REDACTED VERSION

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: GRANT ROAD DRUMS
TXD980505195

SITE NUMBER: TXD G2

INDEX DATE: 10/25/90

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NL Vol 1

9796575

GRANT ROAD DRUMS

TXD G2

The Administrative Record Index is arranged with the following structure:

I. CHRONOLOGICAL LISTING
This section of the index contains all records of the file arranged chronologically.

II. CATEGORIZED LISTING
This section of the index is arranged by subject headings as follows:

1.0 SITE IDENTIFICATION
- 1.1 Background Information
- 1.2 Notification/Site Inspection Reports
- 1.3 Preliminary Assessment (PA) Report
- 1.4 Site Investigation (SI) Report
- 1.5 Previous Operable Unit Information

2.0 REMOVAL RESPONSE
- 2.1 Sampling and Analysis Plans
- 2.2 Sampling and Analysis Data/Chain of Custody
- 2.3 EE/CA Approval Memorandum
- 2.4 EE/CA
- 2.5 Action Memorandum
- 2.6 Amendments to Action Memorandum

3.0 REMEDIAL INVESTIGATION (RI)
- 3.1 Sampling and Analysis Plan (SAP)
- 3.2 Sampling and Analysis Data/Chain of Custody
- 3.3 Work Plan
- 3.4 RI Reports

4.0 FEASIBILITY STUDY (FS)
- 4.1 ARAR Determinations
- 4.2 FS Reports
- 4.3 Proposed Plan
- 4.4 Supplements and Revisions to Proposed Plan

5.0 RECORD OF DECISION (ROD)
- 5.1 ROD
- 5.2 Amendments to ROD
- 5.3 Explanations of Significant Differences

6.0 STATE COORDINATION
- 6.1 Cooperative Agreements/SMOAs
- 6.2 State Certification of ARARs

7.0 ENFORCEMENT
- 7.1 Enforcement History
- 7.2 Endangerment Assessments
- 7.3 Administrative Orders
- 7.4 Consent Decrees
- 7.5 Affidavits
- 7.6 Technical Discussions with PRPs
- 7.7 Notice Letters and Responses

8.0 HEALTH ASSESSMENTS
- 8.1 ATSDR Health Assessments
- 8.2 Toxicological Profiles

9.0 NATURAL RESOURCE TRUSTEES
- 9.1 Notices Issued
- 9.2 Findings of Fact
- 9.3 Reports

10.0 PUBLIC PARTICIPATION
- 10.1 Comments and Responses
- 10.2 Community Relations Plan
- 10.3 Public Notices
- 10.4 Public Meeting Transcripts
- 10.5 Documentation of Other Public Meetings
- 10.6 Fact Sheets and Press Releases
- 10.7 Responsiveness Summary
- 10.8 Late Comments

11.0 TECHNICAL SOURCES AND GUIDANCE DOCUMENTS
- 11.1 EPA Headquarters Guidance
- 11.2 EPA Regional Guidance
- 11.3 State Guidance
- 11.4 Technical Sources

I. CHRONOLOGICAL LISTING

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: GRANT ROAD DRUMS
SITE NUMBER: TXD G2

DOCUMENT NUMBER: 000001 - 000001
DOCUMENT DATE: 06/26/87
NUMBER OF PAGES: 1
AUTHOR: James C. Staves, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: Memorandum
DOCUMENT TITLE: Notification from EPA concerning Grant Rd Drum Site; and, discussion regarding the Site Assessment.

DOCUMENT NUMBER: 000002 - 000002
DOCUMENT DATE: 06/29/87
NUMBER OF PAGES: 1
AUTHOR: James C. Staves, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: Memorandum
DOCUMENT TITLE: Site inspection, at which a total of sixty drums were identified and four samples were collected.

DOCUMENT NUMBER: 000003 - 000031
DOCUMENT DATE: 07/30/87
NUMBER OF PAGES: 29
AUTHOR: Michael Daggett, Chief, Organic Lab Section, Houston Branch
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: Diana Ayers, Chief, U.S. EPA Region 6 - Houston Branch
DOCUMENT TYPE: Memorandum
DOCUMENT TITLE: Organic Laboratory results for the Grant Road Site 7TFAKC1201 through 7TFAKC1204. This is a final report.

DOCUMENT NUMBER: 000032 - 000052
DOCUMENT DATE: 09/10/87
NUMBER OF PAGES: 21
AUTHOR: Richard Yeager, TAT Member, Houston
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: James Staves, OSC, ERB, U.S. EPA Region 6
DOCUMENT TYPE: Report
DOCUMENT TITLE: Site Assessment and Sampling Mission at Grant Road Drum Site, where abandoned drums were reported in the north part of Houston. TAT investigated the area.

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME: GRANT ROAD DRUMS
SITE NUMBER: TXD G2

DOCUMENT NUMBER: 000053 - 000053
DOCUMENT DATE: 09/11/87
NUMBER OF PAGES: 1
AUTHOR: James C. Staves, OSC, ERB
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: U.S. EPA Region 6 Site Files
DOCUMENT TYPE: Project Notes
DOCUMENT TITLE: Emergency Response Preliminary Assessment comments

DOCUMENT NUMBER: 000054 - 000077
DOCUMENT DATE: 10/23/87
NUMBER OF PAGES: 24
AUTHOR: Diana Ayers, Chief, Houston Branch
COMPANY/AGENCY: U.S. EPA Region 6
RECIPIENT: Charles Gazda, Chief, ERB, U.S. EPA Region 6
DOCUMENT TYPE: Memorandum and Attachments
DOCUMENT TITLE: Laboratory results for Grant Road Drum Site, two water samples, one soil sample, and one oil sample. This was a final report.

DOCUMENT NUMBER: 000078 - 000091
DOCUMENT DATE: 11/16/87
NUMBER OF PAGES: 14
AUTHOR: Technical Assistance Team
COMPANY/AGENCY: Ecology and Environment, Inc.
RECIPIENT: J. Chris Petersen, Deputy Project Office, ERB, U.S. EPA Region 6
DOCUMENT TYPE: Site Assessment Report
DOCUMENT TITLE: Site Assessment and Sampling Grant Road Drum Site, Houston, Harris County, Texas, with attachments (Contains Draft Removal Action Memorandum, Site Map and Sketch, etc)

DOCUMENT NUMBER: 000092 - 000092
DOCUMENT DATE: 08/12/88
NUMBER OF PAGES: 1
AUTHOR: Hazardous Waste Management Division
COMPANY/AGENCY: None Specified
RECIPIENT: Robert E. Layton, U.S. EPA Region 6
DOCUMENT TYPE: Action Memorandum
DOCUMENT TITLE: Enforcement Confidential

ADMINISTRATIVE RECORD INDEX

FINAL

SITE NAME:	GRANT ROAD DRUMS
SITE NUMBER:	TXD G2
DOCUMENT NUMBER:	000093 - 000099
DOCUMENT DATE:	08/12/88
NUMBER OF PAGES:	7
AUTHOR:	James C. Staves, OSC, ERB, Field Response Section
COMPANY/AGENCY:	U.S. EPA Region 6
RECIPIENT:	Robert E. Layton Jr., P.E., Regional Administrator, U.S. EPA Region 6
DOCUMENT TYPE:	Action Memorandum
DOCUMENT TITLE:	The proposed action involves moving sixty 55-gallon drums suspected to contain waste solvents and paint pigments, from an unused field in Houston, Texas

[illegible] 6/25/87

SUBJECT: Grant Road Drum Site

1. On 6/25/87 Kendall Young, of the EPA Houston, has informed me that he has recieved a complaint from (b) (6) [redacted] of Warner Cable Co. about an abandoned drum storage site located at 9602 Grant Rd, Houston, Tx. I called (b) (6) [redacted] and obtained information neccessary to complete an incident notification report. (b) (6) [redacted] reported seeing about 50 drumes. 3 of which were labelled annydrous aluminum chloride, a compound that reacts explosively with water. The drums were reportedly about 200 ft from a strip mall, and 1300 ft rom a child day care facility.

2. At 1300 hrs, 6/25/87, I verbally instructed TAT to perform an immediate site inspection and issued TDD No. 8706-37. I also informed TAT that I would be travelling to the site on 6/29/87 and requested that they accompany me and collect soil samples for priority pollutant analyses. I notified Connie Gucci, EPA Houston lab, that we would be bringing the samples to them on 6/29/87. I contacted Mr. Dave Barker of the TWC and told him about the site and my intention to perform a site assessment.

3. At 1500 hrs, 6/25/87, I was contacted by Mr. Jerry Spetseris of the TWC, who informed me that they were familiar with the site and that a PRP was coordinating with them and would obtain a contractor to perform site cleanup. However, a thorough site inspection has not been performed and no samples had been analysed. Therefore I decided to continue with the site assessment.

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MEMORANDUM FOR RECORD 6/29/87

SUBJECT: Grant Road Drum Site

1. At 0740 hrs, 6/29/87, I arrived at Houston Intercontinental Airport, where I was met by TAT representatives Edward Fry, Richard Yeager, and Jack McLaughlin. We travelled to the site and, established a base of operations on FM Road 149, near an abandoned mobile home. We were met there by Mr. Jerry Spetseris of TWC.

2. With the assistanced of Mr. Spetseris, we performed a site inspection and identified a total of 60 drums. 49 of the drums were neatly stacked along a fence on the southern border of the property and the remaining 11 were scattered along the northern boundary. The stacked drums appeared to be in good condition, while those scattered on the northern property boundary were corroded and several contained holes or had been opened. Mr. Spetseris had previously examined the contents of one of the open drums and described it as being a "paint like" substance.

3. In accordance with my instructions, TAT collected 4 soil samples for priority pollutant analyses. Sample 1 was taken near a cluster of three drums on the northern site boundary. Samples 2, 3, and 4 were taken near the stacked drums on the southern boundary. Level B protective clothing was worn during sample collection.

4. The samples were delivered to the EPA Houston Lab by the TAT crew.

5. The site is well concealed by vegetation, and at present there are no signs of human disturbance. Most of the drums appear to be intact and there is no evidince of any significant leakage. Many of the wooden palates on which the drums are sitting are in advanced stages of decay, which indicates that the site is probably several years old. It is unlikely that the drums contain aluminum chloride, as labelled.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

MEMORANDUM

Date: 7/30/87

Subject: Organic Laboratory Results for Grant Road Site (7TFAKC12)

From: Michael Daggett, Chief, Organic Lab Section; 6E-HL

To: Diana Ayers, Chief, Houston Branch; 6E-H

Attached are the Organic Laboratory results for samples 7TFAKC1201 through 7TFAKC1204. These samples were analyzed for VOAs, ABNs, Pesticides, and Herbicides. No VOAs were detected. In sample 7TFAKC1201 (ABN), bis (2-Ethylhexyl) Phthalate was found at a concentration of 15,500 ug/kg. In samples 7TFAKC1203 and 7TFAKC1204 (ABN), several unknown peaks were found along with Gamma-Chlordane as a Tentatively Identified Compound in 7TFAKC1204. No Pesticides or Herbicides were detected.

This is a final report.

Attachments

ate: 07/30/87

1 of +

Appendix (

U.S. ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC12 Date Recvd: 06/30/87 Date Collected: 06/29/87
Sample Number: 1 Time Recvd: 08:00 Time Collected: 11:15

Source: GRANT RD Tag Number:
Site Description: Sta#01 Sta 01 site sketch
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: MET
Inorganic: CN
Biology:

Due Date: 07/28/87
Date Projected: 07/28/87
Date Completed: 07/30/87
Comment:
Your Initials: LC

000004

2/29

Attachment 1

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC12-01 DATE REPORTED: 7/27/87

SAMPLE TYPE: SOIL ANALYST: MARVELYN HUMPHERY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/KG	COMPOUND	ug/KG
Phenol	nd dl=440	Acenaphthene	nd dl=220
bis(2-Chloroethyl) Ether	nd dl=220	2,4-Dinitrophenol	nd dl=2200
2-Chlorophenol	nd dl=440	4-Nitrophenol	nd dl=880
1,3-Dichlorobenzene	nd dl=220	Dibenzofuran	nd dl=220
1,4-Dichlorobenzene	nd dl=220	2,4-Dinitrotoluene	nd dl=660
Benzyl Alcohol	nd dl=440	2,6-Dinitrotoluene	nd dl=660
1,2-Dichlorobenzene	nd dl=220	Diethylphthalate	nd dl=220
2-Methylphenol	nd dl=660	4Chlorophenylphenyl Ether	nd dl=880
bis(2-chloroisopropyl)Ether	nd dl=220	Fluorene	nd dl=220
4-Methylphenol	nd dl=660	4-Nitroaniline	nd dl=880
N-Nitroso-Di-n-Propylamine	nd dl=660	4,6-Dinitro-2-Methylphenol	nd dl=2200
Hexachloroethane	nd dl=220	N-Nitrosodiphenylamine	nd dl=440
Nitrobenzene	nd dl=220	4-Bromophenylphenyl Ether	nd dl=660
Isophorone	nd dl=440	Hexachlorobenzene	nd dl=220
2-Nitrophenol	nd dl=1100	Pentachlorophenol	nd dl=1100
2,4-Dimethylphenol	nd dl=660	Phenanthrene	nd dl=220
Benzoic Acid	nd dl=1100	Anthracene	nd dl=220
bis(2-Chloroethoxy)Methane	nd dl=220	Di-n-Butylphthalate	nd dl=220
2,4-Dichlorophenol	nd dl=660	Fluoranthene	nd dl=220
1,2,4-trichlorobenzene	nd dl=220	Benzidine	nd dl=2200
Naphthalene	nd dl=220	Pyrene	nd dl=220
4-Chloroaniline	nd dl=440	Butylbenzylphthalate	nd dl=440
Hexachlorobutadiene	nd dl=220	3,3'-Dichlorobenzidine	nd dl=1100
4-Chloro-3-Methylphenol	nd dl=880	Benzo(a)Anthracene	nd dl=880
2-Methylnaphthalene	nd dl=220	bis(2-Ethylhexyl)Phthalate	13500
Hexachlorocyclopentadiene	nd dl=1100	Chrysene	nd dl=880
2,4,6-Trichlorophenol	nd dl=660	Di-n-Octyl Phthalate	nd dl=440
2,4,5-Trichlorophenol	nd dl=660	Benzo(b)Fluoranthene	nd dl=880
2-Chloronaphthalene	nd dl=220	Benzo(k)Fluoranthene	nd dl=880
2-Nitroaniline	nd dl=880	Benzo(a)Pyrene	nd dl=880
DimethylPhthalate	nd dl=220	Indeno(1,2,3-cd) Pyrene	nd dl=880
Acenaphthylene	nd dl=220	Dibenzo(a,h)Anthracene	nd dl=880
3-Nitroaniline	nd dl=880	Benzo(g,h,i)Perylene	nd dl=880

3/29

Attachment 1

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAKC12-01 DATE REPORTED: 7/29/87

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

SCAN#	CAS #	EST. CONC (ug/KG)	COMPOUND NAME
			NO SEMI-VOLATILE COMPOUNDS FOUND.

000006

4/29

* ANALYSTS NOTE ! THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPEC INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.

** ESTIMATED CONCENTRATION IS BASED ON A 1:1 RATIO TO INTERNAL STANDARD

Attachment: 1

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TTAKC1201 DATE REPORTED: 07/10/87

SAMPLE TYPE: SOIL

ANALYST: R.A. MCMILLIN

VOLATILE COMPOUNDS BY METHOD 624

MS#	CAS#		(ug/kg)
	67-64-1	acetone	ND DL= 50
(2V)	107-02-8	acrolein	ND DL=1000
(3V)	107-13-1	acrylonitrile	ND DL=1000
(4V)	71-43-2	benzene	ND DL= 20
	78-93-3	2-butanone	ND DL= 50
	75-15-0	carbon disulfide	ND DL= 20
(6V)	56-23-5	carbon tetrachloride	ND DL= 20
(7V)	108-90-7	chlorobenzene	ND DL= 20
(10V	107-06-2	1,2-dichloroethane	ND DL= 20
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 20
(13V)	75-34-3	1,1-dichloroethane	ND DL= 20
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 20
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 20
(16V)	75-00-3	chloroethane	ND DL= 50
(23V)	67-66-3	chloroform	ND DL= 20
(29V)	75-35-4	1,1-dichloroethene	ND DL= 20
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 20
(32V)	78-87-5	1,2-dichloropropane	ND DL= 20
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 20
	10061-01-5	cis-1,3-dichloropropene	ND DL= 20
(38V)	100-41-4	ethylbenzene	ND DL= 20
	519-78-6	2-hexanone	ND DL= 50
	108-10-1	4-methyl-2-pentanone	ND DL= 50
(44V)	75-09-2	methylene chloride	ND DL= 20
(45V)	74-87-3	chloromethane	ND DL= 50
(46V)	74-83-9	bromomethane	ND DL= 50
(47V)	75-25-2	bromoform	ND DL= 20
(48V)	75-27-4	bromodichloromethane	ND DL= 20
(51V)	124-48-1	chlorodibromomethane	ND DL= 20
	100-42-5	styrene	ND DL= 50
(85V)	127-18-4	tetrachloroethene	ND DL= 20
(86V)	108-88-3	toluene	ND DL= 20
(87V)	79-01-6	trichloroethene	ND DL= 20
	108-05-4	vinyl acetate	ND DL= 50
(88V)	75-01-4	vinyl chloride	ND DL= 50
	108-38-3	m-xylene	ND DL= 20
	95-47-6	o-xylene and/or	
	106-42-3	p-xylene	ND DL= 20

000007

5/29

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC1201 DATE REPORTED: 07/10/87

SAMPLE TYPE: SOIL

ANALYST: R.A. MCMILLIN

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/Kg)	COMPOUND NAME
			No VOA TIC's detected.

