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MD-118
1c

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401

301-224-2740
FTS-922-3752

PEE

DATE : January 27, 1983

Draft

SUBJECT: Preliminary Assessment
M & T Chemicals, Inc. (MD 118)

FROM: : Howard O. Wilson
Team Leader, Engineering Section (3ES14)

TO: : Linda Boornazian
Superfund/RCRA Compliance Section (3AW23)

Attached is a copy of the assessment report for the subject facility.

Should you or the project officer have any questions regarding the completed report, please contact Mr. Wallandingham or myself.

Attachment
a/s

HOW:tlb

ORIGINAL (Red)

PFE

Assessment Report

M & T Chemicals, Inc.
1900 Chesapeake Avenue
Baltimore, Maryland 21226

EPA Number: MD 118

September 8, 1982

Prepared By: Robert L. Vallandingham & Gerard R. Donovan, Jr.
EPA, CRL. Region III

ORIGINAL (Red)

PFE

Summary

M & T Chemicals presently manufacturers antimony oxide, and blended chrome alloys. This operation was started in the 1960's and replaced a metals recovery operation that was begun in the late 1940's. The waste disposal practices of the 1960's included on-site disposal of hexavalent chromium sludge and washwaters. The disposal areas included property still owned by M & T Chemicals and some adjacent property owned by MRI Corporation, (see separate report) but recently sold to a construction and development management corporation. In 1971 the waste hexavalent chromium generated was reduced to trivalent chromium, but the practice of on-site disposal lagoons was still employed. Some of the trivalent chromium sludge was removed and disposed at a TSD facility for hazardous waste. There is no indication that any of the hexavalent chromium sludge was removed. Presently the facility stores the corrosive washwaters from its chrome and antimony processes in tanks and manifests it as a hazardous waste for disposal (MDD 003084464).

Area groundwaters are contaminated with chromium and antimony observed at mg/L concentrations. There are no groundwater uses in the area of the facility; and the local water table aquifer flow is expected to be in the direction of the Patapsco River.

Recommendations

1. A groundwater assessment plan to evaluate the extent of local groundwater contamination and the degree that M & T Chemicals or MRI Corporation are responsible should be considered.
2. The potential contamination of deeper aquifers used as drinking water supplies by adjacent counties should be assessed.
3. The impact, if any, of contaminated groundwater flow to the Patapsco River should be determined.

ORIGINAL (Red)

FILE

Introduction

Historical information regarding the activities of the subject site have been obtained and are incorporated below with the results of a visual inspection conducted at the site on September 9, 1982. The sky was overcast and the temperature in the upper 70's during the inspection. No rain had occurred in the 24 hours preceeding the inspection.

Information Contacts

M & T Chemicals, Inc.:	Allan W. Thorton Plant Manager Telephone: (301) 355-3700
	Hugh E. Stimson Quality Control Supervisor
	Harry Elias Manager, Environmental Affairs
	Arthur E. Slesinger Regulatory Compliance Director
State of Maryland:	Jim Francis Permits Section Telephone: (301) 383-5734

