UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

7-

September 19, 1984

US EPA RECORDS CENTER REGION 5
497626

MEMORANDUM

SUBJECT: U.S. Drum Site, Chicago, IL

FROM: George R. Prince, Environmental Scientist
Environmental Impact Section, ERB

TO: George Madany, On-Scene Coordinator
EPA, Region V

I have enclosed a complete set of data from our drum sampling efforts at the U.S. Drum Site. Below is a summary of salient characteristics of the nine drum samples taken from locations shown on the enclosed sketch map of the site (Figure 1). Sample 01559 was taken from the GPF facility in Milwaukee, WI.

01395 - ERT #6, Green liquid, EP Toxic for Cr (10 mg/l) and Pb (12 mg/l), Toluene (80 mg/kg), Trichloroethylene (1.1 mg/kg), Corrosive (pH = 1.28).

01397 - ERT #8, Clear liquid, Chlorobenzene (20 mg/kg), Ethylbenzene (38 mg/kg), Methylene Chloride (2860 mg/kg)m Toluene (15 mg/kg), Trichloroethylene (300,000 mg/kg), Styrene (5.1 mg/kg), ignitable waste (Flash Point = 95°F).

01398 - ERT #9, Black/brown liquid, 1,3-Dichloropropylene (3.4 mg/kg), trichloroethylene (83 mg/kg), pH = 10.65.

01399 - ERT #10, 2 Phase amber liquid, Tetrachloroethylene (10 mg/kg), Toluene (3.8 mg/kg), o-xylene (1.1 mg/kg).

01471 - ERT #1, Brown oily liquid, EP Toxic for lead (9.1 mg/l), benzene (7.7 mg/kg), ethylbenzene (17 mg/kg), Toluene (310,000 mg/kg), 1,1,1-Trichloroethane (1.5 mg/kg), trichloroethylene (8.8 mg/kg), o-xylene (17 mg/kg), styrene (1.5 mg/kg), bis(2-ethyl hexyl)phthalate (630 mg/kg), naphthalene (250 mg/kg), ignitable waste (Flash Point = 95°F).

01472 - ERT #2, Viscous amber liquid, methylene chloride (4.5 mg/kg), Toluene (130 mg/kg).

ERB:GRPrince:mb:X6649:9/19/84 CONCURRENCES

SYMBOL	ERB							
SURNAME	GRPrince							
DATE								

01473 - ERT #3, 2 Phase brown liquid, trans-1,2-dichloroethylene (1.2 mg/kg), o-xylene (1.1 mg/kg).

01474 - ERT #5, 2 Phase black/milky liquid, lead (190 mg/kg), EP Toxic lead for (150 mg/l), methylene chloride (31 mg/kg), toluene (5.5 mg/kg), corrosive (pH = 12.8).

01475 - ERT #4, Black oily liquid, zinc (890 mg/kg), EP Toxic for lead (8.0 mgk/l), chlorobenzene (1.2 mg/kg), ethylbenzene (1.9 mg/kg), 1,1,2,2-tetrachloroethane (3.1 mg/kg), toluene (3.1 mg/kg), o-xylene (3.4 mg/kg), phenanthrene (46 mg/kg), 2-methylnaphthalene (100 mg/kg), Endrin (2.3 mg/kg).

George, a point of interest is that the total metals summary indicates the presence of many more heavy metals at fairly high concentrations (>100 ppm), which did not show up in the EP Toxicity tests. You may want to factor this information in your assessment of the problem you have at U.S. Drum.

If we can be of further assistance, please do not hesitate to call me on FTS 340-6649 or Royal Nadeau (FTS 340-6743).

Enclosures

TABLE 1

TOTAL METALS SUMMARY
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

PARAMETER	UNITS[1]	SAMPLE IDENTIFICATION 01395	01397	01398	01399	01471
Antimony	mg/kg	0.21	0.11	0.47	0.09	0.06
Arsenic	mg/kg	0.92	<0.02	0.16	0.13	0.13
Beryllium	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium	mg/kg	0.18	<0.02	3.00	0.04	0.25
Chromium	mg/kg	200	0.57	1.8	1.1	1.3
Copper	mg/kg	260	0.85	100	1.4	16
Lead	mg/kg	26	0.90	<0.25	0.40	2.9
Mercury	mg/kg	0.65	0.50	0.42	<0.10	0.20
Nickel	mg/kg	29	5.4	38	5.1	2.3
Selenium	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	mg/kg	0.44	0.08	0.27	10	0.20
Thallium	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	mg/kg	90	3.2	100	6.5	9.2

TABLE 1
(Continued)

PARAMETER	UNITS[1]	SAMPLE IDENTIFICATION 01472	01473	01474	01475	01559
Antimony	mg/kg	<0.02	0.04	<0.02	0.16	<0.02
Arsenic	mg/kg	0.76	0.13	0.16	0.11	0.08
Beryllium	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Cadmium	mg/kg	0.07	0.16	0.18	1.6	0.55
Chromium	mg/kg	2.0	0.79	3.0	3.9	1.1
Copper	mg/kg	3.4	3.4	8.7	68	11
Lead	mg/kg	1.9	<0.25	190	23	230
Mercury	mg/kg	0.14	0.11	<0.10	<0.10	<0.10
Nickel	mg/kg	6.2	6.7	4.1	0.75	<0.25
Selenium	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	mg/kg	33	0.08	0.20	0.30	0.13
Thallium	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	mg/kg	6.7	50	15	890	68

[1] mg/kg = milligrams per kilogram or parts per million.

TABLE 2

EP TOXICITY METALS SUMMARY
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

		SAMPLE IDENTIFICATION				
PARAMETER	UNITS[1]	01395	01397	01398	01399	01471
Arsenic	mg/ℓ	0.11	<0.01	0.02	<0.01	<0.01
Barium	mg/ℓ	0.18	0.09	<0.01	<0.01	<0.01
Cadmium	mg/ℓ	0.007	<0.001	0.006	<0.001	0.014
Chromium	mg/ℓ	10	<0.001	0.09	<0.001	0.43
Lead	mg/ℓ	12	0.12	0.04	0.06	9.1
Mercury	mg/ℓ	0.0014	0.0003	0.0048	<0.002	0.0006
Selenium	mg/ℓ	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	mg/ℓ	0.007	<0.001	0.007/0.005[2]	<0.001	<0.001

TABLE 2
(Continued)

PARAMETER	UNITS[1]	SAMPLE IDENTIFICATION 01472	01473	01474	01475	01559
Arsenic	mg/ℓ	<0.01	<0.01	<0.01	<0.01	<0.01
Barium	mg/ℓ	<0.01	2.56	0.07	0.24	7.51
Cadmium	mg/ℓ	<0.001	0.002	0.005	0.003	0.015
Chromium	mg/ℓ	0.011	0.001	<0.001	<0.001	0.002
Lead	mg/ℓ	0.52	0.11	150	8.0	58
Mercury	mg/ℓ	0.0002	<0.0002	<0.0002	0.0002	<0.0002
Selenium	mg/ℓ	<0.001	<0.001	0.001	<0.001	0.001
Silver	mg/ℓ	0.001	0.001	<0.001	0.001	<0.001

(1) mg/ℓ = milligrams per liter or parts per million.