000008

6/29

ATTACHMENT 1

PESTICIDE/PCB ANALYSIS

6ES-HL SAMPLE NO.:7TFAKC1201 DATE REPORTED:7/29/87

SAMPLE TYPE:SOIL

ANALYST: L.C.MINER,JR, CHEMIST

PP#	CAS#		UG/G (PPM)
(89P)	309-00-2	aldrin	ND DL=< 0.04
(90P)	60-57-1	deildrin	ND DL=< 0.08
(91P)	57-74-9	chlorodane	ND DL=< 0.20
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.08
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.08
(94P)	72-54-8	4,4'-DDD	ND DL=< 0.08
(95P)	115-29-7	a-endosulfan	ND DL=< 0.04
(96P)	115-29-7	b-endosulfan	ND DL=< 0.04
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 0.08
(98P)	72-20-8	endrin	ND DL=< 0.08
(99P)	7421-93-4	endrin aldehyde	ND DL=< 0.08
(100P)	76-44-8	heptachlor	ND DL=< 0.04
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 0.04
(102P)	319-84-6	a-BHC	ND DL=< 0.04
(103P)	319-85-7	b-BHC	ND DL=< 0.04
(104P)	319-86-8	d-BHC	ND DL=< 0.08
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.04
(106P)	53469-21-9	PCB-1242	ND DL=< 1.00
(107P)	11097-69-1	PCB-1254	ND DL=< 1.00
(108P)	11104-28-2	PCB-1221	ND DL=< 1.00
(109P)	11141-16-5	PCB-1232	ND DL=< 1.00
(110P)	12672-29-6	PCB-1248	ND DL=< 1.00
(111P)	11096-82-5	PCB-1260	ND DL=< 1.00
(112P)	12674-11-2	PCB-1016	ND DL=< 1.00
(113P)	8001-35-2	toxaphene	ND DL=< 2.00
		methoxychlor	ND DL=< 0.10
		mirex	ND DL=< 0.20
		PCB-1262	ND DL=< 1.00
		HERBICIDES BY GC/EC	
	94-75-7	2,4-D	ND DL=< 0.08
	93-76-5	2,4,5-T	ND DL=< 0.08
		SILVEX	ND DL=< 0.08

000009

ND DL= NOT DETECTED

7/29

ATTACHMENT 1

HOUSTON LABORATORY

PRIORITY POLLUNTANTS METALS

SAM. # 7TFAKC1201 RECEIVED 6/29/87

SOURCE: GRANT ROAD REPORTED 7/29/87

SAMP.TYPE SOIL ANALYST M.COLE/R.CLARK

PARAMETER		CONC	UNITS	DETECTION LIMITS < OR =
AS		2.00	MG/KG	0.53
SE	ND < =	2.67	MG/KG	2.67
TL	ND < =	0.53	MG/KG	0.53
HG	ND < =	1.05	MG/KG	1.05
SB	ND < =	12.8	MG/KG	12.8
BE	ND < =	1.1	MG/KG	1.1
CD	ND < =	1.1	MG/KG	1.1
CR		10.5	MG/KG	2.1
CU		2.6	MG/KG	2.1
PB		11.1	MG/KG	6.4
NI		3.2	MG/KG	2.1
AG	ND < =	2.1	MG/KG	2.1
ZN		35.1	MG/KG	2.1

ANALYSIS CALCULATED ON A DRY WEIGHT BASIS

INORGANICS

Cn < 0.05 MG/KG *

*** Some interferring material in sample which caused distillate to be cloudy. Value may not be reliable.**

000010

8/29

Date: 07/30/87

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Attention 2

ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC12 Date Recvd: 06/30/87 Date Collected: 06/29/87
Sample Number: 2 Time Recvd: 08:00 Time Collected: 11:30

Source: GRANT RD Tag Number:
Site Description: Sta#02 Sta 02 site sketch
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: MET
Inorganic: CN
Biology:

Due Date: 07/28/87
Date Projected: 07/28/87
Date Completed: 07/30/87
Comment:
Your Initials: LC

000011

9/29

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAK012-02 DATE REPORTED: 7/29/87

SAMPLE TYPE: SOIL ANALYST: MARVELLYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/KG	COMPOUND	ug/KG
Phenol	nd dl=440	Acenaphthene	nd dl=220
bis(2-Chloroethyl) Ether	nd dl=220	2,4 Dinitrophenol	nd dl=3300
2-Chlorophenol	nd dl=440	4-Nitrophenol	nd dl=880
1,3-Dichlorobenzene	nd dl=220	Dibenzofuran	nd dl=220
1,4-Dichlorobenzene	nd dl=220	2,4 Dinitrotoluene	nd dl=660
Benzyl Alcohol	nd dl=440	2,6-Dinitrotoluene	nd dl=660
1,2-Dichlorobenzene	nd dl=220	Diethylphthalate	nd dl=220
2-Methylphenol	nd dl=660	4Chlorophenylphenyl Ether	nd dl=660
bis(2-chloroisopropyl)Ether	nd dl=220	Fluorene	nd dl=220
4-Methylphenol	nd dl=660	4-Nitroaniline	nd dl=880
N-Nitroso-Di-n-Propylamine	nd dl=660	4,6 Dinitro-2 Methylphenol	nd dl=1100
Hexachloroethane	nd dl=220	N-Nitrosodiphenylamine	nd dl=440
Nitrobenzene	nd dl=220	4-Bromophenylphenyl Ether	nd dl=660
Isophorone	nd dl=440	Hexachlorobenzene	nd dl=220
2-Nitrophenol	nd dl=1100	Pentachlorophenol	nd dl=1650
2,4-Dimethylphenol	nd dl=660	Phenanthrene	nd dl=220
Benzoic Acid	nd dl=1100	Anthracene	nd dl=220
bis(2-Chloroethoxy)Methane	nd dl=220	Di-n-Butylphthalate	nd dl=220
2,4-Dichlorophenol	nd dl=660	Fluoranthene	nd dl=220
1,2,4-trichlorobenzene	nd dl=220	Benzidine	nd dl=2200
Napnthalene	nd dl=220	Pyrene	nd dl=220
4-Chloroaniline	nd dl=440	Butylbenzylphthalate	nd dl=440
Hexachlorobutadiene	nd dl=220	3,3'-Dichlorobenzidine	nd dl=1100
4-Chloro-3-Methylphenol	nd dl=880	Benzo(a)Anthracene	nd dl=880
2-Methylnaphthalene	nd dl=220	bis(2-Ethylhexyl)Phthalate	nd dl=440
Hexachlorocyclopentadiene	nd dl=1100	Chrysene	nd dl=880
2,4,6-Trichlorophenol	nd dl=660	Di-n-Octyl Phthalate	nd dl=440
2,4,5-Trichlorophenol	nd dl=660	Benzo(b)Fluoranthene	nd dl=880
2-Chloronaphthalene	nd dl=220	Benzo(k)Fluoranthene	nd dl=880
2-Nitroaniline	nd dl=880	Benzo(a)Pyrene	nd dl=880
DimethylPhthalate	nd dl=220	Indeno(1,2,3-cd) Pyrene	nd dl=1760
Acenaphthylene	nd dl=220	Dibenzo(a,h)Anthracene	nd dl=880
3-Nitroaniline	nd dl=880	Benzo(g,h,i)Perylene	nd dl=880

000012

10/29

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC12-02 DATE REPORTED: 7/29/87

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

SCAN#	CAS #	EST.CONC (ug/KG)	COMPOUND NAME
			NO SEMI-VOLATILE COMPOUNDS FOUND.

000013

11/29

* ANALYSTS NOTE: THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE [illegible] MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA [illegible] INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard.

ORGANIC ANALYSIS DATA

6LS-HL SAMPLE NO.: 7TFAK01202 DATE REPORTED [illegible]

SAMPLE TYPE: SOIL

ANALYST: R.A. MCMILLIN

VOLATILE COMPOUNDS BY METHOD [illegible]

[illegible]	CAS#		[illegible]
	67-64-1	acetone	ND DL= [illegible]
(2V)	107-02-8	acrolein	ND [illegible]
(3V)	107-13-1	acrylonitrile	ND DL= [illegible]
(4V)	71-43-2	benzene	ND [illegible]
	78-93-3	2-butanone	ND DL= [illegible]
	75-15-0	carbon disulfide	[illegible]
(6V)	56-23-5	carbon tetrachloride	ND DL= [illegible]
(7V)	108-90-7	chlorobenzene	ND DL= 20
(10V)	107-06-2	1,2-dichloroethane	ND DL= 20
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 20
(13V)	75-34-3	1,1-dichloroethane	ND DL= 20
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= [illegible]
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 20
(16V)	75-00-3	chloroethane	ND DL= [illegible]
(23V)	67-66-3	chloroform	ND DL= [illegible]
(29V)	75-35-4	1,1-dichloroethene	ND DL= [illegible]
(30V)	156-60-5	trans-1,2-dichloroethene	[illegible]
(32V)	78-87-5	1,2-dichloropropane	[illegible]
(33V)	1006-[illegible]	trans-1,3-dichloropropane	[illegible]
	1006[illegible]	cis-1,3-dichloropropane	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
(44V)	[illegible]	methylene [illegible]	
(45V)	74-87-3	chloromethane	[illegible]
(46V)	74-83-9	bromomethane	ND DL= [illegible]
(47V)	75-25-2	bromoform	ND DL= [illegible]
(49V)	75-27-4	bromodichloromethane	[illegible]
(51V)	124-48-1	chlorodibromomethane	[illegible]
	100-42-5	[illegible]	[illegible]
(85V)	127-[illegible]	tetrachloroethene	[illegible]
(86V)	[illegible]	[illegible]	[illegible]
(87V)	[illegible]	trichloroethene	[illegible]
	[illegible]	[illegible]	
(88V)	[illegible]	vinyl chloride	[illegible]
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	

000014

12/29

ORGANIC ANALYTICAL DATA

GES-HL SAMPLE NO.: TTFAK01202 DATE [illegible]

SAMPLE TYPE: SOIL

ANALYST: R.A. MCMILLIN

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC. (ug/Kg)	COMPOUND NAME
			No VOA TIC's detected.

000015

13/29

Attachment L

PESTICIDE/PCB ANALYSIS

GES-HL SAMPLE NO.:7TFAKC1202 DATE REPORTED:7/29/87

SAMPLE TYPE:SOIL

ANALYST: L.C.MINER,JR, CHEMIST

PP#	CAS#		UG/G (PPM)
(89P)	309-00-2	aldrin	ND DL=< 0.04
(90P)	60-57-1	deildrin	ND DL=< 0.08
(91P)	57-74-9	chlorodane	ND DL=< 0.20
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.08
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.08
(94P)	72-54-8	4,4'-DDD	ND DL=< 0.08
(95P)	115-29-7	a-endosulfan	ND DL=< 0.04
(96P)	115-29-7	b-endosulfan	ND DL=< 0.04
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 0.08
(98P)	72-20-8	endrin	ND DL=< 0.08
(99P)	7421-93-4	endrin aldehyde	ND DL=< 0.08
(100P)	76-44-8	heptachlor	ND DL=< 0.04
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 0.04
(102P)	319-84-6	a-BHC	ND DL=< 0.04
(103P)	319-85-7	b-BHC	ND DL=< 0.04
(104P)	319-86-8	d-BHC	ND DL=< 0.08
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.04
(106P)	53469-21-9	PCB-1242	ND DL=< 1.00
(107P)	11097-69-1	PCB-1254	ND DL=< 1.00
(108P)	11104-28-2	PCB-1221	ND DL=< 1.00
(109P)	11141-16-5	PCB-1232	ND DL=< 1.00
(110P)	12672-29-6	PCB-1248	ND DL=< 1.00
(111P)	11096-82-5	PCB-1260	ND DL=< 1.00
(112P)	12674-11-2	PCB-1016	ND DL=< 1.00
(113P)	8001-35-2	toxaphene	ND DL=< 2.00
		methoxychlor	ND DL=< 0.10
		mirex	ND DL=< 0.20
		PCB-1262	ND DL=< 1.00
		HERBICIDES BY GC/EC********	
	94-75-7	2,4-D	ND DL=< 0.00
	93-76-5	2,4,5-T	ND DL=< 0.00
		SILVEX	ND DL=< 0.00

000016

ND DL= NOT DETECTED

14/29

HUSTON LABORATORY

PRIORITY POLLUTANTS METALS

SAMPLE # [illegible] RECEIVED [illegible]

SOURCE: [illegible] REPORTED [illegible]

SAMPLE TYPE: SOIL [illegible]

PARAMETER		CONC	UNITS	DETECTION LIMITS
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]	[illegible]	[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]

[illegible] CALCULATED ON A DRY WEIGHT [illegible]

INORGANICS

Cn 0.13 Mg/Kg

15/29

Date: 07/30/87

1'67

Appendix 3

ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC12 Date Recvd: 06/30/87 Date Collected: 06/29/87
Sample Number: 3 Time Recvd: 08:00 Time Collected: 11:25

Source: GRANT RD Tag Number:
Site Description: Sta#03 Sta 03 site sketch
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: MET
Inorganic: CN
Biology:

Due Date: 07/28/87
Date Projected: 07/28/87
Date Completed: 07/30/87
Comment:
Your Initials: LC

000018

16/29

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAKC12-03 DATE REPORTED: 7/29/87

SAMPLE TYPE: SOIL ANALYST: MARVELYN HUMPHERY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/KG	COMPOUND	ug/KG
Phenol	nd dl=440	Acenaphthene	nd dl=220
bis(2-Chloroethyl) Ether	nd dl=220	2,4-Dinitrophenol	nd dl=2200
2-Chlorophenol	nd dl=440	4-Nitrophenol	nd dl=880
1,3-Dichlorobenzene	nd dl=220	Dibenzofuran	nd dl=220
1,4-Dichlorobenzene	nd dl=220	2,4-Dinitrotoluene	nd dl=660
Benzyl Alcohol	nd dl=440	2,6-Dinitrotoluene	nd dl=660
1,2-Dichlorobenzene	nd dl=220	Diethylphthalate	nd dl=220
2-Methylphenol	nd dl=660	4-Chlorophenylphenyl Ether	nd dl=660
bis(2-Chloroisopropyl)Ether	nd dl=220	Fluorene	nd dl=[illegible]
4-Methylphenol	nd dl=660	4-Nitroaniline	nd dl=[illegible]
N-Nitroso-Di-n-Propylamine	nd dl=660	4,6-Dinitro-2-Methylphenol	nd dl=[illegible]
Hexachloroethane	nd dl=220	N-Nitrosodiphenylamine	nd dl=[illegible]
Nitrobenzene	nd dl=[illegible]	4-Bromophenylphenyl Ether	nd dl=[illegible]
Isophorone	nd dl=440	Hexachlorobenzene	nd dl=[illegible]
2-Nitrophenol	nd dl=1100	Pentachlorophenol	nd dl=1650
2,4-Dimethylphenol	nd dl=660	Phenanthrene	nd dl=220
Benzoic Acid	nd dl=1100	Anthracene	nd dl=220
bis(2-Chloroethoxy)Methane	nd dl=220	Di-n-Butylphthalate	nd dl=[illegible]
2,4-Dichlorophenol	nd dl=660	Fluoranthene	nd dl=220
1,2,4-trichlorobenzene	nd dl=220	Benzidine	nd dl=[illegible]
Naphthalene	nd dl=220	Pyrene	nd dl=220
4-Chloroaniline	nd dl=440	Butylbenzylphthalate	nd dl=[illegible]
Hexachlorobutadiene	nd dl=220	3,3'-Dichlorobenzidine	nd dl=[illegible]
4-Chloro-3-Methylphenol	nd dl=880	Benzo(a)Anthracene	nd dl=[illegible]
2-Methylnaphthalene	nd dl=220	bis(2-Ethylhexyl)Phthalate	nd dl=440
Hexachlorocyclopentadiene	nd dl=1100	Chrysene	nd dl=[illegible]
2,4,6-Trichlorophenol	nd dl=660	Di-n-Octyl Phthalate	nd dl=440
2,4,5-Trichlorophenol	nd dl=660	Benzo(b)Fluoranthene	nd dl=[illegible]
2-Chloronaphthalene	nd dl=220	Benzo(k)Fluoranthene	nd dl=[illegible]
2-Nitroaniline	nd dl=880	Benzo(a)Pyrene	nd dl=880
Dimethylphthalate	nd dl=220	Indeno(1,2,3-cd) Pyrene	nd dl=880
Acenaphthylene	nd dl=220	Dibenzo(a,h)Anthracene	nd dl=880
3-Nitroaniline	nd dl=880	Benzo(g,h,i)Perylene	nd dl=880

000019

17/29

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAK012-03 DATE REPORTED: 7/29/87

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

SCAN#	CAS #	EST. CONC (ug/KG)	COMPOUND NAME
1421		4440	UNKNOWN

000020

18/29

* ANALYSIS NOTE 1 - THE COMPOUNDS LISTED ARE TENTATIVELY IDENTIFIED BY THE [illegible] MATCH WITH THE HEWLETT/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRAL INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a 1:1 ratio to internal standard.

ORGANIC ANALYSIS DATA

6ES HL SAMPLE NO.: 7TLAKC1203 DATE REPORT [illegible]

SAMPLE TYPE: SOIL

ANALYST: R.A. MCMILLIN

VOLATILE COMPOUNDS BY METHOD [illegible]

PP#	CAS#		(ug/kg)
	67-64-1	acetone	ND DL= [illegible]
(2V)	107-02-8	acrolein	ND DL=[illegible]
(3V)	107-13-1	acrylonitrile	ND DL=[illegible]
(4V)	71-43-2	benzene	ND DL= [illegible]
	78-93-3	2 butanone	ND DL= [illegible]
	75-15-0	carbon disulfide	ND DL= [illegible]
(6V)	56-23-5	carbon tetrachloride	ND DL= [illegible]
(7V)	108-90-7	chlorobenzene	ND DL= [illegible]
(10V)	107-06-2	1,2 dichloroethane	ND DL= [illegible]
(11V)	71-55-6	1,1,1 trichloroethane	ND DL= [illegible]
(13V)	75-34-3	1,1-dichloroethane	ND DL= [illegible]
(14V)	79-00-5	1,1,2 trichloroethane	ND DL= [illegible]
(15V)	79-34-5	1,1,2,2 tetrachloroethane	ND DL= [illegible]
(16V)	75-00-3	chloroethane	ND DL= [illegible]
(23V)	67-66-3	chloroform	ND DL= [illegible]
(29V)	75-35-4	1,1 dichloroethene	ND DL= [illegible]
(30V)	156-60-5	trans 1,2 dichloroethene	ND DL= [illegible]
(32V)	78-87-5	1,2 dichloropropane	ND DL= [illegible]
(33V)	10061-02-6	trans 1,3 dichloropropane	ND DL= [illegible]
	10061-01-5	cis 1,3 dichloropropane	[illegible]
(38V)	100-41-4	ethylbenzene	ND DL= [illegible]
	519-78-6	2 hexanone	[illegible]
	[illegible]	4 methyl 2 pentanone	[illegible]
(44V)	75-09-2	methylene chloride	[illegible]
(45V)	74-87-3	chloromethane	[illegible]
(46V)	74-83-7	bromomethane	[illegible]
(47V)	75-25-2	bromoform	[illegible]
(48V)	75-27-4	bromodichloroethane	[illegible]
(51V)	124-48-1	chlorodibromoethane	[illegible]
	100-42-5	styrene	[illegible]
(55V)	[illegible]	tetrachloroethene	[illegible]
(57V)	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]

000021

19/29

[illegible] ANALYSIS DATA

6ES-HL SAMPLE NO.: 77FA[illegible]203 DATE REPORTED: [illegible]

SAMPLE TYPE: SOIL

ANALYST: R.A. MCMILLIN

TENTATIVE COMPOUNDS BY M[illegible]

SCAN #	CAS #	EST.CONC (ug/Kg)	COMPOUND NAME
			No VOA TIC's detected.

