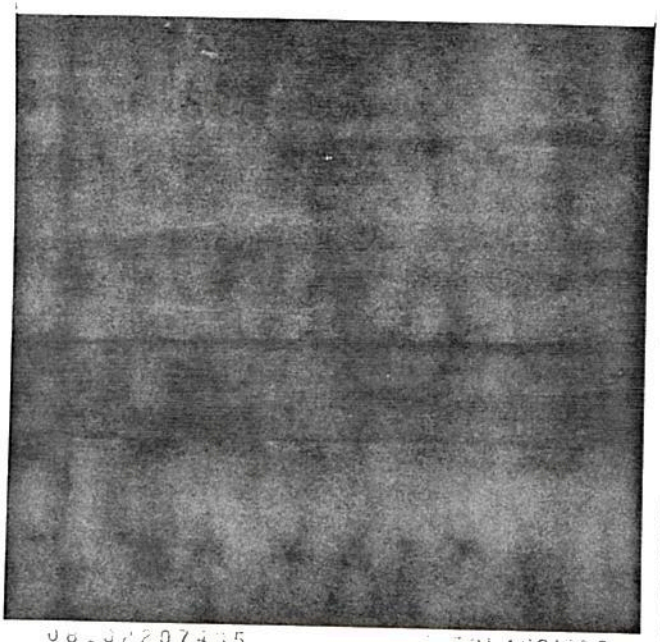
ORIGINAL
(Red)



Sample location #6 27 MD-51
Tim A. Shaw 2/19/82 F3-8201-24

Sample location #7 28 MD-51 7
Tim A. Shaw 2/19/82 F3-8201-24

ORIGINAL
(Red)

Photograph 29 - Sample location 8 - southwest part of the yard. Eugene Dennis collecting sample.

Photograph 30 - Sample location 9 - southeast part of the yard. Eugene Dennis collecting sample.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
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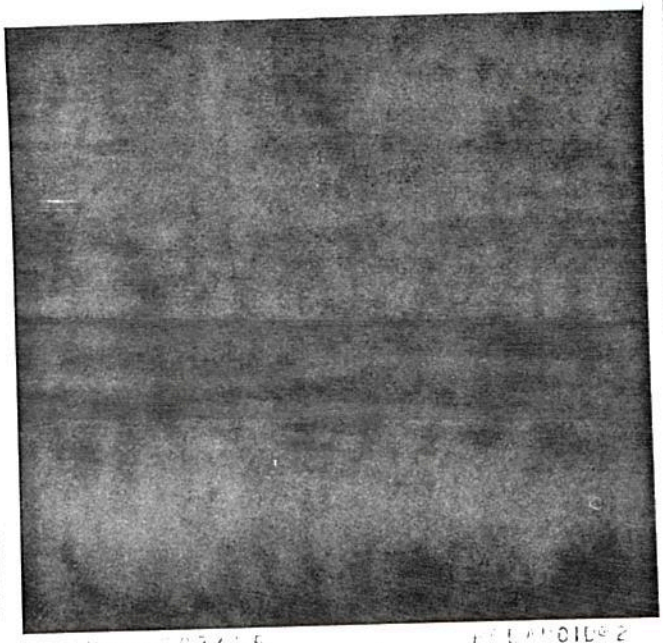
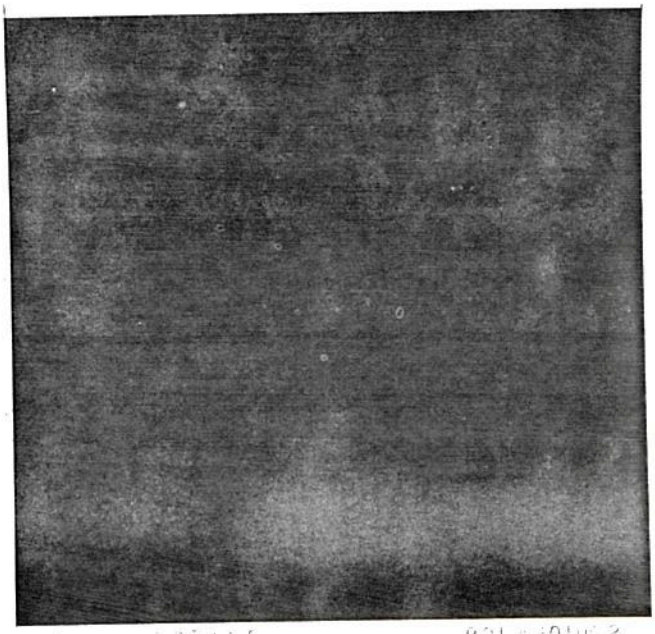


08102207435 [illegible]

#8 Sample MD-51 Lm A Mann 2/19/82
location 8 29 F3-8201-24



08102207435 [illegible]

#9 Sample MD-51 Lm A Mann 2/19/82
location 9 30 F3-8201-24

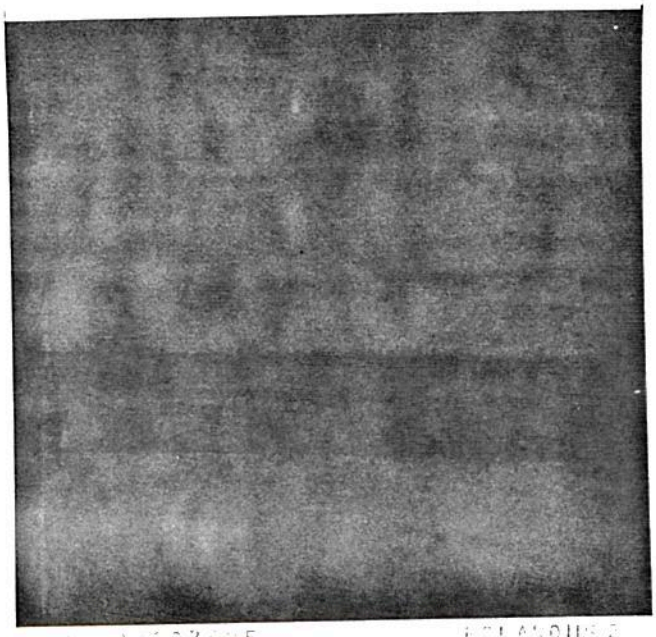
ORIGINAL
(Red)

Photograph 31 - Sample location 10 - surface water pooled in northwest corner Eugene Dennis collecting sample.

Photograph 32 - Sample location 11 - surface water pooled in southwest area. Eugene Dennis sampling.

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twenty-Eight

ORIGINAL
(Red)

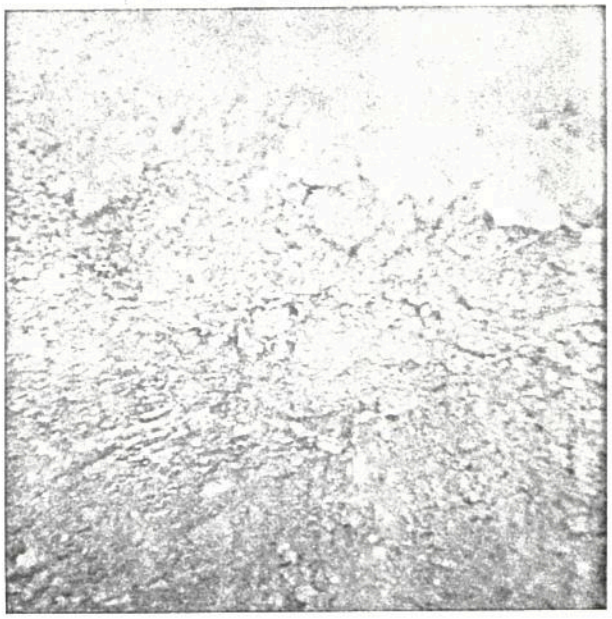


Water Sample Lee A. Nam 2/19/82
31 #1 location 10 F3-8201-24
MD-51

#11 32 Lee A. Nam 2/19/82
Sample location
MD-51 11 F3-8201-24

ORIGINAL
(Red)

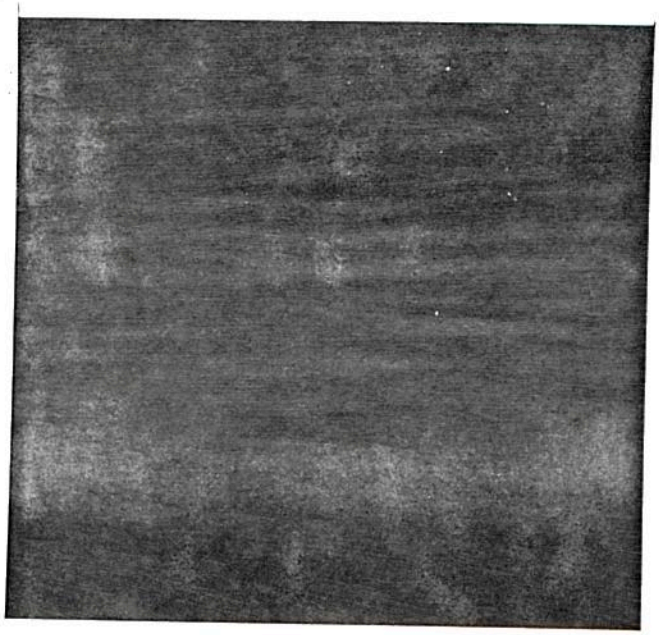
Photograph 33 - Sample location 12 - sample of yard material 18" below surface.



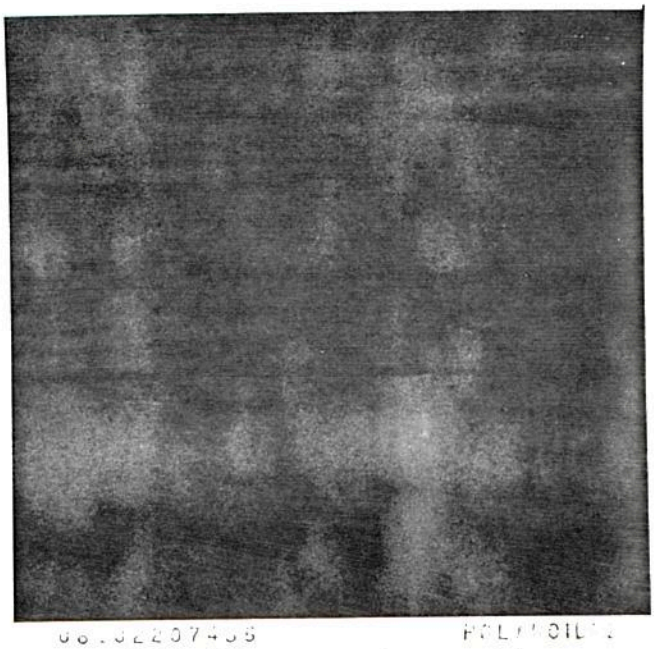
Photograph 34 - Sample location 12 and 18 - hole dug in yard 18" down near incinerator. A. Stone collecting sample.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Thirty

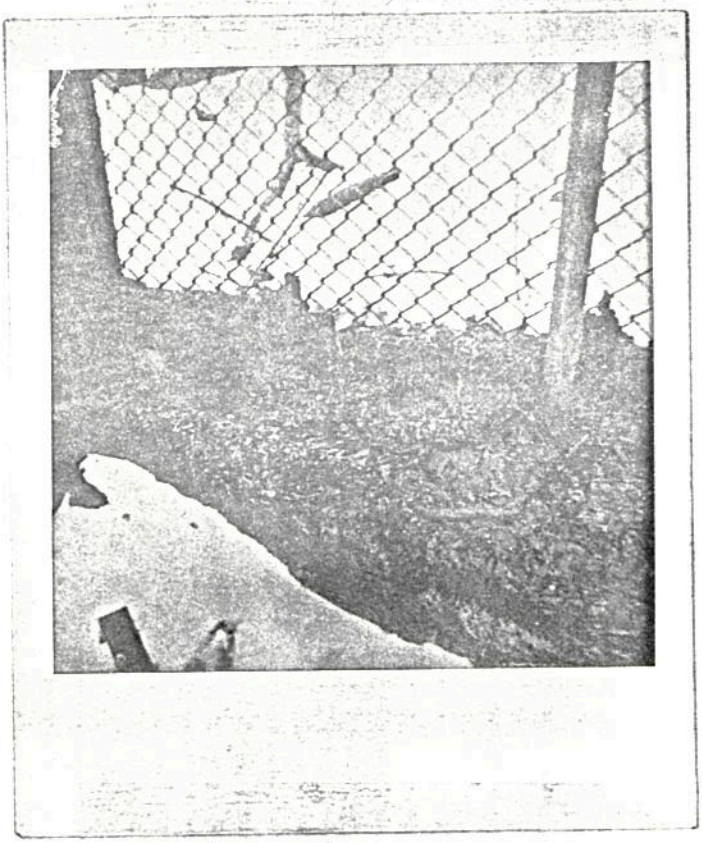


#13 Sample location [illegible] 2/19/82
12+18 33 F3-8201-24
MD-51



F3-8201-24 [illegible] 2/19/82
#12
bottom of hole Stone chugg 34
MD-51

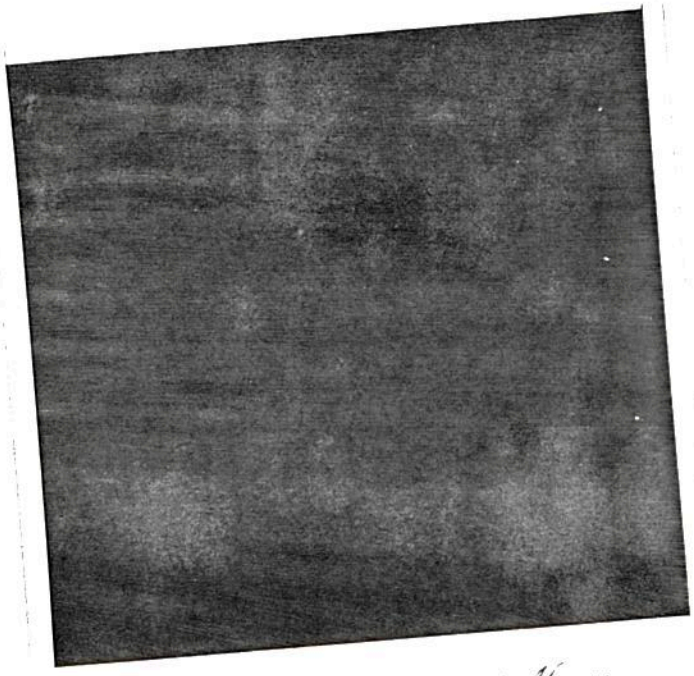
ORIGINAL
(Red)



Photograph 35 - Sample location 19 - runoff from southwest corner of site. Black material is fill of the yard which is greater than 18" deep.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Thirty-Two



14 35 [illegible]
Sample location 2/19/82
19. MD-51 F3-8201-24

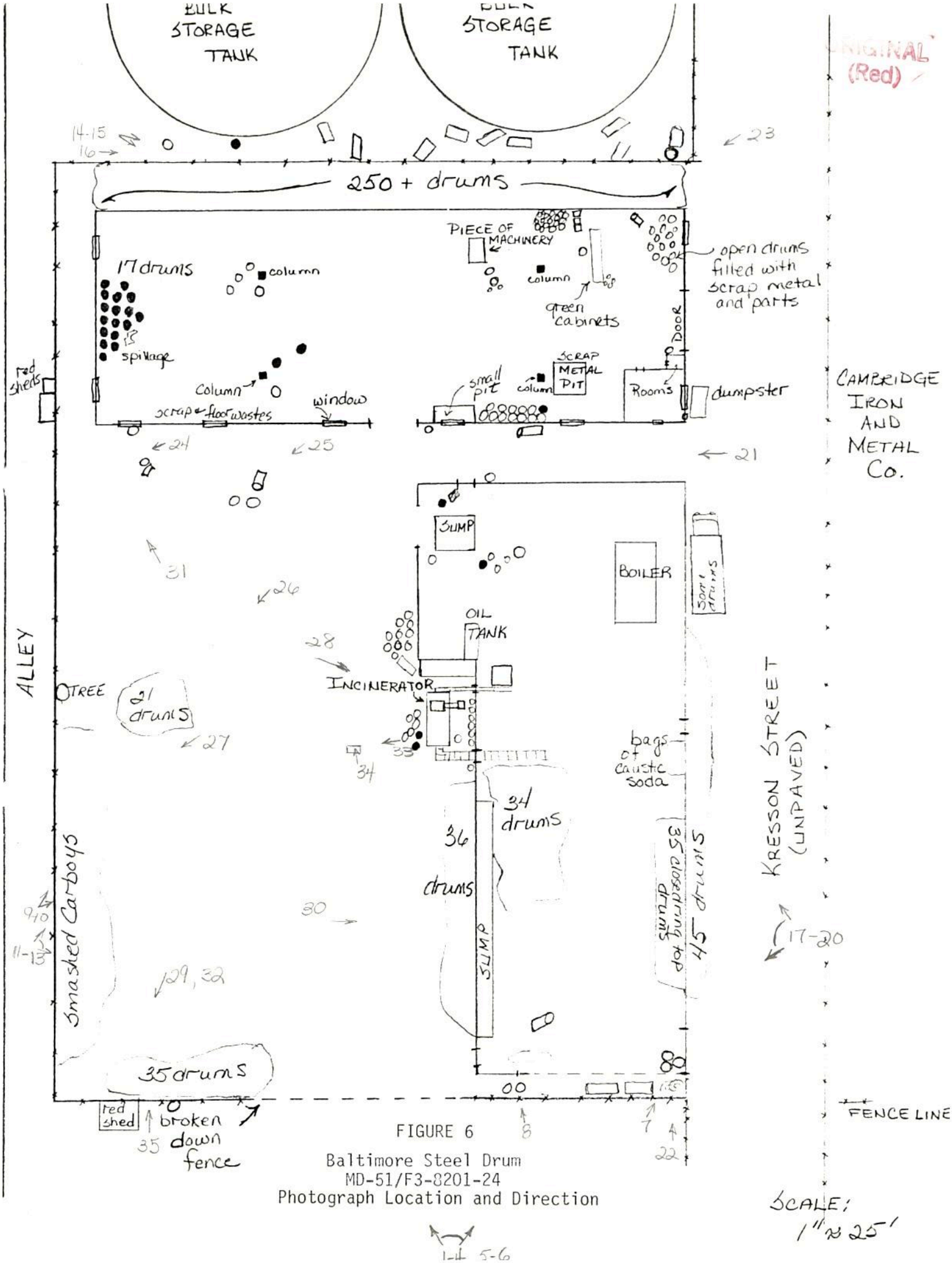


FIGURE 6

Baltimore Steel Drum
MD-51/F3-8201-24
Photograph Location and Direction

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Sixteen

Irma A Thomas
F3-8201-24

19 MD-51

View of east side of site and truck

(C)

ORIGINAL (Red)

Irma A Thomas
F3 8201-24

View of east side of site MD-51

(D)

19

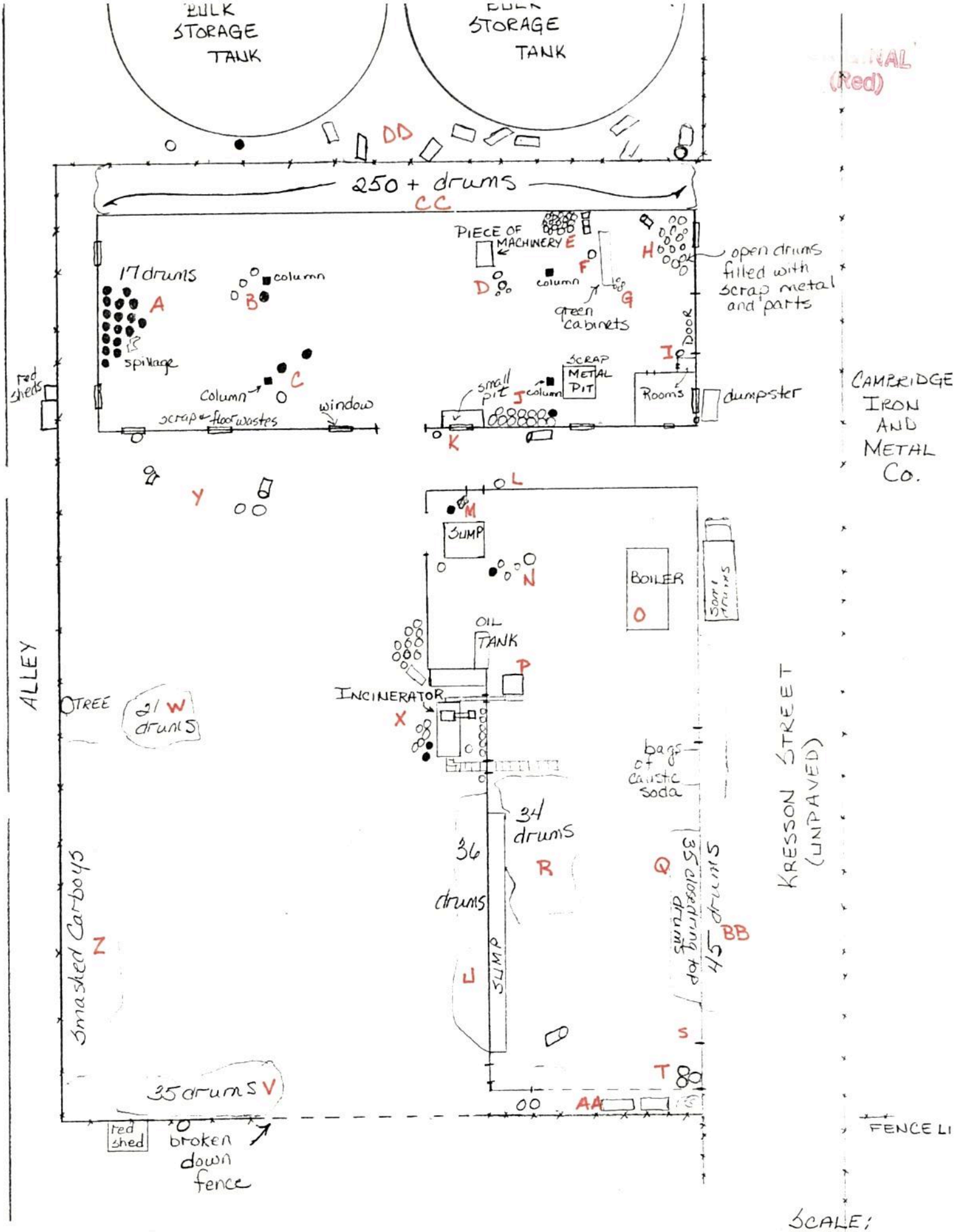
Irma A. Thomas

ORGANIC COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

(L)- aqueous
(S)- solid

BDL - Below Detection Limit

Compound Name \ Sample Number	1 (S)	2 (S)	3 (S)	4 (S)	5 (S)	6 (S)	7 (S)	8 (S)	9 (S)	10 (L)	11 (L)	12 (S)	13 (S)	16 (L)	17 (L)	18 (S)	19 (L)
PCB - 1248	29.7																
PCB all isomers		2.31	1.29	2.19													
bis (2-ethylhexyl) phthalate					32	35	68	21	99								
PCB - 1260					3.10	21.95	19.2	2.32	8.66							75.3	
anthracene/phenanthrene					BDL	29	42	11	20								
fluoranthene						19	29		11								
pyrene						16	24		BDL								
benzo (a) anthracene/ chrysene						BDL	BDL										
1,1,1 - trichloroethane						14	14	420	20		1.5						BDL
chloromethane						1.0											
acenaphthene							11										
butyl benzl phthalate							16										
3,4 - benzofluoranthane/ benzo (k) fluoranthene							BDL										
ethyl benzene							1.0	1.5	17								
toluene							2.5	3.4	3.4							3.6	
diethyl phthalate													600				
phenol																13	
1,2-trans-dichloroethene																15	
trichloroethylene																4.5	
vinyl chloride																1.5	



BULK STORAGE TANK
BULK STORAGE TANK
DD
250 + drums
CC
PIECE OF MACHINERY
E
F
H
open drums filled with scrap metal and parts
17 drums
A
column
B
D
column
G
green cabinets
DOOR
I
spillage
red sheds
C
Column
window
scrap & floor wastes
small pit
J
column
SCRAP METAL PIT
Rooms
dumpster
K
CAMBRIDGE IRON AND METAL Co.
Y
L
M
SUMP
N
BOILER
O
OIL TANK
P
INCINERATOR
X
ALLEY
TREE
21 W drums
bags of caustic soda
34 drums
36 drums
R
Q
35 closed ring top drums
45 drums
BB
KRESSON STREET (UNPAVED)
Smashed Carboys
Z
U
SUMP
S
T
35 drums V
AA
red shed
broken down fence
FENCE LI
SCALE: 1" ≈ 25'

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51

Photographs 1-4 - View of site standing south looking north. The incinerator is the center of the pictures. Cambridge Iron and Metal Co. is to the right.

ORIGINAL (Red)

(4)

Beth Gross (3)

F3-8201-24
MD-51

Beth Gross

View of Buck's Steel Drum Co.
standing south looking north

MD-51
F3-8201-24

(2)

Beth Gross

F3-8201-24
MD-51

2/19/82

ORIGINAL (Red)

ORIGINAL
(Red)

Photographs 5-6 - View of the
south side of the site.