(2) The sample was analyzed in duplicate.

TABLE 3

SUMMARY OF VOLATILE PRIORITY POLLUTANT RESULTS
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION 01395	01397	01398
		Concentration mg/kg(2)		
Acrolein	107-02-8	<10	<10	<10
Acrylonitrile	107-13-1	<10	<10	<10
Benzene	71-43-2	<1.0	<1.0	<1.0
Bromoform	75-25-2	<1.0	<1.0	<1.0
Carbon Tetrachloride	56-23-5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	<1.0	20	<1.0
Chlorodibromomethane	124-48-1	<1.0	<1.0	<1.0
Chloroethane	75-00-3	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75-35-4	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	<1.0	<1.0	<1.0
1,3-Dichloropropylene	542-75-6	<1.0	<1.0	3.4
Ethylbenzene	100-41-4	<1.0	38	<1.0
Methyl bromide	74-83-9	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10
Methylene chloride	75-09-2	<1.0	2800	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	80	15	<1.0
trans-1,2-Dichloroethylene	156-60-5	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	1.1	300,000	83
Trichlorofluoromethane	75-69-4	<1.0	<1.0	<1.0
Vinyl Chloride	75-01-4	<10	<10	<10

TABLE 3
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION 01399	01471	01472
		Concentration mg/kg(2)		
Acrolein	107-02-8	<10	<10	<10
Acrylonitrile	107-13-1	<10	<10	<10
Benzene	71-43-2	<1.0	7.7	<1.0
Bromoform	75-25-2	<1.0	<1.0	<1.0
Carbon Tetrachloride	56-23-5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	<1.0	<1.0	<1.0
Chloroethane	75-00-3	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75-35-4	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	<1.0	<1.0	<1.0
1,3-Dichloropropylene	542-75-6	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	17	<1.0
Methyl bromide	74-83-9	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10
Methylene chloride	75-09-2	<1.0	<1.0	4.5
1,1,2,2-Tetrachloroethane	79-34-5	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	10	<1.0	<1.0
Toluene	108-88-3	3.8	310,000	130
trans-1,2-Dichloroethylene	156-60-5	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	<1.0	15	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	<1.0	8.8	<1.0
Trichlorofluoromethane	75-69-4	<1.0	<1.0	<1.0
Vinyl Chloride	75-01-4	<10	<10	<10

TABLE 3
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION 01473	01474	01475
		Concentration mg/kg(2)		
Acrolein	107-02-8	<10	<10	<10
Acrylonitrile	107-13-1	<10	<10	<10
Benzene	71-43-2	<1.0	<1.0	<1.0
Bromoform	75-25-2	<1.0	<1.0	<1.0
Carbon Tetrachloride	56-23-5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	<1.0	<1.0	1.2
Chlorodibromomethane	124-48-1	<1.0	<1.0	<1.0
Chloroethane	75-00-3	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75-35-4	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	<1.0	<1.0	<1.0
1,3-Dichloropropylene	542-75-6	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	1.9
Methyl bromide	74-83-9	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10
Methylene chloride	75-09-2	<1.0	31	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	<1.0	<1.0	3.1
Tetrachloroethylene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	5.5	3.1
trans-1,2-Dichloroethylene	156-60-5	1.2	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	<1.0	<1.0	<1.0
Trichlorofluoromethane	75-69-4	<1.0	<1.0	<1.0
Vinyl Chloride	75-01-4	<10	<10	<10

TABLE 3
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01559 Concentration mg/kg[2]
Acrolein	107-02-8	<10
Acrylonitrile	107-13-1	<10
Benzene	71-43-2	3.4
Bromoform	75-25-2	<1.0
Carbon Tetrachloride	56-23-5	<1.0
Chlorobenzene	108-90-7	<1.0
Chlorodibromomethane	124-48-1	<1.0
Chloroethane	75-00-3	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0
Chloroform	67-66-3	<1.0
Dichlorobromomethane	75-27-4	<1.0
Dichlorodifluoromethane	75-71-8	<1.0
1,1-Dichloroethane	75-34-3	<1.0
1,2-Dichloroethane	107-06-2	<1.0
1,1-Dichloroethylene	75-35-4	<1.0
1,2-Dichloropropane	78-87-5	<1.0
1,3-Dichloropropylene	542-75-6	<1.0
Ethylbenzene	100-41-4	1.5
Methyl bromide	74-83-9	<10
Methyl chloride	74-87-3	<10
Methylene chloride	75-09-2	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	<1.0
Tetrachloroethylene	127-18-4	<1.0
Toluene	108-88-3	22
trans-1,2-Dichloroethylene	156-60-5	<1.0
1,1,1-Trichloroethane	71-55-6	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0
Trichloroethylene	79-01-6	<1.0
Trichlorofluoromethane	75-69-4	<1.0
Vinyl Chloride	75-01-4	<10

TABLE 3 FOOTNOTES

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) mg/kg = milligrams per kilogram or parts per million.

TABLE 4

WATER ANALYSIS SUMMARY
OF VOLATILE NON-PRIORITY POLLUTANT COMPOUNDS
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

PARAMETERS	CAS NUMBER(1)	UNITS(2)	SAMPLE IDENTIFICATION 01395	01397	01398
Acetone	67-64-1	mg/kg	<1.0	<1.0	<1.0
2-Butanone	78-93-3	mg/kg	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	mg/kg	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	mg/kg	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	108-10-1	mg/kg	<1.0	<1.0	<1.0
Styrene	100-42-5	mg/kg	<1.0	5.1	<1.0
Vinyl acetate	108-05-4	mg/kg	<1.0	<1.0	<1.0
o-Xylene	95-47-6	mg/kg	<1.0	<1.0	<1.0

TABLE 4
(Continued)

PARAMETERS	CAS NUMBER(1)	UNITS(2)	SAMPLE IDENTIFICATION 01399	01471	01472
Acetone	67-64-1	mg/kg	<1.0	<1.0	<1.0
2-Butanone	78-93-3	mg/kg	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	mg/kg	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	mg/kg	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	108-10-1	mg/kg	<1.0	<1.0	<1.0
Styrene	100-42-5	mg/kg	<1.0	1.5	<1.0
Vinyl acetate	108-05-4	mg/kg	<1.0	<1.0	<1.0
o-Xylene	95-47-6	mg/kg	1.1	17	<1.0

TABLE 4
(Continued)

PARAMETERS	CAS NUMBER(1)	UNITS(2)	SAMPLE IDENTIFICATION 01473	01474	01475
Acetone	67-64-1	mg/kg	<1.0	<1.0	<1.0
2-Butanone	78-93-3	mg/kg	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	mg/kg	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	mg/kg	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	108-10-1	mg/kg	<1.0	<1.0	<1.0
Styrene	100-42-5	mg/kg	<1.0	<1.0	<1.0
Vinyl acetate	108-05-4	mg/kg	<1.0	<1.0	<1.0
o-Xylene	95-47-6	mg/kg	1.1	<1.0	3.4

TABLE 5

SURROGATE STANDARD PERCENT RECOVERY
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

SAMPLE IDENTIFICATION	4-BROMOFLUOROBENZENE	1,2-DICHLOROETHANE-d_4	TOLUENE-d_8
01395	131%	96.6%	104%
01397	128%	80.7%	85.6%
01398	(1)	95.4%	93.8%
01399	93.8%	88.0%	86.8%
01471	124%	98.7%	102%
01472	110%	89.2%	90.6%
01473	105%	86.0%	83.5%
01474	112%	89.0%	92.6%
01475	91.7%	81.2%	72.2%
01559	(1)	124%	114%

(1) Surrogate percent recovery was not determined for the indicated sample.