000022

20/29

PESTICIDE/PCB ANALYSIS

GES-HL SAMPLE NO.:7TFAKC1203 DATE REPORTED:7/29/87

SAMPLE TYPE:SOIL

ANALYST: L.C.MINER,JR, CHEMIST

PP#	CAS#		UG/G (PPM)
(89P)	309-00-2	aldrin	ND DL=< 0.04
(90P)	60-57-1	deildrin	ND DL=< 0.08
(91P)	57-74-9	chlorodane	ND DL=< 0.20
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.08
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.08
(94P)	72-54-8	4,4'-DDD	ND DL=< 0.08
(95P)	115-29-7	a-endosulfan	ND DL=< 0.04
(96P)	115-29-7	b-endosulfan	ND DL=< 0.08
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 0.08
(98P)	72-20-8	endrin	ND DL=< 0.08
(99P)	7421-93-4	endrin aldehyde	ND DL=< 0.08
(100P)	76-44-8	heptachlor	ND DL=< 0.04
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 0.04
(102P)	319-84-6	a-BHC	ND DL=< 0.04
(103P)	319-85-7	b-BHC	ND DL=< 0.04
(104P)	319-86-8	d-BHC	ND DL=< 0.08
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.04
(106P)	53469-21-9	PCB-1242	ND DL=< 1.00
(107P)	11097-69-1	PCB-1254	ND DL=< 1.00
(108P)	11104-28-2	PCB-1221	ND DL=< 1.00
(109P)	11141-16-5	PCB-1232	ND DL=< 1.00
(110P)	12672-29-6	PCB-1248	ND DL=< 1.00
(111P)	11096-82-5	PCB-1260	ND DL=< 1.00
(112P)	12674-11-2	PCB-1016	ND DL=< 1.00
(113P)	8001-35-2	toxaphene	ND DL=< 2.00
		methoxychlor	ND DL=< 0.10
		mirex	ND DL=< 0.25
		PCB-1262	ND DL=< 1.00
		HERBICIDES BY GC/LC********	
	94-75-7	2,4-D	ND DL=< 0.08
	93-76-5	2,4,5-T	ND DL=< 0.08
		SILVEX	ND DL=< 0.08

000023

ND DL= NOT DETECTED

21/29

HOUSTON LABORATORY

PRIORITY POLLUTANTS METALS

SAM # : 7TPAKC1203 RECEIVED [illegible]

[illegible] BRANT ROAD REPORTED [illegible]

SAMP. TYPE SOIL ANALYST [illegible]

PARAMETER		CONC	UNITS	DETECTION LIMITS OR #
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]

[illegible] CALCULATED ON A DRY WEIGHT BASIS

Inorganics

Cn < 0.51 Mg/Kg

Date: 07/30/87

Appendix 4

ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC12 Date Recvd: 06/30/87 Date Collected: 06/29/87
Sample Number: 4 Time Recvd: 08:00 Time Collected: 11:30

Source: GRANT RD Tag Number:
Site Description: Sta#04 Sta 04 site sketch
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: MET
Inorganic: CN
Biology:

Due Date: 07/28/87
Date Projected: 07/28/87
Date Completed: 07/30/87
Comment:
Your Initials: LC

000025

23/29

Attachment 4

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAKC12-04 DATE REPORTED: 7/29/87

SAMPLE TYPE: SOIL ANALYST: MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/kg	COMPOUND	ug/kg
Phenol	nd dl=430	Acenaphthene	nd dl=240
bis(2-Chloroethyl) Ether	nd dl=240	2,4-Dinitrophenol	nd dl=3600
2-Chlorophenol	nd dl=430	4-Nitrophenol	nd dl=960
1,3-Dichlorobenzene	nd dl=240	Dibenzofuran	nd dl=240
1,4-Dichlorobenzene	nd dl=240	2,4-Dinitrotoluene	nd dl=720
Benzyl Alcohol	nd dl=430	2,6-Dinitrotoluene	nd dl=720
1,2-Dichlorobenzene	nd dl=240	Diethylphthalate	nd dl=240
2-Methylphenol	nd dl=720	4-Chlorophenylphenyl Ether	nd dl=960
bis(2-chloroisopropyl)Ether	nd dl=240	Fluorene	nd dl=240
4-Methylphenol	nd dl=720	4-Nitroaniline	nd dl=960
N-Nitroso-Di-n-Propylamine	nd dl=720	4,6-Dinitro-2-Methylphenol	nd dl=3600
Hexachloroethane	nd dl=240	N-Nitrosodiphenylamine	nd dl=430
Nitrobenzene	nd dl=240	4-Bromophenylphenyl Ether	nd dl=720
Isophorone	nd dl=430	Hexachlorobenzene	nd dl=240
2-Nitrophenol	nd dl=1200	Pentachlorophenol	nd dl=1800
2,4-Dimethylphenol	nd dl=720	Phenanthrene	nd dl=240
Benzoic Acid	nd dl=1200	Anthracene	nd dl=240
bis(2-Chloroethoxy)Methane	nd dl=240	Di-n-Butylphthalate	nd dl=240
2,4-Dichlorophenol	nd dl=720	Fluoranthene	nd dl=240
1,2,4-trichlorobenzene	nd dl=240	Benzidine	nd dl=2400
Naphthalene	nd dl=240	Pyrene	nd dl=240
4-Chloroaniline	nd dl=430	Butylbenzylphthalate	nd dl=430
Hexachlorobutadiene	nd dl=240	3,3'-Dichlorobenzidine	nd dl=1200
4-Chloro-3-Methylphenol	nd dl=960	Benzo(a)Anthracene	nd dl=240
2-Methylnaphthalene	nd dl=240	bis(2-Ethylhexyl)Phthalate	nd dl=430
Hexachlorocyclopentadiene	nd dl=1200	Chrysene	nd dl=240
2,4,6-Trichlorophenol	nd dl=720	Di-n-Octyl Phthalate	nd dl=240
2,4,5-Trichlorophenol	nd dl=720	Benzo(b)Fluoranthene	nd dl=240
2-Chloronaphthalene	nd dl=240	Benzo(k)Fluoranthene	nd dl=240
2-Nitroaniline	nd dl=960	Benzo(a)Pyrene	nd dl=240
Dimethylphthalate	nd dl=240	Indeno(1,2,3-cd) Pyrene	nd dl=240
Acenaphthylene	nd dl=240	Dibenz(a,h)Anthracene	nd dl=240
3-Nitroaniline	nd dl=960	Benzo(g,h,i)Perylene	nd dl=240

000026

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC12-04 DATE REPORTED: 7/29/87

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

SCAN#	CAS #	EST. CONC (ug/KG)	COMPOUND NAME
991	425	873	GAMMA-CHLORDANE
1007		590	UNKNOWN CHLORINATED HYDROCARBON
1013		354	UNKNOWN CHLORINATED HYDROCARBON
1441		3540	UNKNOWN

000027

25/29

* ANALYSIS NOTE [illegible] MATCH WITH THE NIH/EPA [illegible] INTERPRETATION. STANDARDS [illegible]
** Estimated concentration [illegible]

TABLE 4-1T

ORGANIC ANALYSIS DATA

SEE TEXT SAMPLE NO.: 2TLAKS12A DAT [illegible]

SAMPLE TYPE: SOIL

ANALYST: K.A. MCMILLIN

VOLATILE COMPOUNDS BY METHOD [illegible]

PP#	CAS#		ug/kg
	67-64-1	acetone	NO DL= 50
(2V)	107-02-8	acrolein	NO DL=[illegible]
(3V)	107-13-1	acrylonitrile	NO DL=[illegible]
(4V)	71-43-2	benzene	NO DL= [illegible]
	78-93-3	2 butanone	NO DL= [illegible]
	75-15-0	carbon disulfide	NO DL= [illegible]
(6V)	56-23-5	carbon tetrachloride	NO DL= [illegible]
(7V)	108-90-7	chlorobenzene	NO DL= [illegible]
(8V)	107-06-2	1,2 dichloroethane	NO DL= [illegible]
(9V)	71-55-6	1,1,1-trichloroethane	NO DL= [illegible]
(10V)	75-34-3	1,1 dichloroethane	NO DL= [illegible]
(11V)	[illegible]	1,1,2 trichloroethane	[illegible]
(12V)	[illegible]	1,1,2,2 tetrachloroethane	[illegible]
(13V)	[illegible]	chloroethane	[illegible]
[illegible]	[illegible]	chloroform	[illegible]
(15V)	[illegible]	1,1 dichloroethene	[illegible]
[illegible]	[illegible]	trans 1,2 dichloroethene	[illegible]
[illegible]	[illegible]	1,2 dichloropropane	[illegible]
	100-41-4	ethylbenzene	[illegible]
	540-59-0	2 hexanone	[illegible]
	108-10-1	4 methyl 2 pentanone	[illegible]
(40V)	75-09-2	methylene chloride	NO DL= [illegible]
(41V)	[illegible]	1,1,2,2 tetrachloroethane	[illegible]
(42V)	79-01-6	trichloroethene	[illegible]
(43V)	75-69-4	trichlorofluoromethane	[illegible]
(44V)	75-25-2	bromoform	[illegible]
(45V)	75-27-4	bromodichloromethane	[illegible]
(46V)	124-48-1	dibromochloromethane	[illegible]
	108-88-3	toluene	[illegible]
[illegible]	[illegible]	vinyl chloride	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

000028

26/29

AES-ML SAMPLE NO.: [illegible]

SAMPLE TYPE: SOIL

ANALYST: K.A. MCMILLIN

TENTATIVE COMPOUND, BY [illegible]

SCAN#	CAS #	EST.CONC. (ug/Kg)	COMPOUND NAME
			No VOA TIC's detected.

000029

27/29

4

PESTICIDE/PCB ANALYSIS

GES-HL SAMPLE NO.:7TFAKC1204 DATE REPORTED:7/29/87

SAMPLE TYPE:SOIL

ANALYST: L.C.MINER,JR, CHEMIST

PP#	CAS#		UG/G (PPM)
(89P)	309-00-2	aldrin	ND DL=< 0.04
(90P)	60-57-1	deildrin	ND DL=< 0.08
(91P)	57-74-9	chlorodane	9.75
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.08
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.08
(94P)	72-54-8	4,4'-DDD	ND DL=< 0.08
(95P)	115-29-7	a-endosulfan	ND DL=< 0.04
(96P)	115-29-7	b-endosulfan	ND DL=< 0.04
(97P)	1031-07-8	endosulfan sulfate	ND DL=< [illegible]
(98P)	72-20-8	endrin	ND DL=< [illegible]
(99P)	7421-93-4	endrin aldehyde	ND DL=< [illegible]
(100P)	76-44-8	heptachlor	ND DL=< [illegible]
(101P)	1024-57-3	heptachlor epoxide	ND DL=< [illegible]
(102P)	319-84-6	a-BHC	ND DL=< [illegible]
(103P)	319-85-7	b-BHC	ND DL=< 0.04
(104P)	319-86-8	d-BHC	ND DL=< 0.00
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.04
(106P)	53469-21-9	PCB-1242	ND DL=< 1.00
(107P)	11097-69-1	PCB-1254	ND DL=< 1.00
(108P)	11104-28-2	PCB-1221	ND DL=< 1.00
(109P)	11141-16-5	PCB-1232	ND DL=< 1.00
(110P)	12672-29-6	PCB-1248	ND DL=< 1.00
(111P)	11096-82-5	PCB-1260	ND DL=< [illegible]
(112P)	12674-11-2	PCB-1016	ND DL=< [illegible]
(113P)	8001-35-2	toxaphene	ND DL=< [illegible]
		methoxychlor	ND DL=< [illegible]
		mirex	ND DL=< 0.20
		PCB-1262	ND DL=< 1.00
		HERBICIDES BY GC/EC	
	94-75-7	2,4-D	ND DL=< 0.00
	93-76-5	2,4,5-T	ND DL=< 0.00
		SILVEX	ND DL=< 0.00

000030

ND DL= NOT DETECTED

28/29

PAGE 7 OF 7 ATTACHMENT 4

HOUSTON LABORATORY

PRIORITY POLLUTANTS METALS

SAM. # : 7TPAKC1204 RECEIVED 6/29/87

SOURCE GRANT ROAD REPORTED 7/25/87

SAMP. TYPE SOIL ANALYST M. COLE/F. CLARK

PARAMETER		LOAD	UNITS	DETECTION LIMITS % OR #
AS		2.09	MG/KG	[illegible]
[illegible]	ND < =	1.15	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]	ND < =	1.1	MG/KG	[illegible]
[illegible]	ND < =	1.[illegible]	MG/KG	[illegible]
[illegible]		17.8	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	4.[illegible]
[illegible]	ND < =	[illegible]	MG/KG	[illegible]
[illegible]		[illegible]	MG/KG	[illegible]

[illegible] CALCULATED ON A DRY WEIGHT BASIS

Inorganics

Cn < 0.17 Mg/Kg

000031

29/29

CASE #: FY87-1725

SITE ASSESSMENT AND SAMPLING MISSION

AT

GRANT ROAD DRUM SITE

HOUSTON, HARRIS COUNTY, TEXAS

Prepared for

EPA REGION VI

EMERGENCY RESPONSE BRANCH

J. Chris Petersen
Deputy Project Officer

By

ECOLOGY AND ENVIRONMENT, INC.

TECHNICAL ASSISTANCE TEAM

HOUSTON, TEXAS

DATE: 9/10/87

RECEIVED
SUPERFUND

APR 1 3 1992

RECORDS
CENTER

ecology and environment, inc.
6440 HILLCROFT AVENUE, HOUSTON, TEXAS 77081, TEL. 713/771-9460
International Specialists in the Environment

DATE: September 10, 1987

TO: James Staves, OSC
EPA Region VI, Emergency Response Branch

THRU: J. Chris Petersen, Deputy Project Officer
EPA Region VI, Emergency Response Branch

THRU: William Goode, TAT Leader
Region VI, Technical Assistance Team - Dallas

FROM: Richard Yeager, TAT Member RNY
Region VI, Technical Assistance Team - Houston

SUBJECT: Site Assessment and Sampling Mission
Grant Road Site
Houston, Harris County, Texas

TDD #: T06-8706-37
PAN #: TTX 0587 SAA
CASE #: FY87-1725

On June 25, 1987, TAT members Yeager and McLaughlin investigated a report by a citizen concerning abandoned drums in the north part of Houston. The abandoned drums are located on a wooded tract of land to the east of the Warner Cable hub station at 9602 Grant Road, Harris County, Houston. The purpose of TAT's visit was to perform reconnaissance at the site and to determine if an immediate and substantial threat to the public health or the environment exists at the site. When TAT arrived on site, Warner Cable personnel were also present. Warner Cable showed TAT the location of the drums. One of the Warner Cable personnel stated that he believed the lot to the east of Warner Cable's property had once been a "fertilizer or pesticide place." Subsequently, TAT investigated the area. Approximately 50 fifty-five gallon steel drums were located to the north of an east-west barbed-wire fence. Most of the drums were upright, and some were still on pallets. Most were so badly rusted that the labels on them could not be read. Some of the drums were clearly marked "Anhydous Aluminum Chloride." None of the drums appeared to be leaking; however, some appeared to be bulging. There was no stressed vegetation in the area around the drums. There was little evidence of human traffic around the drum area, although what appeared to be a child's "fort" was located about 300 feet to the south of the drum area. A strip mall is located approximately 200 feet to the east of the drums, and a child daycare center is located one quarter mile to the southeast. Access to the drums is not restricted. TAT left the site and reported site conditions to OSC Hammack.

On June 26, 1987, TAT member McLaughlin placed a telephone call to Jerry Spetseris, a Field Investigator for the Texas Water Commission TWC. Mr. Spetseris stated that he found about ten drums in mid-May, but did not know about the 50 drums along the barbed-wire fence. He also stated that he and a potential lessor of the property opened one of the drums labeled "Anhydrous Aluminum Chloride" and found "paint wastes." He also informed TAT that the property management firm which handles the property is Raymond R. Betz Company.

TAT member McLaughlin subsequently phoned Raymond R. Betz Company and spoke with Joanne Schnell. She stated that the property which contains the drums was purchased by a group of investors in 1982 and managed by Raymond R. Betz Company. She also stated that she had no idea what the drums contained. She was in the process of receiving bids for the removal of the drums.

On June 29, 1987, TAT members Yeager, McLaughlin and Fry travelled to the site in order to obtain soil samples from the drum area. TAT was accompanied to the site by OSC James Staves. TAT also met with TWC Field Investigator Spetseris at the site. In order to maneuver in the vicinity of the drums, Spetseris cleared brush near the drums. Spetseris also showed TAT 11 additional drums located to the north of the main group of drums. TAT dressed in Safety Level B and conducted air monitoring with the OVA. No readings above background were observed. Draeger tubes which detect hydrogen chloride were also used to determine if the gas was evolving from drums marked aluminum chloride. None was detected. TAT then downgraded to Safety Level C and obtained four soil samples from selected areas near the drums. During the investigation, TAT accurately counted the number of drums on the site. Sixty 55-gallon steel drums were counted; forty-nine were located along the east-west fence line, and eleven were scattered in the wooded area to the north. Thirteen of the drums were clearly marked as "Anhydrous Aluminum Chloride." A few drums were marked as atomized aluminum. Some of the bands which held the drums together on the pallets were still in place. After collecting the soil samples (see site sketch for sampling locations), TAT left the site. The samples were taken to the EPA Laboratory in Houston to be analyzed for priority pollutants.

Summary of Laboratory Results

Four soil grab samples were obtained in the vicinity of the drums. The samples were analyzed for priority pollutants (Hazardous Substance List metals and cyanide, ABN's, VOAs, pesticides, and herbicides.) No VOAs, pesticides, or herbicides were detected in any of the samples.

Of the four samples taken, only Sample #4 showed significantly elevated levels (greater than 3 times the western U.S. ambient background) of several metals.

Sample #4	Conc. (mg/kg)	Ambient Background Western US (mg/kg)
Lead	413	17
Mercury	2.86	0.046
Zinc	261.8	70

Cyanide concentrations in the samples were:

Sample #	CN (mg/kg)
1	0.05 (less than detection limit)
2	0.13
3	0.51
4	0.17

ABN analysis in Sample #1 revealed a bis(2 ethylhexyl)phthalate concentration of 15,000 ug/kg. Sample #3 showed and estimated concentration of 4440 ug/kg of an unknown compound. Sample #4 showed the following tentatively identified concentrations: gamma-chlordane, 873 ug/kg; unknown chlorinated hydrocarbon, 590 ug/kg; unknown chlorinated hydrocarbon, 354 ug/kg;and an unknown compound, 3450 ug/kg.

Conclusions

ABN analysis is inconclusive. Bis(2 ethylhexyl)phthalate is a common laboratory contaminant. Tentatively identified concentrations of gamma-chlordane and chlorinated hydrocarbons were not confirmed in the pesticide analysis. Sample #3 showed a cyanide concentration approximately ten times the detection limit. Metal analysis showed elevated concentrations of lead, mercury, and zinc.

