

Baker

Baker Environmental, Inc.
Airport Office Park, Building 3
420 Rouser Road
Coraopolis, Pennsylvania 15108

August 2, 1995

(412) 269-6000
FAX (412) 269-2002

Commander
Atlantic Division
Naval Facilities Engineering Command
1510 Gilbert Street (Building N-26)
Norfolk, Virginia 23511-2699

Attn: Mr. Lance Laughmiller, EIT
Code 18236

Re: Contract N62470-89-D-4814
Navy CLEAN, District III
Contract Task Order (CTO) 0312
IDW Handling and Disposal
Operable Unit No. 9 (Site 73)
MCB, Camp Lejeune, North Carolina

Dear Mr. Laughmiller:

This letter report describes the sample collection activities, results, and recommendations for the disposition of investigative-derived waste (IDW) at Site 73, Marine Corps Base, Camp Lejeune, North Carolina.

The IDW from Sites 65 and 73 field activities, presently being stored at Site 73, is contained in one 6,500-gallon storage tanker, one 1,000-gallon polyethylene tank, and one 20-cubic yard roll-off box. A second 6,500-gallon storage tanker was judged to contain "clean" water and was discharged at Site 73. An inventory of the IDW along with quantities are provided in Table 1. Analytical results are provided in Attachment A.

Sample Collection and Analysis Site 73

One grab sample was collected from the 6,500-gallon tanker and given the sample identification 73-TK-615. A grab sample was also collected from the second 6,500-gallon tanker and given the sample identification 73-TK-3617. These samples were analyzed for full Target Compound List (TCL) Organics, Target Analyte List (TAL) Inorganics, and Total Suspended Solids (TSS). Another grab sample was collected from the 1,000 gallon polyethylene tank and given the sample identification 73-POLY-01. This sample was analyzed for full TCL Organics and TAL Inorganics. Five solid grab samples were collected from varying locations within the roll-off box. These grab samples were placed within a stainless steel mixing bowl, homogenized into one composite sample and given the sample identification 73-RX-01. A representative sample was collected for volatile organics analysis prior to homogenizing the samples. This composite sample was analyzed for full Toxicity Characteristic Leachate Procedure (TCLP), TCL PCBs and Resource Conservation Recovery Act (RCRA) characteristics (corrosivity, ignitability, and reactivity).

Water TCL
 TAL
 TSS
Soil TCLP
 TCL
 PCB
 (RCRA Co. I. R.)



A Total Quality Corporation

Baker

Mr. Lance Laughmiller
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Results Site 73

Sample 73-TK-615 had five positive volatile detections, one positive semivolatile detection, and no positive detections for ether pesticides or PCBs. Inorganic analysis did not indicate concentrations above regulatory standards. Sample 73-POLY-01 had six volatile detections, two positive semivolatile detections, and no positive detections for ether pesticides or PCBs. Inorganic analysis did not indicate concentrations above regulatory standards. Sample 73-RX-01 did not have any positive detections for organics, and inorganic analysis did not indicate concentrations above regulatory standards. In addition, sample 73-RX-01 was not found to be reactive to sulfide and cyanide, ignitable at less than 140°F, or corrosive at less than or equal to 2 or greater than or equal to 12.5.

Conclusions and Recommendations Site 73

Analytical results indicate that samples 73-TK-615 and 73-POLY-01 have levels of organic contamination that do not exceed regulatory values, however due to the organic contamination levels present in both tanks site disposal is not recommended. Through working with base EMD personnel, disposal of tanker 73-TK-615 can be accomplished by utilizing the Hadnot Point Shallow Aquifer Remedial Action System located on base. This tanker will be returned to Site 73 and the contents of the polyethylene tank will be pumped into it. The tanker will remain on-site for the additional work that will begin at Site 73 during September 1995. Upon completion of the additional work at Site 73, this tanker will be sampled for TCL Organics, TAL Inorganics, and TSS. Appropriate disposal methods will be deployed upon review of the analytical results. Sample 73-RX-01 did not indicate contamination and it is recommended that the contents of the roll-off box be returned to the site and graded.

Upon LANTDIV's approval of these disposal recommendations, the IDW will be managed as identified within this letter.