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Four

(5)

View of Buckls Steel
Drum
looking north

MD-51
F3-8201-24
Beth Gross 2/19/82

(6)

incinerator in
center of picture

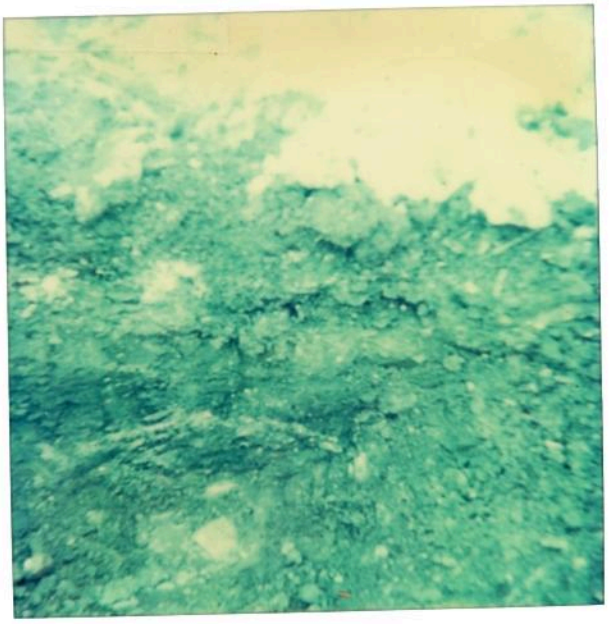
F3-8201-24
MD-51
Beth Gross

ORIGINAL
(Red)

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Five

Photographs 11-13 - Panorama of site from alley bordering the west side. Crushed carboys can be seen in lower left corner. Incinerator is in the center of the picture.



ORIGINAL
(Red)

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Six

(7) F3-8201-24
MD-51

Close up of southeast corner of frame bldg.

Beth Gross 2/19/82

(8)

Close up of drums at south end of frame bldg.

2/19/82
MD-51
Beth Gross F3-8201-24

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Eight

Lisa A Abam

(10)
2/19/82
MD-51

F3-8201-24
MD-51

Lisa A Abam
9
2/19/82

View of Baltimore Steel
Drum from southwest
side of site.

F3-8201-24

f site from
l

Lee A. Shaw
(12)
2/19/82
F3 8201-24
MD-51
incinerator

Lee A. Shaw
(13)
2/19/82
F3-8201-24
MD-51
Crushed carboys in lower
left corner

ORIGINAL
(Red)

Photographs 9-10 - View of Baltimore-Steel Drum from southwest side of site.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Fourteen

[illegible]
(16)

F3-8201-24
2/19/82
MD-51

View of north side of site.
Large off-site bulk storage tanks
on left of pictures

Lm a Mom F3-8201-24
(14) 2/19/82 MD-51

F3-8201-24
MD-51

Lm a Mom (15)
2/19/82

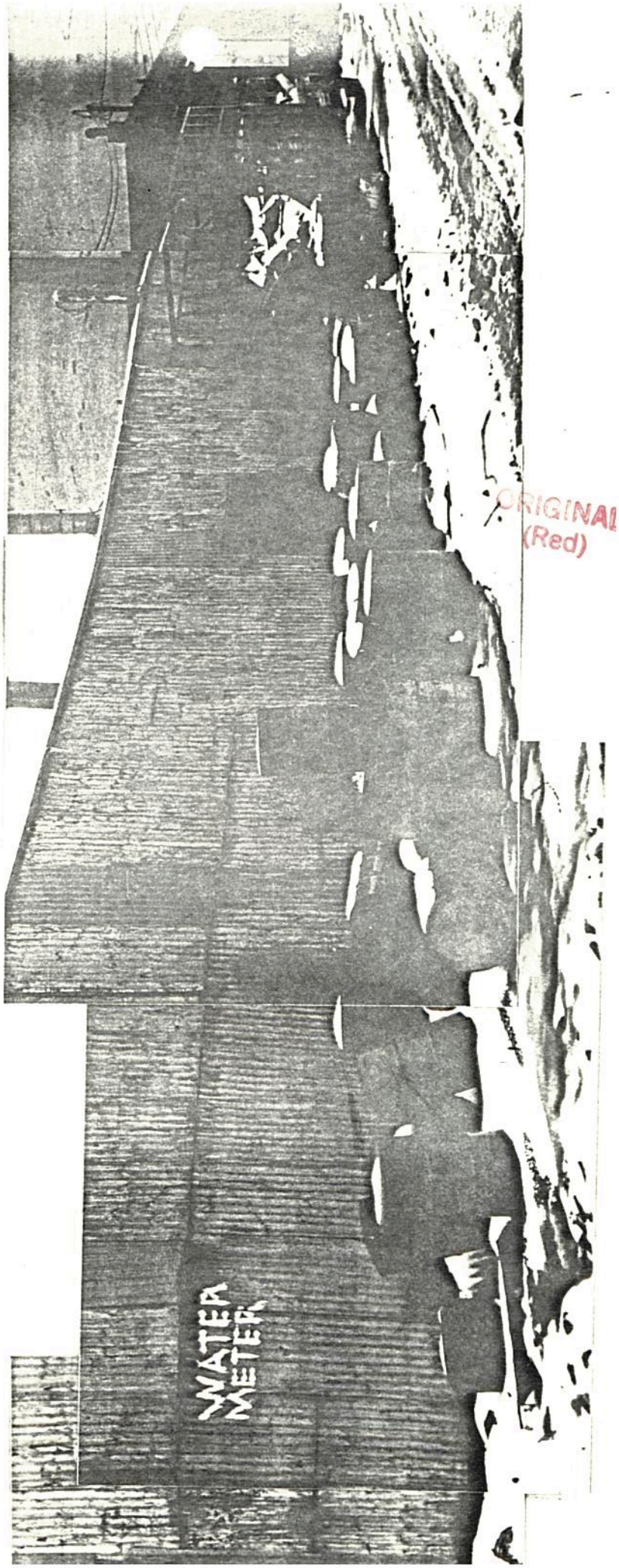
Drums stacked between cinder block building and northern fence.

ORIGINAL
(Red)

ORIGINAL
(Red)

Photograph 16 - North side of Baltimore Steel Drum. Large off-site bulk tank is in left of picture. Twelve drums are on the property with the tanks.

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Fifteen



ORIGINAL
(Red)

Photographs 17-20 - View of east side of Baltimore Steel Drum from Kresson Street. Drums are along the frame building. Truck has "Bucks Steel Drum" lettered on side.

ORIGINAL
(Red)

Photographs 14-15 - View of drums across the north side of the site. Estimated drum count from pictures is over 250 drums.

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Buckes Steel Drum MD51

Sample Number C01110

A SHEET - Page 1

Sample 1 - off site NE

RECEIVED APR 24 1982 ecology and environment, inc. Philadelphia

F3-8201-2 ORIGINAL (Red)

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12968

QC Report No. 44-38, 43-35, 45-35

Signature of Person Authorized to Release Data: [illegible]

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01110

ORIGINAL (Red)

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12968

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	29.7 P.N
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12968

SAMPLE NUMBER
C#883-C01110

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.25	10	102
d-$_8$-Toluene	VOA	10.53	10	105
Fluorophenol	A	27.99	50	56
d-$_6$-Phenol	A	21.42	50	43
Pentafluorophenol	A	9.97	50	20
d-$_5$-Nitrobenzene	BN	47.13	50	94
Fluorobiphenyl	BN	46.43	50	93
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

LIST OF COMMONLY USED FOOTNOTES FOR COMMERCIAL AND EPA

II Indistingushable isomers.

I Presence indicated by extracted ion current profile; definitive spectra not obtainable due to interference.

Q Quantiatated from secondary ion.

CI Concentration estimated; interferences present with primary quantitation ions.

D Sample analysis using a _____ dilution.

SE Sample extract could not be concentrated to 1.0 ml, thus the detection limits are higher than normal.

DL Detection limits are adjusted to show change in sample quantity processed. The surrogate recoveries are not available.

SR Surrogate recoveries are not available because it was necessary to dilute the extract, based on GC screening results.

SC Suspected laboratory contaminant.

LT Less than the specified detection limit but greater than one half of the detection limit (present but BDL).

EV Estimated value (previously j) in house note: This footnote may not be used for PP compounds.

H Volatile vial received with headspace.

SV Amount corrected for sample volume.

TN Acid & BN recoveries adjusted 10/9 for volume change. (medium level 026 only)

DC Compound calculated from a _____ dilution.

CR Compound calculated using total RIC area. All secondary ions saturated.

PC Pesticide or PCB confirmed by GC/MS.

PN Pesticide or PCB cannot be confirmed by GC/MS.

1-04-82

ORGANICS ANALYSIS DATA SHEET - Page 4

ORIGINAL (Red)

Lab Name: Mead CompuChem Case No. 883

Lab Sample I.D. No. 12968

QC Report No: 44-38, 43-35, 45-35

Sample Number
C01110

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRAC-TION	% Pur.	Est. Conc.
1		None Found	BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20			ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

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P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Sample Number C01111

ORIGINAL (Red)

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SIS DATA SHEET - Page 1

Sample 2 - off site SE

F3-8201-24

24 1982

ecology and environment, inc. Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12969

QC Report No. 44-38, 43-35, 45-35

Signature of Person Authorized to Release Data: R. D. Miller

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10 LT
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number: CO1111

Laboratory Name: Mead CompuChem

Lab Sample ID NO. 12969

Case Number: 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	
11097-69-7	PCB-1254	
11104-28-2	PCB-1221	
11141-16-5	PCB-1232	
12672-24-6	PCB-1248	
11096-82-5	PCB-1260	
12674-11-2	PCB-1016	
8001-35-2	toxaphene	0.4U

PN 2.31

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12969

SAMPLE NUMBER

C#883-C01111

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.64	10	106
d-$_8$-Toluene	VOA	10.86	10	109
Fluorophenol	A	27.81	50	56
d-$_6$-Phenol	A	21.52	50	43
Pentafluorophenol	A	37.74	50	75
d-$_5$-Nitrobenzene	BN	41.56	50	83
Fluorobiphenyl	BN	44.67	50	89
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

LIST OF COMMONLY USED FOOTNOTES FOR COMMERCIAL AND EPA

II Indistingushable isomers.

I Presence indicated by extracted ion current profile; definitive spectra not obtainable due to interference.

Q Quantiatated from secondary ion.

CI Concentration estimated; interferences present with primary quantitation ions.

D Sample analysis using a _____ dilution.

SE Sample extract could not be concentrated to 1.0 ml, thus the detection limits are higher than normal.

DL Detection limits are adjusted to show change in sample quantity processed. The surrogate recoveries are not available.

SR Surrogate recoveries are not available because it was necessary to dilute the extract, based on GC screening results.

SC Suspected laboratory contaminant.

LT Less than the specified detection limit but greater than one half of the detection limit (present but BDL).

EV Estimated value (previously j) in house note: This footnote may not be used for PP compounds.

H Volatile vial received with headspace.

SV Amount corrected for sample volume.

TN Acid & BN recoveries adjusted 10/9 for volume change. (medium level 026 only)

DC Compound calculated from a _____ dilution.

CR Compound calculated using total RIC area. All secondary ions saturated.

PC Pesticide or PCB confirmed by GC/MS.

PN Pesticide or PCB cannot be confirmed by GC/MS.

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Sample # 12969

This sample contains a mixture of PCBs. Identification of the exact PCBs comprising this mixture is not possible. The concentration of PCBs in the sample has been estimated using those peaks common to Aroclors 1016 and 1260.

Paul Mills

Paul Mills, Director, Quality Assurance

ORIGINAL (Red)

Acid

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12969

SAMPLE # C01111

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	357	55540-85-7	Octanethioic Acid, S-Hexyl ester	ACID	62	23 EV x 10 = 2
2	416	17312-74-2	Decane, 5-Ethyl-5-Methyl	ACID	57	32 = 31
3	451	103-24-2	Nonanedioic Acid, Bis(2-Ethylhexyl) ester	ACID	69	270 = 30
4	656	27554-26-3	1,2-Benzenedicarboxylic Acid, Diisooctyl ester	ACID	78	94 = 104
5				ACID		
6				ACID		
7				ACID		
8				ACID		
9				ACID		
10				ACID		
11				ACID		
12				ACID		
13				ACID		
14				ACID		
15				ACID		
16				ACID		
17				ACID		
18				ACID		
19				ACID		
20				ACID		

ORIGINAL (Red)

Bn

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12969

SAMPLE # C01111

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	263	2390-14-1	1-OCTANOL, 2,2-DIMETHYL	ACID	80.	17.
2	292	17301-33-6	UNDECANE, 4,8-DIMETHYL	ACID	84	19.
3	351	544-76-3	HEXADECANE	ACID	75.	12.
4	367	18344-37-1	HEPTADECANE, 2,6,10,14-TETRAMETHYL	ACID	78.	30.
5	397	544-76-3	HEXADECANE	ACID	79.	17.
6	516	85590-85-7	OCTANETHIOIC ACID, S-HEXYL ESTER	ACID	49.	13.
7	556	17312-74-2	DECANE, 5-ETHYL-5-METHYL	ACID	48.	25.
8	630	10546-70-0	N-PROPYLBENZAMIDE	ACID	84.	55.
9				ACID		
10				ACID		

U.S. ENVIRONMENTAL PR
P.O. Box 818, Alexand

Sample 3 - NW yard

Sample Number C01112

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 1

MAR 24 1982

ecology and environment, inc. Philadelphia

F3-8201-24

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12970

QC Report No. 44-38, 43-35, 45-35

Signature of Person Authorized to Release Data: J W Russell

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01112

ORIGINAL (Red)

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12970

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	
11097-69-7	PCB-1254	
11104-28-2	PCB-1221	
11141-16-5	PCB-1232	
12672-24-6	PCB-1248	
11096-82-5	PCB-1260	
12674-11-2	PCB-1016	
8001-35-2	toxaphene	0.4U

P.N 1.29

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12970

SAMPLE NUMBER
C#883-C01112

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.31	10	103
d-$_8$-Toluene	VOA	10.55	10	106
Fluorophenol	A	29.02	50	58
d-$_6$-Phenol	A	21.98	50	44
Pentafluorophenol	A	ND	50	–
d-$_5$-Nitrobenzene	BN	37.13	50	74
Fluorobiphenyl	BN	43.29	50	87
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

Acid

ORGANICS ANALYSIS DATA SHEET - Page 4

C# 883
Co 1112

LAB NAME: Mead Comp Chem

LAB SAMPLE I.D. # 12970

SAMPLE # 12970

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	358	55590-85-7	S-Hexylester Octanethioicacid	Acid	601	24.4 EV 27
2	410	17312-74-2	5-Ethyl-5-methyl Decane	Acid	571	32.3 ~~X10~~ 9 = 36
3						
4						
5						
6						
7						
8						
9						
10						

XN

U.S. ENVIRONMENTAL PRO
P.O. Box 818, Alexandr

Sample 4 - N yard

Sample Number C01113

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 1

RECEIVED
MAR 24 1982
ecology and environment, inc.

F3-8201-24

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12971

QC Report No. 44-38, 43-35, 45-35

Signature of Person Authorized to Release Data:

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01113

ORIGINAL (Red)

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12971

Case Number 883

QC Report No. 44-38, 43-35, 45-35

VOLATILES		ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

PESTICIDES		ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	
11097-69-7	PCB-1254	
11104-28-2	PCB-1221	
11141-16-5	PCB-1232	
12672-24-6	PCB-1248	
11096-82-5	PCB-1260	
12674-11-2	PCB-1016	
8001-35-2	toxaphene	0.4U

P.N. 2.19

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL
(Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12971

SAMPLE NUMBER
C#883-C01113

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	10.88	10	109
d-8-Toluene	VOA	11.07	10	111
Fluorophenol	A	26.45	50	53
d-6-Phenol	A	19.95	50	40
Pentafluorophenol	A	ND	50	–
d-5-Nitrobenzene	BN	38.03	50	76
Fluorobiphenyl	BN	39.62	50	79
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Sample # 12971

This sample contains a mixture of PCBs. Identification of the exact PCBs comprising this mixture is not possible. The concentration of PCBs in the sample has been estimated using those peaks common to Aroclors 1016 and 1260.

Paul Mills

Paul Mills, Director, Quality Assurance

ORIGINAL (Red)

Acid

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12971

SAMPLE # C#883-C01113

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g) TN
1	357	2432-84-0	octanethioic acid, S-Ethyl ester	ACID	60	12 EV Mg = 13
2	410	7045-71-8	undecane, 2-methyl	ACID	60	16 9 = 18
3				ACID		
4				ACID		
5				ACID		
6				ACID		
7				ACID		
8				ACID		
9				ACID		
10				ACID		
11				ACID		
12				ACID		
13				ACID		
14				ACID		
15				ACID		
16				ACID		
17				ACID		
18				ACID		
19				ACID		
20				ACID		

ORIGINAL (Red)

Br

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12471

SAMPLE # C0 1113

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	517	558-17-8	Propane, 2-Iodo-2-Methyl	B/N	50	12 EV
2	559	1560-96-9	TRI decane, 2-Methyl	B/N	52	19
3	629	10546-70-6	Benzamide, N-Propyl	B/N	82	41
4				B/N		
5				B/N		
6				B/N		
7				B/N		
8				B/N		
9				B/N		
10				B/N		
11				B/N		
12				B/N		
13				B/N		
14				B/N		
15				B/N		
16				B/N		
17				B/N		
18				B/N		
19				B/N		
20				B/N		

.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Sample Number CO1114

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 1

F3-8201-24

RECEIVED
MAR 24 1982
ecology and environmental, inc. Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12972

QC Report No. 44-38,43-35,45-35

Signature of Person Authorized to Release Data: R. J. Mallet

Sample 5 - center of yard

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	[illegible]
95-57-8	2-chlorophenol	[illegible]
122-83-2	2,4-dichlorophenol	[illegible]
105-67-9	2,4-dimethylphenol	[illegible]
88-75-5	2-nitrophenol	10[illegible]
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
[illegible]7-68-3	hexachlorobutadiene	10U
[illegible]7-4	hexachlorocyclopentadiene	10U
[illegible]1	isophorone	10U
[illegible]	naphthalene	10U
[illegible]	nitrobenzene	10U
NA	[illegible]-nitrosodimethylamine	NA
86-30[illegible]	[illegible]trosodiphenylamine	10U
621-64-[illegible]	[illegible]osodi-n-propylamine	10U
117-81-7	bis([illegible]ylhexyl)phthalate	32
85-68-7	[illegible] phthalate	10U
84-74-2	di-[illegible]yl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number: CO1114

Laboratory Name: Mead CompuChem

Lab Sample ID NO. 12972

Case Number 883

QC Report No. 44-38,43-35,45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260 3.10	P.N.
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12972

SAMPLE NUMBER

C#883-C01114

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	11.38	10	114
d-$_8$-Toluene	VOA	11.50	10	115
Fluorophenol	A	28.01	50	56
d-$_6$-Phenol	A	22.95	50	46
Pentafluorophenol	A	20.17	50	40
d-$_5$-Nitrobenzene	BN	41.62	50	83
Fluorobiphenyl	BN	50.26	50	100
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

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ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12472

SAMPLE # Co 1114

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	388	88-99-3	1,2-Benzenedicarboxylic Acid	B/N	62	22 EV x 1% = 2
2	680	40727-07-9	1,3,4-Oxadiazolidinone, 5-Mercapto-2-Methyl-3-Phenyl	B/N	28	14 = 1
3				B/N		
4				B/N		
5				B/N		
6				B/N		
7				B/N		
8				B/N		
9				B/N		
10				B/N		
11				B/N		
12				B/N		
13				B/N		
14				B/N		
15				B/N		
16				B/N		
17				B/N		
18				B/N		
19				B/N		
20				B/N		

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

ORIGINAL (Red)

Sample Number C01115

ORGANICS ANALYSIS DATA SHEET - Page 1

RECEIVED

F3-8201-24

Laboratory Name Mead CompuChem MAR 24 1982 Case Number 003

Lab Sample ID NO. 12984 -38,43-35,45-35

Signature of Person Autho Sample 6 - west center yard

ug/ml ug/g

	ACID COMPOUNDS	(circle one)
88-06-2	2,4,6-trichlorop	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10 LT
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	19 TN
7005-72-3	4-chlorophenyl phenyl ether	10U

	BASE/NEUTRAL COMPOUNDS	(circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	35 TN
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10 LT
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10 LT
208-96-8	acenaphthylene	10U
120-12-7	anthracene TN	29
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10 LT
85-01-8	phenanthrene TN	29
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene TN	16

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number: CO1115

Laboratory Name: Mead CompuChem

Lab Sample ID NO. 12984

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or (ug/g) (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	14
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1.0
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or (ug/g) (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	21.95 . PN
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (R

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12984

SAMPLE NUMBER
C#883-C01115

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	10.35	10	104
d-8-Toluene	VOA	10.60	10	106
Fluorophenol	A	26.56	50	53
d-6-Phenol	A	20.90	50	42
Pentafluorophenol	A	6.49	50	13
d-5-Nitrobenzene	BN	42.60	50	85
Fluorobiphenyl	BN	46.86	50	94
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (P)

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12984

SAMPLE # CH#883-C01115 12984

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	656	108-38-3	1,3-dimethyl-benzene	VOA	93	12 EV
2				VOA		
3				VOA		
4				VOA		
5				VOA		
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORIGINAL (Red)

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ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12984

SAMPLE # C01115 12984

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC. (ug/g)	TN
1	162	1120-21-4	Undecane	B/N	58	38 EV x10	= 42
2	182	27011-47-8	3-chloro-tricyclo[4.3.1.13,8]Undecane	B/N	25	30	= 33
3	208	55030-62-1	4,8-dimethyl-tridecane	B/N	44	7.0	= 8
4	343	~~56786-94-4~~ 85-44-9	~~D-5~~ 1,3-Isobenzofurandione	B/N	63	44	= 49
5	479	17851-53-5	Butyl 2-Methyl propylester-1,2-benzenedicarboxylicacid	B/N	70	21	= 23
6	598	31295-56-4	2,6,11-Trimethyl dodecane	B/N	34	41	= 46
7	690	28580-43-0	Decahydro-1,1,4,7-Tetramethyl-,[1AR-(1A.Alpha,)-1H-Cyclopropl[E]Azulene	B/N	23	32	= 36
8	749	55255-70-4	9-Cyclohexyltetradecahydro-anthracene	B/N	28	37	= 41
9	764	5037-60-5	2,3-Dihydro-4,7,Dimethyl-1H-Inden-1-one	B/N	16	23	= 26
10	784	55760-31-1	N-[4-(Acetylmethylamino)Butyl]-3-(3,4-Dimethoxypehyl-N-2-Propenamide	B/N	15	23	= 25

Sample 7 - east center yard

U.S. ENVIRONMENTAL PRO... ...ffice
P.O. Box 818, Alexandri... ...683-0885

ORIGINAL (Red)

Sample Number C01116

ORGANICS ANALYSIS DATA SHEET - Page 1

F3-8201-24

RECEIVED MAR 24 1982 ecology and environment, inc. Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12985

QC Report No. 44-38,43-35,45-35

Signature of Person Authorized to Release Data: R. D. Wallick

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
83-32-9	acenaphthene	11 TN
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	29 TN
7005-72-3	4-chlorophenyl phenyl ether	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	68 TN
85-68-7	butyl benzyl phthalate	16 TN
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10 LT
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25 LT
207-08-9	benzo(k)fluoranthene	10 LT
318-01-9	chrysene	10 LT
208-96-8	acenaphthylene	10U
120-12-7	anthracene	42 TN
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10 LT
85-01-8	phenanthrene	42 TN
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	24 TN

ORIGINAL

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number
CO1116

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12985

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	14
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1.0
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	2.5
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	19.2 P.N
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL
(Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12985

SAMPLE NUMBER
C#883-C01116

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	11.14	10	111
d-$_8$-Toluene	VOA	11.30	10	113
Fluorophenol	A	26.35	50	53
d-$_6$-Phenol	A	15.76	50	32
Pentafluorophenol	A	ND	50	—
d-$_5$-Nitrobenzene	BN	50.68	50	101
Fluorobiphenyl	BN	49.92	50	100
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead CompoChem

LAB SAMPLE I.D. # 12985

SAMPLE # C0116

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	691	106-42-3	1,4-DIMETHYLBENZENE	VOA	82	9.2 ug/g
2				VOA		
3				VOA		
4				VOA		
5				VOA		
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORIGINAL (Red)

Bn

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compuchem

LAB SAMPLE I.D. # 12985

Co 1116

SAMPLE # 12985

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC. (ug/g)	TN
1	184	95-63-6	1,2,4-Trimethyl-benzene	B/N	43	26 EV x 10/9 =	29
2	385	88-99-3	1,2-benzenedicarboxylic acid	B/N	83	130 =	140
3	441	930-02-9	1-(Ethenyloxy)-Octadecane	B/N	50	21 =	23
4	477	55045-03-9	3-methoxy-4-[(Trimethylsilyl)oxy]-, O-methyloxime-benzaldehyde	B/N	31	11 =	12
5	494	120-06-9	3-phenyl-sydnone	B/N	50	27 =	30
6	519	17851-53-5	Butyl 2-Methylpropyl ester-1,2-benzenedicarboxylic acid	B/N	85	50 =	56
7	555	55902-90-4	3,4,4A-9,10,10A-Hexahydro-1,1,4A-Trimethyl-(4AS-2(1H)phenanthrenone	B/N	39	20 =	22
8	633	1235-74-1 ~~200-44-0~~	1,2,3,4,4A,9,10,10A-Octahydro-1,4A-Dimeth-1-phenanthrene carboxylic acid	B/N	56	66 =	73
9	653	17851-53-5	Butyl 2-Methylpropyl ester-1,2-Benzene dicarboxylic acid	B/N	44	22 =	24
10	799	300-57-2	Benzene, 2-propenyl	B/N	25	17 =	19

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
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ORIGINAL (Red)

Sample Number CO1117

ORGANICS ANALYSIS DATA SHEET - Page 1

F3-8201-24

RECEIVED

Sample 8 - SW yard

Laboratory

Lab Sample ID NO.