The elevated concentrations of lead, mercury, and zinc in the soil indicate that further investigation into the contents of the drums is warrented. The proximity of the shopping mall and unresticted access to the site pose the possibility of human or animal contact. TAT recommends that (1) the contents of the drums be sampled and/or (2) the PRP's should be strongly urged to properly dispose of the drums. Research into the previous ownership of the site may also be helpful in determining the contents of the drums.

List of Attachments: [illegible] No. T06-8706-37

Trip Narrative

Topographic Map

Site Sketch

Photographs and Negatives

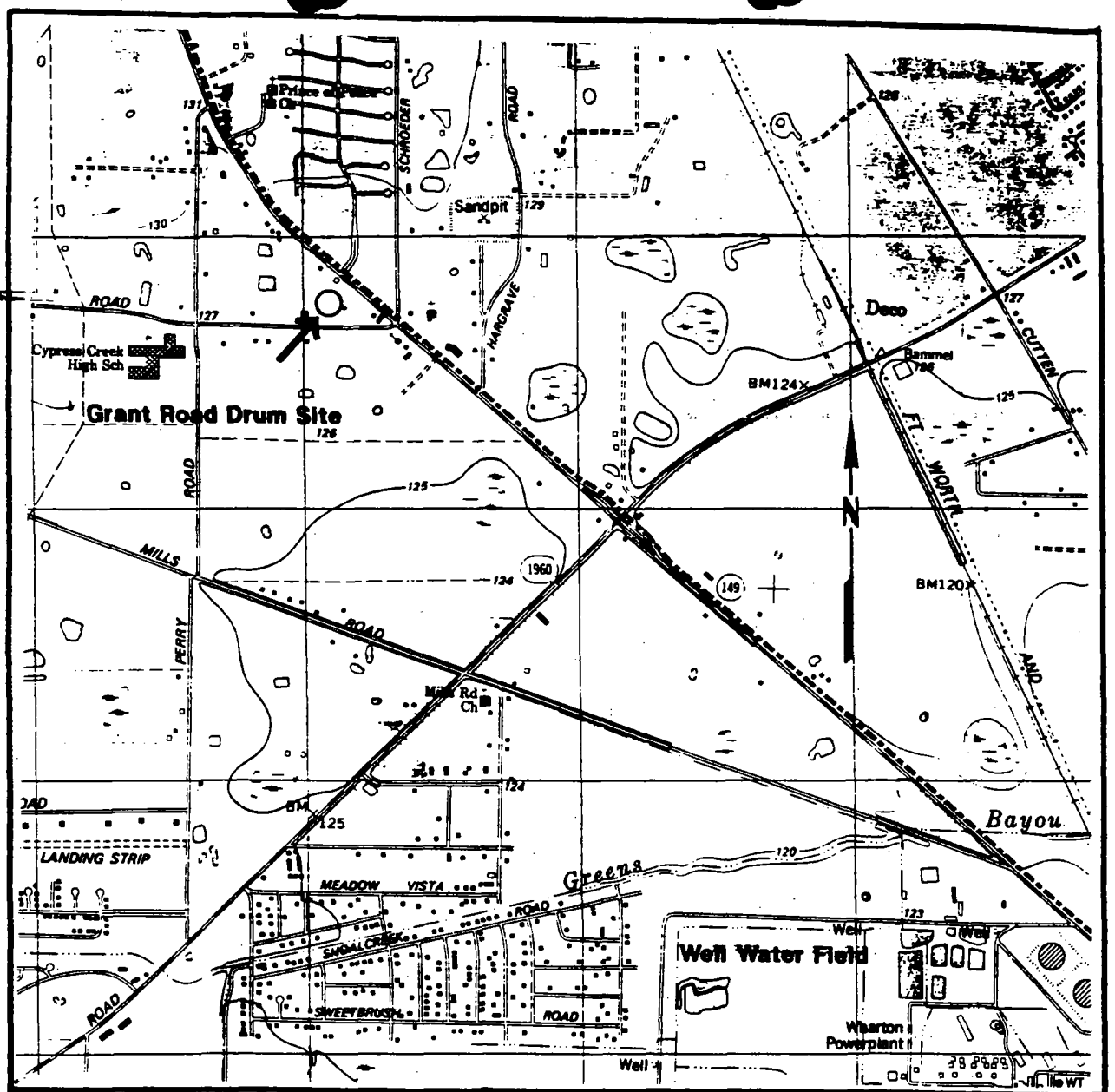
Logbook Copies

Phone Conversation Records

EPA Laboratory Analysis

Copy of TDD No. T06-8706-37

Copy of AOC/POR



	Ecology and Environment, Inc. Technical Assistance Team RegionVI	TXD982305196	TDD No: T06-8709-17
		PAN: TTX0587SAC	Date: 10/23/87
		Originator: Robert Marguccio	

Grant Road Drum Site

Satsuma Quadrangle

Texas-Harris Co.

7.5 Minute Series (Topographic)

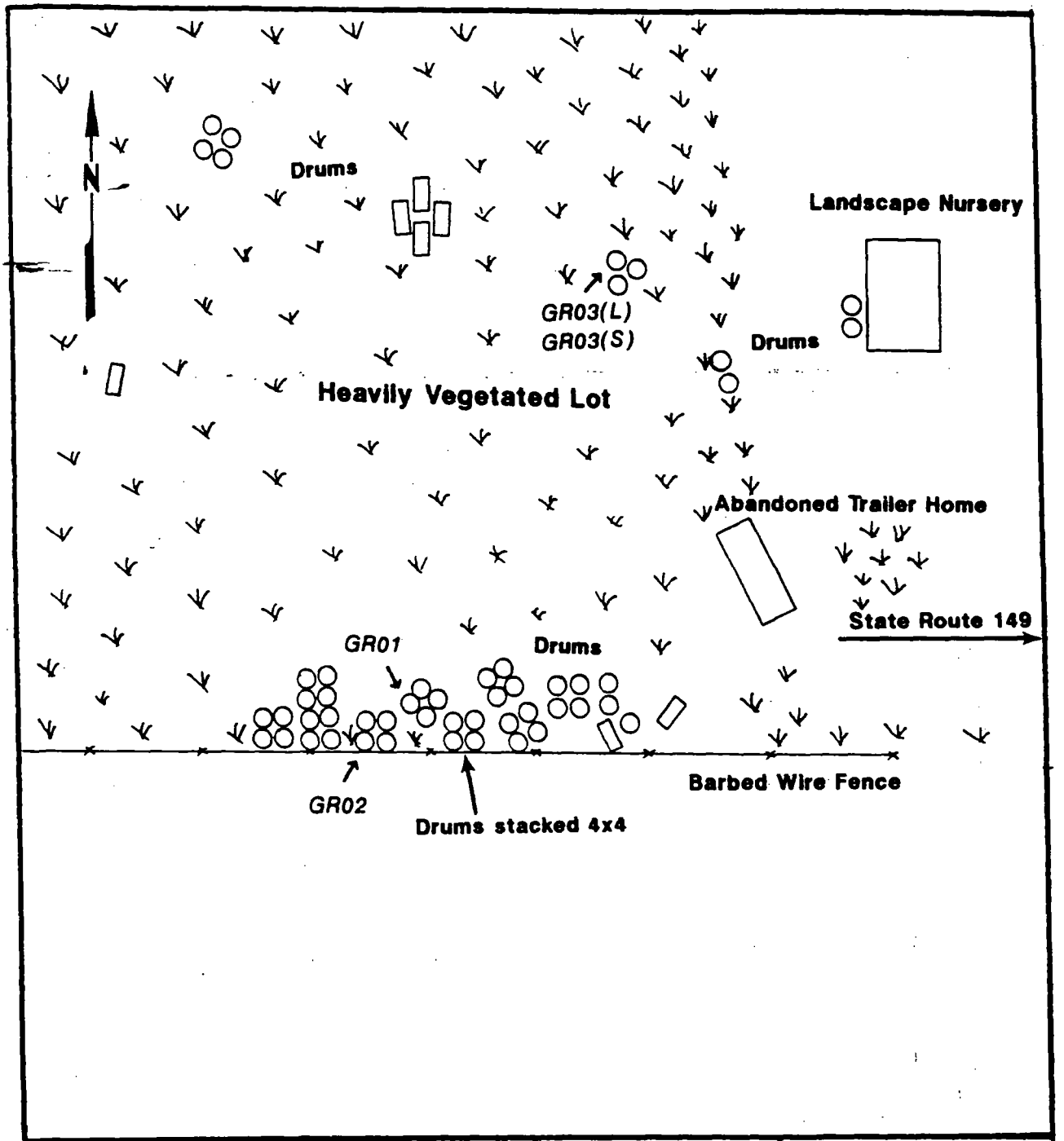
SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

6/21



	Ecology and Environment, Inc. Technical Assistance Team RegionVI	TXD982305195	TDD No: T06-8709-17
		PAN: TTX0587SAC	Date: 10/23/87
		Originator: Robert Marguccio	

Grant Road Drum Site

Site Sketch and Sample Location Map
Houston, Harris County, Texas
(Not to Scale)

TDD#: T06-8706-37 Pg. 2 of 4

Photographer/Witness #4

John McLaughlin/Richard Yeager

Date/Time/Direction

6-29-87/0914 hours/West

Comments: One intact drum in puddle.

Photographer/Witness #6

John McLaughlin/Richard Yeager

Date/Time/Direction

6-29-87/1010 hours/Southeast

Comments: Main group of drums along fence line after brush was cleared.

Photographer/Witness #7

John McLaughlin/Richard Yeager

Date/Time/Direction

6-29-87/1010 hours/South

Comments: Main group of drums along fence line after brush was cleared.

000039

ecology and environment

8/21

TDD#: T06-8706-37 Pg. 1 of 4

Photographer/Witness #1

John McLaughlin/Richard Yeager

Date/Time/Direction

6-30-87/0900 hours/Northeast

Comments: Three drums in group. TWC opened one of the drums in mid-May, 1987 and found "paint waste".

Photographer/Witness #2

John McLaughlin/Richard Yeager

Date/Time/Direction

6-30-87/0905 hours/East

Comments: Three drums on their sides.

Photographer/Witness #3

John McLaughlin/Richard Yeager

Date/Time/Direction

6-30-87/0909 Hours/North

Comments: Four barrels among trees.

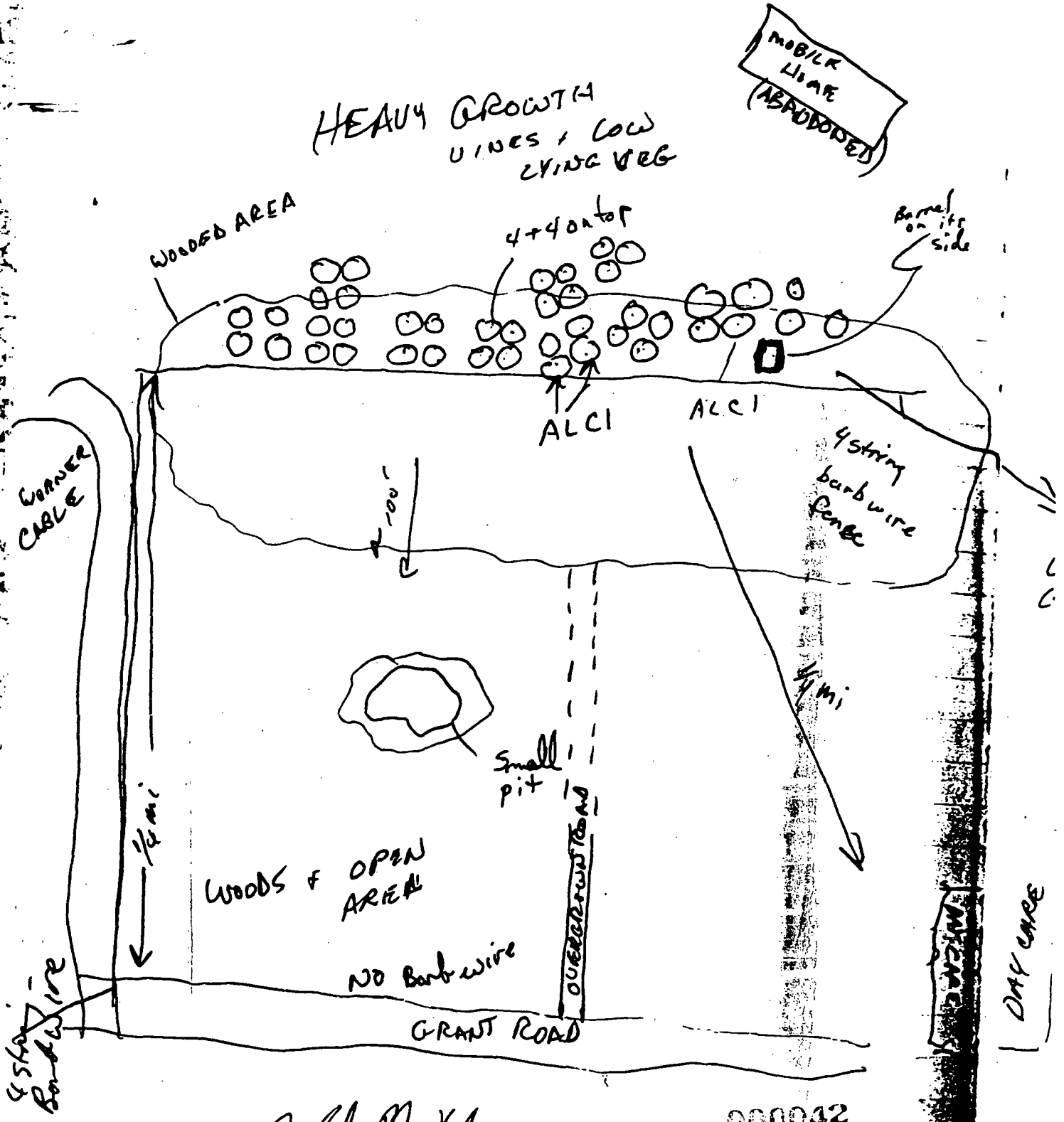
000040

6/25/87 13:00 DRUMS IN N HOUSTON - GRANT ROAD
RECEIVED CALL FROM PAT HAMMACK, OSC
CONCERNING DRUMS IN N HOUSTON
1410 CONTACTED Mr. Mundy w/ Warner cable
Gave directions to location of Drums
1900 - 149 left on Grant Road, Houston
1520 ARRIVE ON SITE - TURN RIGHT a ½ mile
from 149. HUB STATION FOR WARNER
CABLE (ANTENNA) UNLOCKED GATE. MET
W/ 2 WARNER CABLE PERSONNEL.

Richard M. Gage
6/25/87

000041

10/21



Rachel M. Yeager

11/21

TDD#: T06-8706-37 Pg. 3 of 4

Photographer/Witness #8

John McLaughlin/Richard Yeager

Date/Time/Direction

6-29-87/1010 hours/Southwest

Comments: Drums along fence line.

000043

12/21

CONDITION OF DRUMS -

MOST ARE RUSTED TO THE POINT WHERE CAN'T READ.

HAVE 3 A/ CL

NONE ARE LEAKING

SOME APPEAR TO BE EXPANDED

MY COUNT 47 DRUMS

HIDDEN FROM VIEW OF GRANT ROAD

POSSIBLE EVIDENCE OF KID'S FORT IN WOODS TO SOUTH

NO STRESSED VEGETATION

Barrel on its side

200' to Gouge (STRIP MALL

1620 LEFT SITE

ENY ~~FRENSHE~~ +

1640 CALLED KISHOR

1650 PAT HAMMACK - BRIEFED HIM ON SITUATION

PAT SAID - CALL JIM STAGES IN MORNING

1830 ARRIVE BACK IN OFFICE

PAT CARE

DAY CARE

PHOTOS

#1 1545 N BARRELS PILED ON TOP OF EACH OTHER

#2-#7 1546 N TO EAST PANORAMA OF BARRELS ALONG FENCE LINE (LEFT TO RIGHT

#8 + #9 1550 NW PANORAMA

Richard M. Yeagle

000044

13/21

RNY #10 ~~#9~~ 1550 RNY S ~~W~~ BACK SIDE (N) OF FENCE LINE, OVERGROWN W/ BRUSH

#11 1600 PIT E ~~#~~ 120' ~~S~~ SOUTH OF BARRELS

Richard M. Yeager
5/25/87

14/21

6/29/87 Grant Road Site Sampling Mission

RN4 07 ~~0635~~ Pick up OSC at IAH

0830 Drive Past Cypress Fairbanks Hospital

0845 ARRIVE ON SITE SAFETY MEETING

0900 LEVEL D - INSPECT SITE, STAY AWAY FROM DRUMS WEATHER: HOT HUMID, SUNNY, LITTLE BREEZE. TEAM MEMBERS: YEAGER, TEAM LEADER, FRY SITE SAFETY, McLaughlin sampler; also present OSC JAMES STAVES + TWC JERRY SPETSERIS. IN NORTHERN PART OF AREA DRUMS APPEARED IN GROUPS OF 3, 3, 4, 1 and 1. TWC showed area where he popped a drum + found "paint wastes." Went to area of 44 Drums along fence. A few do appear to be leaking.