If you have any questions, please do not hesitate to contact me at (412) 269-4695 or Mr. Matthew D. Bartman (Activity Coordinator) at (412) 269-2053.

Sincerely,

BAKER ENVIRONMENTAL, INC.

Matthew W Bartman
for

Malcolm W. Petroccia
Project Manager

MWP/PAM/lq

Attachments

cc: Mr. Neal Paul - w/attachments
Mr. John Riggs - w/attachments

TABLE 1

TABLE 1

**SUMMARY OF INVESTIGATIVE DERIVED WASTE
OPERABLE UNIT NO. 9 (SITES 65 and 73)
REMEDIAL INVESTIGATION, CTO-0312
MCB, CAMP LEJEUNE, NORTH CAROLINA**

MATERIAL (LOCATION)	QUANTITY PRODUCED	CONTAINER TYPE	VOLUME OF WASTE	UNIT	LABORATORY ANALYSIS
Development/Purge Water (Site 73)	2	6,500 Gallon Tanker	6,500	gallons	TCL Organics TAL Inorganics TSS
Development/Purge Water (Site 73)	1	1,000 Gallon Polyethylene Tank	1,000	gallons	TCL Organics TAL Inorganics
Drill Mud/Cuttings (Site 73)	1	20 cubic yard roll-off box	20	cubic yards	TCLP Organics TCLP Inorganics TCL PCBs RCRA Hazardous Characteristics

ATTACHMENT A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK615

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK3

Matrix: (soil/water) WATER Lab Sample ID: AF3167

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF3167

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: not dec. _____ Date Analyzed: 05/17/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	7	BJ
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	12	
67-66-3-----	Chloroform	1	J
107-06-2-----	1,2-Dichloroethane	2	BJ
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	12	
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73TK615

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK3

Matrix: (soil/water) WATER Lab Sample ID: AF3167

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF3167

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: not dec. _____ Date Analyzed: 05/17/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK615

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK6

Matrix: (soil/water) WATER Lab Sample ID: AF3168

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF3168

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/17/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2-----Phenol	10	U
111-44-4-----bis(2-Chloroethyl) Ether	10	U
95-57-8-----2-Chlorophenol	10	U
541-73-1-----1,3-Dichlorobenzene	10	U
106-46-7-----1,4-Dichlorobenzene	10	U
95-50-1-----1,2-Dichlorobenzene	10	U
95-48-7-----2-Methylphenol	10	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----4-Methylphenol	10	U
621-64-7-----N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----Hexachloroethane	10	U
98-95-3-----Nitrobenzene	10	U
78-59-1-----Isophorone	10	U
88-75-5-----2-Nitrophenol	10	U
105-67-9-----2,4-Dimethylphenol	10	U
111-91-1-----bis(2-Chloroethoxy)Methane	10	U
120-83-2-----2,4-Dichlorophenol	10	U
120-82-1-----1,2,4-Trichlorobenzene	10	U
91-20-3-----Naphthalene	10	U
106-47-8-----4-Chloroaniline	10	U
87-68-3-----Hexachlorobutadiene	10	U
59-50-7-----4-Chloro-3-Methylphenol	10	U
91-57-6-----2-Methylnaphthalene	10	U
77-47-4-----Hexachlorocyclopentadiene	10	U
88-06-2-----2,4,6-Trichlorophenol	10	U
95-95-4-----2,4,5-Trichlorophenol	25	U
91-58-7-----2-Chloronaphthalene	10	U
88-74-4-----2-Nitroaniline	25	U
131-11-3-----Dimethylphthalate	10	U
208-96-8-----Acenaphthylene	10	U
606-20-2-----2,6-Dinitrotoluene	10	U
99-09-2-----3-Nitroaniline	25	U
83-32-9-----Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK615

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK6

Matrix: (soil/water) WATER Lab Sample ID: AF3168

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF3168

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/17/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	1	BJ
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73TK615

Lab Name: ITAS-KNOXVILLE Contract: BAKER
Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK6
Matrix: (soil/water) WATER Lab Sample ID: AF3168
Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF3168
Level: (low/med) LOW Date Received: 05/11/95
% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/95
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/17/95
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK615

Lab Name: ITAS-KNOXVILLE

Contract:

Lab Code:

Case No.: WO3573

SAS No.:

SDG No.: 73RB19

Matrix: (soil/water) WATER

Lab Sample ID: AF3176

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 05/11/95

Extraction: (SepF/Cont/Sonc) CONT

Date Extracted: 05/15/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/25/95

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6-----alpha-BHC	0.050	U
319-85-7-----beta-BHC	0.050	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.050	U
76-44-8-----Heptachlor	0.050	U
309-00-2-----Aldrin	0.050	U
1024-57-3-----Heptachlor epoxide	0.050	U
959-98-8-----Endosulfan I	0.050	U
60-57-1-----Dieldrin	0.10	U
72-55-9-----4,4'-DDE	0.10	U
72-20-8-----Endrin	0.10	U
33213-65-9-----Endosulfan II	0.10	U
72-54-8-----4,4'-DDD	0.10	U
1031-07-8-----Endosulfan sulfate	0.10	U
50-29-3-----4,4'-DDT	0.10	U
72-43-5-----Methoxychlor	0.50	U
53494-70-5-----Endrin ketone	0.10	U
7421-93-4-----Endrin aldehyde	0.10	U
5103-71-9-----alpha-Chlordane	0.050	U
5103-74-2-----gamma-Chlordane	0.050	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

QUANTERRA INCORPORATED
PRELIMINARY DATA SUMMARY

Data have NOT been through final levels of review and are subject to change upon this review.
Actions taken on these Data are the responsibility of the Data user.

C5E120060
QUANTERRA
CAMP LEJEUNE

PAGE 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNIT</u>	<u>METHOD</u>
73-TK-3617 05/09/95 00:00				
Inorganic Analysis				Reviewed
Reactive Cyanide	ND	50.0	mg/kg	SW846 7.3.3.
Flash Point Closed Cup	>200		deg F	SW846 1010
pH Aqueous	6.9	1.0	su	SW846 9040
Sulfide Reactive	ND	50.0	mg/kg	SW846 7.3.4.
73-TK-615 05/09/95 00:00				
Inorganic Analysis				Reviewed
Reactive Cyanide	ND	50.0	mg/kg	SW846 7.3.3.
Flash Point Closed Cup	>200		deg F	SW846 1010
pH Aqueous	8.0	1.0	su	SW846 9040
Sulfide Reactive	ND	50.0	mg/kg	SW846 7.3.4.

TOTAL SUSPENDED SOLIDS ANALYSIS

Laboratory Name:	Quanterra-Knoxville	Job Number:	3682
Contract Name:	Baker Camp Lejeune	Analysis Date:	05/25/95
Sample Matrix:	Water	Concentration Units:	mg/L

Client Sample ID	Lab Sample ID	Result	Qualifier
Method Blank	AF5017	1	U
73-TK-3617	AF4536	3300	+
73-TK-615	AF4537	700	+

+ - Positive result.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK3617

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK3

Matrix: (soil/water) WATER Lab Sample ID: AF3163

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF3163

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: not dec. _____ Date Analyzed: 05/17/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	5	BJ
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	5	J
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	2	BJ
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	6	J
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73TK3617

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK3

Matrix: (soil/water) WATER Lab Sample ID: AF3163

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF3163

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: not dec. _____ Date Analyzed: 05/17/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK3617

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK6

Matrix: (soil/water) WATER Lab Sample ID: AF3164

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF3164

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/17/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND UG/L Q

108-95-2-----Phenol	10	U
111-44-4-----bis(2-Chloroethyl) Ether	10	U
95-57-8-----2-Chlorophenol	10	U
541-73-1-----1,3-Dichlorobenzene	10	U
106-46-7-----1,4-Dichlorobenzene	10	U
95-50-1-----1,2-Dichlorobenzene	10	U
95-48-7-----2-Methylphenol	10	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----4-Methylphenol	10	U
621-64-7-----N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----Hexachloroethane	10	U
98-95-3-----Nitrobenzene	10	U
78-59-1-----Isophorone	10	U
88-75-5-----2-Nitrophenol	10	U
105-67-9-----2,4-Dimethylphenol	10	U
111-91-1-----bis(2-Chloroethoxy)Methane	10	U
120-83-2-----2,4-Dichlorophenol	10	U
120-82-1-----1,2,4-Trichlorobenzene	10	U
91-20-3-----Naphthalene	10	U
106-47-8-----4-Chloroaniline	10	U
87-68-3-----Hexachlorobutadiene	10	U
59-50-7-----4-Chloro-3-Methylphenol	10	U
91-57-6-----2-Methylnaphthalene	10	U
77-47-4-----Hexachlorocyclopentadiene	10	U
88-06-2-----2,4,6-Trichlorophenol	10	U
95-95-4-----2,4,5-Trichlorophenol	25	U
91-58-7-----2-Chloronaphthalene	10	U
88-74-4-----2-Nitroaniline	25	U
131-11-3-----Dimethylphthalate	10	U
208-96-8-----Acenaphthylene	10	U
606-20-2-----2,6-Dinitrotoluene	10	U
99-09-2-----3-Nitroaniline	25	U
83-32-9-----Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK3617