TABLE 4
(Continued)

PARAMETERS	CAS NUMBER[1]	UNITS[2]	SAMPLE IDENTIFICATION 01559
Acetone	67-64-1	mg/kg	<1.0
2-Butanone	78-93-3	mg/kg	<1.0
Carbon disulfide	75-15-0	mg/kg	<1.0
2-Hexanone	591-78-6	mg/kg	<1.0
4-Methyl-2-pentanone	108-10-1	mg/kg	<1.0
Styrene	100-42-5	mg/kg	<1.0
Vinyl acetate	108-05-4	mg/kg	<1.0
o-Xylene	95-47-6	mg/kg	5.8

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) mg/kg = milligrams per kilogram or parts per million.

TABLE 6

SUMMARY OF BASE-NEUTRAL EXTRACTABLE
PRIORITY POLLUTANT RESULTS
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8016

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01395	01397	01398
		Concentration mg/kg[2]		
Acenaphthene	83-32-9	<1.0	<1000	<1.0
Acenaphthylene	208-96-8	<1.0	<1000	<1.0
Anthracene	120-12-7	<1.0	<1000	<1.0
Benzidine	92-87-5	<1.0	<1000	<1.0
Benzo(a)anthracene	56-55-3	<1.0	<1000	<1.0
Benzo(a)pyrene	50-32-8	<1.0	<1000	<1.0
3,4-Benzofluoranthene	205-99-2	<1.0	<1000	<1.0
Benzo(g,h,i)perylene	191-24-2	<1.0	<1000	<1.0
Benzo(k)fluoranthene	207-08-9	<1.0	<1000	<1.0
Bis(2-chloroethoxy)methane	111-91-1	<1.0	<1000	<1.0
Bis(2-chloroethyl)ether	111-44-4	<1.0	<1000	<1.0
Bis(2-chloroisopropyl)ether	39638-32-9	<1.0	<1000	<1.0
Bis(chloromethyl)ether[3]	542-88-1	<1.0	<1000	<1.0
Bis(2-ethylhexyl)phthalate	117-81-7	<1.0	<1000	<1.0
4-Bromophenyl phenyl ether	101-55-3	<1.0	<1000	<1.0
Butyl benzyl phthalate	85-68-7	<1.0	<1000	<1.0
2-Chloronaphthalene	91-58-7	<1.0	<1000	<1.0
4-Chlorophenyl phenyl ether	7005-72-3	<1.0	<1000	<1.0
Chrysene	218-01-9	<1.0	<1000	<1.0
Dibenzo(a,h)anthracene	53-70-3	<1.0	<1000	<1.0
1,2-Dichlorobenzene	95-50-1	<1.0	<1000	<1.0
1,3-Dichlorobenzene	541-73-1	<1.0	<1000	<1.0
1,4-Dichlorobenzene	106-46-7	<1.0	<1000	<1.0
3,3'-Dichlorobenzidine	91-94-1	<1.0	<1000	<1.0

TABLE 6
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01395	01397	01398
		Concentration mg/kg[2]		
Diethyl phthalate	84-66-2	<1.0	<1000	<1.0
Dimethyl phthalate	131-11-3	<1.0	<1000	<1.0
Di-n-butyl phthalate	84-74-2	<1.0	<1000	<1.0
2,4-Dinitrotoluene	121-14-2	<1.0	<1000	<1.0
2,6-Dinitrotoluene	606-20-2	<1.0	<1000	<1.0
Di-n-octyl phthalate	117-84-0	<1.0	<1000	<1.0
1,2-Diphenylhydrazine (Azobenzene)[4]	122-66-7	<1.0	<1000	<1.0
Fluoranthene	206-44-0	<1.0	<1000	<1.0
Fluorene	86-73-7	<1.0	<1000	<1.0
Hexachlorobenzene	118-71-1	<1.0	<1000	<1.0
Hexachlorobutadiene	87-68-3	<1.0	<1000	<1.0
Hexachlorocyclopentadiene	77-47-4	<1.0	<1000	<1.0
Hexachloroethane	67-72-1	<1.0	<1000	<1.0
Indeno(1,2,3-cd)pyrene	193-39-5	<1.0	<1000	<1.0
Isophorone	78-59-1	<1.0	<1000	<1.0
Naphthalene	91-20-3	<1.0	<1000	<1.0
Nitrobenzene	98-95-3	<1.0	<1000	<1.0
N-Nitrosodimethylamine	62-75-9	<1.0	<1000	<1.0
N-Nitrosodi-n-propylamine	621-64-7	<1.0	<1000	<1.0
N-Nitrosodiphenylamine (Diphenylamine)[4]	86-30-6	<1.0	<1000	<1.0
Phenanthrene	85-01-8	<1.0	<1000	<1.0
Pyrene	129-00-0	<1.0	<1000	<1.0
1,2,4-Trichlorobenzene	120-82-1	<1.0	<1000	<1.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1764-01-6	<1.0	<1000	<1.0

TABLE 6
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01399	01471	01472
		Concentration mg/kg[2]		
Acenaphthene	83-32-9	<200	<200	<200
Acenaphthylene	208-96-8	<200	<200	<200
Anthracene	120-12-7	<200	<200	<200
Benzidine	92-87-5	<200	<200	<200
Benzo(a)anthracene	56-55-3	<200	<200	<200
Benzo(a)pyrene	50-32-8	<200	<200	<200
3,4-Benzofluoranthene	205-99-2	<200	<200	<200
Benzo(g,h,i)perylene	191-24-2	<200	<200	<200
Benzo(k)fluoranthene	207-08-9	<200	<200	<200
Bis(2-chloroethoxy)methane	111-91-1	<200	<200	<200
Bis(2-chloroethyl)ether	111-44-4	<200	<200	<200
Bis(2-chloroisopropyl)ether	39638-32-9	<200	<200	<200
Bis(chloromethyl)ether[3]	542-88-1	<200	<200	<200
Bis(2-ethylhexyl)phthalate	117-81-7	<200	630	<200
4-Bromophenyl phenyl ether	101-55-3	<200	<200	<200
Butyl benzyl phthalate	85-68-7	<200	<200	<200
2-Chloronaphthalene	91-58-7	<200	<200	<200
4-Chlorophenyl phenyl ether	7005-72-3	<200	<200	<200
Chrysene	218-01-9	<200	<200	<200
Dibenzo(a,h)anthracene	53-70-3	<200	<200	<200
1,2-Dichlorobenzene	95-50-1	<200	<200	<200
1,3-Dichlorobenzene	541-73-1	<200	<200	<200
1,4-Dichlorobenzene	106-46-7	<200	<200	<200
3,3'-Dichlorobenzidine	91-94-1	<200	<200	<200