0950 Yeager + McLaughlin bought clippers from 84 Lumber

1000 CLEARED PATH TO DRUMS

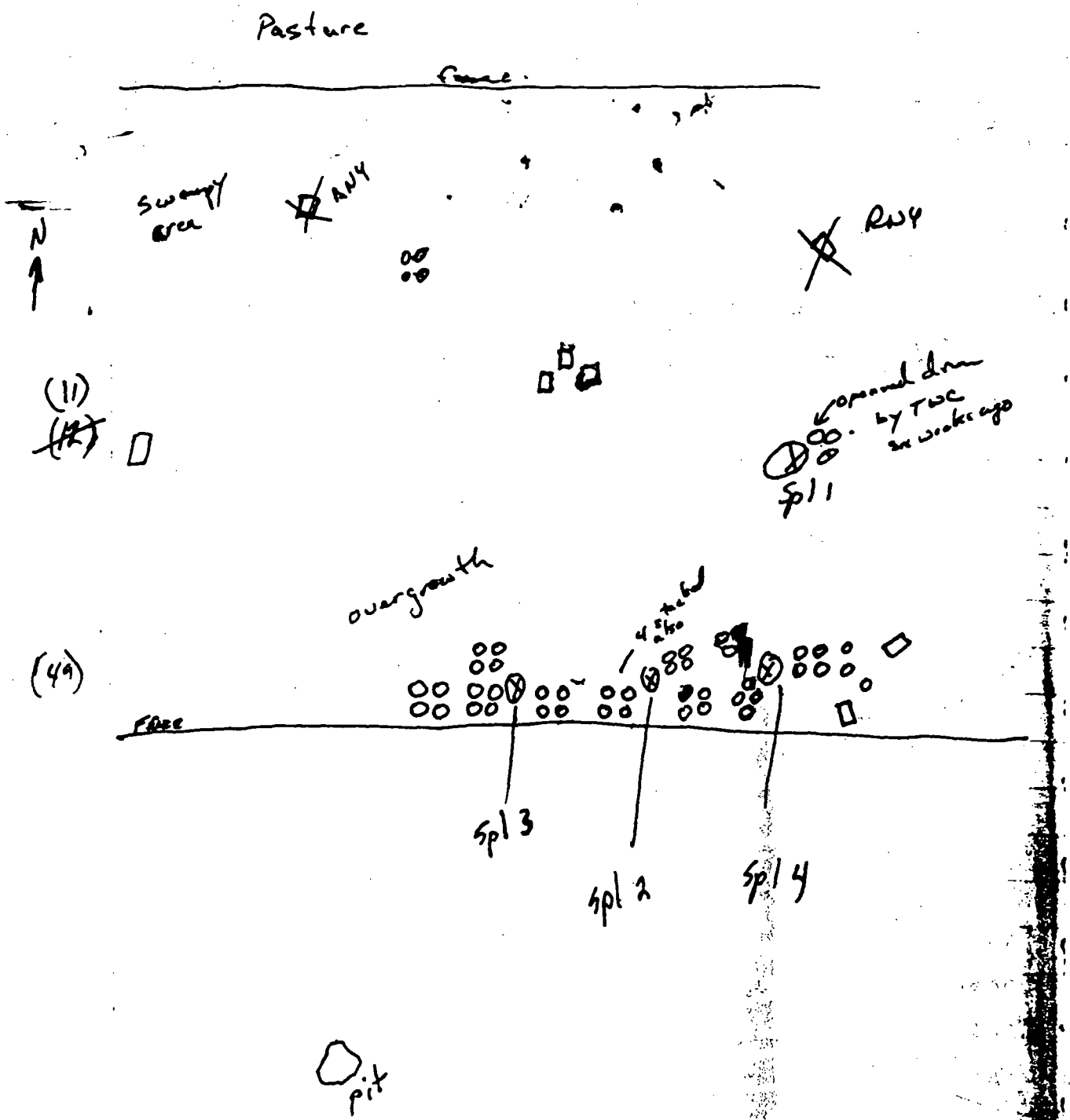
1030 TREK OUT IN LEVEL B. CARRY OUR TO DRUMS. ALSO DRAEGER TUBE (HCL). NO READINGS ABOVE BACKGROUND.

1050 OUT OF LEVEL B. TAKE A BREAK. YEAGER AND MCLAUGHLIN DRESSED IN LEVEL C. BEGAN TAKING SOIL SAMPLES.

Rick M. Yeager
6/29/87

000046

15/21



Richard McGeorge
6-29-82

000047

16/21

1115 Spl 1 group of 3 drums East part of lot
1120 Spl 2 group just to north of 4 stacked on each other
1125 Spl 3
1130 Spl 4

drum
wc
weeks ago

1135 Begin Decon
1220 Chain of Custody.
1240 LEFT SITE

SITE NOTES:

- 10 are clearly marked $AlCl_3$
- A few are marked atomized aluminum
- MOST OF DRUMS WERE STILL ON PALLETS
- BANDS WHICH HELD DRUMS TOGETHER ARE STILL IN PLACE.

Richard M. Young
6-29-87

000048

17/21

PHOTOS:	Desc.	Direction
0900 #1	3 yellow barrels marked $AlCl_3$	NE
0905 #2	4 Tipped over barrels covered by vegetation	E
0909 #3	4 barrels among trees	N
0914 #4	1 Intact Single barrel setting in puddle	W
0915 #5	Standing water /w Trash along South Fence line of property	W
1010 #6	Drums along fence line after cleaning	SE
1010 #7	Drums along fence line after cleaning	S
1010 #8	Drums along fence line after cleaning	SW
1225 #9	Drums along fence line	W
1225 #10	Drums along fence line	W

J McLaughlin

6-29-87

18/21

..ONE CONVERSATION RECORD

Conversation with:
Name Jerry Spetseris
Company TWC
Address
Deer Park
Phone 479-5981
Subject Grant Rd Site

Date 6 / 26 / 87
Time 1220 hours AM/PM

☑ Originator Placed Call
☐ Originator Received Call
W.O. NO.

Notes:

Jerry called in regards to ongoing action at Grant Rd Site. He elaborated on actions already taken by TWC in regards to approximately 10 or 11 barrells that owner had found scattered on their property approximately 6 weeks prior. He indicated that at one point he and a prospective lessee of the property had popped the lid on one of the barrells marked AlCl3 and that he then determined it to be paint sludge and water by observation. No analysis was performed. The barrell that he had found were clustered throughout the property in groups of 4, 3, 3 and 1. He also indicated that he had gone out and walked the property looking for the 40+ barrells that TAT investigated on 6-25-87. Jerry informed me that the property management firm that handled the property was Raymond R Betz and that they had been soliciting bids to remove the barrells from the property. He was going to call EPA and give what information he had.

☐ File
☐ Tickle File: / /
☐ Follow-Up By:
☐ Copy/Route To:

Follow-Up-Action:

000050

Originator's Initials JAH

Form# 8

19/21

ONE CONVERSATION RECORD

Conversation with:
Name Joanne Schnell
Company Raymond Bety Co
Address -

Phone 873-4444
Subject Grant Rd site

Date 6 / 26 / 87
Time 1410 hours AM/PM

☑ Originator Placed Call
☐ Originator Received Call
W.O. NO.

Notes:
Called Raymond Bety Co in regards to drums located on 6-25-87 at Grant St and 149 Hwy. Joanne indicated that the property off of Hwy 149 that I described to her was indeed mortgaged by her firm and that they had become aware of the barrels on this property some six weeks ago and that the action she had taken was to solicit bids for removal. She had been unsuccessful in her endeavor to competitive shop and she actually only received one bid. At this time she has no idea what the barrels contain and did not know what she should do. The property was purchased by a group of investors in 1982 and has been under the management of R Bety since then to their knowledge the barrels were not on the property when they purchased it.

☐ File
☐ Tickle File / /
☐ Follow-Up By:
☐ Copy/Route To:

Follow-Up-Action:

000051

Originator's Initials JHM

Form# 8

20/21

RONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

2/2

000052

CHAIN OF CUSTODY RECORD

OJ. NO.	PROJECT NAME
[illegible]	[illegible]

PLERS: (Signature) [illegible] TAT
[illegible] McLaughlin [illegible] TAT

NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]						REMARKS
	[illegible]	1115		X	Station 01 Site Station	1	X						Soil [illegible]
	[illegible]	1120		X	Station 02 " "	1	X						Soil 1602
	[illegible]	1125		X	Station 03 " "	1	X						Soil 1602
	[illegible]	1130		X	Station 04 " "	1	X						Soil 1602

uished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	6/29/87 1444				
uished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
ished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [illegible]	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

EMERGENCY RESPONSE PRELIMINARY ASSESSMENT COMMENTS

CERCLIS #: TXD982305195 SPILL #: _____ SITE ID#: _____

OSC: James C Staves DATE 9/11/87

SITE NAME: Grant Road Drum Site

ADDRESS: FM 149 at Grant Rd.

COUNTY: Harris CITY: Houston STATE: TX ZIP: _____

PRIORITY: 1 ____ 2 ✓ 3 ____

INSPCTION STATUS: PRELIMINARY ASSESSMENT OPEN (PA) ____ CLOSED (CPA) ____
INVESTIGATION OPEN (IN) ✓ CLOSED (CIN) ____
REMOVAL ACTION OPEN (RA) ____ CLOSED (CRA) ____

COMMENTS: The site is an abandoned drum storage area located on a vacant lot behind a strip mall. A site assessment performed by TAT on 6/29/87 revealed about 40 drums in fairly good condition, and about 20 badly corroded partially or completely empty drums. Priority pollutant scans performed on soil samples collected near the drums identified only bis-2-ethyl-hexyl phthalate and low levels of lead. The information currently available for the site is insufficient to warrant a removal action. The contents of the drums are unknown.

RECOMMENDED ACTION: I recommend that a more detailed site assessment be performed by TAT. The assessment should include limited drum sampling with "Haz Cat" characterization and sample compositing.

RECEIVED
SUPERFUND
APR 13 1992
RECORDS
CENTER

MEMO REFERRALS: SF ____ RCRA ____ TSCA ____ WAT ____ AIR ____ PERMITS ____ ORC ____ CRC ____ STATE ____
Other _____

000053

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

Date: October 23, 1987

Subject: Laboratory Results for Grant Road Drum Site (7TFAKC21)

From: Diana Ayers, Chief, Houston Branch; 6E-H

To: Charles Gazda, Chief, Emergency Response Branch; 6E-E

Attn: Gerald Fonteriot, 6E-EF

Attached are the laboratory results for the subject site. Two water samples, one soil sample, and one oil sample were received for analysis on 9/22/87.

This is a final report.

Attachments

RECEIVED
SUPERFUND
APR 1 3 1992
RECORDS CENTER

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

Date: 10/22/87

Subject: Organic Laboratory Results for Grant Road Drum Site.

From: Michael Daggett, Chief, Organic Lab Section; 6E-HL

To: Diana Ayers, Chief, Houston Branch; 6E-H

Attached are Organic Laboratory results for samples 7TFAKC2101 thru 7TFAKC2104. All samples were analyzed for VOAs and samples 02 and 04 were also analyzed for ABNs, Pesticides and PCBs. These samples contained various VOA target compounds ranging in concentration from 46.4 ug/l to 92,000,000 ug/kg. This is a final report.

ATTACHMENTS:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

MEMORANDUM

Date: October 23, 1987

Subject: Laboratory Results for Grant Road Drum Site

From: M. Kendall Young, Chief, Inorganic Section

To: Diana G. Ayers, Chief, Houston Branch

Attached are laboratory results for the subject site. Two (2) soil and two (2) water samples were received on 9/22/87 to be analyzed for metals and cyanide. The laboratory numbers assigned were 7TFAKC2101 through 7TFAKC2104.

The water samples were insufficient in quantities to be analyzed for metals.

This is a final report.

Attachment

1.0

Date: 10/23/87

Appendix 1

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC21 Date Recvd: 09/22/87 Date Collected: 09/22/87
Sample Number: 1 Time Recvd: 14:00 Time Collected: 10:12

Source: GRANT RD DRUM SITE Tag Number: 6-22345
Site Description: Sta#GR01 Drum GR01
Sample Type: WATER
Sample Retention:

Param- Organic: VOA
Metals: HSL
Inorganic:
Biology:

Due Date: 10/25/87
Date Projected: 10/25/87
Date Completed: 10/23/87
Comment:
Your Initials: LC

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC2101 DATE REPORTED: 10/20/87

SAMPLE TYPE: Water

ANALYST: Richard McMillin

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/l)
	67-64-1	acetone	ND DL= 50
(2V)	107-02-8	acrolein	ND DL=1000
(3V)	107-13-1	acrylonitrile	ND DL=1000
(4V)	71-43-2	benzene	ND DL= 20
	78-93-3	2-butanone	ND DL= 50
	75-15-0	carbon disulfide	ND DL= 50
(6V)	56-23-5	carbon tetrachloride	ND DL= 20
(7V)	108-90-7	chlorobenzene	ND DL= 20
(10V	107-06-2	1,2-dichloroethane	ND DL= 20
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 20
(13V)	75-34-3	1,1-dichloroethane	ND DL= 20
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 20
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 20
(16V)	75-00-3	chloroethane	ND DL= 50
(23V)	67-66-3	chloroform	ND DL= 20
(29V)	75-35-4	1,1-dichloroethene	ND DL= 20
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 20
(32V)	78-87-5	1,2-dichloropropane	ND DL= 20
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 20
	10061-01-5	cis-1,3-dichloropropene	ND DL= 20
(38V)	100-41-4	ethylbenzene	46.4
	519-78-6	2-hexanone	ND DL= 50
	108-10-1	4-methyl-2-pentanone	ND DL= 50
(44V)	75-09-2	methylene chloride	ND DL= 20
(45V)	74-87-3	chloromethane	ND DL= 50
(46V)	74-83-9	bromomethane	ND DL= 50
(47V)	75-25-2	bromoform	ND DL= 20
(48V)	75-27-4	bromodichloromethane	ND DL= 20
(51V)	124-48-1	chlorodibromomethane	ND DL= 20
	100-42-5	styrene	ND DL= 50
(85V)	127-18-4	tetrachloroethene	ND DL= 20
(86V)	108-88-3	toluene	ND DL= 20
(87V)	79-01-6	trichloroethene	ND DL= 20
	108-05-4	vinyl acetate	ND DL= 50
(88V)	75-01-4	vinyl chloride	ND DL= 50
	95-47-6	o-xylene	1,120
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	2,250

** NOTE: This sample was not collected in a VOA container and was received with a large volume of trapped air.

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ORGANIC ANALYSIS DATA

GES HL SAMPLE NO.: 7TFAKC010 DATE REPORTED: 10/20/87

SAMPLE TYPE: Water

ANALYST: Richard McMillin

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			No VOA TIC's detected.

* ANALYSTS NOTE ! THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

*** NOTE: This sample was not collected in a VOA container and was received with a large volume of trapped air.

Date: 10/23/87

Appendix 2

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC21 Date Recvd: 09/22/87 Date Collected: 09/22/87
Sample Number: 2 Time Recvd: 14:00 Time Collected: 10:20

Source: GRANT RD DRUM SITE Tag Number: 6-22346
Site Description: Sta#GR02 Drum GR02
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: HSL
Inorganic: CN
Biology:

Due Date: 10/25/87
Date Projected: 10/25/87
Date Completed: 10/23/87
Comment:
Your Initials: LC

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC2102 DATE REPORTED: 10/20/87

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/Kg)
	67-64-1	acetone	ND DL= 100
(2V)	107-02-8	acrolein	ND DL=2000
(3V)	107-13-1	acrylonitrile	ND DL=2000
(4V)	71-43-2	benzene	ND DL= 40
	78-93-3	2-butanone	ND DL= 100
	75-15-0	carbon disulfide	ND DL= 100
(6V)	56-23-5	carbon tetrachloride	ND DL= 40
(7V)	108-90-7	chlorobenzene	ND DL= 40
(10V	107-06-2	1,2-dichloroethane	ND DL= 40
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 40
(13V)	75-34-3	1,1-dichloroethane	ND DL= 40
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 40
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 40
(16V)	75-00-3	chloroethane	ND DL= 100
(23V)	67-66-3	chloroform	ND DL= 40
(29V)	75-35-4	1,1-dichloroethene	ND DL= 40
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 40
(32V)	78-87-5	1,2-dichloropropane	ND DL= 40
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 40
	10061-01-5	cis-1,3-dichloropropene	ND DL= 40
(38V)	100-41-4	ethylbenzene	ND DL= 40
	519-78-6	2-hexanone	ND DL= 100
	108-10-1	4-methyl-2-pentanone	ND DL= 100
(44V)	75-09-2	methylene chloride	ND DL= 40
(45V)	74-87-3	chloromethane	ND DL= 100
(46V)	74-83-9	bromomethane	ND DL= 100
(47V)	75-25-2	bromoform	ND DL= 40
(48V)	75-27-4	bromodichloromethane	ND DL= 40
(51V)	124-48-1	chlorodibromomethane	ND DL= 40
	100-42-5	styrene	ND DL= 100
(85V)	127-18-4	tetrachloroethene	ND DL= 40
(86V)	108-88-3	toluene	ND DL= 40
(87V)	79-01-6	trichloroethene	ND DL= 40
	108-05-4	vinyl acetate	ND DL= 100
(88V)	75-01-4	vinyl chloride	ND DL= 100
	95-47-6	o-xylene	ND DL= 100
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	ND DL= 100

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAKC2102 DATE REPORTED: 10/20/87

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/Kg)	COMPOUND NAME
			No VOA TIC's detected.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC21-02 DATE REPORTED: 10/20/87

SAMPLE TYPE: SOIL ANALYST: MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/KG	COMPOUND	ug/KG
Phenol	nd dl=1200	Acenaphthene	nd dl= 600
bis(2-Chloroethyl) Ether	nd dl= 600	2,4-Dinitrophenol	nd dl=9000
2-Chlorophenol	nd dl=1200	4-Nitrophenol	nd dl=2400
1,3-Dichlorobenzene	nd dl= 600	Dibenzofuran	nd dl= 600
1,4-Dichlorobenzene	nd dl= 600	2,4-Dinitrotoluene	nd dl=1800
Benzyl Alcohol	nd dl=1200	2,6-Dinitrotoluene	nd dl=1800
1,2-Dichlorobenzene	nd dl= 600	Diethylphthalate	nd dl= 600
2-Methylphenol	nd dl=1800	4-Chlorophenylphenyl Ether	nd dl=2400
bis(2-chloroisopropyl)Ether	nd dl= 600	Fluorene	nd dl= 600
4-Methylphenol	nd dl=1800	4-Nitroaniline	nd dl=2400
N-Nitroso-Di-n-Propylamine	nd dl=1800	4,6-Dinitro-2-Methylphenol	nd dl=6000
Hexachloroethane	nd dl= 600	N-Nitrosodiphenylamine	nd dl=1200
Nitrobenzene	nd dl= 600	4-Bromophenylphenyl Ether	nd dl=2400
Isophorone	nd dl=1200	Hexachlorobenzene	nd dl= 600
2-Nitrophenol	nd dl=3000	Pentachlorophenol	nd dl=4500
2,4-Dimethylphenol	nd dl=1800	Phenanthrene	nd dl= 600
Benzoic Acid	nd dl=3000	Anthracene	nd dl= 600
bis(2-Chloroethoxy)Methane	nd dl= 600	Di-n-Butylphthalate	nd dl= 600
2,4-Dichlorophenol	nd dl=1800	Fluoranthene	nd dl= 600
1,2,4-trichlorobenzene	nd dl= 600	Benzidine	nd dl=6000
Naphthalene	nd dl= 600	Pyrene	nd dl= 600
4-Chloroaniline	nd dl=1200	Butylbenzylphthalate	nd dl=1200
Hexachlorobutadiene	nd dl= 600	3,3'-Dichlorobenzidine	nd dl=3000
4-Chloro-3-Methylphenol	nd dl=2400	Benzo(a)Anthracene	nd dl=2400
2-Methylnaphthalene	nd dl= 600	bis-(2-Ethylhexyl)Phthalate	nd dl=1200
Hexachlorocyclopentadiene	nd dl=3000	Chrysene	nd dl=2400
2,4,6-Trichlorophenol	nd dl=1800	Di-n-Octyl Phthalate	nd dl=1200
2,4,5-Trichlorophenol	nd dl=1800	Benzo(b)Fluoranthene	nd dl=2400
2-Chloronaphthalene	nd dl= 600	Benzo(k)Fluoranthene	nd dl=2400
2-Nitroaniline	nd dl=2400	Benzo(a)Pyrene	nd dl=2400
DimethylPhthalate	nd dl= 600	Indeno(1,2,3-cd) Pyrene	nd dl=2400
Acenaphthylene	nd dl= 600	Dibenzo(a,h)Anthracene	nd dl=2400
3-Nitroaniline	nd dl=2400	Benzo(g,h,i)Perylene	nd dl=2400