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK6

Matrix: (soil/water) WATER Lab Sample ID: AF3164

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF3164

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/17/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	1	BJ
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73TK3617

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3572 SAS No.: _____ SDG No.: 73TK6

Matrix: (soil/water) WATER Lab Sample ID: AF3164

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF3164

Level: (low/med) LOW Date Received: 05/11/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/17/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 1 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	16.68	6	J

1D
 PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73TK3617

Lab Name: ITAS-KNOXVILLE

Contract:

Lab Code:

Case No.: WO3573

SAS No.:

SDG No.: 73RB19

Matrix: (soil/water) WATER

Lab Sample ID: AF3175

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 05/11/95

Extraction: (SepF/Cont/Sonc) CONT

Date Extracted: 05/15/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 05/25/95

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

73TK36

Lab Name: QUANTERRA_KNOXVILLE Contract: BAKER/CL
 Lab Code: ITSTU Case No.: 3572 SAS No.: SDG No.: N/A
 Matrix (soil/water): WATER Lab Sample ID: AF3165
 Level (low/med): LOW Date Received: 05/11/95
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	487	—	—	P
7440-36-0	Antimony	50.0	U	—	P
7440-38-2	Arsenic	10.0	U	—	P
7440-39-3	Barium	24.9	B	—	P
7440-41-7	Beryllium	1.0	U	—	P
7440-43-9	Cadmium	5.0	U	—	P
7440-70-2	Calcium	33300	—	—	P
7440-47-3	Chromium	10.0	U	—	P
7440-48-4	Cobalt	20.0	U	—	P
7440-50-8	Copper	10.0	U	—	P
7439-89-6	Iron	437	—	—	P
7439-92-1	Lead	3.0	U	—	P
7439-95-4	Magnesium	2570	B	—	P
7439-96-5	Manganese	24.8	—	—	P
7439-97-6	Mercury	0.20	U	—	CV
7440-02-0	Nickel	20.0	U	—	P
7440-09-7	Potassium	2590	B	—	P
7782-49-2	Selenium	5.0	U	—	P
7440-22-4	Silver	5.0	U	—	P
7440-23-5	Sodium	26100	—	—	P
7440-28-0	Thallium	10.0	U	—	P
7440-62-2	Vanadium	10.0	U	—	P
7440-66-6	Zinc	73.3	—	—	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: N/A
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 CLIENT SAMPLE ID NO. IS 73-TK-3617.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73POLY01

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3707 SAS No.: _____ SDG No.: 73POLY

Matrix: (soil/water) WATER Lab Sample ID: AF4795

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF4795

Level: (low/med) LOW Date Received: 05/24/95

% Moisture: not dec. _____ Date Analyzed: 05/30/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	1	BJ
67-64-1-----	Acetone	2900	BE
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	3	J
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	1	J
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	3	J
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	1	J
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73POLY01

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3707 SAS No.: _____ SDG No.: 73POLY

Matrix: (soil/water) WATER Lab Sample ID: AF4795

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF4795

Level: (low/med) LOW Date Received: 05/24/95

% Moisture: not dec. _____ Date Analyzed: 05/30/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALCOHOL	3.37	86	J
2. 124-18-5	DECANE	11.13	94	BJN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73POLY01DL

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3707 SAS No.: _____ SDG No.: 73POLY