Signature of Person Authorized to Release Data

Case Number 883

QC Report No. 44-38, 43-35, 45-35

H. Mellick

Philadelphia

	ACID COMPOUNDS	ug/ml (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml (circle one)
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	21 TN
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	11 TN II
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	11 TN II
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01117

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12986

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	420
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U LT
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1.5
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	3.4
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	2.32 PN
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL
(Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12986

SAMPLE NUMBER
C01117

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	10.15	10	102
d-8-Toluene	VOA	10.44	10	104
Fluorophenol	A	24.92	50	50
d-6-Phenol	A	20.21	50	40
Pentafluorophenol	A	ND	50	—
d-5-Nitrobenzene	BN	39.58	50	79
Fluorobiphenyl	BN	43.02	50	86
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (R

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compo Chem

LAB SAMPLE I.D. # 12986

C#883-C01117

SAMPLE # 12986

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	631	108-38-3	1,3-dimethyl benzene	VOA	83	10 EV
2	656	108-38-3	1,3-dimethyl benzene	VOA	91	6.2
3				VOA		
4				VOA		
5				VOA		
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORIGINAL (Red)

Acid

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compuchem

LAB SAMPLE I.D. # 12986

SAMPLE # C01117

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	126	544-76-3	Hexadecane	ACID	85	13 EV TN
2	156	"	"	ACID	82	17
3	185	17301-33-6	Undecane, 4, 8-Dimethyl	ACID	78	18
4	192	1921-70-6	Pentadecane, 2,6,10,14-Tetramethyl	ACID	85	13
5	211	29812-74-1	Hydroxylamine, O-Decyl-	ACID	84	13
6	217	17312-74-2	Decane, 5-Ethyl-5-Methyl-	ACID	65	11
7	236	593-45-3	octadecane	ACID	62	18
8	342	41042-39-1	1,4-Naphthalenedione, 2-hydroxy-3-(3-Methyl-1-	ACID	39	57
9	349	17851-53-5	1,2-Benzenedicarboxylic Acid, Butyl 2-Methylpropyl est	ACID	87	75
10	398	55956-95-9	Spiro[Bicyclo[3.2.1]oct-3-ene-2,2'-[1,3 Dioxolan	ACID	26	75
11				ACID		
12				ACID		
13				ACID		
14				ACID		
15				ACID		
16				ACID		
17				ACID		
18				ACID		
19				ACID		
20				ACID		

9 : 1
: 20
: 14
: 14
: 12
: 20
: 63
: 83
: 83

ORIGINAL (Red)

Bn

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compo Chem

LAB SAMPLE I.D. # 12986

Co 1117

SAMPLE # 12986

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)	TN
1	155	10042-59-8	2-propyl-1-heptanol	B/N	80	180 EV	= 200
2	336	594-03-6	Ethane (dithioic) acid	B/N	33	140	= 160
3	367	544-76-3	hexadecane	B/N	60	110	= 120
4	466	55956-35-9	Spiro[bicyclo[3.2.1]Oct-3-ene-2,2'-[1,3]Dioxolane]	B/N	25	3400	= 380
5	510	55902-90-4	2(1H)-Phenanthrenone, 3,4,4A,9,10,10A-Hexahydro-1,1,4A-Trimethyl-(4A	B/N	34	220	= 240
		"					
7	630	10546-70-0	N-propyl-benzamide	B/N	78	580	= 640
8				B/N			
9				B/N			
10				B/N			

Sample 9 - SE yard

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ORIGINAL (Red)

Sample Number C01118

ORGANICS ANALYSIS DATA SHEET

F3-8201-24

Laboratory Name Mead CompuChem

883

Lab Sample ID NO. 12987

44-38,43-35,45-35

Signature of Person Authorized to Release Data

ug/ml (ug/g) (circle one)

	ACID COMPOUNDS	
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	//
7005-72-3	4-chlorophenyl phenyl ether	10U

ug/ml (ug/g) (circle one)

	COMPOUNDS	
	phenyl ether	10U
	isopropyl)ether	10U
	thoxy)methane	10U
	adiene	10U
	lopentadiene	10U
		10U
		10U
		10U
	thylamine	NA
	nylamine	10U
	-propylamine	10U
	cyl)phthalate	99
	phthalate	10U
	thalate	10U
	thalate	10U
	ate	10U
	late	10U
	cene	10U
		10U
	anthene	25U
	nthene	10U
		10U
		10U
	20	II
	lene	25U
		10U
	20	II
	thracene	25U
	d)pyrene	25U
		25 LT

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01118

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12987

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	20
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	17
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	3.4
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	8.66 P.N
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12987

SAMPLE NUMBER
C#883-C01118

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	11.09	10	111
d-$_8$-Toluene	VOA	11.31	10	113
Fluorophenol	A	24.65	50	49
d-$_6$-Phenol	A	18.65	50	37
Pentafluorophenol	A	1.27	50	3
d-$_5$-Nitrobenzene	BN	33.49	50	67
Fluorobiphenyl	BN	38.53	50	77
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

Bu

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12987

C01118

SAMPLE # 12987

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	336	2044-97-5	1,3-oxathiolane	B/N	32	25 EV
2	341	88-99-3	1,2-benzenedicarboxylicacid	B/N	82	49
3	450	120-06-9	3-phenyl-sydnone	B/N	50	26
4	467	55956-35-9	Spiro[Bicyclo[3.2.1]Oct-3-ene-2,2'-[1,3] Dioxolane]	B/N	24	120
5	493	24035-50-5	1,2,3,4,4A,9,10,10A-Octahydro-1,4A-Dimeth-1-phenanthrenecarboxaldehyde	B/N	36	17
6	503	24035-50-5	"	B/N	29	16
7	510	55902-90-4	3,4,4A,9,10,10A-hexahydro-1,1,4A-Trimethyl-,(4A S-2(1H)-phenanthrenone	B/N	39	23
8	566	483-65-8	1-methyl-7-(1-methylethyl)-phenanthrene	B/N	67	21
9	576	57345-29-6	2-(Acetyloxy)-7-[(Acetyloxy)Acetyl]-1,4,4A,4B,5,6-3(2H)Phenanthrenone	B/N	14	16
10	1146	33342-96-0	2-phenyl-2'-(Trimethylsiloxy)-acetophenone	B/N	19	8800

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
VA 22313 - 703/683-0885

Sample 10 - N pooled water

A SHEET - Page 1

Sample Number C01119

ORIGINAL (Red)

F3-8201-24

RECEIVED MAR 24 1988 Ecology & Environment, Inc. Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 13009

QC Report No. 49-27, 50-27, 51-27

Signature of Person Authorized to Release Data: R. H. Nichol

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01119

Laboratory Name Mead CompuChem

Lab Sample ID NO. 13009

Case Number 883

QC Report No. 49-27, 50-27, 51-27

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

	DIOXINS	
1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 13009

SAMPLE NUMBER
C# 883-C01119

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.37	10	104
d-$_8$-Toluene	VOA	10.55	10	106
Fluorophenol	A	28.96	50	58
d-$_6$-Phenol	A	21.51	50	43
Pentafluorophenol	A	27.75	50	56
d-$_5$-Nitrobenzene	BN	50.69	50	101
Fluorobiphenyl	BN	37.08	50	74
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Base/Neutral surrogate recoveries for this sample are greater than normal. This results from a difference in the area of the internal standard used to calculate the surrogate quantity, as compared to the old standard's area.

Acid surrogate recoveries are normal for this method, and the worksheets indicate correct amounts of surrogates were spiked into the sample. The internal standard area used to calculate the surrogate quantities did not meet the criteria requiring reanalysis, when the value is compared to the internal standard area control charts, the internal standard response verification data sheets, or when response factors of the corresponding standard are compared to the initial multipoint calibration data. The surrogate recoveries are reported as is.

Paul Mills

Director, Quality Assurance

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Internal standard area control charts have been included in this report as required by the contract. Areas outside the stated control limits have triggered an examination of internal standard area ratios (as reported on the Internal Standard Response Verification data sheet), the comparison of raw areas in the affected sample to the corresponding standard, and the comparison of the response factors obtained for the corresponding standard to the initial multipoint calibration data. Corrective action is necessary only if one or more of those checks are outside the established control limits. If no corrective action is noted on the internal standard area control chart, all other factors were within limits and action was not required.

Patty L. Ragsdale
Quality Control Manager

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

Lab Name: Mead CompuChem Case No. 883

Lab Sample I.D. No. 13009

QC Report No: 49-27,50-27,51-27

Sample Number C01119

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRAC-TION	% Pur.	Est. Conc.
1		None Found	BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20			ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Sample Number C01120

ORIGINAL (Red)

S ANALYSIS DATA SHEET - Page 1

RECEIVED

F3-8201-24

Sample 11 - S pooled water

MAR 24 1982

Laboratory Name Mead Compuchem Case Number 883

Lab Sample ID NO. 13008 QC Report No. 49-27,50-27,51-27

Signature of Person Authorized to Release

	ACID COMPOUNDS	ug/ml (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

	RAL COMPOUNDS	ug/ml (ug/g) (circle one)
101-55-3	anyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01120

Laboratory Name Mead CompuChem

Lab Sample ID NO. 13008

Case Number 883

QC Report No. 49-27,50-27,51-27

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1.5
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL
(Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 13008

SAMPLE NUMBER
C#883-C01120

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	9.31	10	93
d-8-Toluene	VOA	9.46	10	95
Fluorophenol	A	26.44	50	53
d-6-Phenol	A	19.22	50	38
Pentafluorophenol	A	23.31	50	47
d-5-Nitrobenzene	BN	41.95	50	84
Fluorobiphenyl	BN	55.32	50	111
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Base/Neutral surrogate recoveries for this sample are greater than normal. This results from a difference in the area of the internal standard used to calculate the surrogate quantity, as compared to the old standard's area.

Acid surrogate recoveries are normal for this method, and the worksheets indicate correct amounts of surrogates were spiked into the sample. The internal standard area used to calculate the surrogate quantities did not meet the criteria requiring reanalysis, when the value is compared to the internal standard area control charts, the internal standard response verification data sheets, or when response factors of the corresponding standard are compared to the initial multipoint calibration data. The surrogate recoveries are reported as is.

Paul Mills

Director, Quality Assurance

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Internal standard area control charts have been included in this report as required by the contract. Areas outside the stated control limits have triggered an examination of internal standard area ratios (as reported on the Internal Standard Response Verification data sheet), the comparison of raw areas in the affected sample to the corresponding standard, and the comparison of the response factors obtained for the corresponding standard to the initial multipoint calibration data. Corrective action is necessary only if one or more of those checks are outside the established control limits. If no corrective action is noted on the internal standard area control chart, all other factors were within limits and action was not required.

Patty L. Ragsdale
Quality Control Manager

ORGANICS ANALYSIS DATA SHEET - Page 4

ORIGINAL (Red)

Lab Name: Mead CompuChem Case No. 883

Lab Sample I.D. No. 13008

QC Report No: 49-27,50-27,51-27

Sample Number
C01120

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRAC-TION	% Pur.	Est. Conc.
1		None Found	BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20			ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Sample Number C01121

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 1

RECEIVED

F3-8201-24

MAR 24 1982

ecology and environmental inc. Philadelphia

Laboratory Name Mead CompuChem

Case Number 88.3

Lab Sample ID NO. 12988

QC Report No. 44-38, 43-35, 45-35

Signature of Person Authorized to Release Data: J W Russell

ug/ml ug/g (circle one)

	ACID COMPOUNDS	
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

ug/ml ug/g (circle one)

	BASE/NEUTRAL COMPOUNDS	
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number CO1121

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12988

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12988

SAMPLE NUMBER
C# 883-C01121

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.17	10	102
d-$_8$-Toluene	VOA	10.34	10	103
Fluorophenol	A	31.42	50	63
d-$_6$-Phenol	A	23.51	50	47
Pentafluorophenol	A	22.55	50	45
d-$_5$-Nitrobenzene	BN	40.95	50	82
Fluorobiphenyl	BN	48.36	50	97
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

Lab Name: Mead CompuChem Case No. 883

Lab Sample I.D. No. 12988

QC Report No: 44-38, 43-35, 45-35

Sample Number
C01121

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRAC-TION	% Pur.	Est. Conc.
1		None Found	BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20			ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

U.S. ENVIRONMENTAL PR Sample 13 - frame building spill ... Office
P.O. Box 818, Alexandr ... 683-0885

ORIGINAL (Red)

Sample Number C01122

ORGANICS ANALYSIS DATA SHEET - Page 1

F3-8201-24

RECEIVED
MAR 24 1982
ecology and environment, Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12989

QC Report No. 44-38, 43-35, 45-35

Signature of Person Authorized to Release Data: R. D. Wallick

ACID COMPOUNDS SE1 D x10		ug/ml (ug/g) (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

BASE/NEUTRAL COMPOUNDS SE1 D x10		
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

BASE/NEUTRAL COMPOUNDS		ug/ml (ug/g) (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	600 TN
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01122

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12989

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12989

SAMPLE NUMBER
C#883-C01122

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.00	10	100
d-$_8$-Toluene	VOA	10.10	10	101
Fluorophenol	A	SE	50	—
d-$_6$-Phenol	A		50	—
Pentafluorophenol	A		50	—
d-$_5$-Nitrobenzene	BN		50	—
Fluorobiphenyl	BN		50	—
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

VOA

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

CA#883-C01122

LAB SAMPLE I.D. # 12989

SAMPLE # 12989

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
21	241	78-85-3	2-methyl-2-propenal	VOA	98	35 EV
2				VOA		
3				VOA		
4				VOA		
5				VOA		
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORIGINAL (Red)

Acid

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12989

SAMPLE # C#883-C01122

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	152	144-39-8	1,6-octadien-3-ol, 3,7-Dimethyl-, Propanoate	ACID	66	460 EV=
2	190	60-12-8	Benzene ethanol	ACID	94	400 X10 g=4
3	210	56344-70-0	1H-Indene, 1-Ethyl, dene octahydro-, trans-	ACID	45	140 = 160
4	236	87-19-4	Benzoic Acid, 2-Hydroxy-, 2-Methyl Propyl ester	ACID	63	430 = 480
5	280	1331-92-6	2-Propenal, 3-Phenyl-Mono Pentyl Deriv.	ACID	77	590 = 650
6	302	56247-75-7	1H-Indene, 2-Butyl-1-Hexyl-2,3-Dihydro-	ACID	39	680 = 750
7	313	91-64-5	2H-1-Benzopyran-2-one	ACID	90	4600 = 5100
8	332	122-95-2	Benzene, 1,4-Diethoxy-	ACID	64	1100 = 1200
9	396	118-58-1	Benzoic Acid, 2-Hydroxy-, Phenyl Methyl ester	ACID	90	1700 = 1900
10	339	4130-42-1	Phenol, 2,6-Bis(1,1-Dimethylethyl)-4-ethyl-	ACID	81	300 = 330
11				ACID		
12				ACID		
13				ACID		
14				ACID		
15				ACID		
16				ACID		
17				ACID		
18				ACID		
19				ACID		
20				ACID		

ORIGINAL (Red)

Bn

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12989

SAMPLE # CO1122

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)	TN
1	248	10482-56-1	3-cyclohexene-1-Methanol, .Alpha., .Alpha., 4-TRIMeth	B/N	72	330	EV x10/9 = 3
2	265	106-22-9	6-octen-1-ol, 3,7-Dimethyl	B/N	62	910	= 1
3	301	20777-49-5	cyclohexanol, 2-Methyl-5-(1-Methyl Ethenyl)-Ace	B/N	68	1100	= 12
4	310	13491-79-7	cyclohexanol, 2-(1,1-Dimethylethyl)-	B/N	54	1200	= 13
5	346	98-54-4	Phenol, 4-(1,1--Dimethylethyl)-	B/N	65	1400	= 150
6	368	87-19-4	Benzoic Acid, 2-Hydroxy-, 2-Methyl Propyl ester	B/N	73	1200	= 130
7	425	119-61-9	Methanone, Diphenyl-	B/N	87	870	= 960
8	479	112-80-1	9-octadecenoic Acid (Z)-	B/N	21	1300	= 140
9	486	118-58-1	Benzoic Acid, 2-Hydroxy-, Phenylmethyl ester	B/N	75	3500	= 390
10	545	55759-88-1	Benzene, 2,4-Dichloro-1-\(4-chlorophenyl)Thio\-	B/N	38	4000	= 440
11				B/N			
12				B/N			
13				B/N			
14				B/N			
15				B/N			
16				B/N			
17				B/N			
18				B/N			
19				B/N			
20				B/N			

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Buoks Steel Drum

Sample Number C5040

MD51

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 1

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 13454

QC Report No. 57-10, 56-10, 58-10

Signature of Per[illegible] Release Data: R. J. Wallis

Sample 14 - frame building S-sump

	ACID COMPOUNDS				NEUTRAL COMPOUNDS		ug/10mls
88-06-2	2,4,6-trichlorophenol		ND	[illegible]	omophenyl phenyl ether		ND
59-50-7	p-chloro-m-cresol		ND	39638-32-9	(2-chloroisopropyl)ether		ND
95-57-8	2-chlorophenol		ND	111-91-1	2-chloroethoxy)methane		ND
122-83-2	2,4-dichlorophenol		ND	87-68-3	chlorobutadiene		ND
105-67-9	2,4-dimethylphenol		ND	77-47-4	chlorocyclopentadiene		ND
88-75-5	2-nitrophenol		ND	78-59-1	horone		ND
100-02-7	4-nitrophenol		ND	91-20-3	thalene		ND
51-88-5	2,4-dinitrophenol		ND	98-95-3	obenzene		ND
534-52-1	4,6-dinitro-o-cresol		ND		trosodimethylamine		ND
87-86-5	pentachlorophenol		ND	86-30-6	trosodiphenylamine		ND
108-95-2	phenol		ND	621-64-7	trosodi-n-propylamine		ND
(surrogate)	2-fluorophenol	SR	ND	117-81-7	2-ethylhexyl)phthalate		ND
(surrogate)	D_5-Phenol	SR	ND	85-68-7	l benzyl phthalate		ND
				84-74-2	-butyl phthalate		ND
	BASE/NEUTRAL COMPOUNDS			117-84-0	-octyl phthalate		ND
				84-66-2	hyl phthalate		ND
83-32-9	acenaphthene		ND	131-11-3	thyl phthalate		ND
92-87-5	benzidine		ND	56-55-3	o(a)anthracene		ND
120-82-1	1,2,4-trichlorobenzene		ND	50-33-8	o(a)pyrene		ND
118-74-1	hexachlorobenzene		ND	205-99-2	benzofluoranthene		ND
67-72-1	hexachloroethane		ND	207-08-9	o(k)fluoranthene		ND
111-44-4	bis(2-chloroethyl)ether		ND	318-01-9	sene		ND
91-58-7	2-chloronaphthalene		ND	208-96-8	aphthylene		ND
95-50-1	1,2-dichlorobenzene		ND	120-12-7	racene		ND
541-73-1	1,3-dichlorobenzene		ND	181-24-2	o(ghi)perylene		ND
106-46-7	1,4-dichlorobenzene		ND	86-73-7	rene		ND
91-94-1	3,3'-dichlorobenzidine		ND	85-01-8	anthrene		ND
121-14-2	2,4-dinitrotoluene		ND	53-70-3	nzo(a,h)anthracene		ND
606-20-2	2,6-dinitrotoluene		ND	183-39-5	no(1,2,3-cd)pyrene		ND
	1,2-diphenylhydrazine		ND	129-00-0	ne		ND
122-66-7	(as azobenzene)		ND	(surrogate)	itrobenzene	SR	ND
206-44-0	fluoranthene		ND	(surrogate)	florobiphenyl	SR	ND
7005-72-3	4-chlorophenyl phenyl ether		ND	(surrogate)	pyrene	SR	ND

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number
G#883-C5040

Laboratory Name Mead CompuChem
Lab Sample ID NO. 13454

VOLATILES		mg/kg
107-02-8	acrolein	ND
107-13-1	acrylonitrile	ND
71-43-2	benzene	ND
56-23-5	carbon tetrachloride	ND
108-90-7	chlorobenzene	ND
107-06-2	1,2-dichloroethane	ND
71-55-6	1,1,1-trichloroethane	ND
75-34-3	1,1-dichloroethane	ND
79-00-5	1,1,2-trichloroethane	ND
79-34-5	1,1,2,2-tetrachloroethane	ND
75-00-3	chloroethane	ND
110-75-8	2-chloroethylvinyl ether	ND
67-66-3	chloroform	ND
75-35-4	1,1-dichloroethene	ND
156-60-5	1,2-trans-dichloroethene	ND
78-87-5	1,2-dichloropropane	ND
10061-20-6	cis-1,3-dichloropropene	ND
10061-01-05	trans-1,3-dichloropropene	ND
100-41-4	ethylbenzene	270
75-09-2	methylene chloride	ND
74-87-3	chloromethane	ND
74-83-9	bromomethane	ND
75-25-2	bromoform	ND
75-27-4	dichlorobromomethane	ND
75-69-4	trichlorofluoromethane	ND
127-18-4	tetrachloroethylene	ND
108-88-3	toluene	*
79-01-6	trichloroethylene	ND
75-01-4	vinyl chloride	ND

PESTICIDES		ug/10mls
309-00-2	aldrin	ND
60-57-1	dieldrin	ND
57-74-9	chlordane	ND
50-29-3	4,4'-DDT	ND
72-55-9	4,4'-DDE	ND
72-54-8	4,4'-DDD	ND
115-29-7	endosulfan I	ND
115-29-7	endosulfan II	ND
1031-07-8	endosulfan sulfate	ND
78-20-8	endrin	ND
7421-43-4	endrin aldehyde	ND
76-44-8	heptachlor	ND
1024-57-3	heptachlor epoxide	ND
319-84-6	BHC-Alpha	ND
319-85-7	BHC-Beta	ND
319-86-8	BHC-Delta	ND
58-89-9	BHC-Gama	ND
53469-21-9	PCB-1242	ND
11097-69-7	PCB-1254	ND
11104-28-2	PCB-1221	ND
11141-16-5	PCB-1232	ND
12672-24-6	PCB-1248	ND
11096-82-5	PCB-1260	ND
12674-11-2	PCB-1016	ND
8001-35-2	toxaphene	ND

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

* Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 3

Lab Name: Mead CompuChem

EPA Case # 883

CompuChem # 13454

Sample Number C5040

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Concentration (Total ug)	(Surrogates only) Spike Added (ug)	% Recovery
d_6-Benzene	VOA	163	150	109
d_8-Toluene	VOA	172	150	115
1,4-Difluorobenzene	VOA	169	150	113
Pentafluorophenol	FSCC	SR, DX10	100	—
1,2,3,4-TCDD *	TCDD	0	0.25	0

* NO RECOVERY AFTER CLEANUP

ORIGINAL
(Red)

LIST OF COMMONLY USED FOOTNOTES FOR COMMERCIAL AND EPA

II Indistingushable isomers.

I Presence indicated by extracted ion current profile; definitive spectra not obtainable due to interference.

Q Quantiatated from secondary ion.

CI Concentration estimated; interferences present with primary quantitation ions.

D Sample analysis using a _____ dilution.

SE Sample extract could not be concentrated to 1.0 ml, thus the detection limits are higher than normal.

DL Detection limits are adjusted to show change in sample quantity processed. The surrogate recoveries are not available.

SR Surrogate recoveries are not available because it was necessary to dilute the extract, based on GC screening results.

SC Suspected laboratory contaminant.

LT Less than the specified detection limit but greater than one half of the detection limit (present but BDL).

EV Estimated value (previously j) in house note: This footnote may not be used for PP compounds.

H Volatile vial received with headspace.

SV Amount corrected for sample volume.

TN Acid & BN recoveries adjusted 10/9 for volume change. (medium level 026 only)

DC Compound calculated from a _____ dilution.

CR Compound calculated using total RIC area. All secondary ions saturated.

PC Pesticide or PCB confirmed by GC/MS.

PN Pesticide or PCB cannot be confirmed by GC/MS.