TABLE 6
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01399	01471	01472
		Concentration mg/kg[2]		
Diethyl phthalate	84-66-2	<200	<200	<200
Dimethyl phthalate	131-11-3	<200	<200	<200
Di-n-butyl phthalate	84-74-2	<200	<200	<200
2,4-Dinitrotoluene	121-14-2	<200	<200	<200
2,6-Dinitrotoluene	606-20-2	<200	<200	<200
Di-n-octyl phthalate	117-84-0	<200	<200	<200
1,2-Diphenylhydrazine (Azobenzene)[4]	122-66-7	<200	<200	<200
Fluoranthene	206-44-0	<200	<200	<200
Fluorene	86-73-7	<200	<200	<200
Hexachlorobenzene	118-71-1	<200	<200	<200
Hexachlorobutadiene	87-68-3	<200	<200	<200
Hexachlorocyclopentadiene	77-47-4	<200	<200	<200
Hexachloroethane	67-72-1	<200	<200	<200
Indeno(1,2,3-cd)pyrene	193-39-5	<200	<200	<200
Isophorone	78-59-1	<200	<200	<200
Naphthalene	91-20-3	<200	250	<200
Nitrobenzene	98-95-3	<200	<200	<200
N-Nitrosodimethylamine	62-75-9	<200	<200	<200
N-Nitrosodi-n-propylamine	621-64-7	<200	<200	<200
N-Nitrosodiphenylamine (Diphenylamine)[4]	86-30-6	<200	<200	<200
Phenanthrene	85-01-8	350	<200	<200
Pyrene	129-00-0	<200	<200	<200
1,2,4-Trichlorobenzene	120-82-1	<200	<200	<200
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1764-01-6	<200	<200	<200

TABLE 6
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01473	01474	01475
		Concentration mg/kg[2]		
Acenaphthene	83-32-9	<20	<200	<40
Acenaphthylene	208-96-8	<20	<200	<40
Anthracene	120-12-7	<20	<200	<40
Benzidine	92-87-5	<20	<200	<40
Benzo(a)anthracene	56-55-3	<20	<200	<40
Benzo(a)pyrene	50-32-8	<20	<200	<40
3,4-Benzofluoranthene	205-99-2	<20	<200	<40
Benzo(g,h,i)perylene	191-24-2	<20	<200	<40
Benzo(k)fluoranthene	207-08-9	<20	<200	<40
Bis(2-chloroethoxy)methane	111-91-1	<20	<200	<40
Bis(2-chloroethyl)ether	111-44-4	<20	<200	<40
Bis(2-chloroisopropyl)ether	39638-32-9	<20	<200	<40
Bis(chloromethyl)ether[3]	542-88-1	<20	<200	<40
Bis(2-ethylhexyl)phthalate	117-81-7	<20	<200	<40
4-Bromophenyl phenyl ether	101-55-3	<20	<200	<40
Butyl benzyl phthalate	85-68-7	<20	<200	<40
2-Chloronaphthalene	91-58-7	<20	<200	<40
4-Chlorophenyl phenyl ether	7005-72-3	<20	<200	<40
Chrysene	218-01-9	<20	<200	<40
Dibenzo(a,h)anthracene	53-70-3	<20	<200	<40
1,2-Dichlorobenzene	95-50-1	<20	<200	<40
1,3-Dichlorobenzene	541-73-1	<20	<200	<40
1,4-Dichlorobenzene	106-46-7	<20	<200	<40
3,3'-Dichlorobenzidine	91-94-1	<20	<200	<40

TABLE 6
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01473	01474	01475
		Concentration mg/kg[2]		
Diethyl phthalate	84-66-2	<20	<200	<40
Dimethyl phthalate	131-11-3	<20	<200	<40
Di-n-butyl phthalate	84-74-2	<20	<200	<40
2,4-Dinitrotoluene	121-14-2	<20	<200	<40
2,6-Dinitrotoluene	606-20-2	<20	<200	<40
Di-n-octyl phthalate	117-84-0	<20	<200	<40
1,2-Diphenylhydrazine (Azobenzene)[4]	122-66-7	<20	<200	<40
Fluoranthene	206-44-0	<20	<200	<40
Fluorene	86-73-7	<20	<200	<40
Hexachlorobenzene	118-71-1	<20	<200	<40
Hexachlorobutadiene	87-68-3	<20	<200	<40
Hexachlorocyclopentadiene	77-47-4	<20	<200	<40
Hexachloroethane	67-72-1	<20	<200	<40
Indeno(1,2,3-cd)pyrene	193-39-5	<20	<200	<40
Isophorone	78-59-1	<20	<200	<40
Naphthalene	91-20-3	<20	<200	<40
Nitrobenzene	98-95-3	<20	<200	<40
N-Nitrosodimethylamine	62-75-9	<20	<200	<40
N-Nitrosodi-n-propylamine	621-64-7	<20	<200	<40
N-Nitrosodiphenylamine (Diphenylamine)[4]	86-30-6	<20	<200	<40
Phenanthrene	85-01-8	<20	<200	46
Pyrene	129-00-0	<20	<200	<40
1,2,4-Trichlorobenzene	120-82-1	<20	<200	<40
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1764-01-6	<20	<200	<40

TABLE 6
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01559 Concentration mg/kg[2]
Acenaphthene	83-32-9	<200
Acenaphthylene	208-96-8	<200
Anthracene	120-12-7	<200
Benzidine	92-87-5	<200
Benzo(a)anthracene	56-55-3	<200
Benzo(a)pyrene	50-32-8	<200
3,4-Benzofluoranthene	205-99-2	<200
Benzo(g,h,i)perylene	191-24-2	<200
Benzo(k)fluoranthene	207-08-9	<200
Bis(2-chloroethoxy)methane	111-91-1	<200
Bis(2-chloroethyl)ether	111-44-4	<200
Bis(2-chloroisopropyl)ether	39638-32-9	<200
Bis(chloromethyl)ether[3]	542-88-1	<200
Bis(2-ethylhexyl)phthalate	117-81-7	<200
4-Bromophenyl phenyl ether	101-55-3	<200
Butyl benzyl phthalate	85-68-7	<200
2-Chloronaphthalene	91-58-7	<200
4-Chlorophenyl phenyl ether	7005-72-3	<200
Chrysene	218-01-9	<200
Dibenzo(a,h)anthracene	53-70-3	<200
1,2-Dichlorobenzene	95-50-1	<200
1,3-Dichlorobenzene	541-73-1	<200
1,4-Dichlorobenzene	106-46-7	<200
3,3'-Dichlorobenzidine	91-94-1	<200

TABLE 6 FOOTNOTES

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) mg/kg = milligrams per kilogram or parts per million.

(3) Decomposes rapidly in water.