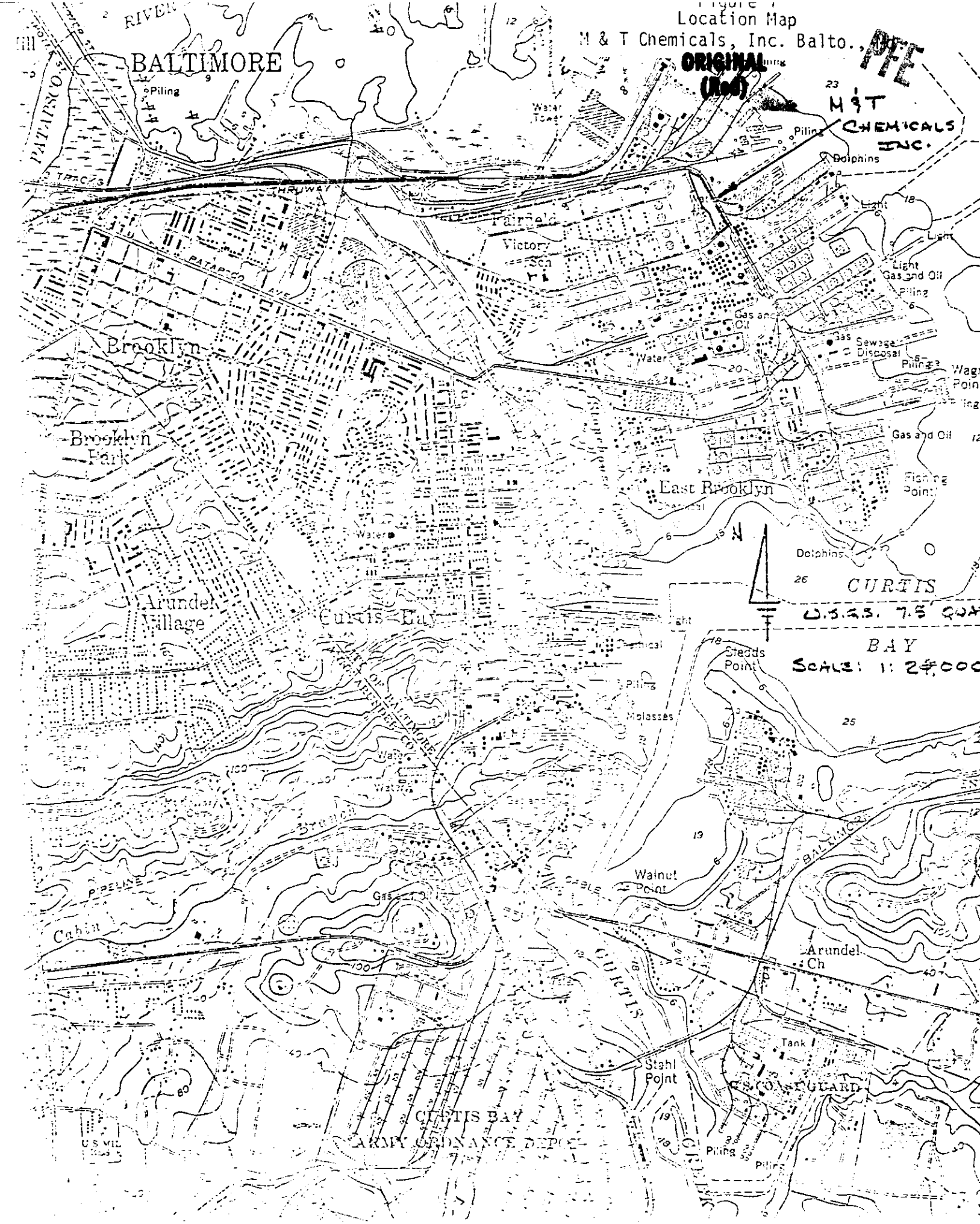
Site Description

M & T Chenicals, Inc. is a metals manufacturing facility in an industrial area of southeast Baltimore City known as Brooklyn (Figure 1). The facility is physically located near the Patapsco River (Baltimore Harbor). The water table aquifer flow and surface water runoff are expected to enter the Patapsco River. There exist no uses of groundwaters in the industrial or nearby residential areas.

M & T Chemicals presently manufactures antimony oxide which is sold as a product to the plastic industry to be used as a fire retardant. Chrome alloys are also produced and sold mainly to the plating industry.

M & T is presently storing waste washwaters from the chrome process in two (2) above ground tanks, 1,800 gallons each. Wastewater from the antimony process is stored in one (1) above ground tank of approximately 6,000 gallons. These liquids are shipped to Chem Clear, Baltimore, MDfor proper disposal. Antimony slag, a by-product of the antimony process, is stored outside behind the process building, under a roof. When a desired accumulation is reached, it is sold as a product.