1-04-82

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

The peak at scan # 368 is an extra internal standard which was added to this sample, but was not used for quantitation.

Patty L. Ragsdale
Quality Control Manager

ORIGINAL (Red)

VOA

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: MEAD COMPUCHEM

LAB SAMPLE I.D. # 13454

SAMPLE # C#883-C5040

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	607	98-82-8	(1-METHYLETHYL)BENZENE	VOA	72.	230. ug/g EV
2	668	108-38-3	1,3-DIETHYLBENZENE	VOA	93.	1200.
3	695	106-42-3	1,4-DIETHYLBENZENE	VOA	93.	900.
4				VOA		
5				VOA		
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

FSCC

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: MPLAD COMPUCHEM

LAB SAMPLE I.D. # 13454

SAMPLE # C#883-C5040

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	500	108-38-3	1,3-DIMETHYLBENZENE	FSCC	93.	470 ug/10mls EV
2	570	126-30-7	2,2-DIMETHYL-1,3-PROPANDIOL	FSCC	98.	920.
3	649	95-63-6	1,2,4-TRIMETHYLBENZENE	FSCC	76.	560.
4	687	5989-54-8	1-METHYL-4-(1-METHYLETHENYL)CYCLOHEXENE	FSCC	72.	620.
5	756	144-39-8	1,6-OCTADIEN-3-OL, 3,7-DIMETHYL-, PROPANOATE	FSCC	67.	810.
6	774	60-12-8	BENZENEETHANOL	FSCC	89.	550.
7	878	106-22-9	6-OCTEN-1-OL, 3,7-DIMETHYL	FSCC	86.	1,500.
8	903	144-39-8	1,6-OCTADIEN-3-OL, 3,7,-DIMETHYL-, PROPANOATE	FSCC	70.	810.
9	980	13491-79-7	2-(1,1-DIMETHYLETHYL)CYCLOHEXANOL	FSCC	75.	450.
10	993	20777-49-5	2-METHYLETHENYL-5-(1-METHYLETHENYL-) CYCLOHEXANOATE	FSCC	76.	2,100.
11	1011	98-52-2	4-(1,1-DIMETHYLETHYL)CYCLOHEXANOL	FSCC	76.	2,100.
12	1061	13567-54-9	7-METHANOAZULENE, OCTAHYDRO-3,6,8,8-TETRAMETHYL-	FSCC	79.	1,100.
13	1076	87-44-5	BICYCLO(7.2.0) UNDEC-4-ENE, 4,11,11,-TRIMETHYL-	FSCC	50.	2,000.
14	1105	98-54-4	4-(1,1-DIMETHYLETHYL) PHENOL	FSCC	60.	4,300.
15	1146	69-72-7	2-HYDROXYBENZOIC ACID	FSCC	69.	2,300.
16	1181	544-76-3	HEXADECANE	FSCC	87.	1,300.
17	1229	1331-92-6	2-PROPENAL, 3-PHENYL-, MONOPENTYL DERIV.	FSCC	77.	3,100.
18	1252	629-78-7	HEPTADECANE	FSCC	87.	1,200.
19	1299	22228-27-9	CYCLOPROP(A) INDEN-6-OL, TETRAHYDRO	FSCC	51.	5,000.
20	1316	54340-86-2	BENZENE, 4-(2-BUTENYL-)-1,2-DIMETHYL	FSCC	43.	1,300.

ORIGINAL

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Bucks Steel Drum

Sample Number C5041

MD51

ORGANICS ANALYSIS DATA SHEET - Page 1

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 13455

[illegible]t No. 57-10, 56-10, 58-10

Signature of Person Authorized to Release Data: [illegible]

Sample 15 - drum (frame building)

ACID COMPOUNDS

88-06-2	2,4,6-tri[illegible]	
59-50-7	p-chlor[illegible]	ND
95-57-8	2-chloro[illegible]	ND
122-83-2	2,4-dichlorophenol	ND
105-67-9	2,4-dimethylphenol	ND
88-75-5	2-nitrophenol	ND
100-02-7	4-nitrophenol	ND
51-88-5	2,4-dinitrophenol	ND
534-52-1	4,6-dinitro-o-cresol	ND
87-86-5	pentachlorophenol	ND
108-95-2	phenol	200
(surrogate)	2-fluorophenol	540
(surrogate)	D_5-Phenol	ND

BASE/NEUTRAL COMPOUNDS

83-32-9	acenaphthene	ND
92-87-5	benzidine	ND
120-82-1	1,2,4-trichlorobenzene	ND
118-74-1	hexachlorobenzene	ND
67-72-1	hexachloroethane	ND
111-44-4	bis(2-chloroethyl)ether	ND
91-58-7	2-chloronaphthalene	ND
95-50-1	1,2-dichlorobenzene	ND
541-73-1	1,3-dichlorobenzene	ND
106-46-7	1,4-dichlorobenzene	ND
91-94-1	3,3'-dichlorobenzidine	ND
121-14-2	2,4-dinitrotoluene	ND
606-20-2	2,6-dinitrotoluene	ND
	1,2-diphenylhydrazine	ND
122-66-7	(as azobenzene)	ND
206-44-0	fluoranthene	ND
7005-72-3	4-chlorophenyl phenyl ether	ND

[illegible] NEUTRAL COMPOUNDS ug/10 mls

[illegible]01-55-3	4-bromophenyl phenyl ether	ND
39638-32-9	bis-(2-chloroisopropyl)ether	ND
111-91-1	bis(2-chloroethoxy)methane	ND
87-68-3	hexachlorobutadiene	ND
77-47-4	hexachlorocyclopentadiene	ND
78-59-1	isophorone	ND
91-20-3	naphthalene	200
98-95-3	nitrobenzene	ND
	N-nitrosodimethylamine	ND
86-30-6	N-nitrosodiphenylamine	ND
621-64-7	N-nitrosodi-n-propylamine	ND
117-81-7	bis(2-ethylhexyl)phthalate	200
85-68-7	butyl benzyl phthalate	ND
84-74-2	di-n-butyl phthalate	ND
117-84-0	di-n-octyl phthalate	ND
84-66-2	diethyl phthalate	ND
131-11-3	dimethyl phthalate	ND
56-55-3	benzo(a)anthracene	ND
50-33-8	benzo(a)pyrene	ND
205-99-2	3,4-benzofluoranthene	ND
207-08-9	benzo(k)fluoranthene	ND
318-01-9	chrysene	ND
208-96-8	acenaphthylene	ND
120-12-7	anthracene	ND
181-24-2	benzo(ghi)perylene	ND
86-73-7	fluorene	ND
85-01-8	phenanthrene	ND
53-70-3	dibenzo(a,h)anthracene	ND
183-39-5	indeno(1,2,3-cd)pyrene	ND
129-00-0	pyrene	ND
(surrogate)	D_5-Nitrobenzene	600
(surrogate)	Decaflorobiphenyl	LT
(surrogate)	D_{10} pyrene	LT

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number
C#883-C5041

Laboratory Name Mead CompuChem
Lab Sample ID NO. 13455

VOLATILES		mg/kg
107-02-8	acrolein	ND
107-13-1	acrylonitrile	ND
71-43-2	benzene	ND
56-23-5	carbon tetrachloride	ND
108-90-7	chlorobenzene	ND
107-06-2	1,2-dichloroethane	ND
71-55-6	1,1,1-trichloroethane	ND
75-34-3	1,1-dichloroethane	ND
79-00-5	1,1,2-trichloroethane	ND
79-34-5	1,1,2,2-tetrachloroethane	ND
75-00-3	chloroethane	ND
110-75-8	2-chloroethylvinyl ether	ND
67-66-3	chloroform	ND
75-35-4	1,1-dichloroethene	ND
156-60-5	1,2-trans-dichloroethene	ND
78-87-5	1,2-dichloropropane	ND
10061-20-6	cis-1,3-dichloropropene	ND
10061-01-05	trans-1,3-dichloropropene	ND
100-41-4	ethylbenzene	520
75-09-2	methylene chloride	ND
74-87-3	chloromethane	ND
74-83-9	bromomethane	ND
75-25-2	bromoform	ND
75-27-4	dichlorobromomethane	ND
75-69-4	trichlorofluoromethane	ND
127-18-4	tetrachloroethylene	ND
108-88-3	toluene	18,000 Q
79-01-6	trichloroethylene	ND
75-01-4	vinyl chloride	ND

PESTICIDES		ug/a.2mls
309-00-2	aldrin	ND
60-57-1	dieldrin	ND
57-74-9	chlordane	21.29 P.C.
50-29-3	4,4'-DDT	ND
72-55-9	4,4'-DDE	ND
72-54-8	4,4'-DDD	ND
115-29-7	endosulfan I	ND
115-29-7	endosulfan II	ND
1031-07-8	endosulfan sulfate	ND
78-20-8	endrin	ND
7421-43-4	endrin aldehyde	ND
76-44-8	heptachlor	ND
1024-57-3	heptachlor epoxide	ND
319-84-6	BHC-Alpha	ND
319-85-7	BHC-Beta	ND
319-86-8	BHC-Delta	ND
58-89-9	BHC-Gama	ND
53469-21-9	PCB-1242	ND
11097-69-7	PCB-1254	ND
11104-28-2	PCB-1221	ND
11141-16-5	PCB-1232	ND
12672-24-6	PCB-1248	ND
11096-82-5	PCB-1260	ND
12674-11-2	PCB-1016	ND
8001-35-2	toxaphene	ND

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

* Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 3

Lab Name: Mead CompuChem

EPA Case # 883

CompuChem # 13455

Sample Number C5041

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Concentration (Total ug)	(Surrogates only) Spike Added (ug)	% Recovery
d_6-Benzene	VOA	166	150	111
d_8-Toluene	VOA	189	150	126
1,4-Difluorobenzene	VOA	175	150	117
Pentafluorophenol	FSCC	SR, Dxlo	100	—
1,2,3,4-TCDD	TCDD	* 0	0.25	0

* NO RECOVERY AFTER CLEANUP

ORIGINAL (Red)

LIST OF COMMONLY USED FOOTNOTES FOR COMMERCIAL AND EPA

II Indistingushable isomers.

I Presence indicated by extracted ion current profile; definitive spectra not obtainable due to interference.

Q Quantiatated from secondary ion.

CI Concentration estimated; interferences present with primary quantitation ions.

D Sample analysis using a _____ dilution.

SE Sample extract could not be concentrated to 1.0 ml, thus the detection limits are higher than normal.

DL Detection limits are adjusted to show change in sample quantity processed. The surrogate recoveries are not available.

SR Surrogate recoveries are not available because it was necessary to dilute the extract, based on GC screening results.

SC Suspected laboratory contaminant.

LT Less than the specified detection limit but greater than one half of the detection limit (present but BDL).

EV Estimated value (previously j) in house note: This footnote may not be used for PP compounds.

H Volatile vial received with headspace.

SV Amount corrected for sample volume.

TN Acid & BN recoveries adjusted 10/9 for volume change. (medium level 026 only)

DC Compound calculated from a _____ dilution.

CR Compound calculated using total RIC area. All secondary ions saturated.

PC Pesticide or PCB confirmed by GC/MS.

PN Pesticide or PCB cannot be confirmed by GC/MS.

1-04-82

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

The peak at scan # 369 is an extra internal standard which was added to this sample, but was not used for quantitation.

Patty L. Ragsdale
Quality Control Manager

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compu/Chem

LAB SAMPLE I.D. # 13455

SAMPLE # C#883-C5041

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	410	108-10-1	4-METHYL-2-PENTANONE	VOA	93.	71. ~~mg/kg~~ EV
2	504	611-14-3	1-ETHYL-2-METHYLBENZENE	VOA	85.	1000.
3	641	80-26-2	3-CYCLOHEXENE-1-METHANOL, 4 METHYL ACETATE	VOA	76.	1100.
4	670	108-38-3	1,3-DIMETHYLBENZENE	VOA	94.	2500.
5	696	106-42-3	1,4-DIMETHYLBENZENE	VOA	91	1200.
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compu Chem

LAB SAMPLE I.D. # 13455

SAMPLE # C#883-C5041

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	465	123-42-2	2 Pentanone, 4-Hydroxy-4-Methyl-	FSCC	972	149 EV
2	494	100-41-4	Benzene, ethyl-	FSCC	850	255
3	503	108-38-3	Benzene, 1,3-dimethyl-	FSCC	931	927
4	532	108-38-3	Benzene, 1,3-dimethyl-	FSCC	918	275
5	538	111-84-2	Nonane	FSCC	956	162
6	544	111-76-2	Ethanol, 2-Butoxy-	FSCC	948	303
7	578	629-82-3	Octane, 1,1'-oxybis-	FSCC	814	106
8	613	871-83-0	Nonane, 2-Methyl-	FSCC	589	233
9	629	16523-06-1	Cyclopentane carboxylic acid, Ethenyl ester	FSCC	654	493
10	652	124-18-5	Decane	FSCC	927	543
11	677	13475-78-0	Heptane, 5-ethyl-2-Methyl-	FSCC	901	266
12	683	104-76-7	Hexanol, 2-ethyl-	FSCC	854	614
13	694	1694-31-1	Butanoic acid, 3-oxo-, 1,1-Dimethylethyl ester	FSCC	610	260
14	720	535-77-3	Benzene, 1-Methyl-3-(1-Methylethyl)-	FSCC	617	251
15	757	1120-21-4	Undecane	FSCC	923	369
16	780	95-93-2	Benzene, 1,2,4,5-Tetramethyl-	FSCC	621	159
17	786	527-53-7	Benzene, 1,2,3,5-Tetramethyl	FSCC	837	172
18	819	1758-88-9	Benzene, 2-ethyl-1,4-Dimethyl-	FSCC	650	176
19	957	91-57-6	Naphthalene, 2-Methyl	FSCC	921	230
20	999	26471-62-5	Benzene, 1,3-Diisocyanato methyl-	FSCC	825	23

Sample 16 - frame building center sump

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

ORIGINAL (Red)

Sample Number C01123

ORGANICS ANALYSIS DATA SHEET - Page 1

F3-8201-24

RECEIVED MAR 24 1982 Chemistry and environment, Inc. Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 13007

QC Report No. 49-27, 50-27, 51-27

Signature of Person Authorized to Release Data: R. D. Wallis

ACID COMPOUNDS		ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

BASE/NEUTRAL COMPOUNDS		ug/ml ug/g (circle one)
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01123

Laboratory Name Mead CompuChem

Lab Sample ID NO. 13007

Case Number 883

QC Report No. 49-27,50-27,51-27

	VOLATILES	ug/ml or (ug/g) (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or (ug/g) (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 13007

SAMPLE NUMBER
C#883-801123

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.47	10	105
d-$_8$-Toluene	VOA	10.54	10	105
Fluorophenol	A	29.52	50	59
d-$_6$-Phenol	A	22.14	50	44
Pentafluorophenol	A	23.68	50	47
d-$_5$-Nitrobenzene	BN	50.80	50	102
Fluorobiphenyl	BN	43.76	50	88
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Base/Neutral surrogate recoveries for this sample are greater than normal. This results from a difference in the area of the internal standard used to calculate the surrogate quantity, as compared to the old standard's area.

Acid surrogate recoveries are normal for this method, and the worksheets indicate correct amounts of surrogates were spiked into the sample. The internal standard area used to calculate the surrogate quantities did not meet the criteria requiring reanalysis, when the value is compared to the internal standard area control charts, the internal standard response verification data sheets, or when response factors of the corresponding standard are compared to the initial multipoint calibration data. The surrogate recoveries are reported as is.

Paul Mills

Director, Quality Assurance

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Internal standard area control charts have been included in this report as required by the contract. Areas outside the stated control limits have triggered an examination of internal standard area ratios (as reported on the Internal Standard Response Verification data sheet), the comparison of raw areas in the affected sample to the corresponding standard, and the comparison of the response factors obtained for the corresponding standard to the initial multipoint calibration data. Corrective action is necessary only if one or more of those checks are outside the established control limits. If no corrective action is noted on the internal standard area control chart, all other factors were within limits and action was not required.

Patty L. Ragsdale
Quality Control Manager

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

Lab Name: Mead CompuChem Case No. 883

Lab Sample I.D. No. 13007

QC Report No: 49-27,50-27,51-27

Sample Number
C01123

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRAC-TION	% Pur.	Est. Conc.
1		None Found	BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20			ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

U.S. ENVIRONMENTAL PRO
P.O. Box 818, Alexandr

- Sample 17 - frame building N-sump -

Sample Number C01124

ORIGINAL (Red)

F3-8201-24

RECEIVED
MAR 24 1982
ecology and environment, inc.
Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 13006

QC Report No. 49-27, 50-27, 51-27

Signature of Person Authorized to Release Data: R. D. Wallert

	ACID COMPOUNDS	ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

	BASE/NEUTRAL COMPOUNDS	ug/ml ug/g (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01124

Laboratory Name Mead CompuChem

Lab Sample ID NO. 13006

Case Number 883

QC Report No. 49-27, 50-27, 51-27

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

	DIOXINS	
1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 13006

SAMPLE NUMBER
C#883-C01124

A. - SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	10.24	10	102
d-$_8$-Toluene	VOA	10.30	10	103
Fluorophenol	A	28.30	50	57
d-$_6$-Phenol	A	21.46	50	43
Pentafluorophenol	A	34.71	50	69
d-$_5$-Nitrobenzene	BN	47.22	50	94
Fluorobiphenyl	BN	39.63	50	79
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Internal standard area control charts have been included in this report as required by the contract. Areas outside the stated control limits have triggered an examination of internal standard area ratios (as reported on the Internal Standard Response Verification data sheet), the comparison of raw areas in the affected sample to the corresponding standard, and the comparison of the response factors obtained for the corresponding standard to the initial multipoint calibration data. Corrective action is necessary only if one or more of those checks are outside the established control limits. If no corrective action is noted on the internal standard area control chart, all other factors were within limits and action was not required.

Patty L. Ragsdale
Quality Control Manager

ORIGINAL

Lab Name: Mead CompuChem Case No. 883

Lab Sample I.D. No. 13006

QC Report No: 49-27,50-27,51-27

Sample Number
C01124

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Pur.	Est. Conc.
1		None-Found	BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20			ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Manage
P.O. Box 818, Alexandria, VA 22313 - 703/683-088

Sample Number C01125

ORIGINAL (Red)

F3-8201-24

ORGANICS ANALYSIS ... ge 1

Sample 18 - composite of 18" hole layers

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12

QC Report No. 44-38, 43-35, 45-35

Signature of Person Aut ... R. D. Nallet

ACID COMPOUNDS		ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	13TN

BASE/NEUTRAL COMPOUNDS		ug/ml ug/g (circle one)
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

BASE/NEUTRAL COMPOUNDS		ug/ml ug/g (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01125

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12990

Case Number 883

QC Report No. 44-38, 43-35, 45-35

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	15
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	5.3
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	3.6
79-01-6	trichloroethylene	4.5
75-01-4	vinyl chloride	1.5

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	75.3 P.C.
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL
(Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12990

SAMPLE NUMBER
C#883-C01125

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	9.32	10	93
d-$_8$-Toluene	VOA	9.50	10	95
Fluorophenol	A	25.54	50	51
d-$_6$-Phenol	A	20.05	50	40
Pentafluorophenol	A	24.14	50	48
d-$_5$-Nitrobenzene	BN	44.68	50	89
Fluorobiphenyl	BN	33.95	50	68
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Internal standard area control charts have been included in this report as required by the contract. Areas outside the stated control limits have triggered an examination of internal standard area ratios (as reported on the Internal Standard Response Verification data sheet), the comparison of raw areas in the affected sample to the corresponding standard, and the comparison of the response factors obtained for the corresponding standard to the initial multipoint calibration data. Corrective action is necessary only if one or more of those checks are outside the established control limits. If no corrective action is noted on the internal standard area control chart, all other factors were within limits and action was not required.

Patty L. Ragsdale
Quality Control Manager

ORIGINAL (Red)

V

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: GC/MS

CH883-C01125

LAB SAMPLE I.D. # EN012990C12

SAMPLE # 12990

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
✓ 1						
2	573	5989-27-5	Cyclohexene, 1-Methyl-4-(1-Methylethenyl) -, (R)-	VOA	853	45.0 EV
3	609	1195-79-5	Bicyclo[2.2.1]Hepten-2-one, 1,3,3,-Trimethyl	VOA	891	17.0
4	631	108-38-3	1,3-Dimethyl benzene	VOA	951	55.0
5	654	106-42-3	1,4-Dimethyl benzene	VOA	808	67.0
6	676	124-76-5	Bicyclo[2.2.1]Heptan-2-ol, 1,7,7-Trimethyl-, exo-	VOA	789	13.0
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORIGINAL (Red)

Acid

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead CompoChem

LAB SAMPLE I.D. # 12990

SAMPLE # C01125

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	402	55754-88-1	Benzene, 2,4-Dichloro-1-(4-chlorophenyl)methyl-	ACID	46	620 EV
2				ACID		x1% = 690 TN
3				ACID		
4				ACID		
5				ACID		
6				ACID		
7				ACID		
8				ACID		
9				ACID		
10				ACID		
11				ACID		
12				ACID		
13				ACID		
14				ACID		
15				ACID		
16				ACID		
17				ACID		
18				ACID		
19				ACID		
20				ACID		

ORIGINAL (Red)

Bw

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Comp Chem

LAB SAMPLE I.D. # 12990

CO 1125

SAMPLE # 12990

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)	TN
1	209	1632-73-1	1,3,3,-Trimethyl-Bicyclo[2.2.1]Heptan-2-ol	B/N	62	53	EV 59
2	225	54725-73-4	8-methyl-1,8-Nonanediol	B/N	63	54	=60
3	246	10482-56-1	Alpha.Alpha.,4-trimethyl-,(S)-3-Cyclohexene-1-methanol	B/N	74	360	=40
4	478	17851-53-5	Butyl 2-Methylpropylester-1,2-benzenedicarboxylicacid	B/N	82	17	=19
5	361	1667-01-2	1-(2,4,6-Trimethylphenyl)-ethanone	B/N	56	7.9	=9
6				B/N			
7				B/N			
8				B/N			
9				B/N			
10				B/N			

U.S. ENVIRONMENTAL PROTECTION AGENCY
P.O. Box 818, Alexandria, V

Sample 19 - SW runoff

DATA SHEET - Page 1

Sample Number C01126

ORIGINAL (Red)

F3-8201-24

RECEIVED
MAR 24 1982
Geotechnical Environmental Inc.
Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 13004

QC Report No. 49-27, 50-27, 51-27

Signature of Person Authorized to Release Data: [signature]

ACID COMPOUNDS		ug/ml ug/g (circle one)
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

BASE/NEUTRAL COMPOUNDS		
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

BASE/NEUTRAL COMPOUNDS		ug/ml ug/g (circle one)
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01126

ORIGINAL (Red)

Laboratory Name Mead CompuChem

Lab Sample ID NO. 13004

Case Number 883

QC Report No. 49-27, 50-27, 51-27

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U LT
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL (Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 13004

SAMPLE NUMBER

C#883-C01126

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	10.07	10	101
d-8-Toluene	VOA	10.16	10	102
Fluorophenol	A	27.84	50	56
d-6-Phenol	A	21.46	50	43
Pentafluorophenol	A	32.27	50	65
d-5-Nitrobenzene	BN	51.07	50	102
Fluorobiphenyl	BN	43.14	50	86
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

Lab Name: Mead CompuChem Case No. 883

Lab Sample I.D. No. 13004

QC Report No: 49-27, 50-27, 51-27

Sample Number C01126

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRAC-TION	% Pur.	Est. Conc.
1		None Found	BN		
2			BN		
3			BN		
4			BN		
5			BN		
6			BN		
7			BN		
8			BN		
9			BN		
10			BN		
11			ACID		
12			ACID		
13			ACID		
14			ACID		
15			ACID		
16			ACID		
17			ACID		
18			ACID		
19			ACID		
20			ACID		
21			VOA		
22			VOA		
23			VOA		
24			VOA		
25			VOA		
26			VOA		
27			VOA		
28			VOA		
29			VOA		
30			VOA		

U.S. ENVIRONMENTAL PROTECTION AGENCY-HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Bucks Steel Drum

Sample Number C5042

MD51

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 1

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 13459

QC Report No. 57-10, 56-10, 58-10

Signature of Person Authorized to Re[illegible]

Sample 20 - cinder block building drum spillage

	ACID	
88-06-2	2,4,6-[illegible]	[illegible]
59-50-7	p-chlo[illegible]-cresol	ND
95-57-8	2-chlorophenol	ND
122-83-2	2,4-dichlorophenol	ND
105-67-9	2,4-dimethylphenol	ND
88-75-5	2-nitrophenol	ND
100-02-7	4-nitrophenol	ND
51-88-5	2,4-dinitrophenol	ND
534-52-1	4,6-dinitro-o-cresol	ND
87-86-5	pentachlorophenol	ND
108-95-2	phenol	ND
(surrogate)	2-fluorophenol	620
(surrogate)	D_5-Phenol	LT