10/24

ORGANIC ANALYSIS DATA

GCS HL SAMPLE NO.: 7TFAKC21-02 DATE REPORTED: 10/20/87

SAMPLE TYPE.SOIL

ANALYST. MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

SCAN#	CAS #	EST.CONC (ug/KG)	COMPOUND NAME
460	83449	6550	1,3-ISOBENZOFURANDIONE
551		5025	UNKNOWN
742	629792	7480	PENTECOSANE
771		12100	UNKNOWN
1027	80079	46000	1,1'-SULFONYLBIS(4-CHLORO-)BENZENE
1079		21700	UNKNOWN
1320		7830	UNKNOWN
1399		53450	UNKNOWN
1477		58200	UNKNOWN
1552		18200	UNKNOWN
1585		221000	UNKNOWN

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

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Attachment 2

PESTICIDE/PCB ANALYSIS

SES-HL SAMPLE NO.: 7TFAKC21-02 DATE REPORTED: 10/22/87

SAMPLE TYPE: SOIL

ANALYST: JOHN LAY

PP#	CAS#		UG/KG (PPB)
(89P)	309-00-2	aldrin	ND DL=< 50
(90P)	60-57-1	deildrin	ND DL=< 50
(91P)	57-74-9	chlordane	ND DL=< 100
(92P)	50-29-3	4,4'-DDT	ND DL=< 50
(93P)	72-55-9	4,4'-DDE	ND DL=< 50
(94P)	72-54-8	4,4'-DDD	ND DL=< 50
(95P)	115-29-7	a-endosulfan	ND DL=< 50
(96P)	115-29-7	b-endosulfan	ND DL=< 50
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 50
(98P)	72-20-8	endrin	ND DL=< 50
(99P)	7421-93-4	endrin aldehyde	ND DL=< 50
(100P)	76-44-8	heptachlor	ND DL=< 50
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 50
(102P)	319-84-6	a-BHC	ND DL=< 50
(103P)	319-85-7	b-BHC	ND DL=< 50
(104P)	319-86-8	d-BHC	ND DL=< 50
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 50
(106P)	53469-21-9	PCB-1242	ND DL=< 500
(107P)	11097-69-1	PCB-1254	ND DL=< 500
(108P)	11104-28-2	PCB-1221	ND DL=< 700
(109P)	11141-16-5	PCB-1232	ND DL=< 500
(110P)	12672-29-6	PCB-1248	ND DL=< 500
(111P)	11096-82-5	PCB-1260	ND DL=< 500
(112P)	12674-11-2	PCB-1016	ND DL=< 500
(113P)	8001-35-2	toxaphene	ND DL=< 500
		methoxychlor	ND DL=< 50
		mirex	ND DL=< 50
		PCB-1262	ND DL=< 500

12/24

US EPA HOUSTON BRANCH

SAMPLE #	SOURCE	TYPE	DATE REC	DATE DIG	DATE REP
7TFAKC2102	GRANT ROAD DRUM SITE	SOIL	22-SEP-87	23-SEP-87	23-OCT-87
ANALYSTS	M. COLE/R.CLARK/T.SANDERS				

PARAMETER	CONCENTRATION	DET. LIMITS (DL)	UNITS
AS	10.69	0.71	MG/KG
SE	ND	7.15	MG/KG
TL	ND	0.71	MG/KG
HG	ND	0.145	MG/KG
AL	1044	159	MG/KG
SB	ND	96	MG/KG
BA	767	16	MG/KG
BE	ND	8	MG/KG
CD	ND	8	MG/KG
CA	58436	239	MG/KG
CR	8678	16	MG/KG
CO	226	32	MG/KG
CU	92	32	MG/KG
FE	31073	40	MG/KG
PB	4616	48	MG/KG
MG	12200	239	MG/KG
MN	190	8	MG/KG
NI	ND	32	MG/KG
K	3146	1594	MG/KG
AG	ND	16	MG/KG
NA	ND	797	MG/KG
SN	ND	64	MG/KG
V	ND	48	MG/KG
ZN	11429	8	MG/KG

INORGANICS

CN	<3.9	MG/KG

COMMENTS: ANALYSIS REPORTED ON A DRY WEIGHT BASIS

ND= NONE DETECTED DL= DETECTION LIMITS

Date: 10/23/87

Appendix 3

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC21 Date Recvd: 09/22/87 Date Collected: 09/22/87
Sample Number: 3 Time Recvd: 14:00 Time Collected: 10:30

Source: GRANT RD DRUM SITE Tag Number: 6-22347
Site Description: Sta#GR03 Drum GR03
Sample Type: WATER
Sample Retention:

Param- Organic: VOA
Metals: HSL
Inorganic:
Biology:

Due Date: 10/25/87
Date Projected: 10/25/87
Date Completed: 10/23/87
Comment:
Your Initials: LC

ORGANIC ANALYSIS DATA

GES HL SAMPLE NO.: 7TFAKC2103 DATE REPORTED: 10/20/87

SAMPLE TYPE: Water

ANALYST: Richard McMillin

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/l)
	67-64-1	acetone	ND DL= 50
(2V)	107-02-8	acrolein	ND DL=1000
(3V)	107-13-1	acrylonitrile	ND DL=1000
(4V)	71-43-2	benzene	ND DL= 20
	78-93-3	2-butanone	ND DL= 50
	75-15-0	carbon disulfide	ND DL= 50
(6V)	56-23-5	carbon tetrachloride	ND DL= 20
(7V)	108-90-7	chlorobenzene	ND DL= 20
(10V	107-06-2	1,2-dichloroethane	ND DL= 20
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 20
(13V)	75-34-3	1,1-dichloroethane	ND DL= 20
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 20
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 20
(16V)	75-00-3	chloroethane	ND DL= 50
(23V)	67-66-3	chloroform	ND DL= 20
(29V)	75-35-4	1,1-dichloroethene	ND DL= 20
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 20
(32V)	78-87-5	1,2-dichloropropane	ND DL= 20
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 20
	10061-01-5	cis-1,3-dichloropropene	ND DL= 20
(38V)	100-41-4	ethylbenzene	ND DL= 20
	519-78-6	2-hexanone	ND DL= 50
	108-10-1	4-methyl-2-pentanone	ND DL= 50
(44V)	75-09-2	methylene chloride	ND DL= 20
(45V)	74-87-3	chloromethane	ND DL= 50
(46V)	74-83-9	bromomethane	ND DL= 50
(47V)	75-25-2	bromoform	ND DL= 20
(48V)	75-27-4	bromodichloromethane	ND DL= 20
(51V)	124-48-1	chlorodibromomethane	ND DL= 20
	100-42-5	styrene	ND DL= 50
(85V)	127-18-4	tetrachloroethene	ND DL= 20
(86V)	108-88-3	toluene	ND DL= 20
(87V)	79-01-6	trichloroethene	ND DL= 20
	108-05-4	vinyl acetate	ND DL= 50
(88V)	75-01-4	vinyl chloride	ND DL= 50
	95-47-6	o-xylene	12,000
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	27,000

** NOTE: This sample was not collected in a VOA container and was received with a large volume of trapped air.

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC2103 DATE REPORTED: 10/29/87

SAMPLE TYPE: Water

ANALYST: Richard McMillin

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
267		686	cis-1,2-dichloroethene

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

*** NOTE: This sample was not collected in a VOA container and was received with a large volume of trapped air.

1 CF 1

Date: 10/23/87

Appendix 4

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 7TFAKC21 Date Recvd: 09/22/87 Date Collected: 09/22/87
Sample Number: 4 Time Recvd: 14:00 Time Collected: 10:33

Source: GRANT RD DRUM SITE Tag Number: 6-22348
Site Description: Sta#GR04 Drum GR04
Sample Type: SLUDGE
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: HSL
Inorganic: CN
Biology:

Due Date: 10/25/87
Date Projected: 10/25/87
Date Completed: 10/23/87
Comment:
Your Initials: LC

000070

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ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAK02104 DATE REPORTED: 10/20/87

SAMPLE TYPE: Sludge

ANALYST: Richard McMillin

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/Kg)
	67-64-1	acetone	ND DL=2500000
(2V)	107-02-8	acrolein	ND DL=50000000
(3V)	107-13-1	acrylonitrile	ND DL=50000000
(4V)	71-43-2	benzene	ND DL=1000000
	78-93-3	2-butanone	ND DL=2500000
	75-15-0	carbon disulfide	ND DL=2500000
(6V)	56-23-5	carbon tetrachloride	ND DL=1000000
(7V)	108-90-7	chlorobenzene	ND DL=1000000
(10V	107-06-2	1,2-dichloroethane	ND DL=1000000
(11V)	71-55-6	1,1,1-trichloroethane	ND DL=1000000
(13V)	75-34-3	1,1-dichloroethane	ND DL=1000000
(14V)	79-00-5	1,1,2-trichloroethane	ND DL=1000000
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL=1000000
(16V)	75-00-3	chloroethane	ND DL=2500000
(23V)	67-66-3	chloroform	ND DL=1000000
(29V)	75-35-4	1,1-dichloroethene	ND DL=1000000
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL=1000000
(32V)	78-87-5	1,2-dichloropropane	ND DL=1000000
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL=1000000
	10061-01-5	cis-1,3-dichloropropene	ND DL=1000000
(38V)	100-41-4	ethylbenzene	22,300,000
	519-78-6	2-hexanone	ND DL=2500000
	108-10-1	4-methyl-2-pentanone	ND DL=2500000
(44V)	75-09-2	methylene chloride	ND DL=1000000
(45V)	74-87-3	chloromethane	ND DL=2500000
(46V)	74-83-9	bromomethane	ND DL=2500000
(47V)	75-25-2	bromoform	ND DL=1000000
(48V)	75-27-4	bromodichloromethane	ND DL=1000000
(51V)	124-48-1	chlorodibromomethane	ND DL=1000000
	100-42-5	styrene	ND DL=2500000
(85V)	127-18-4	tetrachloroethene	ND DL=1000000
(86V)	108-88-3	toluene	1,350,000
(87V)	79-01-6	trichloroethene	6,100,000
	108-05-4	vinyl acetate	ND DL=2500000
(88V)	75-01-4	vinyl chloride	ND DL=2500000
	95-47-6	o-xylene	33,400,000
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	92,000,000

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAKC2104 DATE REPORTED: 10/20/87

SAMPLE TYPE: Sludge

ANALYST: Richard McMillin

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/Kg)	COMPOUND NAME
			No VOA TIC's detected.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 7TFAKC21-04 DATE REPORTED: 10/20/87

SAMPLE TYPE: SOIL ANALYST:MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/KG		COMPOUND	ug/KG	
Phenol	nd	dl=60000	Acenaphthene	nd	dl= 30000
bis(2-Chloroethyl) Ether	nd	dl=30000	2,4-Dinitrophenol	nd	dl=450000
2-Chlorophenol	nd	dl=60000	4-Nitrophenol	nd	dl=120000
1,3-Dichlorobenzene	nd	dl=30000	Dibenzofuran	nd	dl= 30000
1,4-Dichlorobenzene	nd	dl=30000	2,4-Dinitrotoluene	nd	dl= 90000
Benzyl Alcohol	nd	dl=60000	2,6-Dinitrotoluene	nd	dl= 90000
1,2-Dichlorobenzene	nd	dl= 30000	Diethylphthalate	nd	dl= 30000
2-Methylphenol	nd	dl= 90000	4Chlorophenylphenyl Ether	nd	dl=120000
bis(2chloroisopropyl)Ether	nd	dl= 30000	Fluorene	nd	dl= 30000
4-Methylphenol	nd	dl= 90000	4-Nitroaniline	nd	dl=120000
N-Nitroso-Di-n-Propylamine	nd	dl= 90000	4,6-Dinitro-2-Methylphenol	nd	dl= 30000
Hexachloroethane	nd	dl= 30000	N-Nitrosodiphenylamine	nd	dl= 60000
Nitrobenzene	nd	dl= 30000	4-Bromophenylphenyl Ether	nd	dl=120000
Isophorone	nd	dl= 60000	Hexachlorobenzene	nd	dl= 30000
2-Nitrophenol	nd	dl=150000	Pentachlorophenol	nd	dl=225000
2,4-Dimethylphenol	nd	dl= 90000	Phenanthrene	nd	dl= 30000
Benzoic Acid	nd	dl=150000	Anthracene	nd	dl= 30000
bis(2-Chloroethoxy)Methane	nd	dl= 30000	Di-n-Butylphthalate	nd	dl= 30000
2,4-Dichlorophenol	nd	dl= 90000	Fluoranthene	nd	dl= 30000
1,2,4-trichlorobenzene	nd	dl= 30000	Benzidine	nd	dl=300000
Naphthalene	nd	dl= 30000	Pyrene	nd	dl= 30000
4-Chloroaniline	nd	dl= 60000	Butylbenzylphthalate	nd	dl= 60000
Hexachlorobutadiene	nd	dl= 30000	3,3'-Dichlorobenzidine	nd	dl=150000
4-Chloro-3-Methylphenol	nd	dl=120000	Benzo(a)Anthracene	nd	dl=120000
2-Methylnaphthalene	nd	dl= 30000	bis(2Ethylhexyl)Phthalate	nd	dl= 60000
Hexachlorocyclopentadiene	nd	dl=150000	Chrysene	nd	dl=120000
-,4,6-Trichlorophenol	nd	dl= 90000	Di-n-Octyl Phthalate	nd	dl= 60000
2,4,5-Trichlorophenol	nd	dl= 90000	Benzo(b)Fluoranthene	nd	dl=120000
2-Chloronaphthalene	nd	dl= 30000	Benzo(k)Fluoranthene	nd	dl=120000
2-Nitroaniline	nd	dl=120000	Benzo(a)Pyrene	nd	dl=120000
DimethylPhthalate	nd	dl= 30000	Indeno(1,2,3-cd) Pyrene	nd	dl=120000
Acenaphthylene	nd	dl= 30000	Dibenzo(a,h)Anthracene	nd	dl=120000
3-Nitroaniline	nd	dl=120000	Benzo(g,h,i)Perylene	nd	dl=120000

20/24

ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 7TFAK021-04 DATE REPORTED: 10/20/87

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

SCAN#	CAS #	EST.CONC (ug/KG)	COMPOUND NAME
153	17302282	99500	2,6-DIMETHYL NONANE
212		93200	UNKNOWN
220	25155151	94300	(1-METHYLETHYL)-METHYL BENZENE
230	17588891	107000	2-ETHYL-1,4-DIMETHYL BENZENE
257	11202214	753000	UNDECANE
365		173000	UNKNOWN HYDROCARBON
1033	80079	952000	1,1'-SULFONYL BIS(4-CHLORO)BENZENE
1263		1470000	UNKNOWN
1268		2230000	UNKNOWN

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

01/24

PESTICIDE/PCB ANALYSIS

GES-HL SAMPLE NO.: 7TFAKC21-04 DATE REPORTED: 10/22/87

SAMPLE TYPE: OIL

ANALYST: JOHN LAY

PP#	CAS#		UG/KG (PPB)
(89P)	309-00-2	aldrin	ND DL=< 50
(90P)	60-57-1	deildrin	ND DL=< 50
(91P)	57-74-9	chlordane	ND DL=< 100
(92P)	50-29-3	4,4'-DDT	ND DL=< 50
(93P)	72-55-9	4,4'-DDE	ND DL=< 50
(94P)	72-54-8	4,4'-DDD	ND DL=< 50
(95P)	115-29-7	a-endosulfan	ND DL=< 50
(96P)	115-29-7	b-endosulfan	ND DL=< 50
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 50
(98P)	72-20-8	endrin	ND DL=< 50
(99P)	7421-93-4	endrin aldehyde	ND DL=< 50
(100P)	76-44-8	heptachlor	ND DL=< 50
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 50
(102P)	319-84-6	a-BHC	ND DL=< 50
(103P)	319-85-7	b-BHC	ND DL=< 50
(104P)	319-86-8	d-BHC	ND DL=< 50
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 50
(106P)	53469-21-9	PCB-1242	ND DL=< 500
(107P)	11097-69-1	PCB-1254	ND DL=< 500
(108P)	11104-28-2	PCB-1221	ND DL=< 700
(109P)	11141-16-5	PCB-1232	ND DL=< 500
(110P)	12672-29-6	PCB-1248	ND DL=< 500
(111P)	11096-82-5	PCB-1260	ND DL=< 500
(112P)	12674-11-2	PCB-1016	ND DL=< 500
(113P)	8001-35-2	toxaphene	ND DL=< 500
		methoxychlor	ND DL=< 50
		mirex	ND DL=< 50
		PCB-1262	ND DL=< 500

US EPA HOUSTON BRANCH

SAMPLE #	SOURCE	TYPE	DATE REC	DATE DIG	DATE REP
7TFAKC2104	GRANT ROAD DRUM SITE	SOIL	22-SEP-87	23-SEP-87	23-OCT-87
ANALYSTS	M. COLE/R.CLARK/T.SANDERS				

PARAMETER	CONCENTRATION	DET. LIMITS (DL)	UNITS
AS	5.42	0.78	MG/KG
SE	ND	7.79	MG/KG
TL	ND	0.78	MG/KG
HG	ND	0.189	MG/KG
AL	1702	184	MG/KG
SB	481	110	MG/KG
BA	467	18	MG/KG
BE	ND	9	MG/KG
CD	ND	9	MG/KG
CA	36751	276	MG/KG
CR	5033	18	MG/KG
CO	135	37	MG/KG
CU	62	37	MG/KG
FE	6273	46	MG/KG
PB	7591	55	MG/KG
MG	7276	276	MG/KG
MN	112	9	MG/KG
NI	ND	37	MG/KG
K	ND	1838	MG/KG
AG	ND	18	MG/KG
NA	ND	919	MG/KG
SN	ND	55	MG/KG
V	ND	18	MG/KG
ZN	6046	9	MG/KG

INORGANICS

CN	<23.6	MG/KG

COMMENTS: ANALYSIS REPORTED ON A DRY WEIGHT BASIS

ND= NONE DETECTED DL= DETECTION LIMITS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

October 23, 1987

MEMORANDUM

SUBJECT: Notice of Intent to Dispose of Samples

FROM: Diana Ayers, Chief, Houston Branch; 6E-H

TO: Charles Gazda, Chief, Emergency Response Branch; 6E-E

The Houston Laboratory is required to dispose of all hazardous wastes we generate in a manner consistent with RCRA regulations. This includes all samples received for analysis provided we find them to contain contaminants which classify them as RCRA hazardous wastes.

I have included this memorandum in the final analytical report to serve as notice to the program that we have completed all analysis. If we have any of the original sample remaining after analysis is complete we will dispose of it within 90 days. Please note that even though original sample may be left over, it does not mean that a reanalysis of the sample may be requested since the sample has most likely exceeded its holding time and any subsequent analysis may not be valid.