Figure 1
Location Map
M & T Chemicals, Inc. Balto., MD



ORIGINAL (Red)

In the late 1940's, M & T Chemicals, Inc. operated as a metals recovery plant. In the mid 1960's, the chrome and antimony processes began. In 1977, American Can Company owned M & T. The property was split at that time and the MRI Corporation was formed and used for metals recovery. In the 1960's, hexavalent chromium waste was disposed of on portions of the M & T property, some of which were later sold to MRI Corporation (see separate report). Waste washwater was disposed on the ground and the sludge was placed in pits and buried in drums. In 1971, approximately, the practice of disposing of hexavalent chromium ceased and a process of conversion to trivalent chromium and storage in holding lagoons was employed. In 1980, a slurry and filter press was added to eliminate the waste sludge. The filtrate was tested for hexavalent chromium and released to a storm sewer to the Patapsco River. During the fall of 1980 and until the spring of 1981, waste sludge was collected in 55 gallon drums and the lagoon muds were dug out and hauled to BFI landfill, Solley Road, Baltimore, MD (209 tons) and to I-U Conversions, Moneybrook, PA (900 tons). After removal of the muds, the lagoons were backfilled. The areas used for the disposal of the chrome waste include 1-2 acres of existing M & T property and 3-4 acres of property sold to MRI Corporation.

There is no knowledge of any removal of the waste suspected of being disposed on the MRI property.

Exposure/Risk

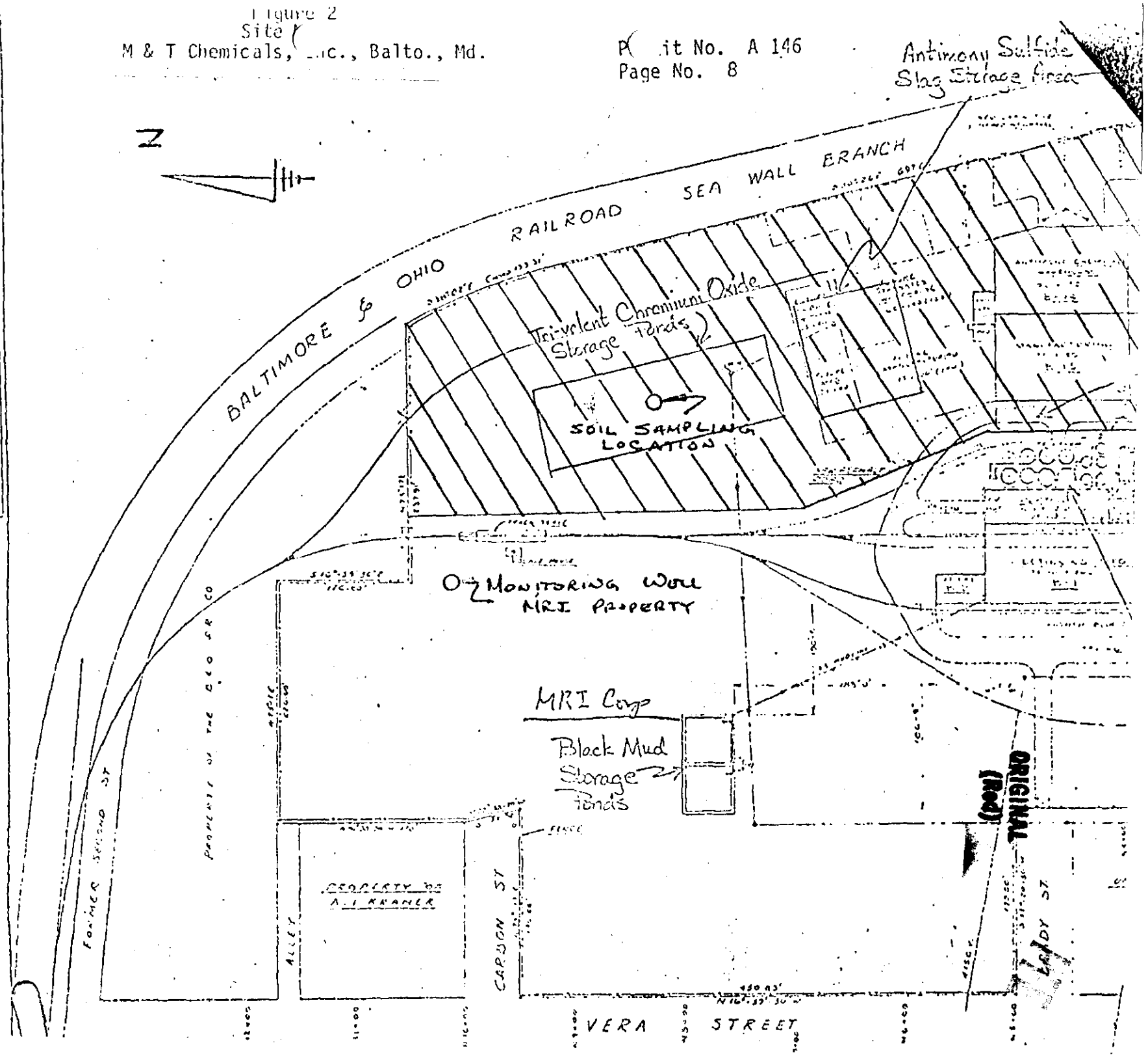
During the inspection of September 8, 1982 there were no qualitative indications (visible emissions) or odors that the air quality in the vicinity of the facility was affected. Quantitative measurements of the air environment were not made.