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	ND
92-87-5	benzidine	ND
120-82-1	1,2,4-trichlorobenzene	ND
118-74-1	hexachlorobenzene	ND
67-72-1	hexachloroethane	ND
111-44-4	bis(2-chloroethyl)ether	ND
91-58-7	2-chloronaphthalene	ND
95-50-1	1,2-dichlorobenzene	ND
541-73-1	1,3-dichlorobenzene	ND
106-46-7	1,4-dichlorobenzene	ND
91-94-1	3,3'-dichlorobenzidine	ND
121-14-2	2,4-dinitrotoluene	ND
606-20-2	2,6-dinitrotoluene	ND
	1,2-diphenylhydrazine	ND
122-66-7	(as azobenzene)	ND
206-44-0	fluoranthene	ND
7005-72-3	4-chlorophenyl phenyl ether	ND

	[illegible]UTRAL COMPOUNDS	ug/10 mls
[illegible]	[illegible]omophenyl phenyl ether	ND
39638-32-9	bis-(2-chloroisopropyl)ether	ND
111-91-1	bis(2-chloroethoxy)methane	ND
87-68-3	hexachlorobutadiene	ND
77-47-4	hexachlorocyclopentadiene	ND
78-59-1	isophorone	ND
91-20-3	naphthalene	ND
98-95-3	nitrobenzene	ND
	N-nitrosodimethylamine	ND
86-30-6	N-nitrosodiphenylamine	LT
621-64-7	N-nitrosodi-n-propylamine	ND
117-81-7	bis(2-ethylhexyl)phthalate	ND
85-68-7	butyl benzyl phthalate	ND
84-74-2	di-n-butyl phthalate	ND
117-84-0	di-n-octyl phthalate	ND
84-66-2	diethyl phthalate	ND
131-11-3	dimethyl phthalate	ND
56-55-3	benzo(a)anthracene	ND
50-33-8	benzo(a)pyrene	ND
205-99-2	3,4-benzofluoranthene	ND
207-08-9	benzo(k)fluoranthene	ND
318-01-9	chrysene	ND
208-96-8	acenaphthylene	ND
120-12-7	anthracene	ND
181-24-2	benzo(ghi)perylene	ND
86-73-7	fluorene	ND
85-01-8	phenanthrene	ND
53-70-3	dibenzo(a,h)anthracene	ND
183-39-5	indeno(1,2,3-cd)pyrene	ND
129-00-0	pyrene	ND
(surrogate)	D_5-Nitrobenzene	800
(surrogate)	Decaflorobiphenyl	LT
(surrogate)	D_{10} pyrene	LT

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number
C#883-C5042

Laboratory Name Mead CompuChem
Lab Sample ID NO. 13459

VOLATILES		mg/kg
107-02-8	acrolein	ND
107-13-1	acrylonitrile	ND
71-43-2	benzene	ND
56-23-5	carbon tetrachloride	ND
108-90-7	chlorobenzene	ND
107-06-2	1,2-dichloroethane	ND
71-55-6	1,1,1-trichloroethane	ND
75-34-3	1,1-dichloroethane	ND
79-00-5	1,1,2-trichloroethane	ND
79-34-5	1,1,2,2-tetrachloroethane	ND
75-00-3	chloroethane	ND
110-75-8	2-chloroethylvinyl ether	ND
67-66-3	chloroform	ND
75-35-4	1,1-dichloroethene	ND
156-60-5	1,2-trans-dichloroethene	ND
78-87-5	1,2-dichloropropane	ND
10061-20-6	cis-1,3-dichloropropene	ND
10061-01-05	trans-1,3-dichloropropene	ND
100-41-4	ethylbenzene	LT
75-09-2	methylene chloride	ND
74-87-3	chloromethane	ND
74-83-9	bromomethane	ND
75-25-2	bromoform	ND
75-27-4	dichlorobromomethane	ND
75-69-4	trichlorofluoromethane	ND
127-18-4	tetrachloroethylene	ND
108-88-3	toluene	ND
79-01-6	trichloroethylene	ND
75-01-4	vinyl chloride	ND

PESTICIDES		ug/oml
309-00-2	aldrin	ND
60-57-1	dieldrin	ND
57-74-9	chlordane	ND
50-29-3	4,4'-DDT	ND
72-55-9	4,4'-DDE	ND
72-54-8	4,4'-DDD	ND
115-29-7	endosulfan I	ND
115-29-7	endosulfan II	ND
1031-07-8	endosulfan sulfate	ND
78-20-8	endrin	ND
7421-43-4	endrin aldehyde	ND
76-44-8	heptachlor	ND
1024-57-3	heptachlor epoxide	ND
319-84-6	BHC-Alpha	ND
319-85-7	BHC-Beta	ND
319-86-8	BHC-Delta	ND
58-89-9	BHC-Gama	ND
53469-21-9	PCB-1242	ND
11097-69-7	PCB-1254	ND
11104-28-2	PCB-1221	ND
11141-16-5	PCB-1232	ND
12672-24-6	PCB-1248	ND
11096-82-5	PCB-1260	ND
12674-11-2	PCB-1016	ND
8001-35-2	toxaphene	ND

DIOXINS

1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

* Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL
(Red)

ORGANICS ANALYSIS DATA SHEET - Page 3

Lab Name: Mead CompuChem

EPA Case # 883

CompuChem # 13459

Sample Number C5042

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Concentration (Total ug)	(Surrogates only) Spike Added (ug)	% Recovery
d_6-Benzene	VOA	163	150	109
d_8-Toluene	VOA	173	150	115
1,4-Difluorobenzene	VOA	171	150	114
Pentafluorophenol	FSCC	SR, DXD	100	—
1,2,3,4-TCDD	TCDD	* 0	0.25	0

* NO RECOVERY AFTER CLEANUP

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: MRAD COMPUCHEM

LAB SAMPLE I.D. # 13459

SAMPLE # C#883-C5042

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	651	95-63-6	1,2,4-TRIMETHYLBENZENE	FSCC	82.	120 ug/10 mL EV
2	757	1120-21-4	UNDECANE	FSCC	84.	44.
3	762	124-19-6	NONANAL	FSCC	86.	94.
4	1255	629-78-7	HEPTADECANE	FSCC	80.	120.
5	1260	1921-70-6	2,6,10,14-TETRAMETHYLPENTADECANE	FSCC	82.	220.
6	1323	"	" " "	FSCC	60.	230.
7	1330	112-95-8	EICOSANE	FSCC	86.	470.
8	1383	638-67-5	TRICOSANE	FSCC	45.	220.
9	1387	629-99-2	PENTACOSANE	FSCC	71.	270.
10	1404	5129-60-2	METHYL, 14-METHYLPENTADECANOATE	FSCC	60.	330.
11	1448	112-95-8	EICOSANE	FSCC	73.	200.
12	1485	16587-34-1	4,9-DIMETHYLNAPHTHO(2,3-b)THIOPHENE	FSCC	56.	120.
13	1494	1560-89-0	2-METHYLHEPTADECANE	FSCC	57.	240.
14	1523	5129-61-3	METHYL, 16-METHYLHEPTADECANOATE	FSCC	52	650.
15	1553	544-77-4	1-IODOHEXADECANE	FSCC	41.	660.
16	1583	593-45-3	OCTADECANE	FSCC	70.	480.
17	1724	55401-55-3	11-DECYLDOCOSANE	FSCC	64.	1,100.
18				FSCC		
19				FSCC		
20				FSCC		

U.S. ENVIRONMENTAL ... Management Office
P.O. Box 818, Alexa... 703/683-0885

Sample Blank

ORIGINAL (Red)

Sample Number C01127

F3-8201-24

ORGANICS ANALYSIS DATA SHEET - Page 1

RECEIVED
MAR 24 1982
ecology and environmental ... Philadelphia

Laboratory Name Mead CompuChem

Case Number 883

Lab Sample ID NO. 12992

QC Report No. 49-27, 50-27, 51-27

Signature of Person Authorized to Release Data: [signature]

ug/ml (ug/g) (circle one)

	ACID COMPOUNDS	
88-06-2	2,4,6-trichlorophenol	10U
59-50-7	p-chloro-m-cresol	20U
95-57-8	2-chlorophenol	10U
122-83-2	2,4-dichlorophenol	10U
105-67-9	2,4-dimethylphenol	10U
88-75-5	2-nitrophenol	10U
100-02-7	4-nitrophenol	90U
51-88-5	2,4-dinitrophenol	40U
534-52-1	4,6 dinitro-o-cresol	20U
87-86-5	pentachlorophenol	25U
108-95-2	phenol	10U

	BASE/NEUTRAL COMPOUNDS	
83-32-9	acenaphthene	10U
92-87-5	benzidine	25U
120-82-1	1,2,4-trichlorobenzene	10U
118-74-1	hexachlorobenzene	10U
67-72-1	hexachloroethane	10U
111-44-4	bis(2-chloroethyl)ether	10U
91-58-7	2-chloronaphthalene	10U
95-50-1	1,2-dichlorobenzene	10U
541-73-1	1,3-dichlorobenzene	10U
106-46-7	1,4-dichlorobenzene	10U
91-94-1	3,3'-dichlorobenzidine	10U
121-14-2	2,4-dinitrotoluene	10U
606-20-2	2,6-dinitrotoluene	10U
	1,2-diphenylhydrazine	10U
122-66-7	(as azobenzene)	10U
206-44-0	fluoranthene	10U
7005-72-3	4-chlorophenyl phenyl ether	10U

ug/ml (ug/g) (circle one)

	BASE/NEUTRAL COMPOUNDS	
101-55-3	4-bromophenyl phenyl ether	10U
39638-32-9	bis-(2-chloroisopropyl)ether	10U
111-91-1	bis(2-chloroethoxy)methane	10U
87-68-3	hexachlorobutadiene	10U
77-47-4	hexachlorocyclopentadiene	10U
78-59-1	isophorone	10U
91-20-3	naphthalene	10U
98-95-3	nitrobenzene	10U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	10U
621-64-7	N-nitrosodi-n-propylamine	10U
117-81-7	bis(2-ethylhexyl)phthalate	10U
85-68-7	butyl benzyl phthalate	10U
84-74-2	di-n-butyl phthalate	10U
117-84-0	di-n-octyl phthalate	10U
84-66-2	diethyl phthalate	10U
131-11-3	dimethyl phthalate	10U
56-55-3	benzo(a)anthracene	10U
50-33-8	benzo(a)pyrene	10U
205-99-2	3,4-benzofluoranthene	25U
207-08-9	benzo(k)fluoranthene	10U
318-01-9	chrysene	10U
208-96-8	acenaphthylene	10U
120-12-7	anthracene	10U
181-24-2	benzo(ghi)perylene	25U
86-73-7	fluorene	10U
85-01-8	phenanthrene	25U
53-70-3	dibenzo(a,h)anthracene	25U
183-39-5	indeno(1,2,3-cd)pyrene	25U
129-00-0	pyrene	25U

ORIGINAL (Red)

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C01127

Laboratory Name Mead CompuChem

Lab Sample ID NO. 12992

Case Number 883

QC Report No. 49-27, 50-27, 51-27

	VOLATILES	ug/ml or ug/g (Circle One)
107-02-8	acrolein	10U
107-13-1	acrylonitrile	10U
71-43-2	benzene	1U
56-23-5	carbon tetrachloride	1U
108-90-7	chlorobenzene	1U
107-06-2	1,2-dichloroethane	1U
71-55-6	1,1,1-trichloroethane	1U
75-34-3	1,1-dichloroethane	1U
79-00-5	1,1,2-trichloroethane	1U
79-34-5	1,1,2,2-tetrachloroethane	1U
75-00-3	chloroethane	1U
110-75-8	2-chloroethylvinyl ether	1U
67-66-3	chloroform	1U
75-35-4	1,1-dichloroethene	1U
156-60-5	1,2-trans-dichloroethene	1U
78-87-5	1,2-dichloropropane	1U
10061-0X-XX	1,3-dichloropropiene	1U
100-41-4	ethylbenzene	1U
75-09-2	methylene chloride	1U
74-87-3	chloromethane	1U
74-83-9	bromomethane	1U
75-25-2	bromoform	1U
75-27-4	dichlorobromomethane	1U
75-69-4	trichlorofluoromethane	1U
75-71-8	dichlorodifluoromethane	1U
124-48-1	chlorodibromomethane	1U
127-18-4	tetrachloroethylene	1U
108-88-3	toluene	1U
79-01-6	trichloroethylene	1U
75-01-4	vinyl chloride	1U

	PESTICIDES	ug/ml or ug/g (Circle One)
309-00-2	aldrin	0.1U
60-57-1	dieldrin	0.1U
57-74-9	chlordane	0.1U
50-29-3	4,4'-DDT	0.1U
72-55-9	4,4'-DDE	0.1U
72-54-8	4,4'-DDD	0.1U
115-29-7	endosulfan I	0.1U
115-29-7	endosulfan II	0.1U
1031-07-8	endosulfan sulfate	0.1U
78-20-8	endrin	0.1U
7421-43-4	endrin aldehyde	0.1U
76-44-8	heptachlor	0.1U
1024-57-3	heptachlor epoxide	0.1U
319-84-6	BHC-Alpha	0.1U
319-85-7	BHC-Beta	0.1U
319-86-8	BHC-Delta	0.1U
58-89-9	BHC-Gama	0.1U
53469-21-9	PCB-1242	0.1U
11097-69-7	PCB-1254	0.1U
11104-28-2	PCB-1221	0.1U
11141-16-5	PCB-1232	0.1U
12672-24-6	PCB-1248	0.1U
11096-82-5	PCB-1260	0.1U
12674-11-2	PCB-1016	0.1U
8001-35-2	toxaphene	0.4U

	DIOXINS	
1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

*Less than 10 ug/l

(pesticides less than, 0.1 ug/l)

ORIGINAL
(Red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 12992

SAMPLE NUMBER
C#883-C01127

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-$_6$-Benzene	VOA	9.81	10	98
d-$_8$-Toluene	VOA	9.85	10	99
Fluorophenol	A	29.97	50	60
d-$_6$-Phenol	A	24.09	50	48
Pentafluorophenol	A	31.11	50	62
d-$_5$-Nitrobenzene	BN	59.78	50	120
Fluorobiphenyl	BN	24.00	50	48
A & BN Surrogates recoveries				
adjusted by 10/9, volume				
change.				

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

EPA sample number C01127, CompuChem sample number 12992, was found to have the compounds listed below. The EPA Traffic Report indicates this sample was prepared as an EPA blank. Since CompuChem blanks do not show the presence of these compounds, they are considered contaminants introduced during the cleaning of the sample containers and/or the sampling process and/or the shipping process. The following compounds should be considered contaminants if they are reported in other samples for this case, Case # 883.

Paul Miller

Director, Quality Assurance

Fraction	Compound
B/N	Imidodicarbonimidicdiamide, N-(4-Chlorophenyl)-N'-(1-Methylethyl)-
B/N	Benzamide, N-Propyl

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

Base/Neutral surrogate recoveries for this sample are greater than normal. This results from a difference in the area of the internal standard used to calculate the surrogate quantity, as compared to the old standard's area.

Acid surrogate recoveries are normal for this method, and the worksheets indicate correct amounts of surrogates were spiked into the sample. The internal standard area used to calculate the surrogate quantities did not meet the criteria requiring reanalysis, when the value is compared to the internal standard area control charts, the internal standard response verification data sheets, or when response factors of the corresponding standard are compared to the initial multipoint calibration data. The surrogate recoveries are reported as is.

Paul Mills

Director, Quality Assurance

ORIGINAL (Red)

Bm

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: _____

LAB SAMPLE I.D. # 12992

SAMPLE # C01127

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g) TN
1	434	500-92-5	Imidodicarbonimidic diamide, N-C4-chlorophenyl	B/N	35	9.1 EV 10/9 x 10/9 = 1
2	630	10546-70-6	Benzamide, N-Propyl	B/N	81	28 x 10/9 = 31
3				B/N		
4				B/N		
5				B/N		
6				B/N		
7				B/N		
8				B/N		
9				B/N		
10				B/N		
11				B/N		
12				B/N		
13				B/N		
14				B/N		
15				B/N		
16				B/N		
17				B/N		
18				B/N		
19				B/N		
20				B/N		

ORIGINAL (Red)

INORGANICS QUALITY ASSURANCE

RMA Q.C. REPORT # 69

(WATERS)

RECEIVED MAR 18 1982 E. P. A. PENNSYLVANIA BRANCH REGION III PHILA. PA.

Q. C. Report Key: Bucks Steel Drum MD-51

Cases(s): 883-SAS124C

F3-8201-24

Sample #: MCO 8760 MCO 8768 Beth Gross

MCO 8761

MCO 8764

MCO 8765

MCO 8767

RECEIVED MAR 31 1982 ecology and environment, inc. Philadelphia

Contract Required Detection Limits

Task 1:

(mg/l)		(mg/kg)
0.010	Ag	1
0.200	Al	20
0.100	B	10
0.100	Ba	10
0.005	Be	0.5
0.010	Cr	1
0.050	Co	5
0.050	Cu	5
0.050	Fe	5
0.010	Mn	1
0.040	Ni	4
0.200	V	20
0.010	Zn	1

Task 2:

(mg/l)		(mg/kg)
0.010	As	1
0.001	Cd	0.1
0.0002	Hg	0.02
0.005	Pb	0.5
0.020	Sb	2
0.002	Se	0.2
0.020	Sn	2
0.010	Tl	1

Task 3:

(mg/l)		(mg/kg)
0.1	NH_3	10
0.01	CN^{-1}	1
0.05	S^{-2}	5

Footnotes:

(1) Detection limit raised due to sample matrix interference.
(2) Sample interference precluded analysis.
(3) Detection limit raised due to small volume of sample, necessitating dilution prior to analysis.

RMA Quality Control Report # 69 Case(s) 883-SA3124C No. of Samples 8 Date 15 MAR 82

Task 1: mg/l or mg/kg Task 2: mg/l or mg/kg

		Ag	Al	B	Ba	Be	Co	Cr	Cu	Fe	Mn	Ni	V	Zn	As	Cd	Hg	Pb	Sb	Se	Sh	T
eference Std	Found	—	.34	.88	.44	.10	.26	.25	.20	.34	.26	.13	.11	.34	.052	.10	.017	.12	.083	.026	.080	.0
urce ERA 8301	True	—	.31	.95	.44	.10	.26	.25	.20	.34	.26	.13	.12	.34	.049	.090	.0019	.12	.088	.026	.075	<
	% Recovery	—	110	93	100	100	100	100	100	100	100	100	92	100	106	111	89	100	106	100	107	8
ep Blank	Result	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	A
uplicate mple	Sample Result	ND	ND	.13	ND	ND	ND	.020	ND	ND	ND	ND	ND	ND	ND	ND	ND	.007	ND	ND	ND	A
. MC08760	Duplicate Result	ND	ND	.14	ND	ND	ND	.020	ND	ND	ND	ND	ND	ND	ND	ND	ND	.007	ND	ND	ND	N
	RPD %	—	—	7.4	—	—	—	0	—	—	—	—	—	—	—	—	—	0	—	—	—	—
iked mple	Dilution Factor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
. MC08761	Sample Result	<.01	<0.2	.28	.30	<.005	<.05	<.01	<.05	<.05	<.01	<.04	<.002	<.01	<.002	<.001	<.0012	.009	.001	<.002	<.04	<.0
	Spike Result	.50	.50	.65	.80	.49	.50	.50	.50	.50	.50	.50	.018	.50	.022	.50	.0010	.028	.022	.017	.019	.01
	Spike Added	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.020	.50	.020	.50	.0010	.020	.020	.020	.020	.02
	% Recovery	100	100	74	100	98	100	100	100	100	100	100	90	100	110	100	100	95	90	85	95	91
EAGENT BLANK	#1 Conc	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.000	.00	.000	0.00	.00	.000	.000	.000	.000	.00
	#2 Conc	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.000	.00	.000	0.00	.00	.000	.000	.000	.000	.00
sitivity	Std #1 Conc	.50	.50	.30	.50	.50	.50	.50	.50	.50	.50	.50	.050	.50	.050	.25	.0005	.50	.050	.050	.050	.05
	Std #1 Abs	.100	.004	.090	.019	.101	.061	.075	.067	.060	.102	.059	.091	.095	.091	.160	.025	.016	.100	.102	.075	.10
	Std #2 Conc	1.0	1.0	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.100	1.0	.100	.50	.0010	1.0	.100	.100	.100	.10
	Std #2 Abs	.200	.008	.146	.038	.202	.120	.150	.133	.120	.204	.118	.178	.190	.182	.319	.051	.032	.200	.203	.151	.20
	Std. #3 Conc	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	—	2.0	—	1.0	.0020	2.0	—	—	—	—
	Std. #3 Abs	.398	.016	.328	.075	.403	.240	.298	.265	.239	.405	.235	—	.379	—	.639	.101	.064	—	—	—	—
ncentration ibration ack	Found	1.0	1.0	—	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	1.0	—	1.0	—	1.0	—	—	—	—
	True	1.0	1.0	—	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	1.0	—	1.0	—	1.0	—	—	—	—

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. 883-SA312VC QC Report No. 69

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
MCO 8760	1706-13	ND	ND	0.13	ND	ND	0.020	ND	ND	ND	ND	ND	ND	ND
MCO 8761	14	↓	↓	0.28	.30	↓	ND	↓	ND	ND	ND	↓	↓	ND
MCO 8764	15	↓	↓	~~0.58~~ 0.59	ND	↓	ND	↓	ND	0.23	ND	↓	↓	0.035
MCO 8765	16	↓	↓	0.20	ND	↓	0.020	↓	0.090	0.11	0.030	↓	↓	0.24
MCO 8767	17	↓	↓	0.23	ND	↓	ND	↓	ND	ND	ND	↓	↓	0.050
MCO 8768	18	↓	↓	ND	ND	↓	ND	↓	ND	ND	ND	↓	↓	ND

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

EPA Sample No.	RMA Sample No.	As	Cd	Hg	Pb	Sb	Se	Sn	Tl
MCO 8760	1706-13	ND	ND	ND	0.007	ND	ND	ND	ND
MCO 8761	14	↓	ND	↓	0.009	↓	↓	↓	↓
MCO 8764	15	↓	0.002	↓	0.010	↓	↓	↓	↓
MCO 8765	16	↓	0.006	↓	0.052	↓	↓	↓	↓
MCO 8767	17	↓	0.004	↓	0.006	↓	↓	↓	↓
MCO 8768	18	↓	ND	↓	ND	↓	↓	↓	↓

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

CN	NH_3	S
N		A

ORIGINAL (Red)

INORGANICS QUALITY ASSURANCE

RMA Q.C. REPORT # 68
(Soils)

Q. C. Report Key:

Cases(s): 883 - SAS 124C

Sample #:

MC08751	MC08756	MC08763	
MC08752	MC08757	MC08766	
MC08753	MC08758		
MC08754	MC08759		
MC08755	MC08762		

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Contract Required Detection Limits

Task 1:

(mg/l)		(mg/kg)
0.010	Ag	1
0.200	Al	20
0.100	B	10
0.100	Ba	10
0.005	Be	0.5
0.010	Cr	1
0.050	Co	5
0.050	Cu	5
0.050	Fe	5
0.010	Mn	1
0.040	Ni	4
0.200	V	20
0.010	Zn	1

Task 2:

(mg/l)		(mg/kg)
0.010	As	1
0.001	Cd	0.1
0.0002	Hg	0.02
0.005	Pb	0.5
0.020	Sb	2
0.002	Se	0.2
0.020	Sn	2
0.010	Tl	1

Task 3:

(mg/l)		(mg/kg)
0.1	NH_3	10
0.01	CN^{-1}	1
0.05	S^{-2}	5

Footnotes:

(1) Detection limit raised due to sample matrix interference.
(2) Sample interference precluded analysis.
(3) Detection limit raised due to small volume of sample, necessitating dilution prior to analysis.