If you have a need to hold these samples in custody longer than 90 days, please sign below and return this memorandum to me within the next 30 days. Also, state briefly your need to hold these samples in custody.

Thank you for your cooperation in this request.

Grant Road Drum Site (7TFAKC21)
Facility Name

Program Manager Date

TXD982305195

SITE ASSESSMENT REPORT

For

Grant Road Drum Site
Houston, Harris County, Texas

Prepared for

EPA - REGION VI
EMERGENCY RESPONSE BRANCH

J. Chris Petersen
Deputy Project Officer

By

Ecology and Environment, Inc.
Technical Assistance Team

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November 16, 1987

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1509 MAIN STREET, SUITE 814, DALLAS, TEXAS 75201, TEL. 214-742
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TXD982305195

Date: November 16, 1987

To: James Staves, OSC
Region VI, Emergency Response Branch

Thru: J. Chris Petersen, DPO
Region VI, Emergency Response Branch

Thru: William Goode, TATL
Region VI, Technical Assistance Team

From: Robert Marguccio, ATATL
Region VI, Technical Assistance Team

Subj: Site Assessment and Sampling
Grant Road Drum Site
Houston, Harris County, Texas
TDD# T06-8709-17
PAN# TTX0587SAC

On September 22, 1987, TAT members Marguccio, Yeager, Hardin and Donohue, accompanied OSCs Staves and Ryan, to perform a site assessment at the Grant Road Drum Site. The site is located on a heavily wooded lot in the northern part of Houston, Harris County, Texas.

The TAT investigated the drums, sampled open containers and documented site conditions. The report has been organized in a Draft Removal Action Memorandum outline in an attempt to facilitate site activities.

Attachments:

Draft Removal Action Memorandum
Site Map and Sketch
Photographs and Negatives
Logbook copy
Record of Communication
Chain of Custody
Copy of TDD

Draft Removal Action Memorandum
Grant Road Drum Site
Houston, Harris County, Texas

I. Purpose

A preliminary assessment, performed by the EPA On-scene coordinator and the Technical Assistance Team, at the Grant Road Drum Site, Houston, Harris County, Texas. In accordance with National Contingency Plan Guidelines, the OSC has identified that there exists a potential threat to public health or welfare or the environment, posed by the presence of approximately sixty deteriorated and abandoned drums. The drums have been shown to contain significant concentrations of hazardous substances including various volatile organics and heavy metals.

The OSC has determined that this site meets the criteria as specified in SARA and the National Contingency Plan for an Immediate Removal, prompting this request.

II. Background

The site is located north of Grant Road and west of State Route 149, in the northern portion of Houston, Harris County, Texas. The property is a heavily vegetated and wooded lot which is generally flat.

The property contains approximately sixty 55-gallon drums in various degrees of deterioration. Nearly all of the drums appear to be full and several drums are open.

It has been determined, through communication with the Texas Water Commission, that the property management firm which handles the property is the Raymond R. Betz Company. The company has stated that the property, which contains the drums, was purchased by a group of investors in 1982. It was also learned that the property may have been the previous location of a fertilizer or pesticide operation.

Access to the site is currently unrestricted and there is evidence that childrem play on or adjacent to the property. The drums are well rusted, precariously stacked and exposed to the continued effects of the weather.

The site is situated approximately 100 feet from active businesses to the northeast, two-tenths of a mile from local residences, churches and a daycare center and four-tenths of a mile, to the west, of Cypress Creek High School. The site is also approximately two miles from a local well water field and Greens Bayou, which is a tributary to Buffalo Bayou and Galveston Bay, to the south.

On September 22, 1987 the OSC and TAT performed an assessment, which included the investigation of the drums, the collection of four samples from the open containers and the documentation of site conditions. Nearly all of the drums appeared to be full. The open drums proved to contain liquids, sludges and solids or combinations of several phases. Samples were collected from all three matrices for analysis. The samples were delivered to and analyzed by the EPA Region VI, Houston Branch, Houston Laboratory. All samples were analyzed for volatile organics (VOAs). These samples contained various VOA target compounds ranging in concentration from 46.4 ug/l to 92,000,000 ug/kg. The slugde and solid samples were also analyzed for acid base/neutrals (ABN), pesticides and PCBs, and metals and cyanide. The samples were shown to contain significant concentrations of o-xylene, m-xylene and/or p-xylene, ethyl benzene, toluene, trichloroethene, lead, chromium, and various tentative organic compounds.

The site has not received a Hazard Ranking System (HRS) score and, therefore, is not a National Priorities List (NPL) site.

III. Threat

Approximately sixty badly deteriorated 55-gallon drums, containing significant concentrations of volatile organic compounds and heavy metal are present at this site. In accordance with Section 300.65 of the National Contingency Plan, the OSC has determined that there is a potential threat to public health or welfare or the environment based on the following factors:

(i) Actual or potential exposure to hazardous substances by nearby populations, due to the unrestricted access and close proximity to residences, businesses and schools;

(ii) Potential contamination of drinking water supplies due the presence of the site within two miles of a local well water field;

(iii) Hazardous substances in drums that pose a threat of release, due to their deteriorated condition;

(iv) Weather conditions that may cause hazardous substances to be released or migrate;

(v) Threat of fire or explosion due, to the significant concentrations of volatile organic compounds; and

(vi) The lack of availability of other appropriate Federal or State response mechanisms to respond to the site.

A summary of the hazardous substances, matrices and ranges of concentration determined to be present in several drums at the site can be found in Table 1. A summary of the same hazardous substances, target organs and potential health effects can be found in Table 2.

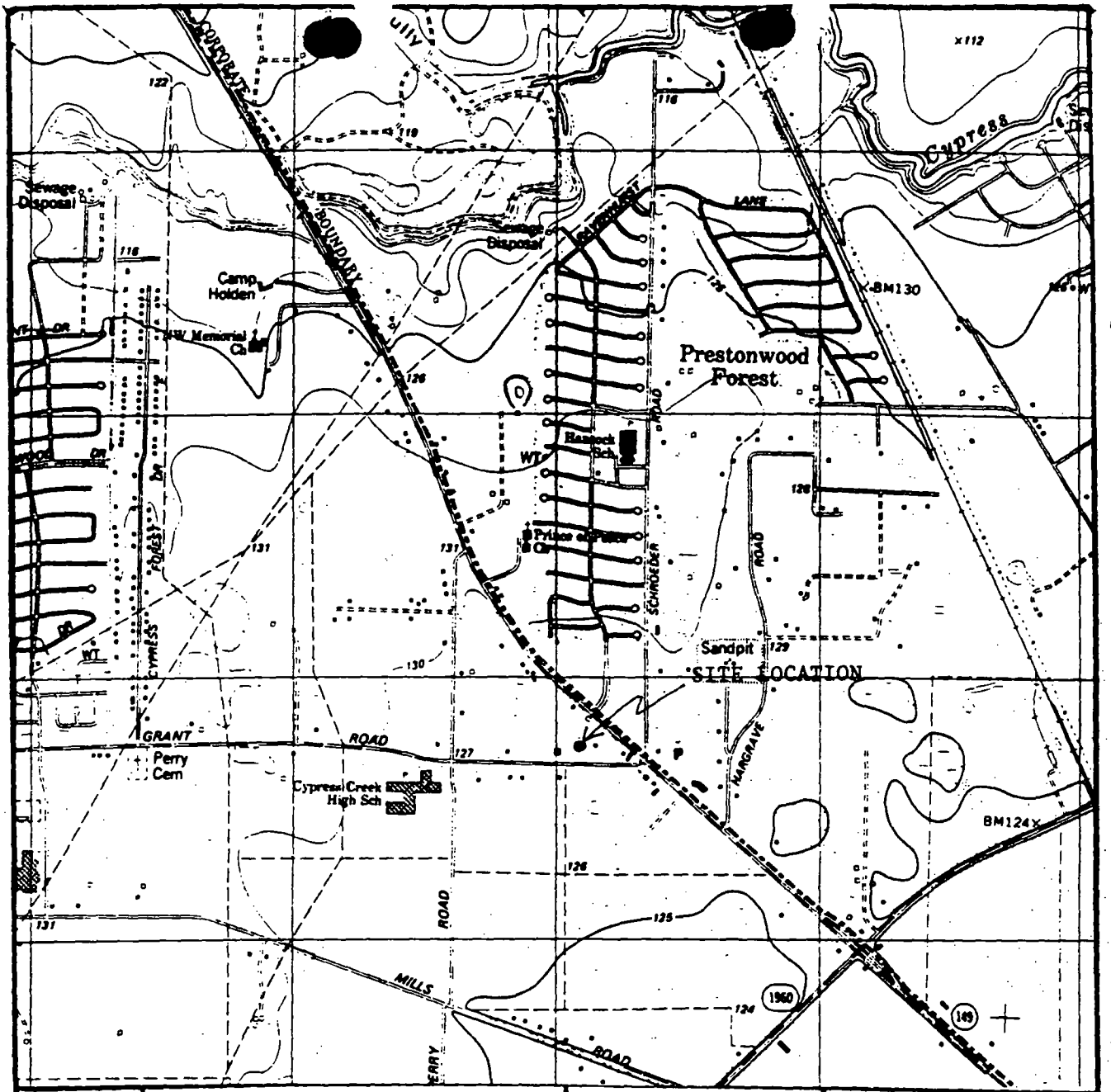
Table 1

Hazardous Substance	Matrix	Concentration
o-Xylene	water	1,120 to 13,000 ug/l
	sludge	33,400,000 ug/kg
m-Xylene and/or p-Xylene	water	2,250 to 27,300 ug/l
	sludge	92,000,000 ug/kg
Ethyl benzene	water	46.4 ug/l
	sludge	22,300,000 ug/kg
Toluene	sludge	1,350,000 ug/kg
Trichloroethene	sludge	6,100,000 ug/kg
Lead	solid	4,616 mg/kg
	sludge	7,591 mg/kg
Chromium	solid	8,678 mg/kg
	sludge	5,033 mg/kg

Table 2

Hazardous Substance	Target Organs	Potential Health Effects
Xylene Toluene Ethyl benzene	Blood Bone marrow (a)CNS Eyes Respiratory Skin Liver Kidney	All cause CNS depression: decreased alertness, loss of consciousness. Defatting dermatitis. Xylene vapor may cause irritation of the eyes, nose and throat. High conc. of vapor may cause damage to the kidneys and liver. Ethyl benzene is a lacrimator, severely irritating eyes and mucuos membranes.
Trichloroethene	CNS Kidney Liver Skin	Causes CNS depression: decreased alertness, loss of consciousness. Kidney changes: fatigue, malaise, liver enlargement and jaundice.
Lead Chromium	Blood Cardio-pulmonary Gastro-intestinal Liver Lung CNS Skin	Both are toxic to the kidneys. Each has its own symptom cluster. Lead causes decreased mental activity, weakness, headache, abdominal cramps, diarrhea and anemia. Lead can affect the blood-forming mechanism, kidney and peripheral nervous system. Lead toxicity can cause permanent kidney and brain damage. Chromium has a high pulmonary toxicity and has been implicated as a human carcinogen.

(a)CNS = Central Nervous System



	Ecology and Environment, Inc. Technical Assistance Team RegionVI	Case No: FY87-1725	TDD No: 06-8706-37
		PAN: TTX0587SAA	Date: 6/30/87
		Originator: Richard Yeager	

LOCATION OF GRANT ROAD SITE

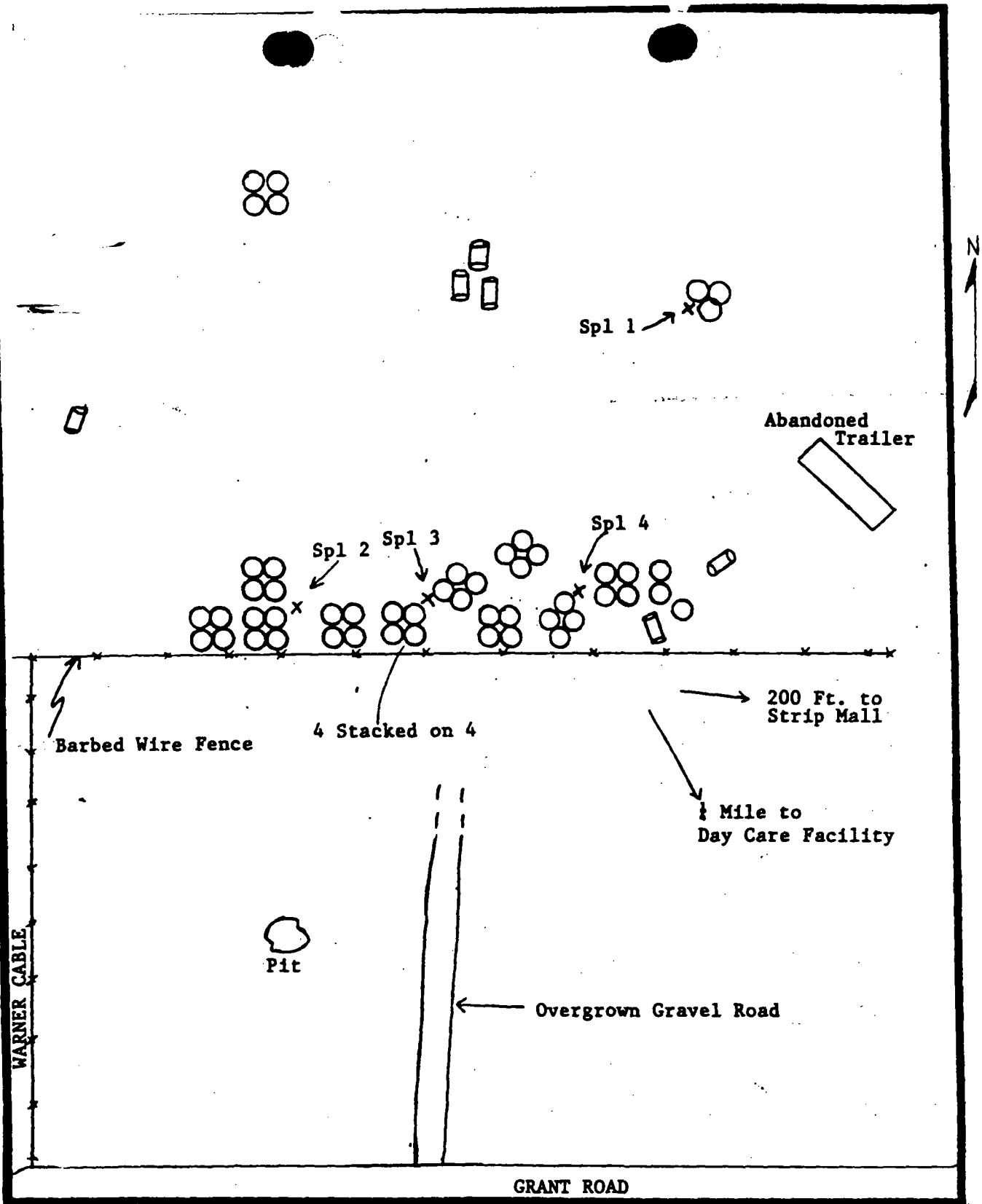
SATSUMA QUADRANGLE
TEXAS-HARRIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 ADDICKS 15' QUADRANGLE

SCALE 1:24000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

000084

7/14



Ecology and Environment, Inc. Technical Assistance Team RegionVI	Case No: Y87-17-5	TDD No: 06-8706-37
	PAN: TTX 0587 SAA	Date: 6/30/87
	Originator: Richard Yeager	

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Page 1 of 4

TDD#: T06-8709-17

Photographer / Witness

Marguccio/ Yeager, Hardin, Donohue

Date / Time / Direction

9/22/87 0920 South

Comments: TAT performing air monitoring of drums using an organic vapor analyzer. Note the heavy vegetative cover and deteriorated condition of the drums

Photographer / Witness

Marguccio/ Yeager, Hardin, Donohue

Date / Time / Direction

9/22/87 0925 South

Comments: View of stacked, deteriorated and overgrown drums.

9/14

000036

Page 1 of 4

TDD#: T06-8709-17

Photographer / Witness

Marguccio/ Yeager, Hardin, Donohue

Date / Time / Direction

9/22/87 0920 South

Comments: TAT performing air monitoring of drums using an organic vapor analyzer. Note the heavy vegetative cover and deteriorated condition of the drums

Photographer / Witness

Marguccio/ Yeager, Hardin, Donohue

Date / Time / Direction

9/22/87 0925 South

Comments: View of stacked, deteriorated and overgrown drums.

10/14

000087

GRANT ROAD DRUMSITE ——— TUESDAY 9-22-87
MARGUCCIO, HARDIN, DONOHUE AND YEAGER IN HOUSTON TAT VEHICLE
DEPARTED HOTEL 0720 ARRIVED SITE 0800. 0805 CONDUCTED
SAFETY MEETING, DISCUSSED OBJECTIVES WITH, OSC. SET-UP
FOR SITE ENTRY. OVA BACKGROUND 1.0 ppm. ENTRY 0915.
RAD BACKGROUND 0.0 INITIAL ENTRY AROUND DRUMS
NO EXPLOSIVE READINGS, ONE GREY DRUM WITH OPEN
BUNG READ 25 ppm 2 CONTAINERS OPEN. TAT
CLEARING BRUSH. DRUMS TO NORTH, ONE OPEN
RUSTED OVA - 15 ppm. ONE BLACK CYLINDER INITIALLY
FOUND 9 DRUMS TO NORTH. ENTRY COMPLETED 0940.
2ND ENTRY STARTED 1008 SAMPLE GR01 TAKEN J. HARDIN
1012. ~~[illegible]~~ RM GR02 1020 REF SOLID ——— [illegible]
OVA ON GR01 DRUM AFTER ~~[illegible]~~ RM SAMPLE
TAKEN 1000 ppm WALKED TO DRUMS TO NORTH.
OPEN TOP DRUM GR03 L FOR LIQUID PHASE TAKEN
1030. GR03S FOR SOLID PHASE - GRN TO BRICK RED
SLUDGE, TAKEN 1033. OFF AIR AT END OF ENTRY
1038. DROP SAMPLES AND EQUIPMENT. BREAK
DECON SAMPLES AND EQUIPMENT. REFILLED TANKS OF AIR.
COMPLETED CHAIN OF CUSTODY AND SAMPLE INFO. SEALED
COOLER FOR DELIVERY TO HOUSTON LAB 1146. DROVE TO
HOUSTON LAB, ARRIVED 1355 HOURS, DELIVERED SAMPLES. DISCUSSED
TURNAROUND TIME FOR ANALYSIS. SETTLED ON 30 DAYS, UNLESS
OSC CONTACTS LAB TO CHANGE. RETURNED TO HOUSTON TAT
OFFICE. RETURNED LARGE AIR CYLINDERS (2) AND PICKED UP
TWO MORE FOR TOMORROWS ASSESSMENT. PROCEEDED TO HOTEL.