(4) Detected as compound in parentheses.

TABLE 6
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01559 Concentration mg/kg[2]
Diethyl phthalate	84-66-2	<200
Dimethyl phthalate	131-11-3	<200
Di-n-butyl phthalate	84-74-2	<200
2,4-Dinitrotoluene	121-14-2	<200
2,6-Dinitrotoluene	606-20-2	<200
Di-n-octyl phthalate	117-84-0	<200
1,2-Diphenylhydrazine (Azobenzene)[4]	122-66-7	<200
Fluoranthene	206-44-0	<200
Fluorene	86-73-7	<200
Hexachlorobenzene	118-71-1	<200
Hexachlorobutadiene	87-68-3	<200
Hexachlorocyclopentadiene	77-47-4	<200
Hexachloroethane	67-72-1	<200
Indeno(1,2,3-cd)pyrene	193-39-5	<200
Isophorone	78-59-1	<200
Naphthalene	91-20-3	<200
Nitrobenzene	98-95-3	<200
N-Nitrosodimethylamine	62-75-9	<200
N-Nitrosodi-n-propylamine	621-64-7	<200
N-Nitrosodiphenylamine (Diphenylamine)[4]	86-30-6	<200
Phenanthrene	85-01-8	<200
Pyrene	129-00-0	<200
1,2,4-Trichlorobenzene	120-82-1	<200
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1764-01-6	<200

TABLE 7

SUMMARY OF ACID EXTRACTABLE
PRIORITY POLLUTANT RESULTS
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION 01395	01397	01398	01399
		Concentration mg/kg(2)			
2-Chlorophenol	95-57-8	<1.0	<1000	<1.0	<200
2,4-Dichlorophenol	120-83-2	<1.0	<1000	<1.0	<200
2,4-Dimethylphenol	105-67-9	<1.0	<1000	<1.0	<200
4,6-Dinitro-o-cresol	534-52-1	<1.0	<1000	<1.0	<200
2,4-Dinitrophenol	51-28-5	<1.0	<1000	<1.0	<200
2-Nitrophenol	88-75-5	<1.0	<1000	<1.0	<200
4-Nitrophenol	100-02-7	<1.0	<1000	<1.0	<200
p-Chloro-m-cresol	59-50-7	<1.0	<1000	<1.0	<200
Pentachlorophenol	87-86-5	<1.0	<1000	<1.0	<200
Phenol	108-95-2	<1.0	<1000	<1.0	<200
2,4,6-Trichlorophenol	88-06-2	<1.0	<1000	<1.0	<200

TABLE 7
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01471	01472	01473	01474
		Concentration mg/kg[2]			
2-Chlorophenol	95-57-8	<200	<200	<20	<200
2,4-Dichlorophenol	120-83-2	<200	<200	<20	<200
2,4-Dimethylphenol	105-67-9	<200	<200	<20	<200
4,6-Dinitro-o-cresol	534-52-1	<200	<200	<20	<200
2,4-Dinitrophenol	51-28-5	<200	<200	<20	<200
2-Nitrophenol	88-75-5	<200	<200	<20	<200
4-Nitrophenol	100-02-7	<200	<200	<20	<200
p-Chloro-m-cresol	59-50-7	<200	<200	<20	<200
Pentachlorophenol	87-86-5	<200	<200	<20	<200
Phenol	108-95-2	<200	<200	<20	<200
2,4,6-Trichlorophenol	88-06-2	<200	<200	<20	<200

TABLE 7
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01475	01559
		Concentration mg/kg[2]	
2-Chlorophenol	95-57-8	<40	<200
2,4-Dichlorophenol	120-83-2	<40	<200
2,4-Dimethylphenol	105-67-9	<40	<200
4,6-Dinitro-o-cresol	534-52-1	<40	<200
2,4-Dinitrophenol	51-28-5	<40	<200
2-Nitrophenol	88-75-5	<40	<200
4-Nitrophenol	100-02-7	<40	<200
p-Chloro-m-cresol	59-50-7	<40	<200
Pentachlorophenol	87-86-5	<40	<200
Phenol	108-95-2	<40	<200
2,4,6-Trichlorophenol	88-06-2	<40	<200

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) mg/kg = milligrams per kilogram or parts per million.

TABLE 8

SUMMARY OF NON-PRIORITY POLLUTANT COMPOUND RESULTS
FOR IT CORPORATION-EERI/U.S. DRUM
PROJECT NO. 84-8019

PARAMETER	CAS NUMBER(1)	UNITS(2)	SAMPLE IDENTIFICATION			
			01395	01397	01398	01399
Aniline	62-53-3	mg/kg	<1.0	<1000	<1.0	<200
Benzoic Acid	65-85-0	mg/kg	<1.0	<1000	<1.0	<200
Benzyl Alcohol	100-51-6	mg/kg	<1.0	<1000	<1.0	<200
-Chloroaniline	106-47-8	mg/kg	<1.0	<1000	<1.0	<200
benzofuran	132-64-9	mg/kg	<1.0	<1000	<1.0	<200
2-Methylnaphthalene	91-57-6	mg/kg	<1.0	<1000	<1.0	<200
2-Methylphenol	95-48-7	mg/kg	<1.0	<1000	<1.0	<200
4-Methylphenol	106-44-5	mg/kg	<1.0	<1000	<1.0	<200
2-Nitroaniline	88-74-4	mg/kg	<1.0	<1000	<1.0	<200
3-Nitroaniline	99-09-2	mg/kg	<1.0	<1000	<1.0	<200
4-Nitroaniline	100-01-6	mg/kg	<1.0	<1000	<1.0	<200
2,4,5-Trichlorophenol	95-95-4	mg/kg	<1.0	<1000	<1.0	<200

TABLE 8
(Continued)

PARAMETER	CAS NUMBER[1]	UNITS[2]	SAMPLE IDENTIFICATION 01475	01559
Aniline	62-53-3	mg/kg	<40	<200
Benzoic Acid	65-85-0	mg/kg	<40	<200
Benzyl Alcohol	100-51-6	mg/kg	<40	<200
4-Chloroaniline	106-47-8	mg/kg	<40	<200
Dibenzofuran	132-64-9	mg/kg	<40	<200
2-Methylnaphthalene	91-57-6	mg/kg	100	<200
2-Methylphenol	95-48-7	mg/kg	<40	<200
4-Methylphenol	106-44-5	mg/kg	<40	<200
2-Nitroaniline	88-74-4	mg/kg	<40	<200
3-Nitroaniline	99-09-2	mg/kg	<40	<200
4-Nitroaniline	100-01-6	mg/kg	<40	<200
2,4,5-Trichlorophenol	95-95-4	mg/kg	<40	<200

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) mg/kg = milligrams per kilogram or parts per million.