A soil sample was collected of an abandoned lagoon used for the storage of trivalent chromium sludge (Figure 2). The sample was collected from a depth of approximately four (4) feet where a color change in the material was observed. The sample is thought to be representative of the lagoon material remaining after the closure operations by the facility including backfilling of the lagoon. The sample results (Attachment A) indicate the soil to have concentrations of chromium, antimony and lead of 1%, 0.1%, and 0.1%, respectively.

A groundwater monitoring well located on MRI Corporation property adjacent to the northwest boundary of M & T Chemicals, Inc., was sampled during a separate inspection of th MRI Corporation property (report dated September 9, 1982). The results of that monitoring (Attachment B) indicate the presence of chromium and antimony in mg/L concentrations in the groundwater.

Figure 2
Site
M & T Chemicals, Inc., Balto., Md.

Exhibit No. A 146
Page No. 8



Attachment A
Analytical Results of Soil Sample
M & T Chemicals, Inc.

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: M+T Chemicals INC. Balt, Md

SAMPLERS: (Signature) [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Metals						REMARKS
T I	9/9/82	1115		✓	100 yds N. [illegible] 200' [illegible] Rear Fence Mid way Between Railroad Tracks in Filled in Lagoon Area	1							3-2692

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/9/82 1145	Janet Roberson 9/10/82	Janet Roberson	9/13/82 8:40	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		[signature]	9/14/82 1330		

ORIGINAL (Red)

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

MDEHL, NC FIELD OFFICE

ANALYSIS REQUEST AND REPORT FORM

8209144110 ORIGINAL (Red)

STREET # SAMPLE # PO# 3-2692

SOURCE M & T CHEMICALS INC.

LOCATION Baltimore MD

RECEIVING STREAM COUNTY STATE

SAMPLE: WATER SEDIMENT ✓ INFLUENT EFF. TIDE: EBB FLOOD NONE

SAMPLE WEIGHT SAMPLER WITNESS

FIELD METER NO.: P'L COND D.O. FLOW

STORET STATION NO.: SC, , ☐ DEPTH: D , (GRAB-TIME YYMMDDHHMM)