Originator

PHONE CONVERSATION RECORD

Conversation with:

Name JIM STAVES, OSC

Company EPA

Address

Phone

Subject GRANT ROAD SITE ASSESSMENT

Date 10 / 22 / 97

Time 1600 AM/PM

☐ Originator Placed Call

☒ Originator Received Call

Notes: STAVES RETURNED CALL OF ORIGINATOR. OSC HAS RECEIVED DATA FROM DRUM SAMPLING. TATM REQUESTED AN EXTENSION/AMENDENT OF TDD UNTIL WEEK OF NOVEMBER 16-20, TO COMPLETE REPORT. THEY WILL USE ACTION MEMO FORMAT FOR FORMAL REPORT. THEY WILL SUBMIT AMENDED TDD.

☐ File

☐ Tickle File / /

☐ Follow-Up By:

☐ Copy/Route To:

Follow-Up-Action:

Originator's Initials

12/14

000089

'IRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME GRANT ROAD DRUM SITE TXD982305195

MPLERS: (Signature)

A. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	PRIORITY POLLUTANTS						REMARKS
				X	DRUM GR01	1	X						TAG NO. 6-22345
				X	DRUM GR02	1	X						" " 6-22346
				X	DRUM GR03 LIQUID PHASE	1	X						" " 6-22347
				X	DRUM GR03 SOLID PHASE	1	X						" " 6-22348

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	1/22/87 1256				
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	
		Sherry Carter	1/22/87 14:00		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

063000

C 7074

/IRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 6
First International Bldg., 1201 Elm St.
Dallas, Texas 75270

14/14

000091

CHAIN OF CUSTODY RECORD

PROJ. NO. [illegible]

PROJECT NAME GRANT ROAD DRUM SITE TXD982305195

MPLERS: (Signature) [illegible]

A. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]						REMARKS
[illegible]	[illegible]	[illegible]		X	DRUM GR01	1	X						TAG NO. 6-22345
	[illegible]	[illegible]		X	DRUM GR02	1	X						" " 6-22346
	[illegible]	[illegible]		X	DRUM GR03 LIQUID PHASE	1	X						" " 6-22347
	[illegible]	[illegible]		X	DRUM GR03 SOLID PHASE	1	X						" " 6-22348

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THE ENFORCEMENT ATTACHMENT OF THE ACTION MEMORANDUM IS CONFIDENTIAL.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202

MEMORANDUM

SUBJECT: ACTION MEMORANDUM
Request for Removal Action at the Grant Road Drum Site
Houston, Harris County, Texas
Cerclis #: TXD982305195
Site/Spill ID: G-2
Category of Removal: Time Critical

FROM: James C. Staves
On-Scene Coordinator
Field Response Section (6E-EF)

TO: Robert E. Layton Jr., P.E.
Regional Administrator (6A)

THRU: Russell F. Rhoades RFR
Director
Environmental Services Division (6E)

I. PURPOSE

This memorandum requests approval for a Removal Action pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) at the Grant Road Drum Site. The proposed action involves removing sixty 55-gallon drums suspected to contain waste solvents and paint pigments from an easily accessible, unused field in Houston, Harris County, Texas.

This action meets the Criteria for initiating a removal action under section 300.65 of the National Contigency Plan (NCP) and is anticipated to require less than twelve months and $2 million for completion.

II. BACKGROUND

The Grant Road Drum Site was discovered during an Emergency Response Branch Investigation of a citizen complaint from an employee of a nearby business. The initial investigation revealed about fifty drums, several of which were labelled "anhydrous aluminum chloride", in a field behind a strip mall and daycare center. The explosive nature of this compound prompted an immediate follow up investigation that included sampling. Samples taken from a few drums that were open, and soils around drums that may have leaked failed to confirm the presence of aluminum compounds but identified other hazardous chemicals.

The origin of the drums is unknown, although an employee of the nearby Warner Cable Company believed that the property had once been used by a "fertilizer or pesticide place". The property is now owned by the Raymond R. Betz Company, a property management firm, who bought the land without knowledge of the abandoned drums.

A. Site Description:

The abandoned drums are located on a wooded tract of land to the east of the Warner Cable hub station at 9602 Grant Road, Harris County, Houston (see figure 1). Forty-nine 55-gallon drums are located to the north of an east-west barbed-wire fence. Another eleven drums are scattered through underbrush to the north (see figure 2). Most of the drums are upright, and some are still on pallets. Most are so badly rusted that the labels are illegible, but some are clearly marked "Anhydrous Aluminum Chloride". None of the drums appeared to be leaking, but the corrosion is threatening their physical integrity. There is little evidence of human traffic around the drums, although what appears to be a child's fort is located about 300 feet to the south.

A strip mall is located about 200 feet to the east of the drums and a child daycare center is located one quarter mile to the southeast. Access to the drums is not restricted in any fashion.

The site is not on the NPL and has not recieved a HRS score. The site will probably not score high enough to be placed on the NPL.

B. Incident Characteristics:

The Emergency Response Branch learned of the site on June 25, 1987 through a citizen complaint from an employee of the Warner Cable Company hub station. Several of the drums were reportedly labeled "anhydrous aluminum chloride", which is a compound that can react explosively with water. The TAT performed a preliminary assessment on the same date and confirmed the presence of the drums. The Texas Water Commission (TWC) was contacted on June 26. TWC revealed that they had performed an investigation of the site in mid-May, but had only found about ten drums that appeared to contain waste paint sludges.

Because of the inconsistency in the investigation findings, a meeting involving the OSC, TAT, and the TWC representative was conducted on-site on June 29. A site tour revealed two different drum disposal sites, obscured from each other by dense underbrush. The drums appeared to have been in place for five to ten years. Due to the age of the drums that were open, it appeared unlikely that any of the drums contained the highly corrosive and reactive compound, anhydrous aluminum chloride.

The TWC representative had already been in coordination with the property owners, The Raymond R. Betz Company, and received verbal assurance that they would begin soliciting bids from qualified disposal companies.

C. Quantity and Types of Substances Present.

During the site visit of June 29, 1987, and an additional sampling mission performed on September 22, 1987, TAT sampled four of the sixty drums and collected soil samples around some of the more badly corroded drums. These were analyzed by the EPA Houston Laboratory.

None of the soil samples contained hazardous substances. The drums contained three different physical phases; liquids, sludges and solids. Analytical results for each of these phases are presented in the following table.

Hazardous Substance	Matrix	Concentration
o-Xylene	water	1,120 to 13,000 ug/1
	sludge	33,400,000 ug/kg
m-Xylene and/or p-Xylene	water	2,250 to 27,300 ug/1
	sludge	92,000,000 ug/kg
Ethyl benzene	water	46.4 ug/1
	sludge	22,300,000 ug/kg
Toluene	sludge	1,350,000 ug/kg
Trichloroethene	sludge	6,100,000 ug/kg
Lead	solid	4,616 mg/kg
	sludge	7,591 mg/kg
Chromium	solid	8,678 mg/kg
	sludge	5,033 mg/kg

D. State and Local Authorities Roles.

The Texas Water Commission performed the initial site investigation in mid-may, 1987. TWC coordinated with the landowner and informed them of their obligations under Superfund for site cleanup.

The Texas Water Commission and the Harris County pollution control department could not commit funds for the cleanup due to higher priorities at other sites.

E. Other Actions to Date.

No actions have been undertaken by private parties or public agencies abate the health threat at the site.

III. THREAT TO PUBLIC HEALTH OR WELFARE OF THE ENVIRONMENT

A. Threats to Public Health and Welfare:

The principle threat posed by the site is the potential for direct contact with hazardous chemicals in the drums. Xylene, toluene, ethylbenzene, and trichloroethene all cause central nervous system depression, skin defatting, and liver damage, and trichloroethene is a probable carcinogen. Lead and chromium are both nephrotoxic. Lead can cause permanent brain damage and chromium has a high pulmonary toxicity and has been implicated as a human carcinogen.

The drums are badly corroded, precariously stacked, and exposed to the continuing effects of weather. None of the open drums sampled contained volatile organic compounds in concentrations sufficient to pose a significant threat of fire or explosion. However, since the concentrations of volatile organic compounds in the unopened drums are unknown, this threat cannot be discounted.

Access to the site is currently unrestricted, and there are several local human activity centers that could be affected in the event of a catastrophic release. The site is located approximately 200 feet from a strip mall to the northeast, two-tenths of a mile from residences, churches, and a daycare center, and four-tenths of a mile to the west of Cypress Creek High School.

B. Threats to the Environment.

The site is approximately two miles from Green Bayou, which is a tributary to Buffalo Bayou and Galveston Bay to the south. These aquatic ecosystems would be threatened in the event of a catastrophic release and a rainfall runoff period. Such a release would also contaminate large quantities of soil and threaten the local terrestrial ecosystems.

IV. ENFORCEMENT

See attachment 1.

V. PROPOSED ACTIONS AND COSTS

The proposed action at this site consists of staging and sampling of the drums, followed by disposal, by methods appropriate for the materials present. If all drums are found to contain the known materials present, the preferred disposal method would be incineration. Any analysis of alternate disposal methods, will include considerations of cost effectiveness and consistency with CERCLA waste disposal polities. Any visibly stained soils encountered during the removal will be excavated, replaced with clean soil, and regraded to the natural topographic contours.

The proposed action will permanently mitigate the threat posed by the potential for direct human contact with hazardous substances at the Grant Road Drum Site. The proposed action therefore constitutes the entire remedial action for the site.

B. Summary of Costs:

Since the contents of all drums are not known, the disposal costs estimates were based on incineration. This estimate represents the worst case scenario with respect to disposal cost, and should cover all expenses associated with any other appropriate disposal methods.

EXTRAMURAL COSTS

ERCS Cleanup Contractor	$120,000
TAT Costs	14,000
CLP Costs	0
ERT Contract	0
IAG's	0
Subtotal Extramural Direct Costs	$134,000
15% Contingency of Above Costs	20,100
Total Extramural Costs	$154,100

INTRAMURAL COSTS

Intramural Direct Costs	$9,000
Intramural Indirect Costs	18,000
Total Removal Project Ceiling	$181,100

VI. EXPECTED CHANGE IN THE SITUATION SHOULD NO ACTION BE TAKEN OR ACTION BE DELAYED

The drums will continue to corrode due to the effects of weathering and potential corrosive characteristics of the contained waste materials. The wooden pallets on which the drums are stacked will also deteriorate, which could cause some of the drums to fall. Both of these outcomes greatly increase the potential for a significant release of hazardous materials, and also increase the probability of direct human exposure and environmental contamination.

VII. RECOMMENDATION

Because conditions at the site meet the NCP section 300.65 (b) (2) criteria for a removal, I recommend your approval of the proposed removal action. The estimated total project costs are $181,100, of which $120,000 are for extramural cleanup contractor costs. Please indicate your approval or disapproval by signing below.

APPROVED: Robert E. Taylor Jr. DATE: 8/12/88

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DISSAPPROVED: _____ DATE: _____

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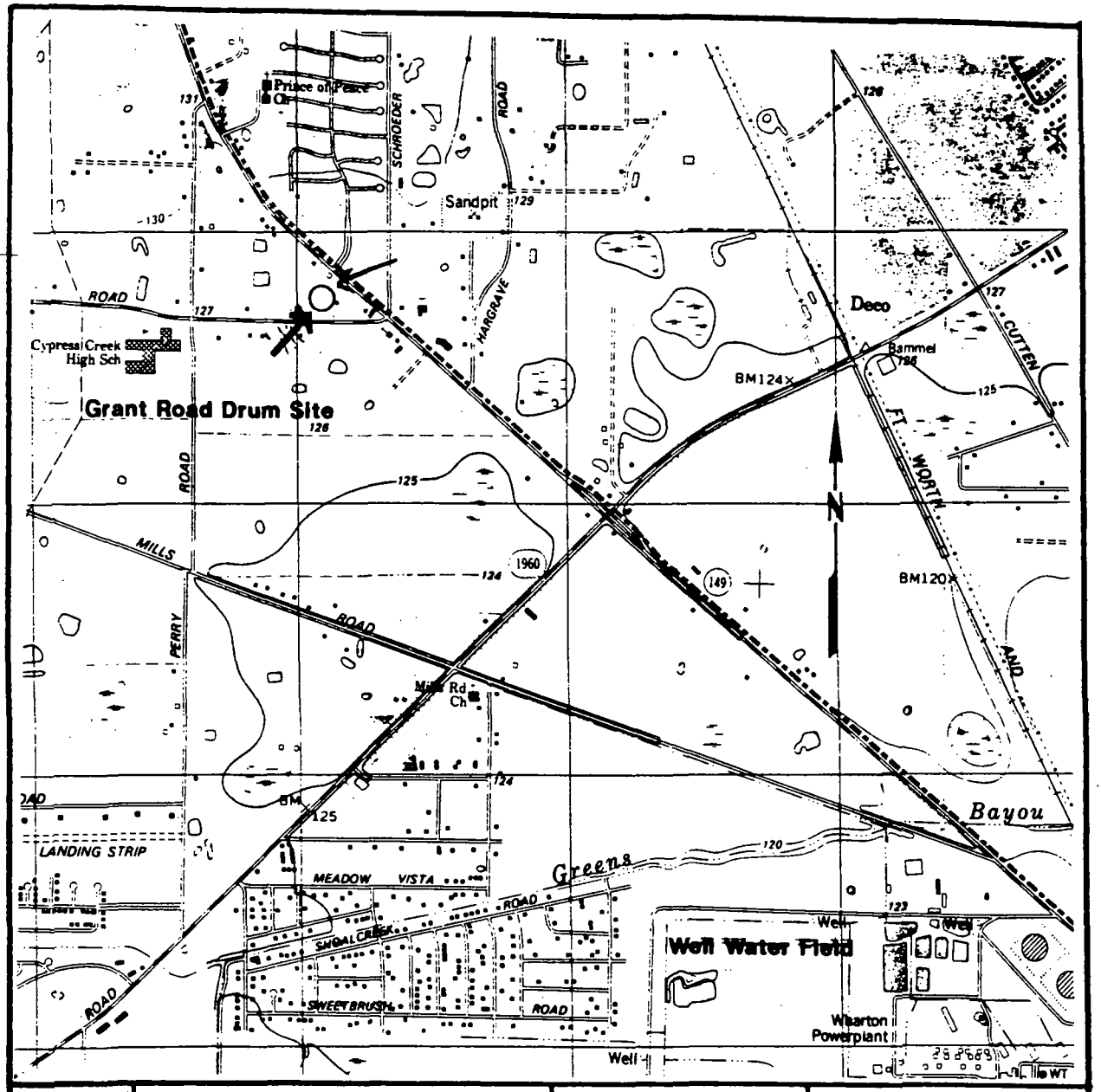

	Ecology and Environment, Inc. Technical Assistance Team RegionVI	TXD982305195	TDD No: T06-8709-17
		PAN: TTX0587SAC	Date: 10/23/87
		Originator: Robert Marguccio	

Grant Road Drum Site

Satsuma Quadrangle

Texas-Harris Co.

7.5 Minute Series (Topographic)

FIGURE 1

SCALE 1:24000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

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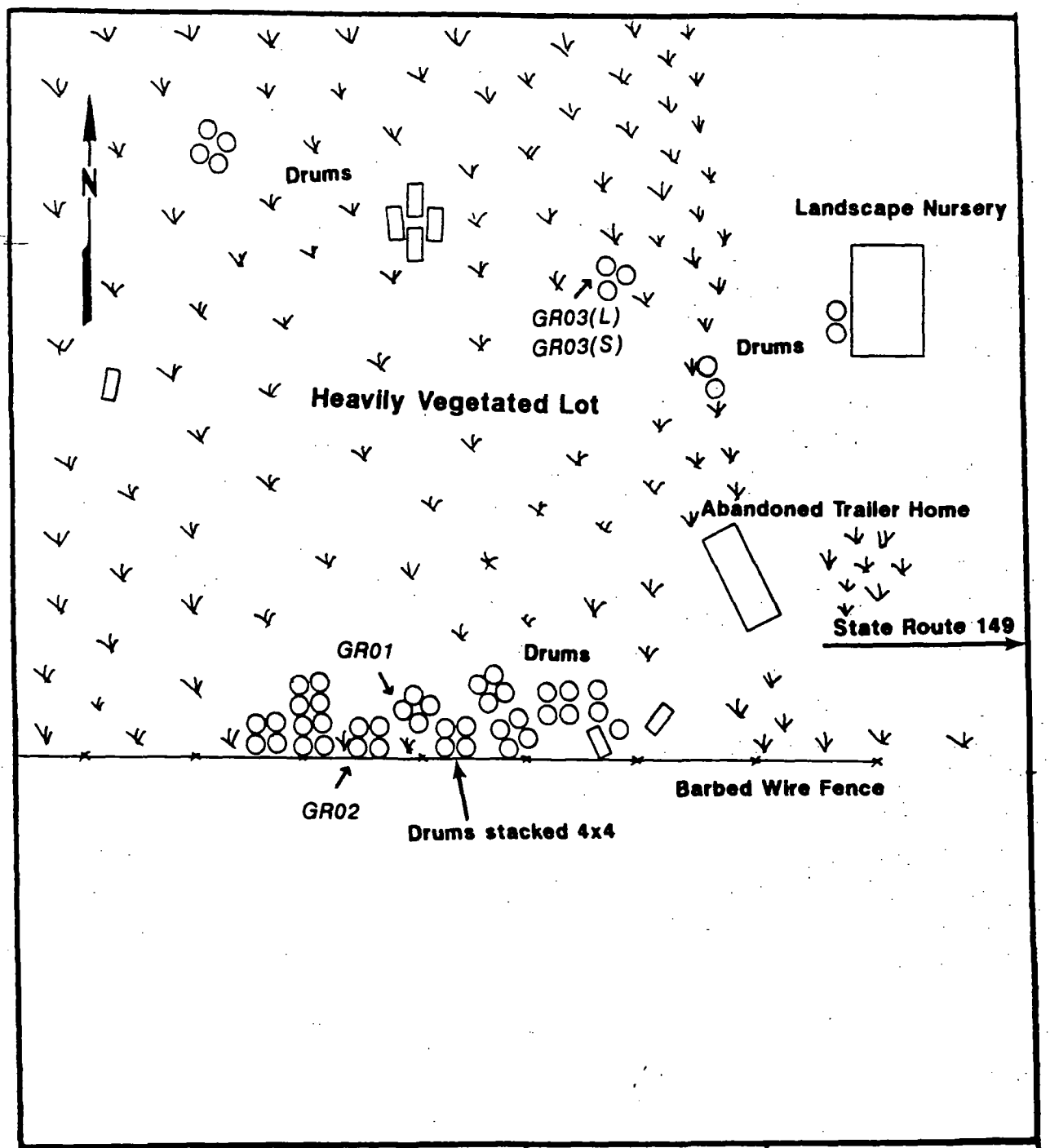

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		PAN: TTX0587SAC	Date: 10/23/87
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Grant Road Drum Site
Site Sketch and Sample Location Map
Houston, Harris County, Texas
(Not to Scale)

FIGURE 2.

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