TABLE 8
(Continued)

PARAMETER	CAS NUMBER(1)	UNITS(2)	SAMPLE IDENTIFICATION 01471	01472	01473	01474
Aniline	62-53-3	mg/kg	<200	<200	<20	<200
Benzoic Acid	65-85-0	mg/kg	<200	<200	<20	<200
Benzyl Alcohol	100-51-6	mg/kg	<200	<200	<20	<200
4-Chloroaniline	106-47-8	mg/kg	<200	<200	<20	<200
[illegible]benzofuran	132-64-9	mg/kg	<200	<200	<20	<200
[illegible]-Methylnaphthalene	91-57-6	mg/kg	<200	<200	<20	<200
2-Methylphenol	95-48-7	mg/kg	<200	<200	<20	<200
4-Methylphenol	106-44-5	mg/kg	<200	<200	<20	<200
2-Nitroaniline	88-74-4	mg/kg	<200	<200	<20	<200
3-Nitroaniline	99-09-2	mg/kg	<200	<200	<20	<200
4-Nitroaniline	100-01-6	mg/kg	<200	<200	<20	<200
2,4,5-Trichlorophenol	95-95-4	mg/kg	<200	<200	<20	<200

TABLE 10

SUMMARY OF PRIORITY POLLUTANT PESTICIDES
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01395	01397	01398	01399
		Concentration mg/kg[2]			
α-BHC	319-84-6	<1.0	<1.0	<1.0	<1.0
γ-BHC (Lindane)	58-89-9	<1.0	<1.0	<1.0	<1.0
β-BHC	319-85-7	<1.0	<1.0	<1.0	<1.0
Heptachlor	76-44-8	<1.0	<1.0	<1.0	<1.0
δ-BHC	319-86-8	<1.0	<1.0	<1.0	<1.0
Aldrin	309-00-2	<1.0	<1.0	<1.0	<1.0
Heptaclor epoxide	1024-57-3	<1.0	<1.0	<1.0	<1.0
Endosulfan I	115-29-7	<1.0	<1.0	<1.0	<1.0
Dieldrin	60-57-1	<1.0	<1.0	<1.0	<1.0
4,4'-DDE	72-55-9	<1.0	<1.0	<1.0	<1.0
Endrin	72-20-8	<1.0	<1.0	<1.0	<1.0
Endosulfan II	115-29-7	≤1.6[3]	<1.0	<1.0	<1.0
4,4'-DDD	72-54-8	≤1.6[3]	<1.0	<1.0	<1.0
4,4'-DDT	50-29-3	<1.0	<1.0	<1.0	<1.0
Endrin aldehyde	7421-93-4	<1.0	<1.0	<1.0	<1.0
Endosulfan sulfate	1031-07-8	<1.0	<1.0	<1.0	<1.0
Methoxychlor	72-43-5	<1.0	<1.0	<1.0	<1.0
Chlordane	57-74-9	<1.0	<1.0	<1.0	<1.0
Toxaphene	8001-35-2	<1.0	<1.0	<1.0	<1.0
Aroclor 1016	12674-11-2	<1.0	<1.0	<1.0	<1.0
Aroclor 1221	11104-28-2	<1.0	<1.0	<1.0	<1.0
Aroclor 1232	11141-16-5	<1.0	<1.0	<1.0	<1.0
Aroclor 1242	53469-21-9	<1.0	<1.0	<1.0	<1.0
Aroclor 1248	12672-29-6	<1.0	<1.0	<1.0	<1.0
Aroclor 1254	11097-69-1	<1.0	<1.0	<1.0	<1.0
Aroclor 1260	11096-82-5	<1.0	<1.0	<1.0	<1.0

TABLE 9

SURROGATE SPIKE PERCENT RECOVERY
FOR BASE-NEUTRAL AND ACID EXTRACTABLE COMPOUNDS
FOR IT CORPORATION-EERU/U.S. DRUM
PROJECT NO. 84-8019

	SAMPLE IDENTIFICATION									
PARAMETER	01395	01397	01398	01399	01471	01472	01473	01474	01475	01559
Phenol-d_5	103%	--[1]	125%	--	--	--	--	--	--	--
2-Fluorophenol	85%	--	112%	--	--	--	--	--	--	--
Nitrobenzene-d_5	87%	--	95%	--	--	--	--	--	91%	--
2-Fluorobiphenyl	84%	--	107%	--	--	--	113%	--	85%	--
2,4,6-Tribromophenol	110%	--	132%	--	--	--	--	--	--	--
Terphenyl-d_{14}	79%	--	94%	--	--	--	116%	--	79%	--

[1] The indicated values could not be determined because of the large dilution of the corresponding sample matrix.

TABLE 10
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01475	01559
		Concentration mg/kg[2]	
α-BHC	319-84-6	<1.0	<1.0
γ-BHC (Lindane)	58-89-9	<1.0	<1.0
β-BHC	319-85-7	<1.0	<1.0
Heptachlor	76-44-8	<1.0	<1.0
δ-BHC	319-86-8	<1.0	<1.0
Aldrin	309-00-2	<1.0	<1.0
Heptaclor epoxide	1024-57-3	<1.0	<1.0
Endosulfan I	115-29-7	1.4	<1.0
Dieldrin	60-57-1	<1.0	<1.0
4,4'-DDE	72-55-9	<1.0	<1.0
Endrin	72-20-8	2.3	<1.0
Endosulfan II	115-29-7	≤8.0[3]	<1.0
4,4'-DDD	72-54-8	≤8.0[3]	<1.0
4,4'-DDT	50-29-3	13	<1.0
Endrin aldehyde	7421-93-4	<1.0	<1.0
Endosulfan sulfate	1031-07-8	<1.0	<1.0
Methoxychlor	72-43-5	<1.0	<1.0
Chlordane	57-74-9	<1.0	<1.0
Toxaphene	8001-35-2	<1.0	<1.0
Aroclor 1016	12674-11-2	<1.0	<1.0
Aroclor 1221	11104-28-2	<1.0	<1.0
Aroclor 1232	11141-16-5	<1.0	<1.0
Aroclor 1242	53469-21-9	<1.0	<1.0
Aroclor 1248	12672-29-6	<1.0	<1.0
Aroclor 1254	11097-69-1	<1.0	<1.0
Aroclor 1260	11096-82-5	<1.0	<1.0

(1) The numbers presented in this column are the Chemical Abstracts System (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) mg/kg = milligrams per kilogram or parts per million.

(3) The indicated compounds are less than or equal to the indicated concentration.