Matrix: (soil/water) WATER Lab Sample ID: AF4795

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF4795D2

Level: (low/med) LOW Date Received: 05/24/95

% Moisture: not dec. _____ Date Analyzed: 05/31/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 20.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	200	U
74-83-9-----	Bromomethane	200	U
75-01-4-----	Vinyl Chloride	200	U
75-00-3-----	Chloroethane	200	U
75-09-2-----	Methylene Chloride	37	BDJ
67-64-1-----	Acetone	3200	D
75-15-0-----	Carbon Disulfide	200	U
75-35-4-----	1,1-Dichloroethene	200	U
75-34-3-----	1,1-Dichloroethane	200	U
540-59-0-----	1,2-Dichloroethene (total)	200	U
67-66-3-----	Chloroform	200	U
107-06-2-----	1,2-Dichloroethane	200	U
78-93-3-----	2-Butanone	200	U
71-55-6-----	1,1,1-Trichloroethane	200	U
56-23-5-----	Carbon Tetrachloride	200	U
75-27-4-----	Bromodichloromethane	200	U
78-87-5-----	1,2-Dichloropropane	200	U
10061-01-5-----	cis-1,3-Dichloropropene	200	U
79-01-6-----	Trichloroethene	200	U
124-48-1-----	Dibromochloromethane	200	U
79-00-5-----	1,1,2-Trichloroethane	200	U
71-43-2-----	Benzene	200	U
10061-02-6-----	trans-1,3-Dichloropropene	200	U
75-25-2-----	Bromoform	200	U
108-10-1-----	4-Methyl-2-Pentanone	200	U
591-78-6-----	2-Hexanone	200	U
127-18-4-----	Tetrachloroethene	200	U
79-34-5-----	1,1,2,2-Tetrachloroethane	200	U
108-88-3-----	Toluene	200	U
108-90-7-----	Chlorobenzene	200	U
100-41-4-----	Ethylbenzene	200	U
100-42-5-----	Styrene	200	U
1330-20-7-----	Xylene (total)	200	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73POLY01DL

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3707 SAS No.: _____ SDG No.: 73POLY

Matrix: (soil/water) WATER Lab Sample ID: AF4795

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AF4795D2

Level: (low/med) LOW Date Received: 05/24/95

% Moisture: not dec. _____ Date Analyzed: 05/31/95

GC Column: RTX624 ID: 0.530 (mm) Dilution Factor: 20.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-18-5	DECANE	11.03	1100	BJN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73POLY01

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3707 SAS No.: _____ SDG No.: 73POLY

Matrix: (soil/water) WATER Lab Sample ID: AF4796

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF4796

Level: (low/med) LOW Date Received: 05/24/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/25/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/31/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	2	J
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73POLY01

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3707 SAS No.: _____ SDG No.: 73POLY

Matrix: (soil/water) WATER Lab Sample ID: AF4796

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF4796

Level: (low/med) LOW Date Received: 05/24/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/25/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/31/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)Anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	1	J
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

73POLY01

Lab Name: ITAS-KNOXVILLE Contract: BAKER

Lab Code: ITSTU Case No.: 3707 SAS No.: _____ SDG No.: 73POLY

Matrix: (soil/water) WATER Lab Sample ID: AF4796

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF4796

Level: (low/med) LOW Date Received: 05/24/95

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/25/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/31/95

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 28 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	1.82	28	JN
2.	UNKNOWN	2.03	4	AJ
3. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	2.57	15	ABJN
4.	UNKNOWN	2.90	3	J
5. 124-07-2	OCTANOIC ACID	7.65	7	JN
6. 7112-02-9	OCTANAMIDE, N-(2-HYDROXYETHY	9.53	11	JN
7.	UNKNOWN (SUBSTITUTED ORGANIC	9.65	4	J
8.	UNKNOWN	10.03	8	J
9. 7726-08-1	DECANAMIDE, N-(2-HYDROXYETHY	11.87	7	JN
10. 143-07-7	DODECANOIC ACID	12.27	25	JN
11. 134-62-3	BENZAMIDE, N,N-DIETHYL-3-MET	12.58	8	JN
12. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	12.65	4	JN
13.	UNKNOWN	13.03	6	J
14. 142-78-9	DODECANAMIDE, N-(2-HYDROXYET	13.95	26	JN
15.	UNKNOWN	14.10	4	J
16.	UNKNOWN	14.20	2	J
17.	UNKNOWN	14.37	19	J
18.	UNKNOWN	15.03	2	J
19.	UNKNOWN (ALKYL AMIDE, N-(2-H	15.83	2	J
20.	UNKNOWN	16.07	4	J
21.	UNKNOWN	16.27	12	J
22.	UNKNOWN	16.92	4	J
23.	UNKNOWN	17.32	3	J
24.	UNKNOWN	17.78	4	J
25.	UNKNOWN	18.02	36	J
26.	UNKNOWN	19.35	3	J
27.	UNKNOWN	19.68	4	J
28.	UNKNOWN	20.17	3	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73POLY01