RMA Quality Control Report # 6E Case(s) 883-124C No. of Samples 14 Date 15 MAR 82

Task 1: mg/l or mg/kg Task 2: mg/l or mg/kg

		Ag	Al	B	Ba	Be	Co	Cr	Cu	Fe	Mn	Ni	V	Zn	As	Cd	Hg	Pb	Sb	Se	Sh	T
eference Std	Found	—	.34	.88	.44	.10	.26	.25	.20	.34	.26	.13 ~~.25~~	.11	.34	.052	.10	.0017	.12	.093	.026	.080	.0
ource ERA 8301	True	—	.31	.95	.44	.10	.26	.25	.20	.34	.26	.13	.12	.34	.049	.090	.0019	.12	.088	.026	.075	.0
	% Recovery	—	110	93	100	100	100	100	100	100	100	100	92	100	106	111	89	100	106	100	107	8
ep Blank	Result	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	/
uplicate mple	Sample Result	ND	1000	14	65	ND	8.0	16	150	1500	220	11	41	1500	5.6	7.9	ND	380	ND	ND	ND	N
. MC08751	Duplicate Result	ND	1100	13	65	ND	8.0	28	170	1500	220 ~~200~~ 3m	11	50	1800	7.4	9.0	ND	400	ND	ND	ND	N
	RPD %	—	9.5	7.4	0	—	0	54.5	12.5	0	0	0	20	18.1	28	13	—	5.1	—	—	—	-
piked mple	Dilution Factor	100	1K	100	100	100	100	100	1K	10K	1K	100	100	10K	100	100	100	100	100	100	100	1
MC08752	Sample Result	.025	3.3	.26	1.8	<.005	.070	.32	.76	1.1	.50	.52	.174	.29	.016	.11	<.002	.89	.015	<.002	<.002	<.0
	Spike Result	.48	3.7	.78	2.3	.43	.55	.82	1.2	1.6	1.0	1.0	.200	.80	.036	.60	.0010	1.4	.036	.017	.022	.0
	Spike Added	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.020	.50	.020	.50	.0010	0.50	.020	.020	.020	.02
	% Recovery	91	80	104	100	86	96	100	88	100	100	96	130	102	100	98	100	100	105	85	110	9
REAGENT BLANK	#1 Conc	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.000	0.00	.000	0.00	.00	.00	.000	.000	.000	.00
	#2 Conc	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.000	0.00	.000	0.00	.00	.00	.000	.000	.000	.00
sitivity	Std #1 Conc	.50	.50	.30	.50	.50	.50	.50	.50	.50	.50	.50	.050	.50	.050	.25	.0005	.50	.050	.050	.050	.05
	Std #1 Abs	.100	.004	.090	.019	.101	.061	.075	.067	.060	.102	.059	.091	.095	.091	.160	.025	.016	.100	.102	.075	.10
	Std #2 Conc	1.0	1.0	.50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	.100	1.0	.100	.50	.0010	1.0	.100	.100	.100	.10
	Std #2 Abs	.200	.008	.146	.038	.202	.120	.150	.133	.120 ~~.060~~	.204	.118	.178	.190	.182	.319	.051	.032	.200	.203	.151	.24
	Std. #3 Conc	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	—	2.0	—	1.0	.0020	2.0	—	—	—	—
	Std. #3 Abs	.398	.016	.228	.075	.403	.240	.298	.265	.239 ~~.100~~	.405	.235	—	.379	—	.639	.101	.064	—	—	—	—
ncentration ibration	Found	1.0	1.0	—	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	1.0	—	1.0	—	1.0	—	—	—	—
ck	True	1.0	1.0	—	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	—	1.0	—	1.0	—	1.0	—	—	—	—

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. 883-SA8124C QC Report No. 68

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				
MCO 8751	1706 - 01	ND	1000	14	65	ND	16	8.0	150	1500	220	11	41	1500				
MCO 8752	02	2.5	3300	26	180		32	7.0	760	11000	500	52	ND	2900				
MCO 8753	03	ND	700	16	400		140	7.1	150	1100	130	11	ND	7800				
MCO 8754	04	ND	950	16	530		78	25	110	3600	160	49	46	3200				
MCO 8755	05	ND	1800	ND	370		59	14	200	5800	150	22	ND	1700				
MCO 8756	06	ND	1400	ND	290		47	19	350	14000	190	21	35	1500				
MCO 8757	07	ND	1100	13	290		87	39	1900	10000	170	43	ND	4700				
MCO 8758	08	ND	900	12	170		41	15	150	6400	130	25	38	1600				
MCO 8759	09	ND	1000	17	200		57	20	190	7800	130	18	43	2200				
MCO 8762	10	ND	300	10	80		5.0	10	18	2700	90	18	ND	2100				

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

EPA Sample No.	RMA Sample No.	As	Cd	Hg	Pb	Sb	Se	Sn	Tl
MCO 8751	1706 - 01	5.6	7.9	ND	380	ND	ND	ND	ND
MCO 8752	02	1.6	11		890	ND			
MCO 8753	03	1.0	3.0		1700	ND			
MCO 8754	04	1.2	7.9		1900	5.1			
MCO 8755	05	1.1	6.0		1700	ND			
MCO 8756	06	2.8	6.9		1400	ND			
MCO 8757	07	4.5	8.5		1600	ND			
MCO 8758	08	ND	4.9		1200	ND			
MCO 8759	09	1.8	6.8		1200	ND			
MCO 8762	10	5.2	3.0		620	ND			

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

CN	NH_3	S
	N	
		A

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. 883-SAS124C QC Report No. 68

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				
MC08763	1706-11	ND	300	10	ND	ND	3.9	ND	25	770	30	ND	ND	350				
MC08766	-12	ND	600	19	80	ND	27	7.8	42	3800	120	13	ND	1500				

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

EPA Sample No.	RMA Sample No.	As	Cd	Hg	Pb	Sb	Se	Sn	Tl
MC08763	1706-11	ND	0.8	ND	110	ND	ND	ND	ND
MC08766	-12	ND	2.8	ND	640	ND	ND	ND	ND

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

CN	NH_3	S
N		
	A	

ORIGINAL (Red)

Sample 14 - frame building S-sump

D245

ORIGINAL (Red)

TOTAL metals

REGION III, U.S. ENVIRONMENTAL PROTECTION AGENCY

From N.E.I.C.

WHEELING FIELD OFFICE

ANALYSIS REQUEST AND RESULT FORM

PERMIT # 0 SAMPLE # 633-256 LAB# 8203163136 OUTFALL #
SOURCE Duck Steel Drum -NEIC- BASIN
LOCATION FRAM Bldg Sump SW NO. OF CONTAINERS
RECEIVING STREAM COUNTY STATE
SAMPLE: WATER SEDMT INFLNT EFF. TIDE: EBB FLOOD NONE
GAGE HEIGHT SAMPLER WITNESS
FIELD METER NO.: PH COND D.O FLOW

STORET STATION NO.: SC, , ☐ DEPTH: D , (DATE-TIME YYMMDDTTTT)
☐ GRAB:DATE-TIME 820917 1335, ☐ COMP (2) , ,
COMPOSITE ☐ Flow Prop., ☐ Sequential, ☐ Simple SAMPLE SPLIT No. ☐ Co. ☐ STATE

0.104g / 1.00g

ANALYSIS	RESULTS		ANALYSIS	RESULTS		ANALYSIS	RESULTS
P10 Temp. (Water) °C			P500 Total, mg/l S		✓	P929 Tot.Na, mg/l	10,000
P400 pH			P70300 O Dissol. mg/l L		✓	P1105 Tot. Al, ug/l	800
P95 Cond., umhos/cm			P530 I Suspend. mg/l D		✓	P1097 Tot. Sb. ug/l	22
P300 D.O., mg/l			P505 S Vol., mg/l		✓	P1002 Tot. As, ug/l	7.0
P[illegible] % SAT.			P38260 MBAS, mg/l		✓	P1007 Tot. Ba, ug/l	<100
P61 Flow, cfs			P32730 Phenols, ug/l		✓	P1027 Tot. Cd, ug/l	35
P58 Flow, gpm			P720 Cyanide, mg/l		✓	P1034 Tot. Cr. ug/l	35
P70508 Acidity, mg/l (H)			P1032 Hex. Cr. ug/l		✓	P1042 Tot.Cu. ug/l	110
P410 Alkalinity, mg/l			P550 Oil-Grease, mg/l		✓	P1045 Tot. Fe, ug/l	2900
P900 Hardness, mg/l			P950 Fluoride, mg/l		✓	P1051 Tot.Pb, ug/l	90
P945 Sulfate, mg/l			P665 Total, mg/l P		✓	P1055 Tot. Mn, ug/l	140
P80 Color PT-CO U.			P666 H Dis., mg/l O			P71900 Tot. Hg, ug/l	
P70 Turbidity, JCU			P660 S Ortho, PO4, mg/l		✓	P1067 Tot. Ni, ug/l	120
P940 Chloride, mg/l			P625 TKN, mg/l			P1147 Tot. Se, ug/l	
P310 BOD5, mg/l			P610 NH3-N, mg/l		✓	P1077 Tot. Ag, ug/l	<10
P324 BOD20, mg/l			P605 ORG.-N, mg/l		✓	P1087 Tot. V, ug/l	<100
P335 COD, mg/l			P620 NO3-N, mg/l		✓	P1092 Tot. Zn, ug/l	210
P680 TOC, mg/l			P615 NO2-N, mg/l			P535 Solids, Vol Non-F	
P31501			P916				

ORIGINAL
(Red)

LIST OF COMMONLY USED FOOTNOTES FOR COMMERCIAL AND EPA

II Indistingushable isomers.

I Presence indicated by extracted ion current profile; definitive spectra not obtainable due to interference.

Q Quantiatated from secondary ion.

CI Concentration estimated; interferences present with primary quantitation ions.

D Sample analysis using a _____ dilution.

SE Sample extract could not be concentrated to 1.0 ml, thus the detection limits are higher than normal.

DL Detection limits are adjusted to show change in sample quantity processed. The surrogate recoveries are not available.

SR Surrogate recoveries are not available because it was necessary to dilute the extract, based on GC screening results.

SC Suspected laboratory contaminant.

LT Less than the specified detection limit but greater than one half of the detection limit (present but BDL).

EV Estimated value (previously j) in house note: This footnote may not be used for PP compounds.

H Volatile vial received with headspace.

SV Amount corrected for sample volume.

TN Acid & BN recoveries adjusted 10/9 for volume change. (medium level 026 only)

DC Compound calculated from a _____ dilution.

CR Compound calculated using total RIC area. All secondary ions saturated.

PC Pesticide or PCB confirmed by GC/MS.

PN Pesticide or PCB cannot be confirmed by GC/MS.

ORIGINAL
(Red)

QUALITY CONTROL NOTICE

The peak at scan # 369 is an extra internal standard which was added to this sample, but was not used for quantitation.

Patty L. Ragsdale
Quality Control Manager

VOA

ORIGINAL

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compu/Chem

LAB SAMPLE I.D. # 13459

SAMPLE # C#883-C5042 13459

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	669	95-47-6	1, 2 dimethyl benzene	VOA	92.5	41.7 mg/kg EV
2				VOA		
3				VOA		
4				VOA		
5				VOA		
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORIGINAL (Red)

REGION III, U.S. ENVIRONMENTAL PROTECTION AGENCY

From NEIC

WHEELING FIELD OFFICE

ANALYSIS REQUEST AND RESULT FORM

Total Metals

PERMIT # _____ SAMPLE # 653257 LAB# 8203163137 OUTFALL # _____

SOURCE Rust Steel Drum Drum from Frame Bldg. BASIN _____

LOCATION _____ NO. OF CONTAINERS _____

RECEIVING STREAM _____ COUNTY _____ STATE _____

SAMPLE: WATER _____ SEDMT _____ INFLNT _____ EFF. _____ TIDE: EBB _____ FLOOD _____ NONE _____

GAGE HEIGHT _____ SAMPLER _____ WITNESS _____

FIELD METER NO.: PH _____ COND. _____ D.O. _____ FLOW _____

SAMPLE STATION NO.: SC, _____, ☐ DEPTH: D _____, (DATE-TIME YYMMDDTTTT) _____

☐ GRAB: DATE-TIME 8202191340, ☐ COMP (2) _____, _____, _____

COMPOSITE ☐ Flow Prop., ☐ Sequential, ☐ Simple SAMPLE SPLIT No. ☐ Co. ☐ STATE _____

0.100g / 1.00

ANALYSIS	RESULTS		ANALYSIS	RESULTS		ANALYSIS	RESULTS
P10 Temp. (Water) °C			P500 Total, mg/l S			P929 Tot.Na, ~~ug~~ mg/l	5100
P400 pH			P70300 Dissol. mg/l O L			P1105 Tot. Al, ug/l	19000
P95 Cond., umhos/cm			P530 Suspend. mg/l I D			P1097 Tot. Sb. ug/l	45
P300 D.O., mg/l			P505 Vol., mg/l S			P1002 Tot. As, ug/l	15
P301 . SAT.			P38260 MBAS, mg/l			P1007 Tot. Ba, ug/l	900
P01 Flow, cfs			P32730 Phenols, ug/l			P1027 Tot. Cd, ug/l	30
P58 Flow, gpm			P720 Cyanide, mg/l			P1034 Tot. Cr. ug/l	250
P70508 Acidity, mg/l (H)			P1032 Hex. Cr. ug/l			P1042 Tot.Cu. ug/l	520
P410 Alkalinity, mg/l			P550 Oil-Grease, mg/l			P1045 Tot. Fe, ug/l	81000
P900 Hardness, mg/l			P950 Fluoride, mg/l			P1051 Tot.Pb, ug/l	660
P945 Sulfate, mg/l			P665 Total, mg/l P			P1055 Tot. Mn, ug/l	890
P80 Color PT-CO U.			P666 Dis., mg/l H O			P71900 Tot. Hg, ug/l	
P70 Turbidity, JCU			P660 Ortho, PO4, mg/l S			P1067 Tot. Ni, ug/l	210
P940 Chloride, mg/l			P625 TKN, mg/l			P1147 Tot. Se, ug/l	
P310 BOD5, mg/l			P610 NH3-N, mg/l			P1077 Tot. Ag, ug/l	<10
P324 BOD20, mg/l			P605 ORG.-N, mg/l			P1087 Tot. V, ug/l	<100
P335 COD, mg/l			P620 NO3-N, mg/l			P1092 Tot. Zn, ug/l	2400
P680 TOC, mg/l			P615 NO2-N, mg/l			P535 Solids, Vol Non-F	
P31501			P916				

Sample 15 - drum (frame building)

ORIGINAL (Red)

REGION III, U.S. ENVIRONMENTAL PROTECTION AGENCY

WHEELING FIELD OFFICE

ANALYSIS REQUEST AND RESULT FORM

Total Hg

PERMIT # _____ SAMPLE # 633257 LAB# 8203163137 OUTFALL # _____
SOURCE _____
LOCATION _____ BASIN _____
RECEIVING STREAM _____ NO. OF CONTAINERS _____
SAMPLE: WATER _____ SEDMT _____ INFLNT _____ EFF. _____ COUNTY _____ STATE _____ TIDE: EBB _____ FLOOD _____ NONE _____
GAGE HEIGHT _____ SAMPLER _____ WITNESS _____
FIELD METER NO.: PH _____ COND. _____ D.O. _____ FLOW _____

ST T STATION NO.: SC, _____, ☐ DEPTH: D _____, (DATE-TIME YYMMDDTTTT) _____
GRAB: DATE-TIME _____, ☐ COMP (2) _____, _____, _____
COMPOSITE ☐ Flow Prop., ☐ Sequential, ☐ Simple SAMPLE SPLIT No. ☐ Co. ☐ STATE _____

C-1 0.11g/10ml C-2 0.12g/1

ANALYSIS	RESULTS		ANALYSIS	RESULTS		ANALYSIS	RESULTS
P10 Temp. (Water) °C			P500 Total, mg/l S			P929 Tot.Na, mg/l	
P400 pH			P70300 O Dissol. mg/l L			P1105 Tot. Al, ug/l	
P95 Cond., umhos/cm			P530 I Suspend. mg/l D			P1097 Tot. Sb. ug/l	
P300 D.O., mg/l			P505 S Vol., mg/l			P1002 Tot. As, ug/l	
P301 BOD SAT.			P38260 MBAS, mg/l			P1007 Tot. Ba, ug/l	
P6 Flow, cfs			P32730 Phenols, ug/l			P1027 Tot. Cd, ug/l	
P58 Flow, gpm			P720 Cyanide, mg/l			P1034 Tot. Cr, ug/l	
P70508 Acidity, mg/l (H)			P1032 Hex. Cr. ug/l			P1042 Tot.Cu. ug/l	
P410 Alkalinity, mg/l			P550 Oil-Grease, mg/l			P1045 Tot. Fe, ug/l	
P900 Hardness, mg/l			P950 Fluoride, mg/l			P1051 Tot.Pb, ug/l	
P945 Sulfate, mg/l			P665 Total, mg/l P			P1055 Tot. Mn, ug/l	
P80 Color PT-CO U.			P666 H Dis., mg/l O		✓	P71900 C-1 Tot. Hg, ug/l	50
P70 Turbidity, JCU			P660 S Ortho, PO4, mg/l			P1067 Tot. Ni, ug/l	
P940 Chloride, mg/l			P625 TKN, mg/l			P1147 Tot. Se, ug/l	
P310 BOD5, mg/l			P610 NH3-N, mg/l			P1077 Tot. Ag, ug/l	
P324 BOD20, mg/l			P605 ORG.-N, mg/l			P1087 Tot. V, ug/l	
P335 COD, mg/l			P620 NO3-N, mg/l			P1092 Tot. Zn, ug/l	
P680 TOC, mg/l			P615 NO2-N, mg/l			P535 Solids, Vol Non-F	
P31501			P916				

Sample 20 - cinder block building
drum spillage

ORIGINAL
(Red)

REGION III, U.S. ENVIRONMENTAL PROTECTION AGENCY

WHEELING FIELD OFFICE

TOTAL METALS

ANALYSIS REQUEST AND RESULT FORM

PERMIT # SAMPLE #633258 LAB#8203163140 OUTFALL #
SOURCE Buck Steel Drum Leakage from Drum Cinder Block BASIN
LOCATION NO. OF CONTAINERS
RECEIVING STREAM COUNTY STATE
SAMPLE: WATER SEDMT INFLNT. EFF. TIDE: EBB FLOOD NONE
GAGE HEIGHT SAMPLER WITNESS
FIELD METER NO.: PH COND. D.O. FLOW

ST T STATION NO.: SC, , ☐ DEPTH: D , (DATE-TIME YYMMDDTTTT)
☐ GRAB:DATE-TIME 820219 1445 , ☐ COMP (2) , ,
COMPOSITE ☐ Flow Prop., ☐ Sequential, ☐ Simple SAMPLE SPLIT No. ☐ Co. ☐ STATE

0.112g / 1.01g

ANALYSIS	RESULTS		ANALYSIS	RESULTS		ANALYSIS	RESULTS
P10 Temp. (Water) °C			P500 Total, mg/l S			P929 Tot.Na, ~~ug~~/l	2500
P400 pH			P70300 Dissol. mg/l O L			P1105 Tot. Al, ug/l	300
P95 Cond., umhos/cm			P530 Suspend. mg/l I D			P1097 Tot. Sb. ug/l	33
P300 D.O., mg/l			P505 Vol., mg/l S			P1002 Tot. As, ug/l	6.0
P301 %D SAT.			P38260 MBAS, mg/l			P1007 Tot. Ba, ug/l	<100
P61 Flow, cfs			P32730 Phenols, ug/l			P1027 Tot. Cd, ug/l	35
P58 Flow, gpm			P720 Cyanide, mg/l			P1034 Tot. Cr, ug/l	30
P70508 Acidity, mg (H)			P1032 Hex. Cr. ug/l			P1042 Tot.Cu. ug/l	110
P410 Alkalinity, mg/l			P550 Oil-Grease, mg/l			P1045 Tot. Fe, ug/l	8200
P900 Hardness, mg/l			P950 Fluoride, mg/l			P1051 Tot.Pb, ug/l	1000
P945 Sulfate, mg/l			P665 Total, mg/l P			P1055 Tot. Mn, ug/l	140
P80 Color PT-CO U.			P666 Dis., mg/l H O			P71900 Tot. Hg, ug/l	
P70 Turbidity, JCU			P660 Ortho, PO4, mg/l S			P1067 Tot. Ni, ug/l	110
P940 Chloride, mg/l			P625 TKN, mg/l			P1147 Tot. Se, ug/l	
P310 BOD5, mg/l			P610 NH3-N, mg/l			P1077 Tot. Ag, ug/l	<10
P324 BOD20, mg/l			P605 ORG.-N, mg/l			P1087 Tot. V, ug/l	<100
P335 COD, mg/l			P620 NO3-N, mg/l			P1092 Tot. Zn, ug/l	180
P680 TOC, mg/l			P615 NO2-N, mg/l			P535 Solids, Vol Non-F	
P31501			P916				

L & Metal ④

Beth Gross ③

F3 8201-24
MD-51

Beth Gross ②

View of Buck's Steel Drum Co.
standing south
looking north

MD-51
F3-8201-24

Beth Gros

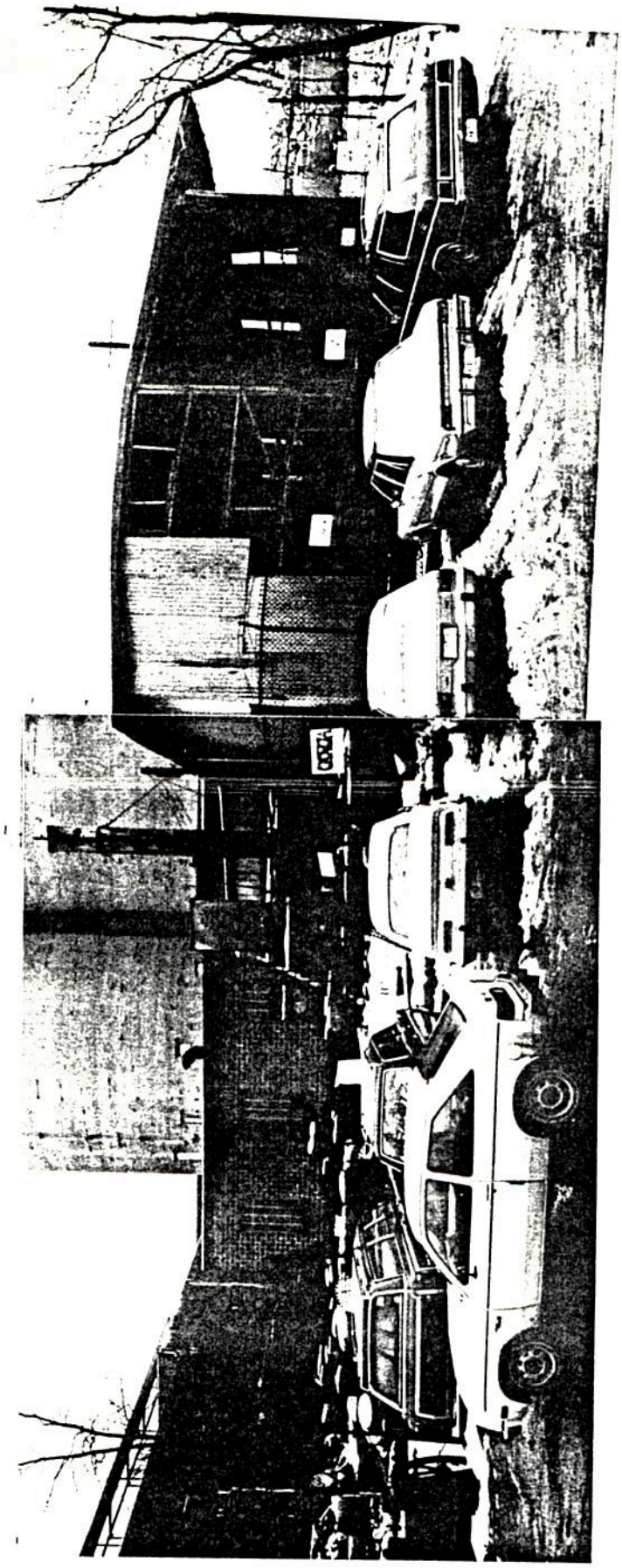
F3-8201-24
MD-51

2/19/82

ORIGINAL (Red)

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Three



Photographs 5-6 - View of the south side of the site.

(5)

Drum of Buckle Steel
Drum
looking north

MD-51
F3-8201-24
Beth Gross 2/19/82

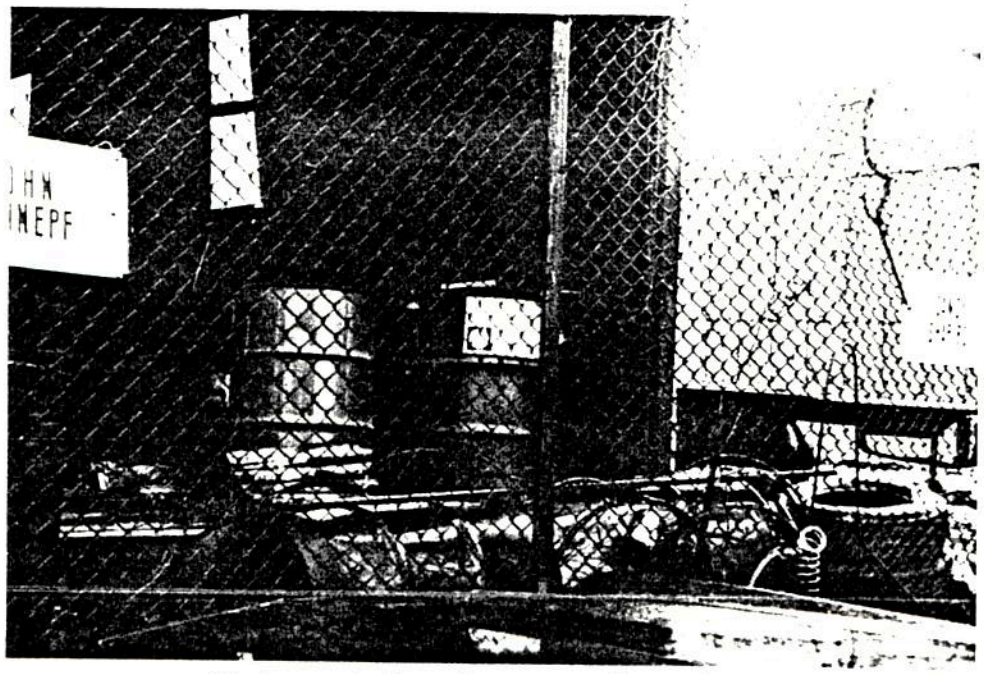
(6)

incinerator in
center of picture

F3-8201-24
MD-51
Beth Gross

ORIGINAL
(Red)

ORIGINAL
(Red)



Photograph 7 - Close up of southeast corner of frame building.