☐ GRAB: DATE-TIME 8209 08 1115 , ☐ COMP (2) ,

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

ANALYSIS	RESULTS		ANALYSIS	RESULTS		ANALYSIS	RESULTS
P10 Temp. (Phase-1)°C			P500 Total, mg/l S			✓ P929 Tot. Na. mg/l	5300
P00 pH			P70300 Dissol. mg/l O			P1105 Tot. Al. mg/l	
P95 Cond., mhos/cm			P530 Suspend. mg/l I			✓ P1097 Tot. Sb. ug/l	990
P310 D.O., mg/l			P505 Vol., mg/l D			✓ P1002 Tot. As. ug/l	1.8
P301 D.O. SAT.			P38330 MBAS, mg/l S			✓ P1007 Tot. Ba. ug/l	260
P61 Flow, cfs			P32730 Phenols, ug/l			✓ P1027 Tot. Cd. ug/l	2.3
P63 Flow, mgd			P720 Cyanide, mg/l			✓ P1034 Tot. Cr. ug/l	9500
P70300 Acidity, mg/l (H)			✓ P1032 Hex. Cr. ug/l	2 ug/l		✓ P1042 Tot. Cu. ug/l	51
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	980
P945 Sulfate, mg/l			P665 Total, mg/l P			P1055 Tot. Mn. ug/l	
P80 Color PT-CO U.			P666 Dis., mg/l H O			✓ P71900 Tot. Hg. ug/l	0.24
P70 Turbidity, JTU			P660 Ortho. PO4, mg/l S			✓ P1067 Tot. Ni. ug/l	16
P940 Chloride, mg/l			P625 TKN, mg/l			✓ P1147 Tot. Se. ug/l	<0.3
P610 TDS, mg/l			P610 NH3-N, mg/l			✓ P1077 Tot. Ag. ug/l	13
P324 BOD20, mg/l			P605 ORG.-N, mg/l			P1087 Tot. V, mg/l	
P335 COD, mg/l			P620 NO3-N, mg/l			✓ P1092 Tot. Zn. ug/l	180
P340 TOC, mg/l			P615 NO2-N, mg/l			P535 Solids, Vol Non-F	
P31672 Fec. Coli/100			P016 Tot. Cr, mg/l			Pesticides	
P1118 Fec. Coli/100			P927 Tot. Mg, mg/l			Phenols	
P1073							

Attachment B
Analytical Results of Groundwater Sampling
MRI Corp., Balto., Md.

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut
Philadelphia, Pennsylvania

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: MRI Corp. 1900 Ches Ave, Balto, Md

SAMPLERS: (Signature) [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Metals						REMARKS
MRI-1	9,9,82	1220		X	N.W. Corner of MRI prop. - Test well	1							3-2698
	9-9-82	1220			Filtered metals Blank	1							3-2700
MRI-1	9-9-82	1220		X	N.W. Corner MRI - Test well	1							3-2699
MRI-2		1305		X	Midway of property approx. 100' from West Fence (possible)	1							3-2693
MRI-3		1315		X	Midway of property, approx 300' from West Fence (possible)	1							3-2691

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/9/82 1500	Janet Roberson 9/10/82	Janet Roberson	9/13/82 8:40	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature]	Date / Time 9/14/82 1330	Remarks	

ORIGINAL (Red)

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

WHEELING FIELD OFFICE

ANALYSIS REQUEST AND RESULT FORM

REPORT # _____ SAMPLE # _____ LAB# 8209144105 OUTFALL # tag 3-2698

SOURCE MRI Corp RASIN _____

LOCATION Baltimore Md NO. OF CONTAINERS _____

RECEIVING STREAM _____ COUNTY _____ STATE _____

SAMPLE: WATER ✓ SEDIM _____ INTENT _____ EFF. _____ TIDE _____ FLOOD _____ DONE

TREE HEIGHT _____ SAMPLER _____ WITNESS _____

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

ORIGINAL (Red)