Lab Name: ITAS-KNOXVILLE

Contract:

Lab Code:

Case No.: WO3711

SAS No.:

SDG No.: POLY01

Matrix: (soil/water) WATER

Lab Sample ID: AF4894

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 05/24/95

Extraction: (SepF/Cont/Sonc) CONT

Date Extracted: 05/25/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/12/95

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

TOTAL SUSPENDED SOLIDS ANALYSIS

Laboratory Name:	Quanterra-Knoxville	Job Number:	3707
Contract Name:	Baker Camp Lejeune	Analysis Date:	05/25/95
Sample Matrix:	Water	Concentration Units:	mg/l

Client Sample ID	Lab Sample ID	Result	Qualifier
Method Blank	AF5017	1	U
73-POLY-01	AF4798	40	+

+ - Positive result.

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

TCLP HERBICIDES ANALYSIS

Laboratory Name:	Quanterra-Knoxville	Job Number:	3573
Contract Name:	Baker Camp Lejeune	TCLP Date:	05/23/95
Client Sample ID:	73-RX-01	Extraction Date:	05/30/95
Lab Sample ID:	AF3318	Analysis Date:	06/02/95
Sample Matrix:	Leachate	Concentration Units:	mg/liter in the leachate

Compound	Concentration	Qualifier	Reporting Limit
2,4D	0.1	U	0.1
2,4,5-TP (silvex)	0.02	U	0.02

Surrogate Recovery	2,4-DCPA
Lab Sample ID: AF3318	41

U - Compound was analyzed for but not detected. The number is the reporting limit for the sample.

TCLP VOLATILE ORGANICS ANALYSIS

Laboratory Name:	Quanterra-Knoxville	Job Number:	3573
Contract Name:	Baker Camp Lejeune	TCLP Date:	05/23/95
Client Sample ID:	73RX01	Analysis Date:	05/31/95
Lab Sample ID:	AF3317	Concentration Units:	mg/liter in the leachate
Sample Matrix:	Leachate		

Compound	Concentration	Qualifier	Detection Limit
benzene	0.025	U	0.025
carbon tetrachloride	0.025	U	0.025
chlorobenzene	0.025	U	0.025
chloroform	0.025	U	0.025
1,2-dichloroethane	0.025	U	0.025
1,1-dichloroethene	0.025	U	0.025
methyl ethyl ketone	0.050	U	0.050
tetrachloroethene	0.025	U	0.025
trichloroethene	0.025	U	0.025
vinyl chloride	0.050	U	0.050

U - Compound was analyzed for but not detected. The number is the detection limit for the sample.

TCLP SEMIVOLATILE ORGANICS ANALYSIS

Laboratory Name:	Quanterra-Knoxville	Job Number:	3573
Contract Name:	Baker Camp Lejeune	TCLP Date:	05/23/95
Client Sample ID:	73-RX-01	Extraction Date:	05/24/95
Lab Sample ID:	AF3318	Analysis Date:	06/04/95
Sample Matrix:	Leachate	Concentration Units:	mg/liter in the leachate

Compound	Concentration	Qualifier	Reporting Limit
total cresols	0.04	U	0.04
1,4-dichlorobenzene	0.04	U	0.04
2,4-dinitrotoluene	0.04	U	0.04
hexachlorobenzene	0.04	U	0.04
hexachloro-1,3-butadiene	0.04	U	0.04
hexachloroethane	0.04	U	0.04
nitrobenzene	0.04	U	0.04
pentachlorophenol	0.20	U	0.20
pyridine	0.40	U	0.40
2,4,5-trichlorophenol	0.20	U	0.20
2,4,6-trichlorophenol	0.04	U	0.04

U - Compound was analyzed for but not detected. The number is the reporting limit for the sample.