Photograph 8 - Close up of drums at south end of the frame building.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Six

(7) F3-8201-24
MD-51

Close up of southwest
corner of frame bldg.

Beth Gross 2/19/86

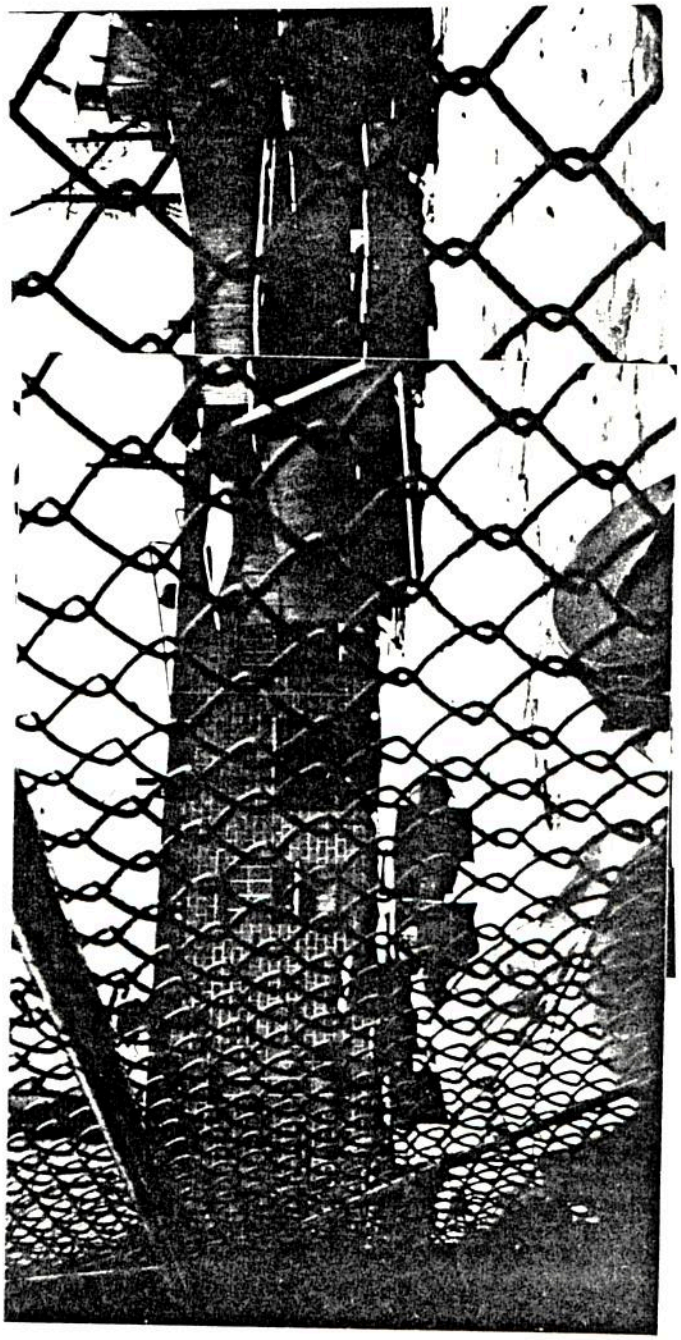
(8)

Close up of frame at
south end of frame bldg.

2/19/86
MD-51
Beth Gross F3-8201-24

ORIGINAL
(Red)

Photographs 9-10 - View of Baltimore Steel Drum from southwest side of site.



ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Eight

Lisa A. Adams
(10)
2/19/82
MD-51

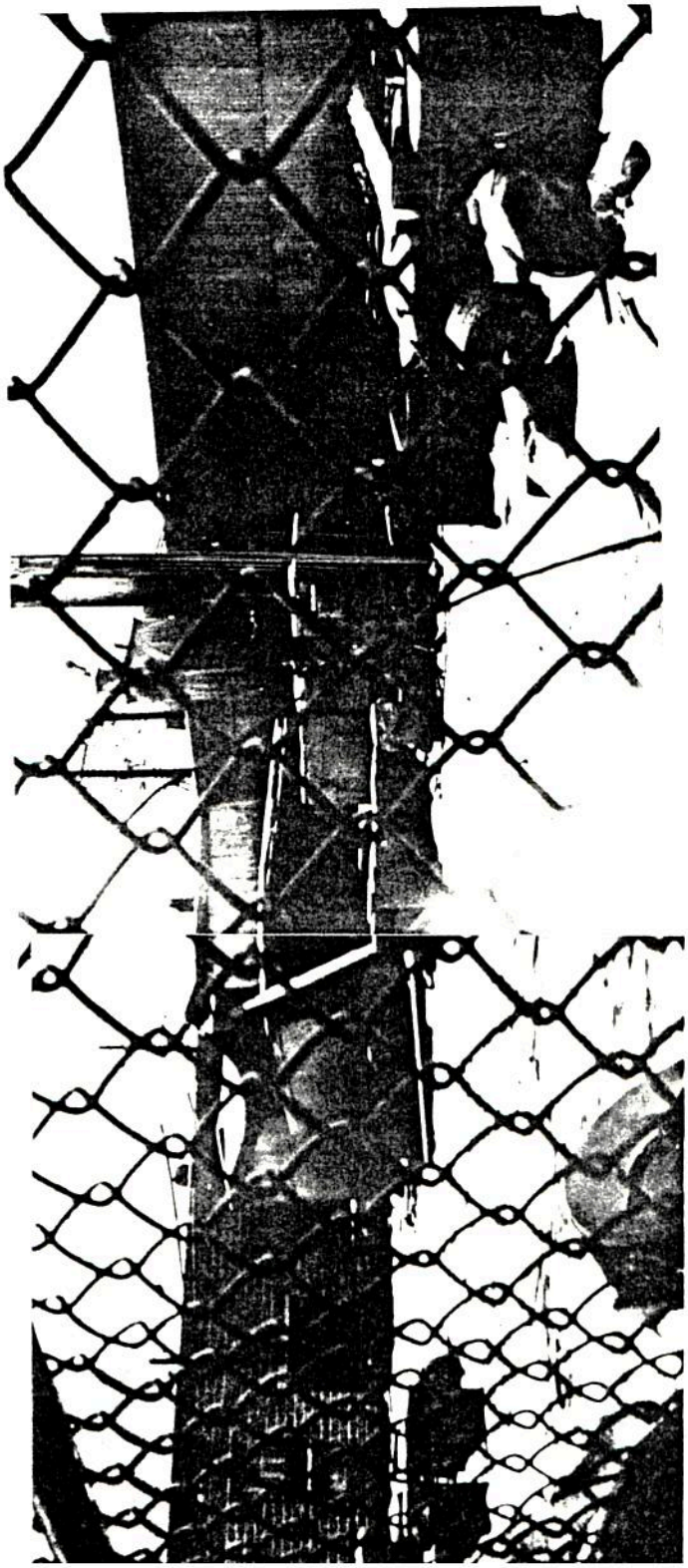
F3-8201-24
MD-51

Lisa A. Adams
9
2/19/82

View of Baltimore Steel
Drums from Southwest
side of site.

ORIGINAL
(Red)

Photographs 11-13 - Panorama of site from alley bordering the west side. Crushed carboys can be seen in lower left corner. Incinerator is in the center of the picture.



2 F3-8201-24
71

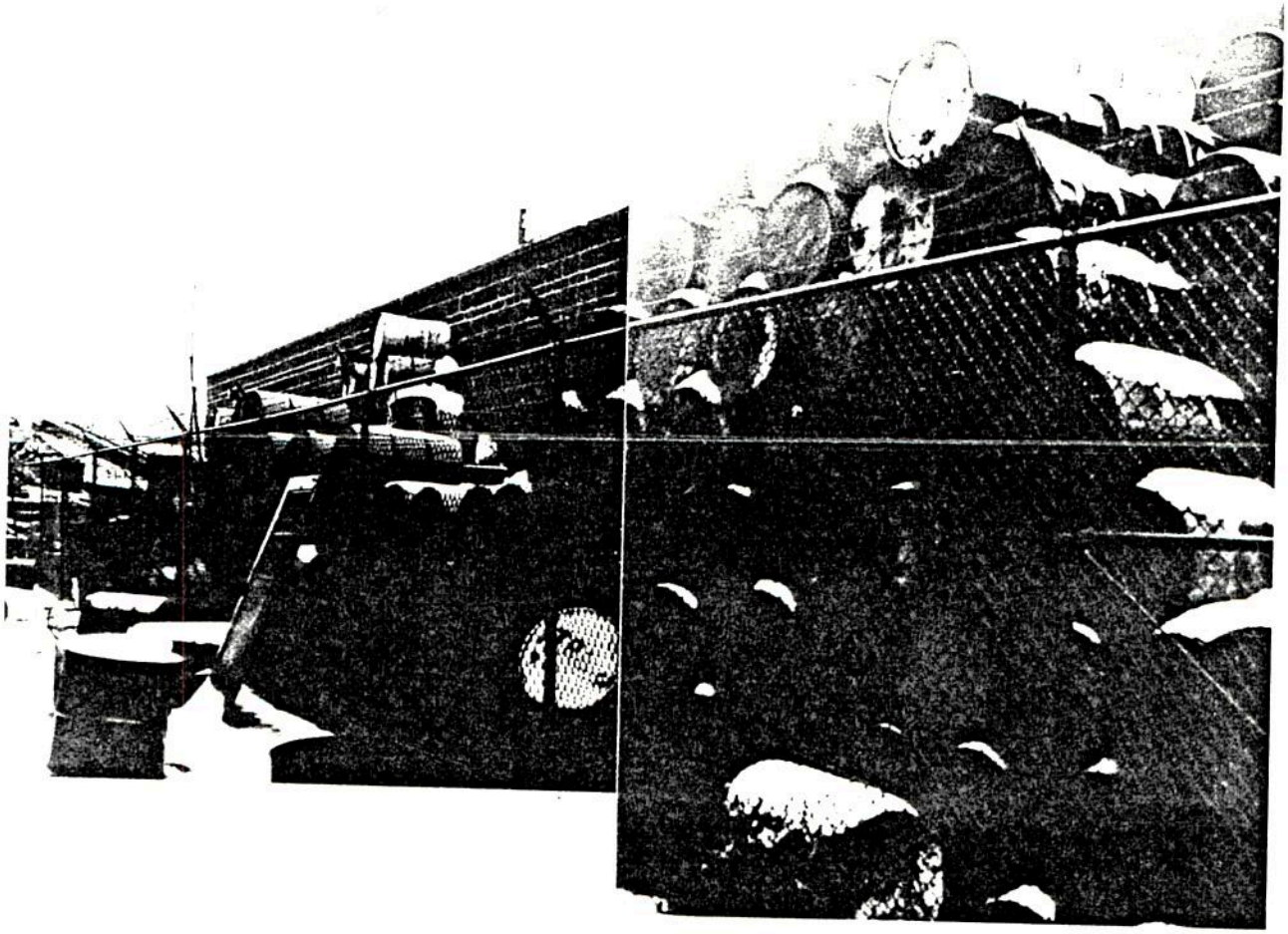
orama of site from
rest side

Lee A. Shaw
(12)
2/19/82
F3 8201-24
MD-51
incinerator

Lee A. Shaw
(13)
2/19/82
F3-8201-24
MD 51
Crushed carboys in lower
left corner

ORIGINAL
(Red)

ORIGINAL
(Red)



Photographs 14-15 - View of drums across the north side of the site. Estimated drum count from pictures is over 250 drums.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twelve

Lin a Mann F3-8201-24
(14) 2/19/82 MD-51

F3 8201-24
MD-51

Lin a Mann (15)
2/19/82

Drums stacked between
cinder block building and
northern fence

ORIGINAL
(Red)

Photograph 16 - North side of Baltimore Steel Drum. Large off-site bulk tank is in left of picture. Twelve drums are on the property with the tanks.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Fourteen

[illegible]
(16)

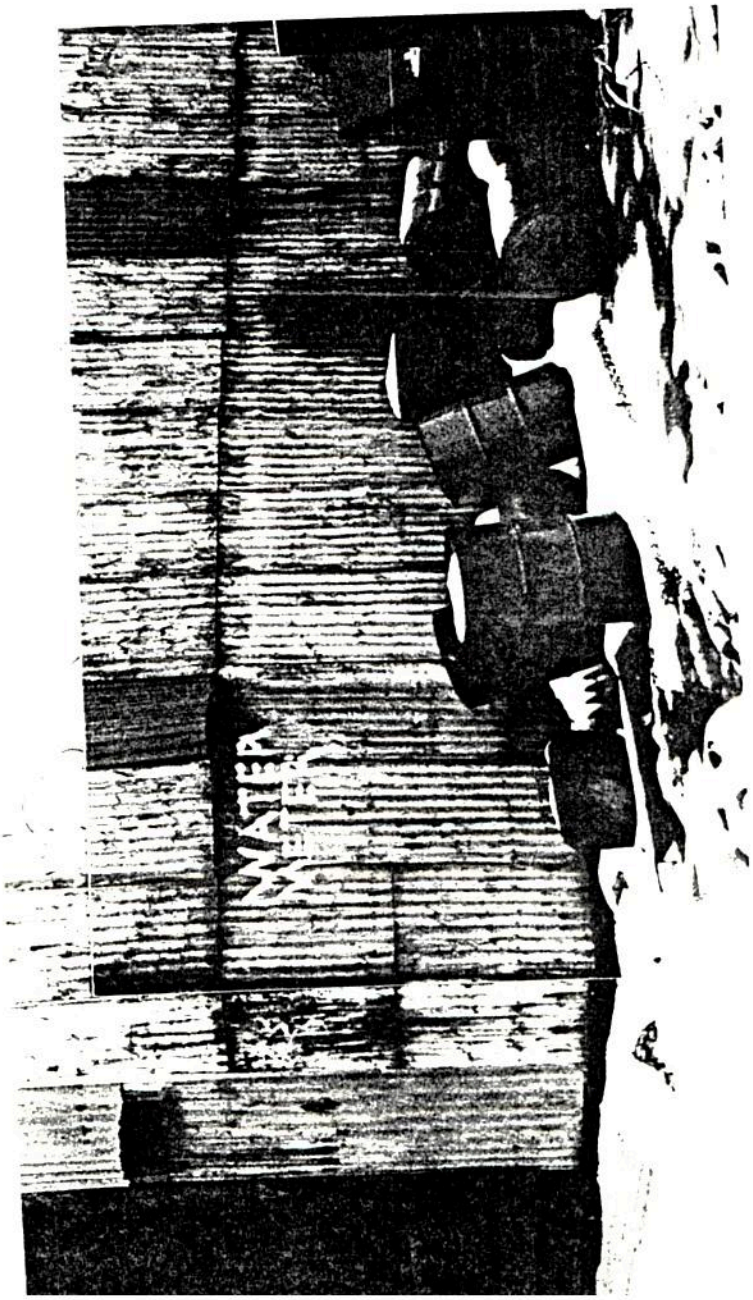
F3-8201-24
2/19/82
MD-51

View of north side of site.
Large off-site bulk storage tanks
on left of pictures

ORIGINAL
(Red)

(31)

Photographs 17-20 - View of east side of Baltimore Steel Drum from Kresson Street. Drums are along the frame building. Truck has "Bucks Steel Drum" lettered on side.



View of east side of site and truck

(3)

ORIGINAL (Re...)

Linda A. Thomas
F3 8201-24
View of east side of site MD-51

(15)

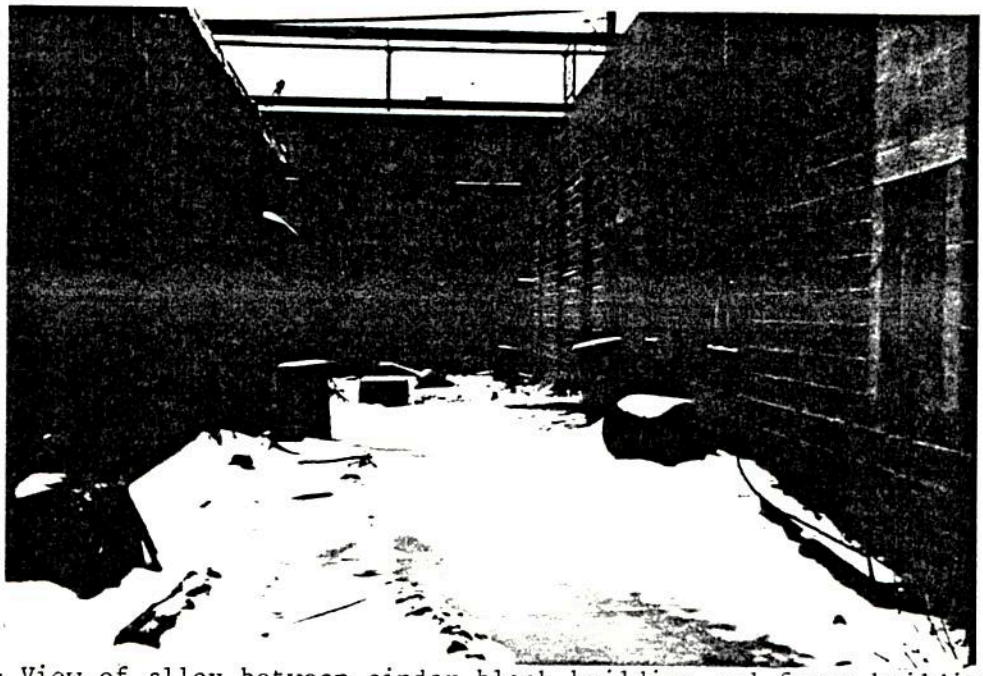
(2)

19

Linda A. Thomas
F3 8201-24
MD-51

19

ORIGINAL (Red)



Photograph 21 - View of alley between cinder block building and frame building looking west from Kresson Street.

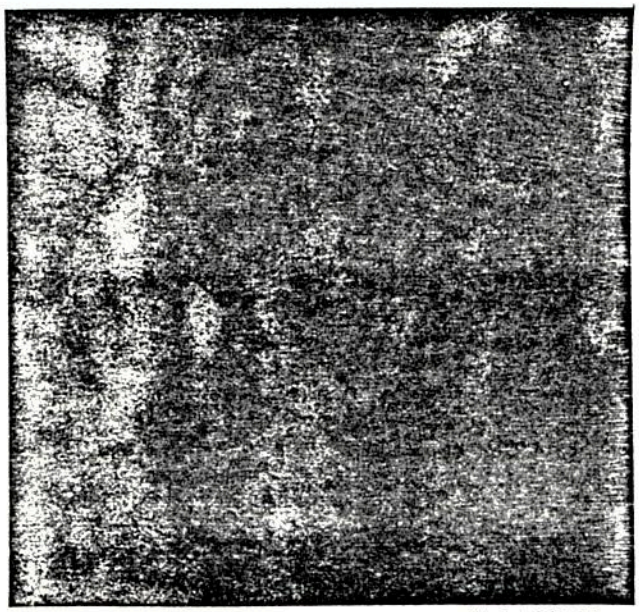
Photograph 22 - Sample location 1 - off site southeast corner of property. Eugene Dennis collected sample.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Eighteen

Terrence A. Nannon 2/19/82

(21) F3-8201-24
MD-51
View of alley between
frame and under block bldgs



08102207435 POLAROID 2

#1 Sample 1
Location
MD-51 22

Terrence A. Nannon
2/19/82
F3 8201 24

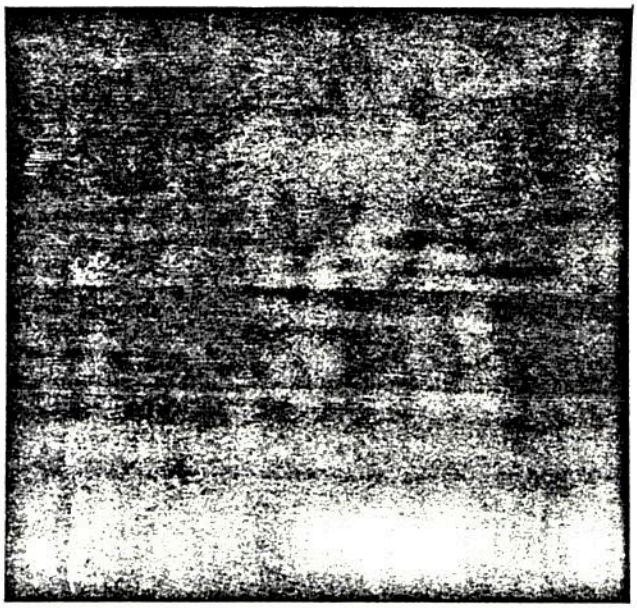
ORIGINAL

Photograph 23 - Sample location 2 - off site northeast corner of property. Eugene Dennis collecting sample.

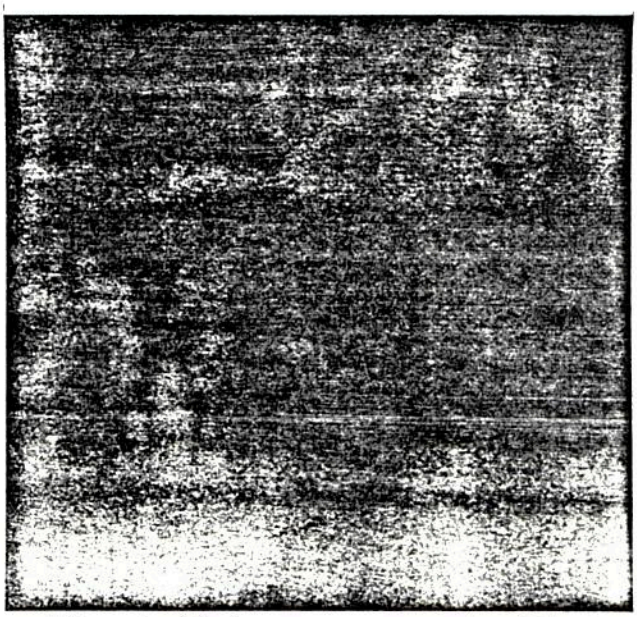
Photograph 24 - Sample location 3 - northwest corner of yard. Eugene Dennis collecting sample.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twenty



#2 Sample Lin a Horn
23 location 2/19/82
2 MD-51 F3-8201-24



#3 Sample Lin a Horn
24 location 2/19/82
3 MD-51 F3-8201-24

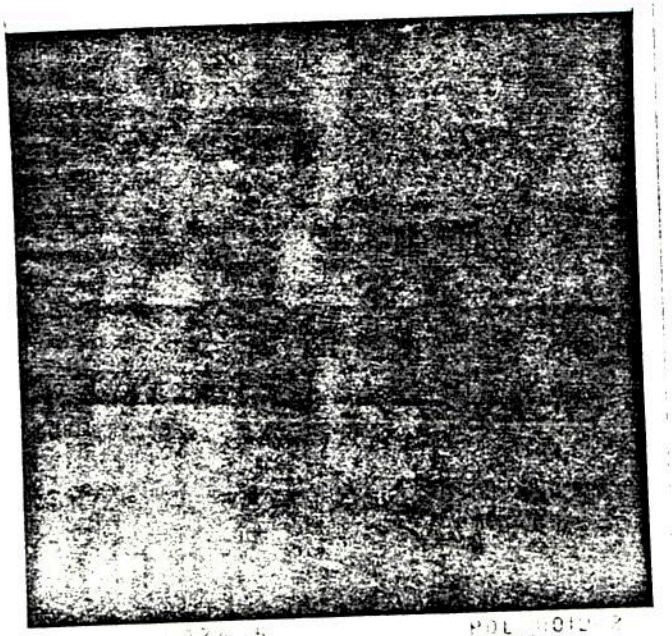
ORIGINAL
(Red)

Photograph 25 - Sample location 4 - north end of yard east of location 3. Eugene Dennis collecting sample.

Photograph 26 - Sample location 5 - center of the yard. Eugene Dennis collecting sample.