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

☐ GRAB: DATE-TIME 9/9/82 1220, ☐ COMP (2) _____

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

ANALYSIS	RESULTS		ANALYSIS	RESULTS		ANALYSIS	RESULTS
P10 Temp. (Water) °C			P500 Total, mg/l S		✓	P929 Tot. Na, mg/l	160,0
P400 pH			P70300 Dissol. mg/l O L			P1105 Tot. Al, ug/l	
P95 Cond., umhos/cm			P530 Suspend. mg/l I D		✓	P1097 Tot. Sb, ug/l	250
P300 D.O., mg/l			P505 Vol., mg/l S		✓	P1002 Tot. As, ug/l	<5
P301 BOD, EPT.			P38260 MBAS, mg/l		✓	P1007 Tot. Ba, ug/l	<100
P61 Flow, cfs			P32730 Phenols, ug/l		✓	P1027 Tot. Cd, ug/l	<10
P88 Flow, gpm			P720 Cyanide, mg/l		✓	P1034 Tot. Cr, ug/l	7800
P71[illegible] Acidity, mg/l (H)			P1032 Hex. Cr, ug/l			P1042 Tot. Cu, ug/l	
P[illegible] Alkalinity, mg/l			P550 Oil-Grease mg/l			P1045 Tot. Fe, ug/l	
P[illegible] Hardness, mg/l			P950 Fluoride, mg/l		✓	P1051 Tot. Pb, ug/l	1500
P945 Sulfate, mg/l			P665 Total, mg/l P			P1055 Tot. Mn, ug/l	
P[illegible] Color PT-CO U.			P666 Dis., mg/l H O		✓	P71900 Tot. Hg, ug/l	0,3
P[illegible] Turbidity, JCU			P660 Ortho, PO4, mg/l S		✓	P1067 Tot. Ni, ug/l	300
P940 Chloride, mg/l			P625 TKN, mg/l		✓	P1147 Tot. Se, ug/l	<5
P[illegible] BOD5, mg/l			P610 NH3-N, mg/l		✓	P1077 Tot. Ag, ug/l	<10
P[illegible] [illegible], mg/l			P605 ORG.-N, mg/l			P1087 Tot. V, ug/l	
P[illegible] [illegible], mg/l			P620 NO3-N, mg/l			P1092 Tot. Zn, ug/l	
P[illegible] [illegible], mg/l			P615 NO2-N, mg/l			P535 Solids, Vol Non-F	
P[illegible] Tot. Coli/100			P916 Tot. Ca, mg/l			Pesticides	
P[illegible] Tot. Coli/100			P927 Tot. Mg, mg/l			Metals	
P[illegible] [illegible]			P937 Tot. K, mg/l			Vol. Org.	

WHEELING PTY OFFICE

ANALYSIS REQUEST AND REPORT

8209144106

ORIGINAL (Red)

PERMIT # _____ SAMPLE # Filtered Blank LAB # _____ DATE # Aug 3-27-00

SOURCE M R I Corp. BASIN _____

LOCATION 1900 Ches. Ave. Baltimore, Md. NO. OF CONTAINERS _____

RECEIVING STREAM _____ COUNTY _____ STATE _____

SAMPLE: WATER ✓ SEDMT _____ INPUT _____ 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 8209001220, ☐ COMP (2) _____

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

ANALYSIS	RESULTS		ANALYSIS	RESULTS		ANALYSIS	RESULTS
P10 Temp. (Water) °C			P500 Total, mg/l S		✓	P929 Tot. Na, ug/l	600
P400 B			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	<5
P300 D.O., mg/l			P505 S Vol., mg/l		✓	P1002 Tot. As, ug/l	<5
P301 %D.O. SAT.			P38260 MBAS, mg/l		✓	P1007 Tot. Ba, ug/l	<100
P61 Flow, cfs			P32730 Phenols, ug/l		✓	P1027 Tot. Cd, ug/l	<10
P58 Flow, gpm			P720 Cyanide, mg/l		✓	P1034 Tot. Cr, ug/l	<10
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	<5
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 Tot. Hg, ug/l	<0.2
P70 Turbidity, JCU			P660 S Ortho. PO4, mg/l		✓	P1067 Tot. Ni, ug/l	<20
P940 Chloride, mg/l			P625 TKN, mg/l		✓	P1147 Tot. Se, ug/l	<5
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	
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 Tot. Coli/100			P915 Tot. Ca, mg/l			Pesticides	
P31616 Fec. Coli/100			P927 Tot. Mg, mg/l			Metals	
P31673 Fec. Strep/100			P9[illegible] Tot. K, mg/l			Vol. Org.	