FORM LAB-3
BY MD DATE 8-30-84
CHKD. BY JJO DATE 9/8/84

840819
IT-ECRU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01395 (Green Liquid)

SAMPLE TYPE: Solid ____ Liquid ✓ Sludge ____ Multilayered ____

OPEN-CUP IGNITABILITY: Ignites when heated ____ Does not ignite ____

Burns ____ Rapidly ____ Moderately ____ Slowly ____

When heat is removed: Continues to burn ____ Flame Sooty ____
Burns for a short period ____
Does not continue to burn ____

OPEN-CUP FLASH POINT: ____ °F CLOSED-CUP FLASH POINT: 190 °F non-ignitable

BIELSTEINS TEST FOR HALOGENS: Present ____ Absent ____

REACTIVITY (Water):

- Solubility: None ✓ Slight ____ Moderate ____ Complete ____
- Temperature of Reactivity: Increase ____ Decrease ____ No Change ✓

pH DETERMINATION: Paper ____ Below 3 ✓, 1.28 units (corrosive)
Meter ✓ Above 3 ____

- If pH <3; HNO_3 Present ____ Absent ✓
  If pH >3; CN^- Present ____ Absent ✓ EST AMT ____
  pH adjusted S^{--} Present ____ Absent ✓ EST AMT ____

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ____ Absent ____

PEROXIDES: (Peroxide Paper) Present ____ Absent ____

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC-

Comments: ND = None detected; NA = Not analyzed

TABLE 10
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION 01471	01472	01473	01474
		Concentration mg/kg[2]			
α-BHC	319-84-6	<1.0	<1.0	<1.0	<1.0
γ-BHC (Lindane)	58-89-9	<1.0	<1.0	<1.0	<1.0
β-BHC	319-85-7	<1.0	<1.0	<1.0	<1.0
Heptachlor	76-44-8	<1.0	<1.0	<1.0	<1.0
δ-BHC	319-86-8	<1.0	<1.0	<1.0	<1.0
Aldrin	309-00-2	<1.0	<1.0	<1.0	<1.0
Heptaclor epoxide	1024-57-3	<1.0	<1.0	<1.0	<1.0
Endosulfan I	115-29-7	<1.0	<1.0	<1.0	<1.0
Dieldrin	60-57-1	<1.0	<1.0	<1.0	<1.0
4,4'-DDE	72-55-9	<1.0	<1.0	<1.0	<1.0
Endrin	72-20-8	<1.0	<1.0	<1.0	<1.0
Endosulfan II	115-29-7	<1.0	<1.0	≤1.2[3]	≤4.6[3]
4,4'-DDD	72-54-8	<1.0	<1.0	≤1.2[3]	≤4.6[3]
4,4'-DDT	50-29-3	<1.0	<1.0	1.6	<1.0
Endrin aldehyde	7421-93-4	<1.0	<1.0	<1.0	<1.0
Endosulfan sulfate	1031-07-8	<1.0	<1.0	<1.0	<1.0
Methoxychlor	72-43-5	<1.0	<1.0	<1.0	<1.0
Chlordane	57-74-9	<1.0	<1.0	<1.0	<1.0
Toxaphene	8001-35-2	<1.0	<1.0	<1.0	<1.0
Aroclor 1016	12674-11-2	<1.0	<1.0	<1.0	<1.0
Aroclor 1221	11104-28-2	<1.0	<1.0	<1.0	<1.0
Aroclor 1232	11141-16-5	<1.0	<1.0	<1.0	<1.0
Aroclor 1242	53469-21-9	<1.0	<1.0	<1.0	<1.0
Aroclor 1248	12672-29-6	<1.0	<1.0	<1.0	<1.0
Aroclor 1254	11097-69-1	<1.0	<1.0	<1.0	<1.0
Aroclor 1260	11096-82-5	<1.0	<1.0	<1.0	<1.0

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BY MO DATE 8-30-84
CHKD. BY JJO DATE 9/5/84

E48019
IT-EERU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01397 (Clear Liquid)

SAMPLE TYPE: Solid ____ Liquid ✓ Sludge ____ Multilayered ____

OPEN-CUP IGNITABILITY: Ignites when heated ____ Does not ignite ____

Burns ____ Rapidly ____ Moderately ____ Slowly ____

When heat is removed: Continues to burn ____ Flame Sooty ____
Burns for a short period ____
Does not continue to burn ____

OPEN-CUP FLASH POINT: ____ °F CLOSED-CUP FLASH POINT: 93 °F ignitable

BIELSTEINS TEST FOR HALOGENS: Present ____ Absent ____

REACTIVITY (Water):

- Solubility: None ✓ Slight ____ Moderate ____ Complete ____
- Temperature of Reactivity: Increase ____ Decrease ____ No Change ✓

pH DETERMINATION: Paper ____ Below 3 ____
Meter ✓ Above 3 ✓, 4.55 units

- If pH <3; HNO_3 Present ____ Absent ____
  If pH >3; CN^- Present ____ Absent ✓ EST AMT ____
  S^{--} Present ____ Absent ✓ EST AMT ____

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ____ Absent ____

PEROXIDES: (Peroxide Paper) Present ____ Absent ____

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC-

Comments: ND = None detected; NA = Not analyzed

FORM LAB-3
BY MD DATE 8-30-84
CHKD. BY JJO DATE 9/8/84

840819
IT-KERU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01399 (Light Brown Liquid Phase)

SAMPLE TYPE: Solid ____ Liquid ✓ Sludge ____ Multilayered ____

OPEN-CUP IGNITABILITY: Ignites when heated ____ Does not ignite ____

Burns ____ Rapidly ____ Moderately ____ Slowly ____

When heat is removed: Continues to burn ____ Flame Sooty ____
Burns for a short period ____
Does not continue to burn ____

OPEN-CUP FLASH POINT: ____ °F CLOSED-CUP FLASH POINT: >140 °F non-ignitable

BIELSTEINS TEST FOR HALOGENS: Present ____ Absent ____

REACTIVITY (Water):

- Solubility: None ✓ Slight ____ Moderate ____ Complete ____
- Temperature of Reactivity: Increase ____ Decrease ____ No Change ✓

pH DETERMINATION: Paper ____ Below 3 ____
Meter ✓ Above 3 ✓ ; 9.75 units

- If pH <3; HNO_3 Present ____ Absent ____
  If pH >3; CN^- Present ____ Absent ✓ EST AMT ____
  S^{--} Present ____ Absent ✓ EST AMT ____

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ____ Absent ____

PEROXIDES: (Peroxide Paper) Present ____ Absent ____

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC- _____

Comments: ND = None detected; NA = Not analyzed

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CHKD. BY JJO DATE 9/8/84

84 8019
JT-EERU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 0 1 3 9 8, (Brown Liquid Phase)

SAMPLE TYPE: Solid ____ Liquid ✓ Sludge ____ Multilayered ____

OPEN-CUP IGNITABILITY: Ignites when heated ____ Does not ignite ____

Burns ____ Rapidly ____ Moderately ____ Slowly ____

When heat is removed: Continues to burn ____ Flame Sooty ____
Burns for a short period ____
Does not continue to burn ____

OPEN-CUP FLASH POINT: ____ °F CLOSED-CUP FLASH POINT: >140 °F non-ignitable

BIELSTEINS TEST FOR HALOGENS: Present ____ Absent ____

REACTIVITY (Water):

- Solubility: None ✓ Slight ____ Moderate ____ Complete ____
- Temperature of Reactivity: Increase ____ Decrease ____ No Change ✓

pH DETERMINATION: Paper ____ Below 3 ____
Meter ✓ Above 3 ✓ ; 10.65 units

- If pH <3; HNO_3^- Present ____ Absent ____
  If pH >3; CN^- Present ____ Absent ✓ EST AMT ____
  S^{--} Present ____ Absent ✓ EST AMT ____

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ____ Absent ____

PEROXIDES: (Peroxide Paper) Present ____ Absent ____

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC-

Comments: ND = None detected; NA = Not analyzed

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CHKD. BY JD DATE 9/8/84

84 801P
IT - EERU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01471, (Brown Oily Liquid)