TCLP PESTICIDES ANALYSIS

Laboratory Name:	Quanterra-Knoxville	Job Number:	3573
Contract Name:	Baker Camp Lejeune	TCLP Date:	05/23/95
Client Sample ID:	73-RX-01	Extraction Date:	05/24/95
Lab Sample ID:	AF3318	Analysis Date:	05/30/95
Sample Matrix:	Leachate	Concentration Units:	mg/liter in the leachate

Compound	Concentration	Qualifier	Reporting Limit
lindane	0.008	U	0.008
heptachlor	0.001	U	0.001
heptachlor epoxide	0.001	U	0.001
endrin	0.004	U	0.004
methoxychlor	0.08	U	0.08
chlordane	0.006	U	0.006
toxaphene	0.1	U	0.1

Surrogate Recovery Acceptance Limits:	tetrachloro-m-xylene (23-128%)	dibutylchlorendate (64-132%)
Lab Sample ID: AF3318	89	112

U - Compound was analyzed for but not detected. The number is the reporting limit for the sample.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

73RX01

Lab Name: ITAS-KNOXVILLE

Contract:

Lab Code:

Case No.: W03573

SAS No.:

SDG No.: 73RB19

Matrix: (soil/water) SOIL

Lab Sample ID: AF3315

Sample wt/vol: 30.1 (g/mL) G

Lab File ID:

% Moisture: 24 decanted: (Y/N) N

Date Received: 05/11/95

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 05/17/95

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 06/01/95

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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319-84-6-----alpha-BHC	2.2	U
319-85-7-----beta-BHC	2.2	U
319-86-8-----delta-BHC	2.2	U
58-89-9-----gamma-BHC (Lindane)	2.2	U
76-44-8-----Heptachlor	2.2	U
309-00-2-----Aldrin	2.2	U
1024-57-3-----Heptachlor epoxide	2.2	U
959-98-8-----Endosulfan I	2.2	U
60-57-1-----Dieldrin	4.3	U
72-55-9-----4,4'-DDE	4.3	U
72-20-8-----Endrin	4.3	U
33213-65-9-----Endosulfan II	4.3	U
72-54-8-----4,4'-DDD	49	P
1031-07-8-----Endosulfan sulfate	4.3	U
50-29-3-----4,4'-DDT	4.3	U
72-43-5-----Methoxychlor	22	U
53494-70-5-----Endrin ketone	4.3	U
7421-93-4-----Endrin aldehyde	4.3	U
5103-71-9-----alpha-Chlordane	2.2	U
5103-74-2-----gamma-Chlordane	2.2	U
8001-35-2-----Toxaphene	220	U
12674-11-2-----Aroclor-1016	43	U
11104-28-2-----Aroclor-1221	88	U
11141-16-5-----Aroclor-1232	43	U
53469-21-9-----Aroclor-1242	43	U
12672-29-6-----Aroclor-1248	43	U
11097-69-1-----Aroclor-1254	43	U
11096-82-5-----Aroclor-1260	43	U

QUANTERRA

73-RX-01

WO #: A4J4D
LAB #: C5E130014-009
MATRIX: SOLID

DATE SAMPLED: 5/09/95

DATE RECEIVED: 5/13/95

----- INORGANIC ANALYTICAL REPORT -----

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>			<u>METHOD</u>	<u>PREPARATION - QC</u>	
		<u>LIMIT</u>	<u>UNIT</u>	<u>ANALYSIS DATE</u>		<u>BATCH</u>	
Flash Point Closed Cup	<200		deg F	SW846 1010	5/31/95	5151069	
pH Non-Aqueous	7.8	1.0	su	SW846 9045	5/16/95	5136132	
Reactive Cyanide	ND	50.0	mg/kg	SW846 7.3.3.2	5/15- 5/17/95	5137077	
Sulfide Reactive	ND	50.0	mg/kg	SW846 7.3.4.2	5/15- 5/16/95	5135119	

NOTE: AS RECEIVED

ND NOT DETECTED AT THE STATED REPORTING LIMIT

0005011A