Test Well

WHEELING FIT OFFICE

ANALYSIS REQUEST AND RESULT FOR: 8209144107

PERMIT # SAMPLE # 8209144107 DATE Aug 3-26 99

EQUALS MRI test Well

LOCATION Baltimore, Md. NO. OF CONTAINERS

RECEIVING STREAM COUNTY STATE

SAMPLE: WATER ✓ SEDIMENT INFINT EFF. TIDE: EBB FLOOD NONE

GAGE HEIGHT SAMPLER WITNESS

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

ORIGINAL (Red)

STORET STATION NO.: SC, DEPTH: D (DATE-TIME YYMMDDTTTT)

GRAB: DATE-TIME 8209091220, COMP (2)

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

ANALYSIS	RESULTS	ANALYSIS	RESULTS	ANALYSIS	RESULTS
P10 Temp. (Water) °C		P500 Total, mg/l S		✓ P929 Tot. Fe, ug/l	150.0
P400 pH		P70300 Diesel, mg/l O L		P1105 Tot. Al, ug/l	
P95 Cond., umhos/cm		P530 Suspend. mg/l I D		✓ P1097 Tot. Sb, ug/l	250
P300 D.O., mg/l		P505 Vol., mg/l S		✓ P1002 Tot. As, ug/l	<5
P301 %D.O. SAT.		P30260 MBAS, mg/l		✓ P1007 Tot. Ba, ug/l	<100
P61 Flow, cfs		P32730 Phenols, ug/l		✓ P1027 Tot. Cd, ug/l	<10
P58 Flow, mgm		P720 Cyanide, mg/l		✓ P1034 Tot. Cr, ug/l	6100
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	9.0
P945 Sulfate, mg/l		P665 Total, mg/l P		P1055 Tot. Mn, ug/l	
P80 Color PT-CO U.		P666 Dis., mg/l H O		✓ P71900 Tot. Hg, ug/l	<0.2
P70 Turbidity, JCU		P650 Ortho. PO4, mg/l S		✓ P1067 Tot. Ni, ug/l	240
P940 Chloride, mg/l		P625 TKN, mg/l		✓ P1147 Tot. Se, ug/l	<5
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	
P335 COD, mg/l		P620 NO3-N, mg/l		P1092 Tot. Zn, ug/l	
P680 TOC, mg/l		P615 NO2-N, mg/l		P533 Solids, Vol Non-F	
P31501 Tot. Coli/100		P916 Tot. Ca, mg/l		Pesticides	
P31616 Fec. Coli/100		P927 Tot. Mg, mg/l		Metals	
P31673 Fec. Strep/100		P937 Tot. K, mg/l		Vol. Org.	

EPA

POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION: III | SITE NUMBER (to be assigned by HQ): MD 10044

ORIGINAL (Red)

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

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

I. SITE IDENTIFICATION

A. SITE NAME: M & T Chemicals, Inc.

B. STREET (or other identifier): 1900 Chesapeake Avenue

C. CITY: Baltimore

D. STATE: MD

E. ZIP CODE: 21226

F. COUNTY NAME:

G. OWNER/OPERATOR (If known)

1. NAME: Allan Thornton/Plant Manager

2. TELEPHONE NUMBER: (301) 355-3700

H. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE ☐ 6. UNKNOWN

I. SITE DESCRIPTION: Manufacturer of antimony oxide, and sold mainly to the plastics industry as a fire retardant; blends chrome alloys and sells to the plating industry.