SAMPLE TYPE: Solid ___ Liquid ✓ Sludge ___ Multilayered ___

OPEN-CUP IGNITABILITY: Ignites when heated ___ Does not ignite ___

Burns ___ Rapidly ___ Moderately ___ Slowly ___

When heat is removed: Continues to burn ___ Flame Sooty ___
Burns for a short period ___
Does not continue to burn ___

OPEN-CUP FLASH POINT: ___ °F CLOSED-CUP FLASH POINT: 95 °F ignitable

BIELSTEINS TEST FOR HALOGENS: Present ___ Absent ___

REACTIVITY (Water):

- Solubility: None ✓ Slight ___ Moderate ___ Complete ___
- Temperature of Reactivity: Increase ___ Decrease ___ No Change ✓

pH DETERMINATION: Paper ___ Below 3 ___
Meter ✓ Above 3 ✓ ; 6.12 units

- If pH <3; HNO_3 Present ___ Absent ___
  If pH >3; CN^- Present ___ Absent ✓ EST AMT ___
  S^{--} Present ___ Absent ✓ EST AMT ___

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ___ Absent ___

PEROXIDES: (Peroxide Paper) Present ___ Absent ___

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC-

Comments: ND = None detected; NA = Not analyzed

FORM LAB-3
BY LAO DATE 8/30/84
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E4 8019
IT - ECRU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01472 (Viscous Brown Liquid)

SAMPLE TYPE: Solid ___ Liquid ✓ Sludge ___ Multilayered ___

OPEN-CUP IGNITABILITY: Ignites when heated ___ Does not ignite ___

Burns ___ Rapidly ___ Moderately ___ Slowly ___

When heat is removed: Continues to burn ___ Flame Sooty ___
Burns for a short period ___
Does not continue to burn ___

OPEN-CUP FLASH POINT: ___ °F CLOSED-CUP FLASH POINT: >140 °F non ignitable

BIELSTEINS TEST FOR HALOGENS: Present ___ Absent ___

REACTIVITY (Water):

- Solubility: None ✓ Slight ___ Moderate ___ Complete ___
- Temperature of Reactivity: Increase ___ Decrease ___ No Change ✓

pH DETERMINATION: Paper ✓ Below 3 ___
Meter ___ Above 3 ✓ ~5.5 units

- If pH <3; HNO_3 Present ___ Absent ___
  If pH >3; CN^- Present ___ Absent ✓ EST AMT ___
  S^{--} Present ___ Absent ✓ EST AMT ___

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ___ Absent ___

PEROXIDES: (Peroxide Paper) Present ___ Absent ___

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC- _____

Comments: ND = None detected; NA = Not analyzed

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84 8019
IT-EERU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01474 (Black Oil Layer)

SAMPLE TYPE: Solid ___ Liquid ✓ Sludge ___ Multilayered ___

OPEN-CUP IGNITABILITY: Ignites when heated ___ Does not ignite ___

Burns ___ Rapidly ___ Moderately ___ Slowly ___

When heat is removed: Continues to burn ___ Flame Sooty ___
Burns for a short period ___
Does not continue to burn ___

OPEN-CUP FLASH POINT: ___ °F CLOSED-CUP FLASH POINT: >140 °F non ignitable

BIELSTEINS TEST FOR HALOGENS: Present ___ Absent ___

REACTIVITY (Water):

- Solubility: None ✓ Slight ___ Moderate ___ Complete ___
- Temperature of Reactivity: Increase ___ Decrease ___ No Change ✓

pH DETERMINATION: Paper ___ Below 3 ___
Meter ✓ Above 3 ✓; 12.80 (Corrosive)

- If pH <3; HNO_3 Present ___ Absent ___
  If pH >3; CN^- Present ___ Absent ✓ EST AMT ___
  S^{--} Present ___ Absent ✓ EST AMT ___

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ___ Absent ___

PEROXIDES: (Peroxide Paper) Present ___ Absent ___

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC-

Comments: ND = None detected; NA = Not analyzed

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84 E019
IT - KERU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01473 (2 Phases, Light/Dark Brown, Mixed for testing)

SAMPLE TYPE: Solid ___ Liquid ___ Sludge ___ Multilayered ✓

OPEN-CUP IGNITABILITY: Ignites when heated ___ Does not ignite ___

Burns ___ Rapidly ___ Moderately ___ Slowly ___

When heat is removed: Continues to burn ___ Flame Sooty ___
Burns for a short period ___
Does not continue to burn ___

OPEN-CUP FLASH POINT: ___ °F CLOSED-CUP FLASH POINT: >140 °F non-ignitable

BIELSTEINS TEST FOR HALOGENS: Present ___ Absent ___

REACTIVITY (Water):

- Solubility: None ✓ Slight ___ Moderate ___ Complete ___
- Temperature of Reactivity: Increase ___ Decrease ___ No Change ✓

pH DETERMINATION: Paper ___ Below 3 ___
Meter ✓ Above 3 ✓; 8.03 units

- If pH <3; HNO_3 Present ___ Absent ___
  If pH >3; CN^- Present ___ Absent ✓ EST AMT ___
  S^{--} Present ___ Absent ✓ EST AMT ___

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ___ Absent ___

PEROXIDES: (Peroxide Paper) Present ___ Absent ___

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC-

Comments: ND = None detected; NA = Not analyzed

FORM LAB-3

BY MO DATE 8/29/84

CHKD. BY JJO DATE 9/5/84

84 8019

IT - FERU

CHARACTERIZATION/COMPATABILITY ANALYSIS SUMMARY

SAMPLE NO. 01475, (Black Oily Liquid)

SAMPLE TYPE: Solid ___ Liquid ✓ Sludge ___ Multilayered ___

OPEN-CUP IGNITABILITY: Ignites when heated ___ Does not ignite ___

Burns ___ Rapidly ___ Moderately ___ Slowly ___

When heat is removed: Continues to burn ___ Flame Sooty ___
Burns for a short period ___
Does not continue to burn ___

OPEN-CUP FLASH POINT: ___ °F CLOSED-CUP FLASH POINT: >140 °F

BIELSTEINS TEST FOR HALOGENS: Present ___ Absent ___

REACTIVITY (Water):

- Solubility: None ✓ Slight ___ Moderate ___ Complete ___
- Temperature of Reactivity: Increase ___ Decrease ___ No Change ✓

pH DETERMINATION: Paper ___ Below 3 ___
Meter ✓ Above 3 ✓ ; 6.80 units

- If pH <3; HNO_3 Present ___ Absent ___
  If pH >3; CN^- Present ___ Absent ✓ EST AMT ___
  S^{--} Present ___ Absent ✓ EST AMT ___

OXIDIZABLE MATERIAL: (KI-Starch Paper) Present ___ Absent ___

PEROXIDES: (Peroxide Paper) Present ___ Absent ___

WASTE CLASSIFICATION: _____

SECOND-LEVEL COMPOSITE SAMPLE NO. CC-

Comments: ND = None detected; NA = Not analyzed