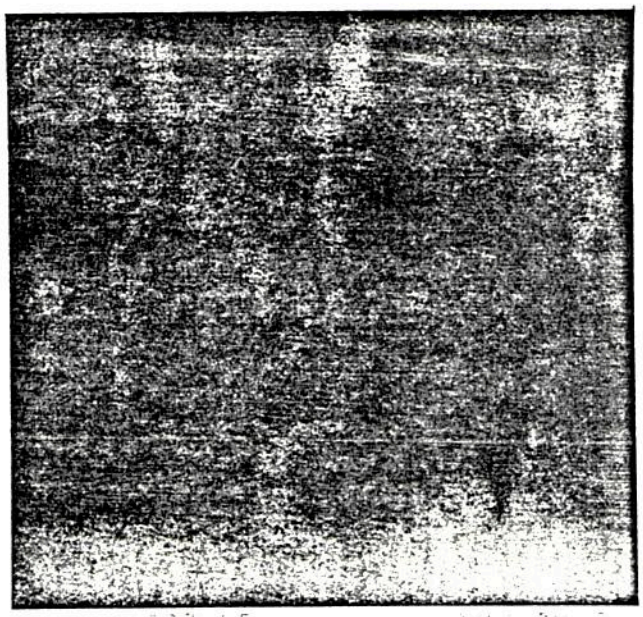
ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twenty-Two



Sample #4
location 4 25

MD-51
2/19/82
F3-8201-24



Sample #5 26
location #5

MD-51
2/19/82
F3-8201-24

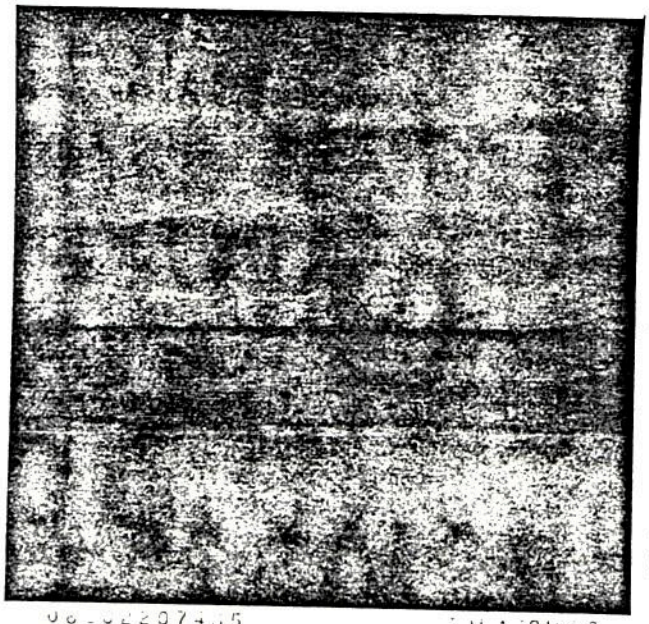
ORIGINAL
(Red)

Photograph 27 - Sample location 6 - west side of site near smashed carboys. Eugene Dennis collecting sample.

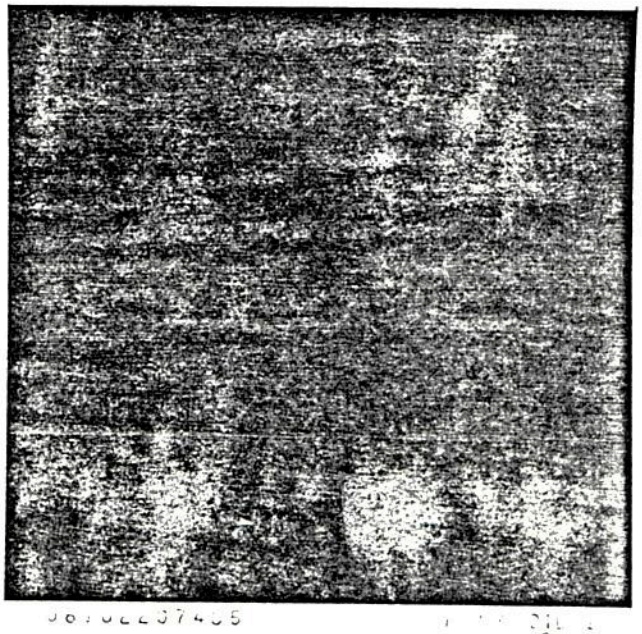
Photograph 28 - Sample location 7 - east side of yard near incinerator. Eugene Dennis collecting sample.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twenty-Four



Sample location #6 27 MD-51 Tim A. Shaw 2/19/82 F3-8201-24



#7 Sample location 28 7 MD-51 Tim A. Shaw 2/19/82 F3-8201-24

ORIGINAL
(Red)

Photograph 29 - Sample location 8 - southwest part of the yard. Eugene Dennis collecting sample.

Photograph 30 - Sample location 9 - southeast part of the yard. Eugene Dennis collecting sample.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
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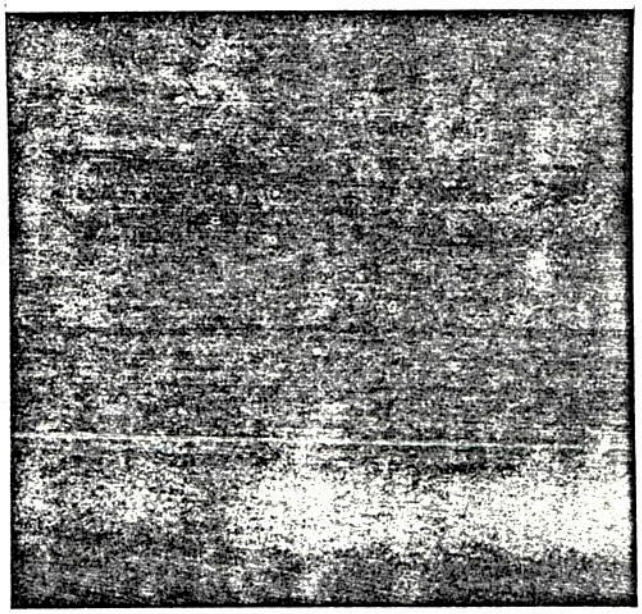
#8 Sample MD-51 Lm A Mann 2/19/82
location 829 F3-8201-24



#9 Sample MD-51 Lm A Mann 2/19/82
location 9 30 F3-8201-24

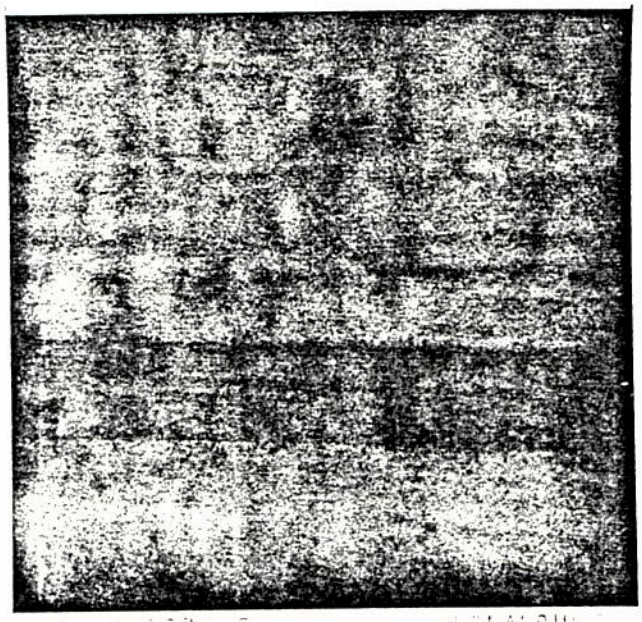
ORIGINAL
(Red)

Photograph 31 - Sample location 10 - surface water pooled in northwest corner Eugene Dennis collecting sample.

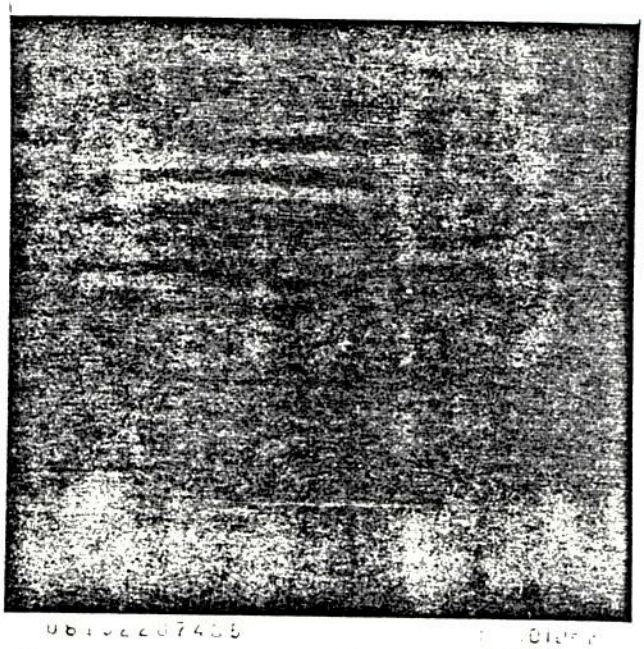
Photograph 32 - Sample location 11 - surface water pooled in southwest area. Eugene Dennis sampling.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Twenty-Eight



Water Sample Lee A. Hom 2/19/82
31 #1 location 10 F3-8201-24
MD-51



#11 32 Lee A. Hom
Sample location 2/19/82
MD-51 11 F3-8201-24

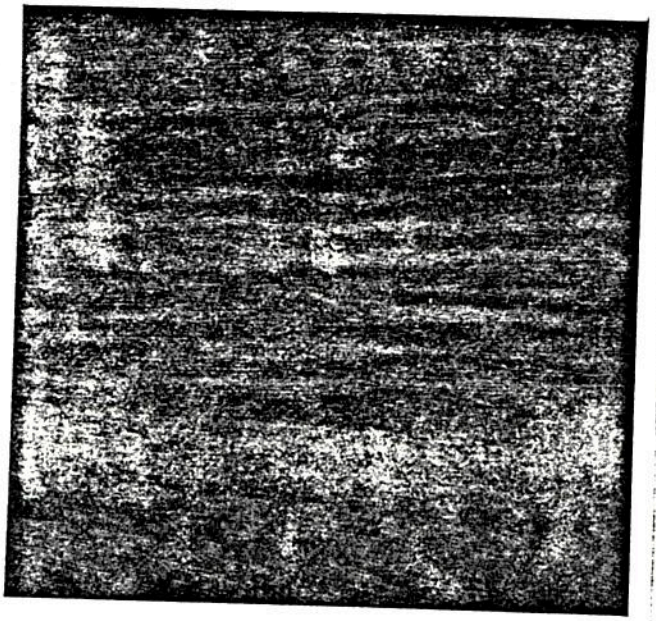
ORIGINAL
(Red)

Photograph 33 - Sample location 12 - sample of yard material 18" below surface.

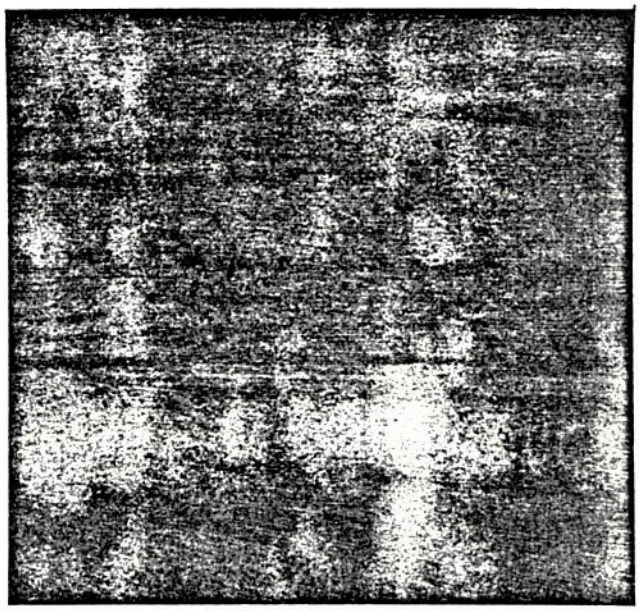
Photograph 34 - Sample location 12 and 18 - hole dug in yard 18" down near incinerator. A. Stone collecting sample.

ORIGINAL
(R)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Thirty



#13 Sample location Jim a Hann 2/19/82
12+18 33 F3-8201-24
MD-51



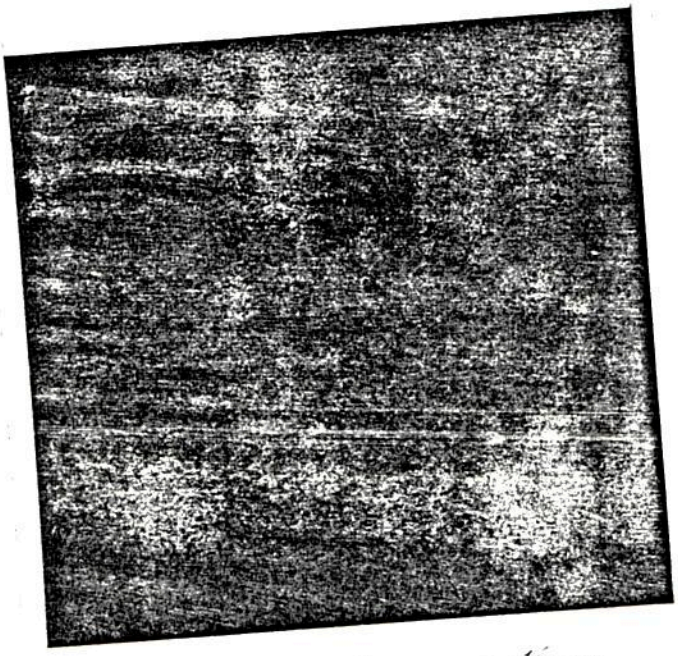
F3-8201-24 Jim a Hann
#12 2/19/82
Bottom of hole Steve Cuez 34
MD-51

ORIGINAL
(Red)

Photograph 35 - Sample location 19 - runoff from southwest corner of site. Black material is fill of the yard which is greater than 18" deep.

ORIGINAL
(Red)

Baltimore Steel Drum
Baltimore, MD
TDD No. F3-8201-24
EPA No. MD-51
Page Thirty-Two



35 [illegible]
14 Sample location 2/19/82
19. MD-51 F3-8201-24

03MD004 #2

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION: III

SITE NUMBER (to be assigned by HQ)

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: Baltimore Steel Drum (formerly Buck's)

B. STREET (or other identifier): 910 Kresson Street

C. CITY: Baltimore

D. STATE: MD

E. ZIP CODE: 21224

F. COUNTY NAME: Baltimore

G. SITE OPERATOR INFORMATION

1. NAME: Kline Cooperage, Inc.

2. TELEPHONE NUMBER: 215-437-0781

3. STREET: 701 E. Highland Street

4. CITY: Allentown

5. STATE: PA

6. ZIP CODE: 18103

H. REALTY OWNER INFORMATION (if different from operator of site)

1. NAME: Barton Kline

2. TELEPHONE NUMBER: 215-437-0781

3. CITY: P.O. Box 2287, Lehigh Valley

4. STATE: PA

5. ZIP CODE: 18001

I. SITE DESCRIPTION: Abandoned drum reclaiming operation.

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.): June 1, 1982

B. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME: Elizabeth Gross

2. TELEPHONE NUMBER: 609-665-1515

3. DATE (mo., day, & yr.): March 1, 1982

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME: Elizabeth Gross

2. TITLE: Environmental Engineer

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.
Terrence Shannon	Ecology and Environment, Inc.	609-665-1515
Alton Stone	Ecology and Environment, Inc.	609-665-1515
Eugene Dennis	Ecology and Environment, Inc.	609-665-1515

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

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Mike Bromberg	Inspector 301-383-6650	201 W. Preston Street Baltimore, MD
Paul Thompson	Regional Chief 301-383-6650	201 W. Preston Street Baltimore, MD
Sandy Shapiro	Owner 301-327-7867	Cambridge Iron and Metal Co., Inc. * 2030 Aliceanna St., Baltimore, MD
John Schnepf	301-327-7867	Cambridge Iron and Metal Co., Inc. 2030 Aliceanna St., Baltimore, MD
		*Scrap yard location - adjacent to Buck Steel Drum

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Cheverolet (reportedly)		Baltimore, MD	rubber dough
unknown			

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Ryan's Moving and	-	4807 Valley Forge Road Randallstown, MD 21200	unknown - hauled for previous owners
Hauling			

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
none known		

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
2-19-82	1000-1600	☒ 1. PERMISSION ☐ 2. WARRANT

J. WEATHER (describe)
Rain and snow; 31°F

IV. SAMPLING INFORMATION

A. 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			
b. SURFACE WATER			
c. WASTE	X	NEIC for extractions; Western Labs - Inorganic; Meade Technology Lab - Organic	3-23-82
d. AIR			
e. RUNOFF	X	Meade Technology Laboratory - Organic Rocky Mountain Analytical - Inorganic	3-23-82
f. SPILL	X	NEIC for extractions; Western Regional Lab - Organic; Meade Technology Lab - Organic	3-23-82
g. SOIL	X	Meade Technology Laboratory - Organic; Rocky Mountain Analytical - Inorganic	3-23-82
h. VEGETATION			
i. OTHER (specify) pooled water on site	X	Meade Technology Laboratory - Organic Rocky Mountain Analytical - Inorganic	3-23-82

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

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
explosimeter	entire site	none noted
HNU	entire site	4-5 ppm background; 50 ppm at drum head (silver) pegged on 200 scale at drum head by incinerator 5-10 ppm - disturbed soil
		16 ppm background; pegged on 1000 ppm scale-

ORIGINAL (Red)

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS: [X] a. GROUND [ ] b. AERIAL

2. PHOTOS IN CUSTODY OF: Ecology and Environment, Inc. - File No. F3-8201-24

D. SITE MAPPED?

[X] YES. SPECIFY LOCATION OF MAPS: in report

E. COORDINATES

1. LATITUDE (deg.-min.-sec.): 39° 16' 54" N

2. LONGITUDE (deg.-min.-sec.): 76° 33' 37" 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.)

[X] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 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?

[X] 1. NO [ ] 2. YES (specify generator's four-digit SIC Code): _____

AREA OF SITE (in acres): 1.06 acres

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES (specify): 2 abandoned buildings and an incinerator

VI. CHARACTERIZATION OF SITE ACTIVITY

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

X	A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT	X	2. INCINERATION		2. LANDFARM
	3. BARGE	X	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. MIDNIGHT 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. 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 form.

[ ] 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

[X] 1. LIQUID [X] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[X] 1. CORROSIVE [X] 2. IGNITABLE [ ] 3. RADIOACTIVE [X] 4. HIGHLY VOLATILE

[X] 5. TOXIC [X] 6. REACTIVE [X] 7. INERT [ ] 8. FLAMMABLE

[ ] 9. OTHER (specify):

C. WASTE CATEGORIES

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

No

Continue On Reverse

VII. WASTE RELATED INFORMATION (continued)

C. 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 1450	AMOUNT	AMOUNT	AMOUNT approx. 200	AMOUNT	AMOUNT
UNIT OF MEASURE cubic yards	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE 55 gal. drums	UNIT OF MEASURE	UNIT OF MEASURE
X (1) PAINT, PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LABORATORY, PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
X (5) OTHER (specify): incinerator residue/ash			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER (specify)
			(6) CYANIDE	(6) OTHER (specify)	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			X (11) OTHER (specify): unknown		

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

1. SUBSTANCE	2. FORM (mark 'X') a. SOLID	b. LIQ.	c. VAPOR	3. TOXICITY (mark 'X') a. HIGH	b. MED.	c. LOW	d. NONE	4. CAS NUMBER	5. ~~AMOUNT~~ concentration	6. UNIT (ppm)
lead	X			X					110-1900	mg/kg
zinc	X			X					350-7800	mg/kg
chromium	X			X					4-140	mg/kg
PCB's	X			X					1-75	mg/kg
fluoranthene	X					X	suspected carcinogen		10-30	ug/ml
trichloroethylene	X				X				4.5	ug/ml
toluene	X				X				2-3	ug/ml
1,1,1 trichloroethane	X				X				1-420	ug/ml

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.

X A. HUMAN HEALTH HAZARDS

Organic vapor readings were not noted in ambient air. However, cold weather does not promote volitilization. Readings on the HNU and OVA were noted when soil was disturbed and at some drum heads. Odors have been noted during warmer weather. Possibility of organic vapors exist. Neighboring scrap yard parking lot is adjacent to site.

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

ORIGINAL (Red)

none reported

☒ C. WORKER INJURY/EXPOSURE

Report of one worker at the facility who slipped and put his foot in the drum washwater. He was severely burned and hospitalized. This occured when Buck's owned and operated the site.

☐ D. CONTAMINATION OF WATER SUPPLY

Baltimore water supply consists of reservoirs north and west of the city.

☐ E. CONTAMINATION OF FOOD CHAIN

Site location is highly industrial area. Possibility is remote to none.

☒ F. CONTAMINATION OF GROUND WATER

There is groundwater recharge by infiltration in the area. However, due to layers of clay in the area there may not be significant groundwater contamination.

☒ G. CONTAMINATION OF SURFACE WATER

A Complaint and Order was issued to Kline on December 28, 1981 with respect to surface runoff discharging into an unnamed storm sewer which enters the Patapsco River.

VIII. HAZARD DESCRIPTION (continued)

H. DAMAGE TO FLORA/FAUNA

ORIGINAL (Red)

There was an apparently dead tree on site. Some vines clung to the fence on the west side but no other vegetation was noted.

☐ I. FISH KILL

None reported/not applicable.

J. CONTAMINATION OF AIR

No ambient air readings noted on site. However, during the operation of the incinerator there was at least one incident of discharge of a "flyash" material. This occured when Buck's owned and operated the site.

☒ K. NOTICEABLE ODORS

Odors have been noted on site particularly during warmer weather.

☒ L. CONTAMINATION OF SOIL

A hole was dug on site to determine the depth of sludge. Approximately eighteen inches (18") depth of partially frozen sludge was excavated by shovel without reaching the soil. HNU readings were noted when soil was disturbed.

☒ M. PROPERTY DAMAGE

A frame building on site had 3/4 of its south wall torn down. The fence surrounding the site was also down in two areas. Damage to the adjacent property could have occurred from surface runoff and sludge contamination.

Continued From Page 6

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

No positive explosimeter readings were noted on site. Possibility of fire exists only from an outside source unless incompatable wastes are shown to exist on site.

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

Several of the drums on site were leaking (Sample #20). Site runoff was noted being washed to the storm sewer (Sample #19). Standing liquid was noted in several places (Samples #10 and #11).

☒ P. SEWER, STORM DRAIN PROBLEMS

The runoff from the site was noted to enter an unnamed storm sewer about 60' south of the perimeter of Baltimore Steel Drum property. A Complaint and Order was filed in December 1981 with respect to this sewer.

☒ Q. EROSION PROBLEMS

There were runoff patterns from the site through the dirt parking lot indicating erosion problems.

☒ R. INADEQUATE SECURITY

The entrance to the property has no gate across it. In addition, the fence is broken down on the south side and cut in a section of the west side.

☒ S. INCOMPATIBLE WASTES

The possibility exists. However, without analysis of each drum this is unknown.

ORIGINAL (Red)

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

All wastes appear to have been brought on site during the time the business was in operation.

☐ U. OTHER (specify):

Not Applicable.

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	Highlandtown Community			3,500' west
2. IN COMMERCIAL OR INDUSTRIAL AREAS	immediate area primarily industrial/commercial		26	¼ mi. radius
3. IN PUBLICLY TRAVELLED AREAS	Baltimore Harbor Thruway			1700' east
4. PUBLIC USE AREAS (parks, schools, etc.)	5 elementary schools, 2 libraries, 1 post office, 1 junior high school, Baltimore City Hospitals			1 mi. radiu

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit)	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
shallow	southwesterly	industrial
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure)**	**F. DIRECTION TO DRINKING WATER SUPPLY**
–	approximately 15 miles	north and northwest

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS

☒ 2. COMMUNITY (specify town): > 15 CONNECTIONS City of Baltimore

☒ 3. SURFACE WATER

☐ 4. WELL

Liberty Reservoir, Prettyboy Reservoir, Lockhaven Reservoir

Continue On Page 9

OFFICIAL (Red)

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

A. 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')
		none - not applicable		

B. RECEIVING WATER

1. NAME: Patapsco River

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

C. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Commercial, Industrial
Patapsco River enters Chesapeake Bay - recreational, commercial

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN: None Applicable.

☐ 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.

X	A. OVERBURDEN	X	B. BEDROCK (specify below)	X	C. OTHER (specify below)
X	SAND		crystalline bedrock		
X	2. CLAY 1.6' - 100'		150' - 200' below		
	3. GRAVEL		overburden		

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.) to ☒ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS: some percolation may occur where there are no clay lenses

H. DISCHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS: to Patapsco River and Chesapeake Bay

I. SLOPE

1. ESTIMATE % OF SLOPE: 3%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: south - southwest

J. OTHER GEOLOGICAL DATA

Area is highly industrialized. The changes to the area from construction and railroads may influence the original geology of the area.

Continue On Reverse

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
RCRA Notifier	EPA	MDD000730556	11/7/80	N/A		X	

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☐ NONE ☒ YES (summarize in this space)

20/79 - Order to cease and desist all dumping and to remove all drums and spilled material from the Buck's 8234 Rosebank Ave. property. Order was complied with. (Herman and Harry Buck - Owners)

07/07/80 - Order to submit information, plans and specifications regarding waste management at 910 Kresson Street facility. (Bart Kline - Owner)

04/24/81 - Field investigation and sampling by the MD DHMH. (Paul Stancil)

12/28/81 - Complaint and Order issued stating violation of Natural Resources Articles 8-1413(a) and 43 Sections 388 and 397. Ordered to cease and desist discharges from property, clean-up and remove all waste drums, chemicals and debris, and to submit a report detailling actions and disposal sites. (Barton Kline - Owner) Order was to be met by 1/15/82. He has not complied.

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.