J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.): Owner notified under 103(c) of CERCLA

K. DATE IDENTIFIED (mo., day, & yr.): 06-05-81

L. PRINCIPAL STATE CONTACT

1. NAME: Jim Francis

2. TELEPHONE NUMBER: (301) 383-5734

II. PRELIMINARY ASSESSMENT (complete this section last)

A. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE ☐ 5. UNKNOWN

B. RECOMMENDATION

☐ 1. NO ACTION NEEDED (*no hazard*)

☐ 2. IMMEDIATE SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR:
b. WILL BE PERFORMED BY:

☐ 3. SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR:
b. WILL BE PERFORMED BY:

☐ 4. SITE INSPECTION NEEDED (*low priority*)

C. PREPARER INFORMATION

1. NAME: Robert L. Vallandingham

2. TELEPHONE NUMBER: (301) 224-2740

3. DATE (mo., day, & yr.): 09-08-82

III. SITE INFORMATION

A. SITE STATUS

☐ 1. ACTIVE (*Those industrial or municipal sites which are being used for waste treatment, storage or disposal on a continuing basis, even if infrequently.*)

☒ 2. INACTIVE (*Those sites which no longer receive wastes.*)

☐ 3. OTHER (*specify*): (*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?

☐ 1. NO ☒ 2. YES (*specify generator's four-digit SIC Code*):

C. AREA OF SITE (*in acres*): Approx. 1 acre

D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES

1. LATITUDE (*deg.-min.-sec.*):

2. LONGITUDE (*deg.-min.-sec.*):

E. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO ☒ 2. YES (*specify*): Office - Lab - Processing

Continued From Front

IV. CHARACTERIZATION OF SITE ACTIVITY

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

ORIGINAL (Red)

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		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK	X	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. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED Presently store chromic acid process wastewater in above ground holding tanks, approx. 9,000 gal/mo. Also antimony process washwater stored in above ground tanks. All wastewaters are shipped to Chem Clear for treatment and disposal (approx. 136,000 gallons/6 months)

V. WASTE RELATED INFORMATION

A. WASTE TYPE

[ ] 1 UNKNOWN [X] 2 LIQUID [ ] 3. SOLID [ ] 4. SLUDGE [ ] 5. GAS

B. WASTE CHARACTERISTICS

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

[ ] 10. OTHER (specify):

C. WASTE CATEGORIES

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

Manifests

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

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT 40,000	AMOUNT	AMOUNT
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE gallons/month	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 SMLTG. WASTES	(4) MUNICIPAL
(5) OTHER (specify):			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(6) OTHER (specify):
			(6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify)		

Continued From Page 2

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending ord

ORIGINAL (Red)

Hexavalent chrome
Total chrome
Total Lead

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

Company stores liquid waste washwaters in holding tanks above ground, and ships to Chem Clear for disposal. In 1960 hex. chrome was disposed of in pits and buried in drums on back of M & T and MRI properties. Drums probably never removed. In 1980, lagoons were cleaned and covered. Waste was shipped to BRI and I. U. Conversions.

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY				
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER	X			
8. CONTAMINATION OF SURFACE WATER				
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL	X			
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify):				

Continued From Front

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

[X] 1. NPDES PERMIT [ ] 2. SPCC PLAN [X] 3. STATE PERMIT (specify): Air - RCRA - NPDES

[X] 4. AIR PERMITS [ ] 5. LOCAL PERMIT [ ] 6. RCRA TRANSPORTER

[ ] 7 RCRA STORER [ ] 8. RCRA TREATER [ ] 9. RCRA DISPOSER

[X] 10. OTHER (specify): RCRA Generator # MDD 003084464

B. IN COMPLIANCE?

[X] 1. YES [ ] 2. NO [ ] 3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number): _____

VIII. PAST REGULATORY ACTIONS

[X] A. NONE [ ] B. YES (summarize below)

IX. INSPECTION ACTIVITY (past or on-going)

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

1. TYPE OF ACTIVITY	2 DATE OF PAST ACTION (mo., day, & yr.)	3 PERFORMED BY: (EPA/State)	4. DESCRIPTION

X. REMEDIAL ACTIVITY (past or on-going)

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

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION

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